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Cover Page

Order ID : P4736

Project ID : Monthly 2024

Client : Aramark Uniforms

Lab Sample Number	Client Sample Number
P4736-01	GRAB
P4736-02	COMP

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: 11/16/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4736**

	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: **KETAN PATEL** **Date:** **11/16/2024**

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LAB CHRONICLE

OrderID:	P4736	**OrderDate:**	11/6/2024 2:36:00 PM
Client:	Aramark Uniforms	**Project:**	Monthly 2024
Contact:	Jose Liceaga	**Location:**	L11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4736-02	**COMP**	**Water**			**11/06/24**			**11/06/24**
			Mercury	7470A		11/11/24	11/11/24	
			Metals ICP-Group1	6010D		11/07/24	11/08/24	

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Hit Summary Sheet
SW-846

SDG No.: P4736 **Order ID:** P4736

Client: Aramark Uniforms **Project ID:** Monthly 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP								
P4736-02	COMP	Water	Cadmium	0.0017	J	0.000094	0.0030	mg/L
P4736-02	COMP	Water	Copper	0.11		0.0071	0.010	mg/L
P4736-02	COMP	Water	Lead	0.026		0.0035	0.0060	mg/L
P4736-02	COMP	Water	Nickel	0.017	J	0.00085	0.020	mg/L
P4736-02	COMP	Water	Zinc	0.46		0.0018	0.020	mg/L



SAMPLE DATA

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Report of Analysis

Client:	Aramark Uniforms	Date Collected:	11/06/24
Project:	Monthly 2024	Date Received:	11/06/24
Client Sample ID:	COMP	SDG No.:	P4736
Lab Sample ID:	P4736-02	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.
7440-43-9	Cadmium	0.0017	J	1	0.000094	0.0030	mg/L	11/07/24 12:30	11/08/24 20:18	SW6010	SW3010
7440-50-8	Copper	0.11		1	0.0071	0.010	mg/L	11/07/24 12:30	11/08/24 20:18	SW6010	SW3010
7439-92-1	Lead	0.026		1	0.0035	0.0060	mg/L	11/07/24 12:30	11/08/24 20:18	SW6010	SW3010
7439-97-6	Mercury	0.000081	U	1	0.000081	0.00020	mg/L	11/11/24 10:15	11/11/24 14:26	SW7470A	
7440-02-0	Nickel	0.017	J	1	0.00085	0.020	mg/L	11/07/24 12:30	11/08/24 20:18	SW6010	SW3010
7440-66-6	Zinc	0.46	N	1	0.0018	0.020	mg/L	11/07/24 12:30	11/08/24 20:18	SW6010	SW3010

Color Before:	White	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Cloudy	Artifacts:	
Comments:	Metals Group1				

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

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
ICV80	Mercury	4.09	4.0	102	90 - 110	CV	11/11/2024	13:58	LB133392

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
CCV64	Mercury	5.16	5.0	103	90 - 110	CV	11/11/2024	14:03	LB133392
CCV65	Mercury	4.85	5.0	97	90 - 110	CV	11/11/2024	14:36	LB133392
CCV66	Mercury	4.93	5.0	99	90 - 110	CV	11/11/2024	14:54	LB133392

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Copper	521	510	102	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Nickel	509	530	96	90 - 110	P	11/08/2024	13:59	LB133365
	Zinc	1030	1000	103	90 - 110	P	11/08/2024	13:59	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Copper	22.8	20.0	114	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	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
	Zinc	42.1	40.0	105	80 - 120	P	11/08/2024	14:11	LB133365

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Nickel	2440	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Nickel	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	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Copper	1270	1250	101	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Nickel	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Zinc	2560	2500	102	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Copper	1310	1250	105	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Nickel	2460	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Zinc	2610	2500	104	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Copper	1290	1250	103	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Nickel	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Zinc	2540	2500	102	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Copper	1250	1250	100	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Nickel	2400	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	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Copper	1280	1250	102	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Nickel	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Zinc	2580	2500	103	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Cadmium	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
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Nickel	2380	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	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Copper	1160	1250	93	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Nickel	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Zinc	2420	2500	97	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365
	Copper	1130	1250	91	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Nickel	2360	2500	94	90 - 110	P	11/08/2024	23:24	LB133365
	Zinc	2690	2500	108	90 - 110	P	11/08/2024	23:24	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	526	510	103	90 - 110	P	11/19/2024	11:25	LB133524
	Copper	538	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Lead	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Nickel	532	530	100	90 - 110	P	11/19/2024	11:25	LB133524
	Zinc	1060	1000	106	90 - 110	P	11/19/2024	11:25	LB133524

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	5.89	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Copper	22.3	20.0	112	80 - 120	P	11/19/2024	11:34	LB133524
	Lead	12.4	12.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Nickel	39.7	40.0	99	80 - 120	P	11/19/2024	11:34	LB133524
	Zinc	45.8	40.0	114	80 - 120	P	11/19/2024	11:34	LB133524

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Copper	1260	1250	101	90 - 110	P	11/19/2024	12:43	LB133524
	Lead	4990	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Zinc	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
CCV02	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	13:34	LB133524
	Copper	1350	1250	108	90 - 110	P	11/19/2024	13:34	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	13:34	LB133524
CCV03	Cadmium	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Copper	1300	1250	104	90 - 110	P	11/19/2024	14:24	LB133524
	Lead	5200	5000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Nickel	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Zinc	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
CCV04	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	15:31	LB133524
	Lead	5230	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Zinc	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
CCV05	Cadmium	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Copper	1310	1250	105	90 - 110	P	11/19/2024	16:18	LB133524
	Lead	5170	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Nickel	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Zinc	2640	2500	106	90 - 110	P	11/19/2024	16:18	LB133524
CCV06	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	17:19	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Nickel	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	17:19	LB133524
CCV07	Cadmium	2490	2500	99	90 - 110	P	11/19/2024	18:01	LB133524
	Copper	1290	1250	104	90 - 110	P	11/19/2024	18:01	LB133524
	Lead	5020	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Zinc	2480	2500	99	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Copper	21.4	20.0	107	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	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
	Zinc	41.9	40.0	105	40 - 160	P	11/08/2024	14:20	LB133365
CRA	Mercury	0.21	0.2	103	40 - 160	CV	11/11/2024	14:10	LB133392
CRI01	Cadmium	5.78	6.0	96	40 - 160	P	11/19/2024	11:43	LB133524
	Copper	22.2	20.0	111	40 - 160	P	11/19/2024	11:43	LB133524
	Lead	12.1	12.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Nickel	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Zinc	42.4	40.0	106	40 - 160	P	11/19/2024	11:43	LB133524

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB80	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:01	LB133392

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:05	LB133392
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:41	LB133392
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:57	LB133392

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Nickel	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

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
CCB09	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Nickel	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	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Nickel	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

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	11:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	11:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	12:48	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	12:48	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
CCB02	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	13:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	13:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
CCB03	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	14:28	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	14:28	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	15:36	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	15:36	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
CCB05	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	16:22	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	16:22	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
CCB06	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	17:24	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	17:24	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
CCB07	Cadmium	0.62	+/-6.00	J	6.00	P	11/19/2024	18:05	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	18:05	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524

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Metals
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PREPARATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164872BL		**WATER**		**Batch Number:**	**PB164872**		**Prep Date:**	**11/11/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/11/2024	14:20	LB133392

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164759BL		**WATER**		**Batch Number:**	**PB164759**		**Prep Date:**	**11/07/2024**	
	Cadmium	3.00	<3.00	U	3.00	P	11/19/2024	13:00	LB133524
	Copper	10.0	<10.0	U	10.0	P	11/19/2024	13:00	LB133524
	Lead	6.00	<6.00	U	6.00	P	11/19/2024	13:00	LB133524
	Nickel	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524
	Zinc	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Copper	14.3	2.0	715	-18	22	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Nickel	2.63	2.0	132	-38	42	11/08/2024	14:24	LB133365
	Zinc	7.04			-40	40	11/08/2024	14:24	LB133365
ICSAB01	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Copper	499	511	98	434	588	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Nickel	981	954	103	810	1100	11/08/2024	14:30	LB133365
	Zinc	1090	952	114	809	1095	11/08/2024	14:30	LB133365
ICSA01	Cadmium	3.48	1.0	348	-5	7	11/19/2024	11:47	LB133524
	Copper	7.48	2.0	374	-18	22	11/19/2024	11:47	LB133524
	Lead	8.06			-12	12	11/19/2024	11:47	LB133524
	Nickel	2.06	2.0	103	-38	42	11/19/2024	11:47	LB133524
	Zinc	5.70			-40	40	11/19/2024	11:47	LB133524
ICSAB01	Cadmium	832	972	86	826	1120	11/19/2024	11:51	LB133524
	Copper	493	511	96	434	588	11/19/2024	11:51	LB133524
	Lead	57.8	49.0	118	37	61	11/19/2024	11:51	LB133524
	Nickel	1020	954	107	810	1100	11/19/2024	11:51	LB133524
	Zinc	1090	952	114	809	1095	11/19/2024	11:51	LB133524

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metals
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MATRIX SPIKE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P4736

contract: ARAM01 **lab code:** CHEM **case no.:** P4736 **sas no.:** P4736

matrix: Water **sample id:** P4718-04 **client id:** WB-307-SWMS

Percent Solids for Sample: NA **Spiked ID:** P4718-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	87.4		0.19	J	100	87		P
Copper	ug/L	75 - 125	125		10.0	U	150	83		P
Lead	ug/L	75 - 125	436		6.00	U	500	87		P
Nickel	ug/L	75 - 125	221		20.0	U	250	88		P
Zinc	ug/L	75 - 125	177		19.8	J	100	157	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P4736

contract: ARAM01 **lab code:** CHEM **case no.:** P4736 **sas no.:** P4736

matrix: Water **sample id:** P4718-04 **client id:** WB-307-SWMSD

Percent Solids for Sample: NA **Spiked ID:** P4718-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	87.0		0.19	J	100	87		P
Copper	ug/L	75 - 125	127		10.0	U	150	85		P
Lead	ug/L	75 - 125	434		6.00	U	500	87		P
Nickel	ug/L	75 - 125	220		20.0	U	250	88		P
Zinc	ug/L	75 - 125	182		19.8	J	100	162	N	P

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metals
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MATRIX SPIKE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P4736

contract: ARAM01 **lab code:** CHEM **case no.:** P4736 **sas no.:** P4736

matrix: Water **sample id:** P4791-02 **client id:** HINCHMAN-OILY-WATERMS

Percent Solids for Sample: NA **Spiked ID:** P4791-02MS **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	75 - 125	3.06		0.20	U	4.0	76		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P4736

contract: ARAM01 **lab code:** CHEM **case no.:** P4736 **sas no.:** P4736

matrix: Water **sample id:** P4791-02 **client id:** HINCHMAN-OILY-WATERMSD

Percent Solids for Sample: NA **Spiked ID:** P4791-02MSD **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	75 - 125	3.12		0.20	U	4.0	78		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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

Sample ID: P4718-04 **Spiked ID:** P4718-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Zinc	ug/L	75 - 125	176		19.8	J	100	156		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Matrix: Water **Sample ID:** P4718-04 **Client ID:** WB-307-SWDUP

Percent Solids for Sample: NA **Duplicate ID** P4718-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	0.19	J	0.22	J	17		P
Copper	ug/L	20	10.0	U	10.0	U			P
Lead	ug/L	20	6.00	U	6.00	U			P
Nickel	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	19.8	J	19.6	J	1		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Matrix: Water **Sample ID:** P4718-04MS **Client ID:** WB-307-SWMSD

Percent Solids for Sample: NA **Duplicate ID** P4718-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	87.4		87.0		0		P
Copper	ug/L	20	125		127		2		P
Lead	ug/L	20	436		434		0		P
Nickel	ug/L	20	221		220		0		P
Zinc	ug/L	20	177		182		3		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Matrix: Water **Sample ID:** P4791-02 **Client ID:** HINCHMAN-OILY-WATERDUP

Percent Solids for Sample: NA **Duplicate ID** P4791-02DUP **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"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Matrix: Water **Sample ID:** P4791-02MS **Client ID:** HINCHMAN-OILY-WATERMSD

Percent Solids for Sample: NA **Duplicate ID** P4791-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.06		3.12		2		CV

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164759BS							
Cadmium	ug/L	100	97.8		98	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Lead	ug/L	500	489		98	80 - 120	P
Nickel	ug/L	250	248		99	80 - 120	P
Zinc	ug/L	100	103		103	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164872BS							
Mercury	ug/L	4.0	3.62		90	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SWL

Lab Name: Chemtech Consulting Group **Contract:** ARAM01

Lab Code: CHEM **Lb No.:** lb133365 **Lab Sample ID :** P4718-04L **SDG No.:** P4736

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
Cadmium	0.19	J	15.0	U	100.0		P
Copper	10.0	U	50.0	U			P
Lead	6.00	U	30.0	U			P
Nickel	20.0	U	100	U			P
Zinc	19.8	J	15.6	J	21		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

HINCHMAN-OILY-WATERL

Lab Name: Chemtech Consulting Group **Contract:** ARAM01

Lab Code: CHEM **Lb No.:** lb133392 **Lab Sample ID :** P4791-02L **SDG No.:** P4736

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

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P4736 **SAS No.:** P4736

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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Method:**

Case No.: P4736 **SAS No.:** P4736

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164759**						
P4718-04DUP	WB-307-SWDUP	DUP	WATER	11/07/2024	50.0	25.0	
P4718-04MS	WB-307-SWMS	MS	WATER	11/07/2024	50.0	25.0	
P4718-04MSD	WB-307-SWMSD	MSD	WATER	11/07/2024	50.0	25.0	
P4736-02	COMP	SAM	WATER	11/07/2024	50.0	25.0	
PB164759BL	PB164759BL	MB	WATER	11/07/2024	50.0	25.0	
PB164759BS	PB164759BS	LCS	WATER	11/07/2024	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Aramark Uniforms **SDG No.:** P4736

Contract: ARAM01 **Lab Code:** CHEM **Method:**

Case No.: P4736 **SAS No.:** P4736

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164872**						
P4736-02	COMP	SAM	WATER	11/11/2024	30.0	30.0	
P4791-02DUP	HINCHMAN-OILY-WATERDUP	DUP	WATER	11/11/2024	30.0	30.0	
P4791-02MS	HINCHMAN-OILY-WATERMS	MS	WATER	11/11/2024	30.0	30.0	
P4791-02MSD	HINCHMAN-OILY-WATERMSD	MSD	WATER	11/11/2024	30.0	30.0	
PB164872BL	PB164872BL	MB	WATER	11/11/2024	30.0	30.0	
PB164872BS	PB164872BS	LCS	WATER	11/11/2024	30.0	30.0	

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metals
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ANALYSIS RUN LOG

Client: Aramark Uniforms **Contract:** ARAM01

Lab code: CHEM **Case no.:** P4736 **Sas no.:** P4736 **Sdg no.:** P4736

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	Cd,Cu,Ni,Pb,Zn
S1	S1	1	1338	Cd,Cu,Ni,Pb,Zn
S2	S2	1	1343	Cd,Cu,Ni,Pb,Zn
S3	S3	1	1347	Cd,Cu,Ni,Pb,Zn
S4	S4	1	1351	Cd,Cu,Ni,Pb,Zn
S5	S5	1	1355	Cd,Cu,Ni,Pb,Zn
ICV01	ICV01	1	1359	Cd,Cu,Ni,Pb,Zn
LLICV01	LLICV01	1	1411	Cd,Cu,Ni,Pb,Zn
ICB01	ICB01	1	1416	Cd,Cu,Ni,Pb,Zn
CRI01	CRI01	1	1420	Cd,Cu,Ni,Pb,Zn
ICSA01	ICSA01	1	1424	Cd,Cu,Ni,Pb,Zn
ICSAB01	ICSAB01	1	1430	Cd,Cu,Ni,Pb,Zn
CCV01	CCV01	1	1444	Cd,Cu,Ni,Pb,Zn
CCB01	CCB01	1	1450	Cd,Cu,Ni,Pb,Zn
CCV02	CCV02	1	1529	Cd,Cu,Ni,Pb,Zn
CCB02	CCB02	1	1533	Cd,Cu,Ni,Pb,Zn
CCV03	CCV03	1	1623	Cd,Cu,Ni,Pb,Zn
CCB03	CCB03	1	1628	Cd,Cu,Ni,Pb,Zn
CCV04	CCV04	1	1716	Cd,Cu,Ni,Pb,Zn
CCB04	CCB04	1	1722	Cd,Cu,Ni,Pb,Zn
CCV05	CCV05	1	1804	Cd,Cu,Ni,Pb,Zn
CCB05	CCB05	1	1808	Cd,Cu,Ni,Pb,Zn
CCV06	CCV06	1	1855	Cd,Cu,Ni,Pb,Zn
CCB06	CCB06	1	1859	Cd,Cu,Ni,Pb,Zn
CCV07	CCV07	1	1947	Cd,Cu,Ni,Pb,Zn
CCB07	CCB07	1	1951	Cd,Cu,Ni,Pb,Zn
P4718-04DUP	WB-307-SWDUP	1	1955	Cd,Cu,Ni,Pb,Zn
P4718-04L	WB-307-SWL	5	2000	Cd,Cu,Ni,Pb,Zn
P4718-04MS	WB-307-SWMS	1	2004	Cd,Cu,Ni,Pb,Zn
P4718-04MSD	WB-307-SWMSD	1	2009	Cd,Cu,Ni,Pb,Zn
P4718-04A	WB-307-SWA	1	2014	Zn
P4736-02	COMP	1	2018	Cd,Cu,Ni,Pb,Zn
CCV08	CCV08	1	2048	Cd,Cu,Ni,Pb,Zn
CCB08	CCB08	1	2057	Cd,Cu,Ni,Pb,Zn
CCV09	CCV09	1	2150	Cd,Cu,Ni,Pb,Zn
CCB09	CCB09	1	2155	Cd,Cu,Ni,Pb,Zn
CCV10	CCV10	1	2324	Cd,Cu,Ni,Pb,Zn
CCB10	CCB10	1	2335	Cd,Cu,Ni,Pb,Zn

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metals
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ANALYSIS RUN LOG

Client: Aramark Uniforms **Contract:** ARAM01

Lab code: CHEM **Case no.:** P4736 **Sas no.:** P4736 **Sdg no.:** P4736

Instrument id number: **Method:** **Run number:** LB133392

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

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	HG
S0.2	S0.2	1	1341	HG
S2.5	S2.5	1	1344	HG
S5	S5	1	1346	HG
S7.5	S7.5	1	1353	HG
S10	S10	1	1355	HG
ICV80	ICV80	1	1358	HG
ICB80	ICB80	1	1401	HG
CCV64	CCV64	1	1403	HG
CCB64	CCB64	1	1405	HG
CRA	CRA	1	1410	HG
PB164872BL	PB164872BL	1	1420	HG
PB164872BS	PB164872BS	1	1422	HG
P4736-02	COMP	1	1426	HG
P4791-02DUP	HINCHMAN-OILY-WATERDU	1	1431	HG
P4791-02MS	HINCHMAN-OILY-WATERMS	1	1433	HG
CCV65	CCV65	1	1436	HG
CCB65	CCB65	1	1441	HG
P4791-02MSD	HINCHMAN-OILY-WATERMS	1	1443	HG
P4791-02L	HINCHMAN-OILY-WATERL	5	1450	HG
CCV66	CCV66	1	1454	HG
CCB66	CCB66	1	1457	HG

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metals
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ANALYSIS RUN LOG

Client: Aramark Uniforms **Contract:** ARAM01

Lab code: CHEM **Case no.:** P4736 **Sas no.:** P4736 **Sdg no.:** P4736

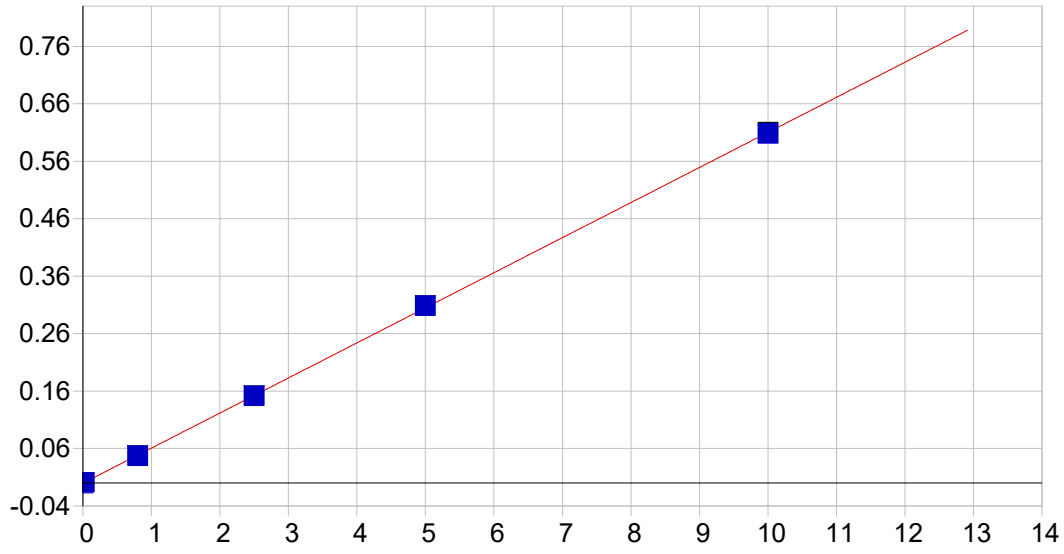
Instrument id number: **Method:** **Run number:** LB133524

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

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	Cd,Cu,Ni,Pb,Zn
S1	S1	1	1100	Cd,Cu,Ni,Pb,Zn
S2	S2	1	1104	Cd,Cu,Ni,Pb,Zn
S3	S3	1	1108	Cd,Cu,Ni,Pb,Zn
S4	S4	1	1113	Cd,Cu,Ni,Pb,Zn
S5	S5	1	1117	Cd,Cu,Ni,Pb,Zn
ICV01	ICV01	1	1125	Cd,Cu,Ni,Pb,Zn
LLICV01	LLICV01	1	1134	Cd,Cu,Ni,Pb,Zn
ICB01	ICB01	1	1138	Cd,Cu,Ni,Pb,Zn
CRI01	CRI01	1	1143	Cd,Cu,Ni,Pb,Zn
ICSA01	ICSA01	1	1147	Cd,Cu,Ni,Pb,Zn
ICSAB01	ICSAB01	1	1151	Cd,Cu,Ni,Pb,Zn
CCV01	CCV01	1	1243	Cd,Cu,Ni,Pb,Zn
CCB01	CCB01	1	1248	Cd,Cu,Ni,Pb,Zn
PB164759BL	PB164759BL	1	1300	Cd,Cu,Ni,Pb,Zn
PB164759BS	PB164759BS	1	1305	Cd,Cu,Ni,Pb,Zn
CCV02	CCV02	1	1334	Cd,Cu,Ni,Pb,Zn
CCB02	CCB02	1	1338	Cd,Cu,Ni,Pb,Zn
CCV03	CCV03	1	1424	Cd,Cu,Ni,Pb,Zn
CCB03	CCB03	1	1428	Cd,Cu,Ni,Pb,Zn
CCV04	CCV04	1	1531	Cd,Cu,Ni,Pb,Zn
CCB04	CCB04	1	1536	Cd,Cu,Ni,Pb,Zn
CCV05	CCV05	1	1618	Cd,Cu,Ni,Pb,Zn
CCB05	CCB05	1	1622	Cd,Cu,Ni,Pb,Zn
CCV06	CCV06	1	1719	Cd,Cu,Ni,Pb,Zn
CCB06	CCB06	1	1724	Cd,Cu,Ni,Pb,Zn
CCV07	CCV07	1	1801	Cd,Cu,Ni,Pb,Zn
CCB07	CCB07	1	1805	Cd,Cu,Ni,Pb,Zn

METAL
RAW DATA

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



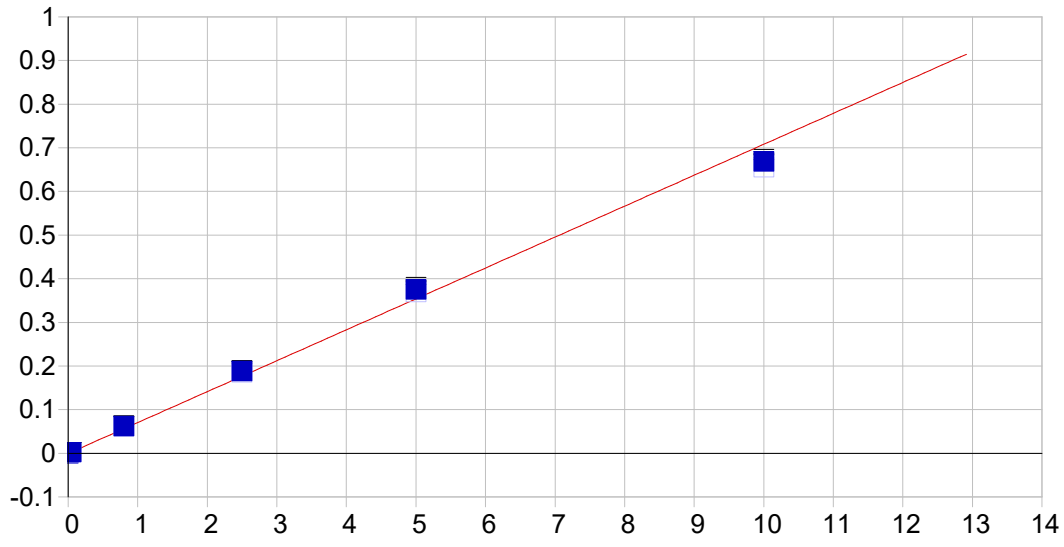
As 189.042 {479}

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

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

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



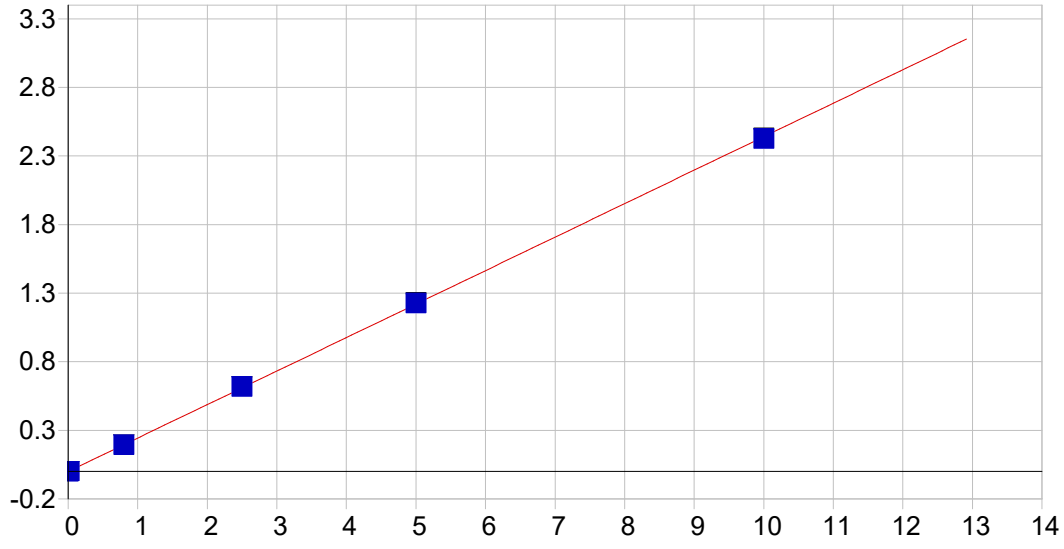
Tl 190.856 {477}

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

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

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

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



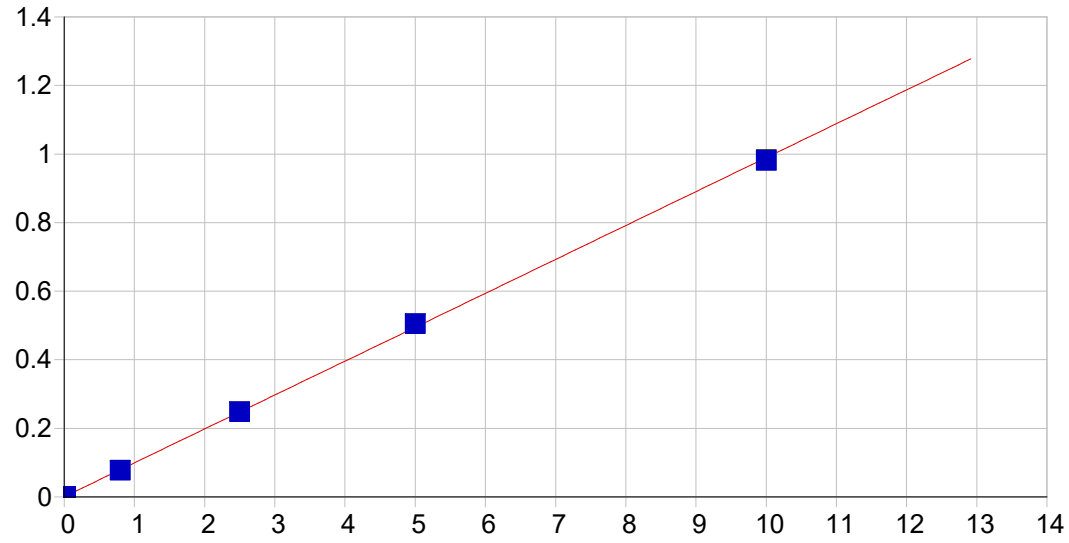
Pb 220.353 {453}

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

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

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



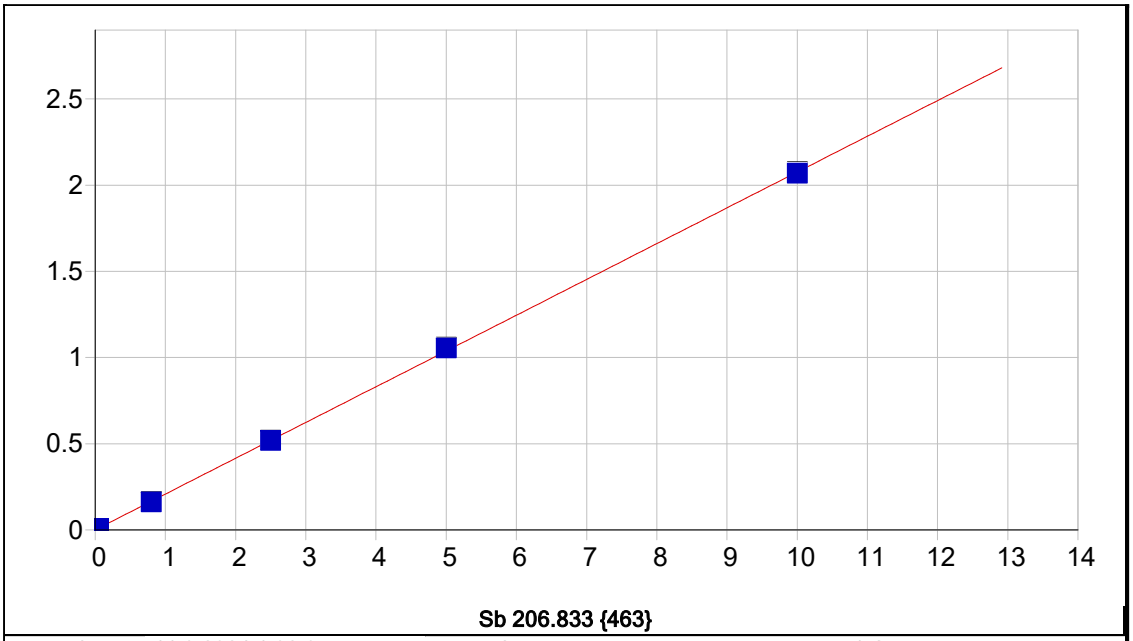
Se 196.090 {472}

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

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

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

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



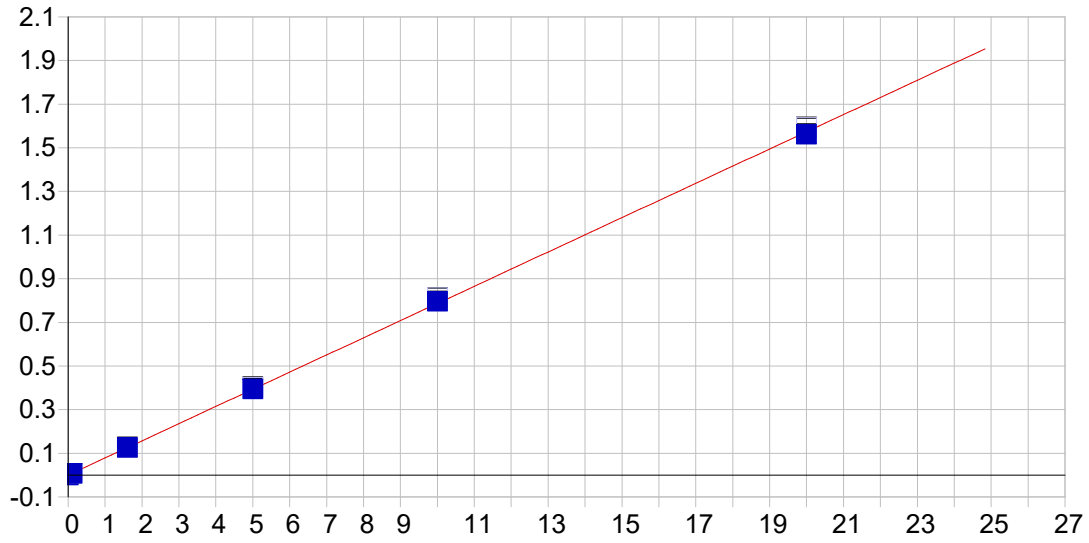
Sb 206.833 {463}

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

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

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

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



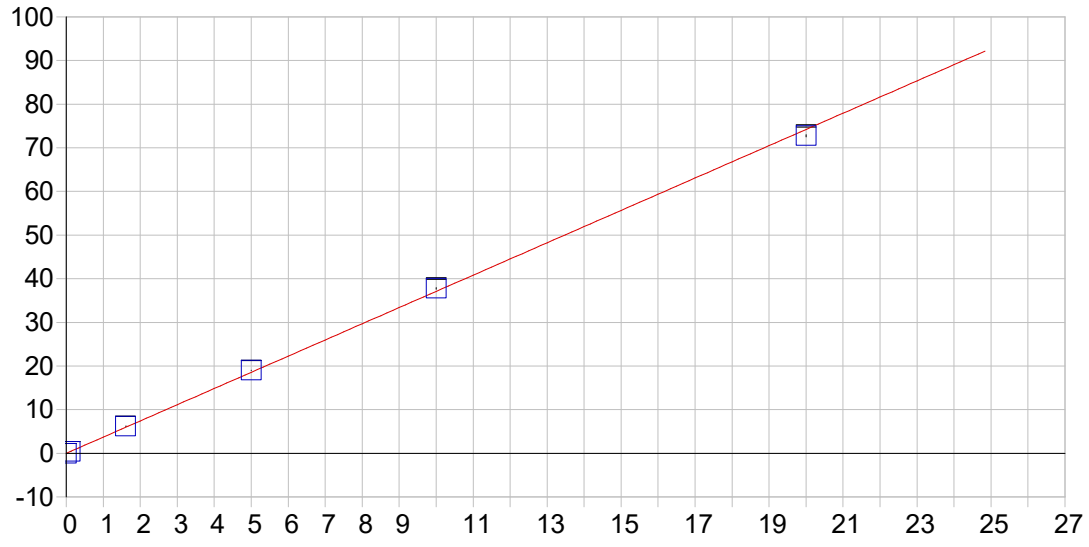
Al 396.152 { 85}

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

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

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

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



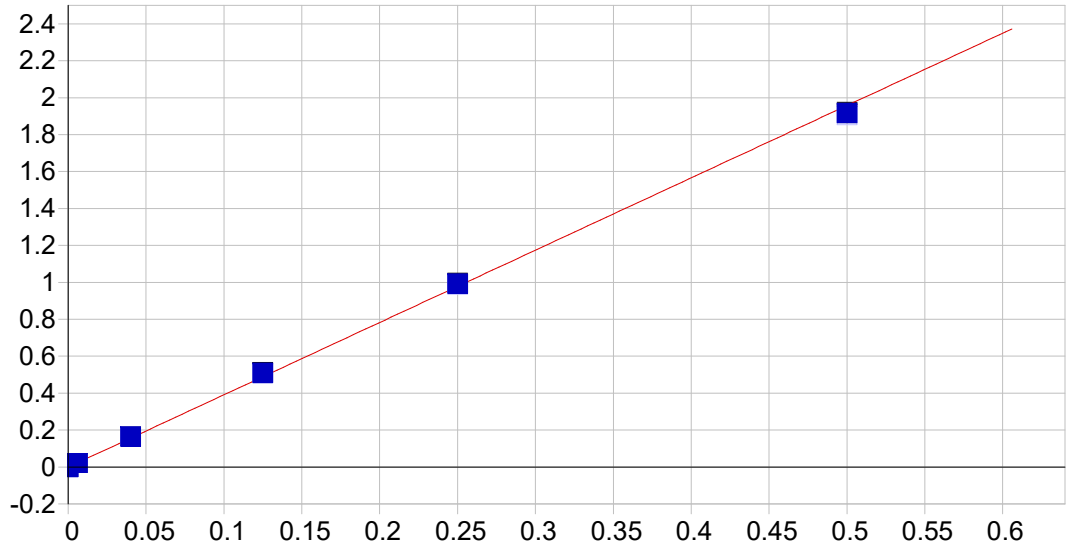
Ba 493.409 { 68}

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

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

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

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



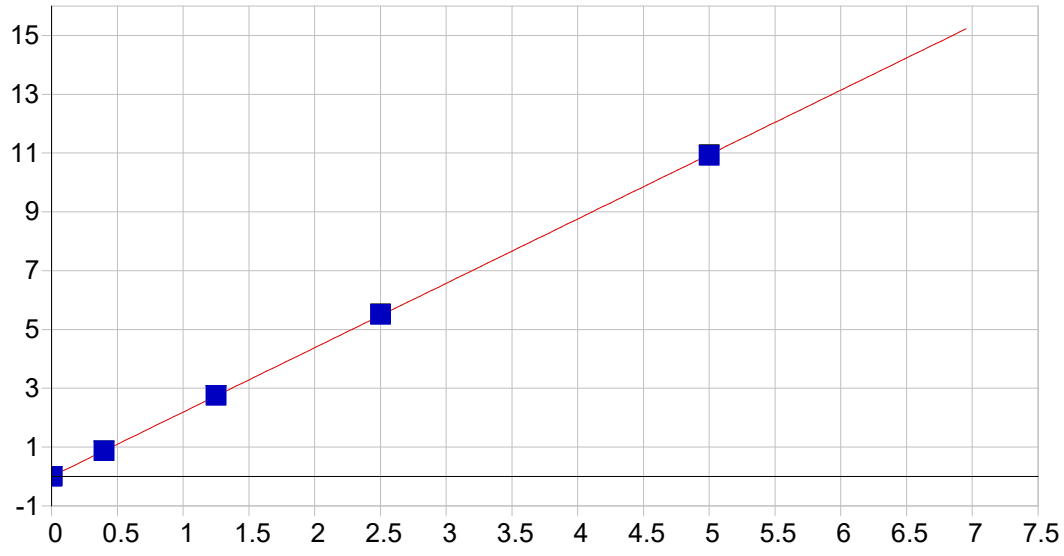
Be 234.861 {144}

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

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

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

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



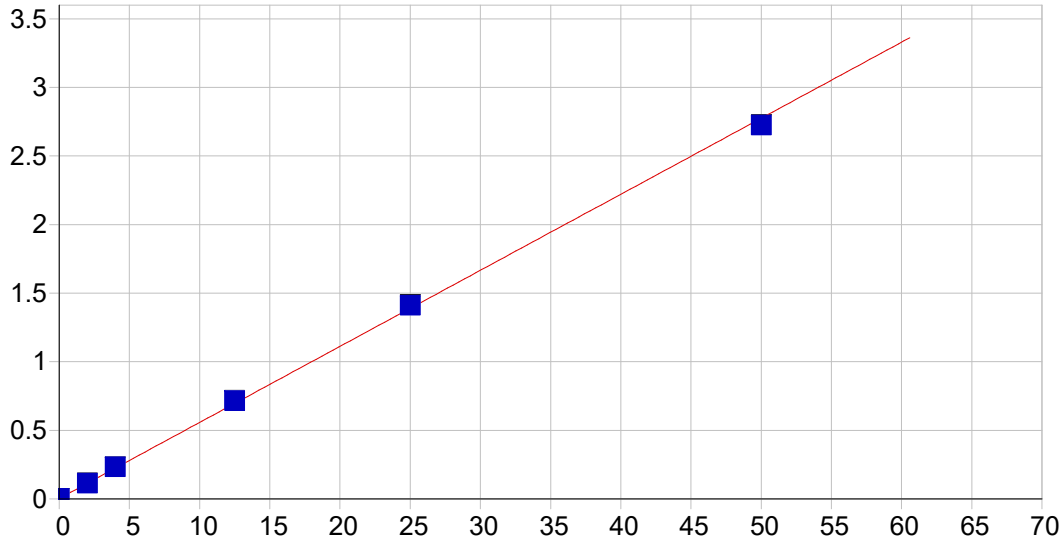
Cd 226.502 {449}

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

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

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

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



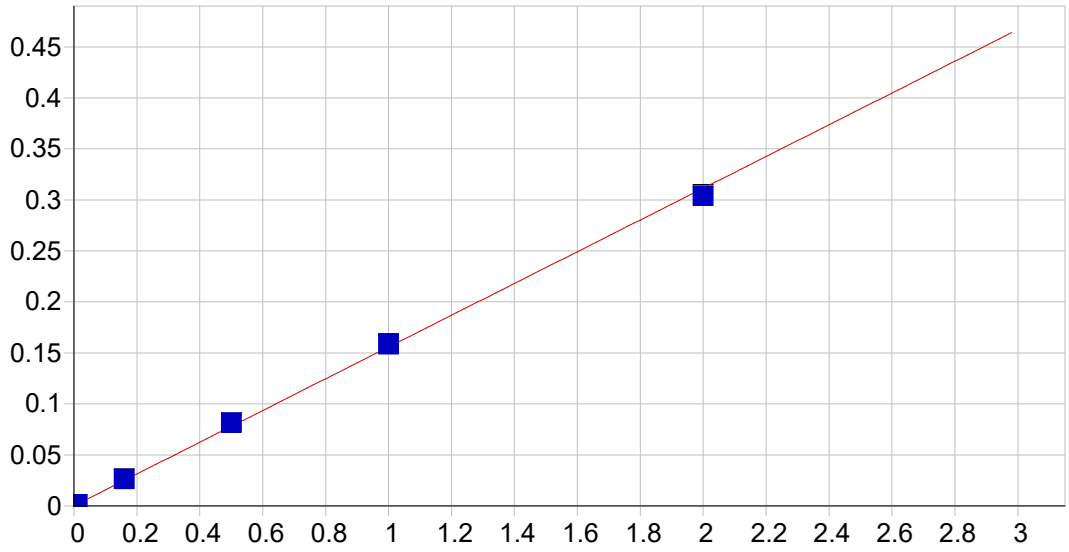
Ca 373.690 { 90}

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

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

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

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



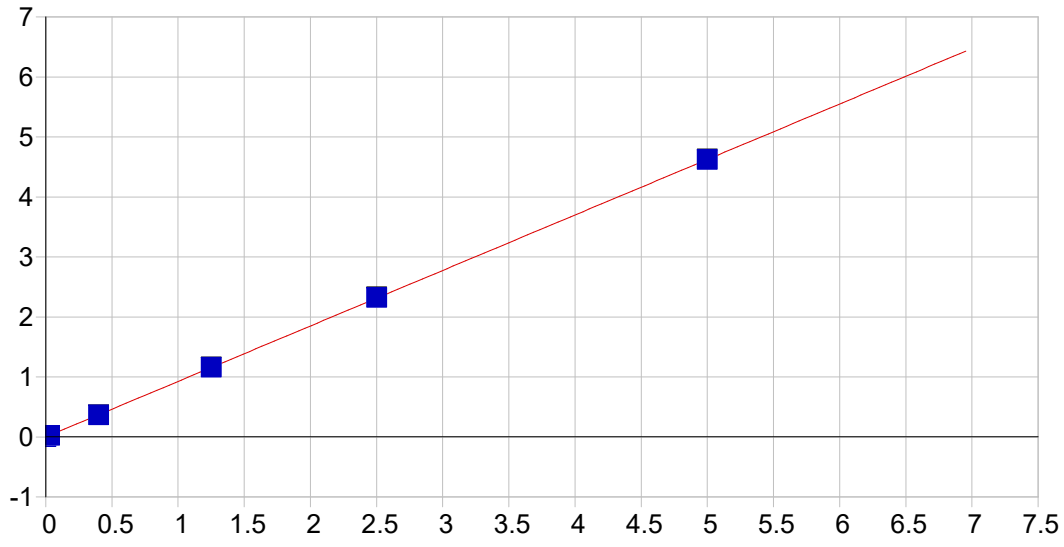
Cr 267.716 {126}

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

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

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

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



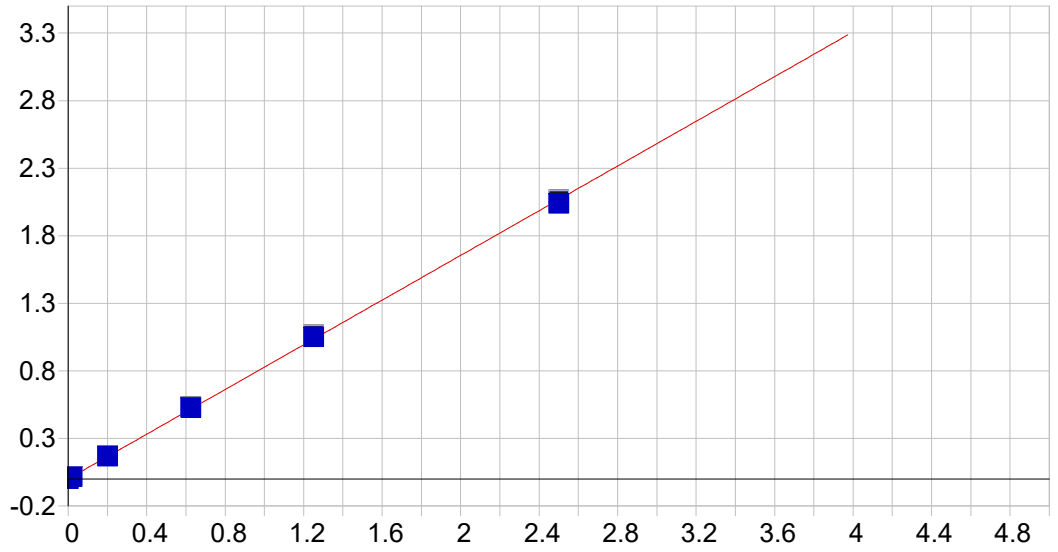
Co 228.616 {448}

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

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

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

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



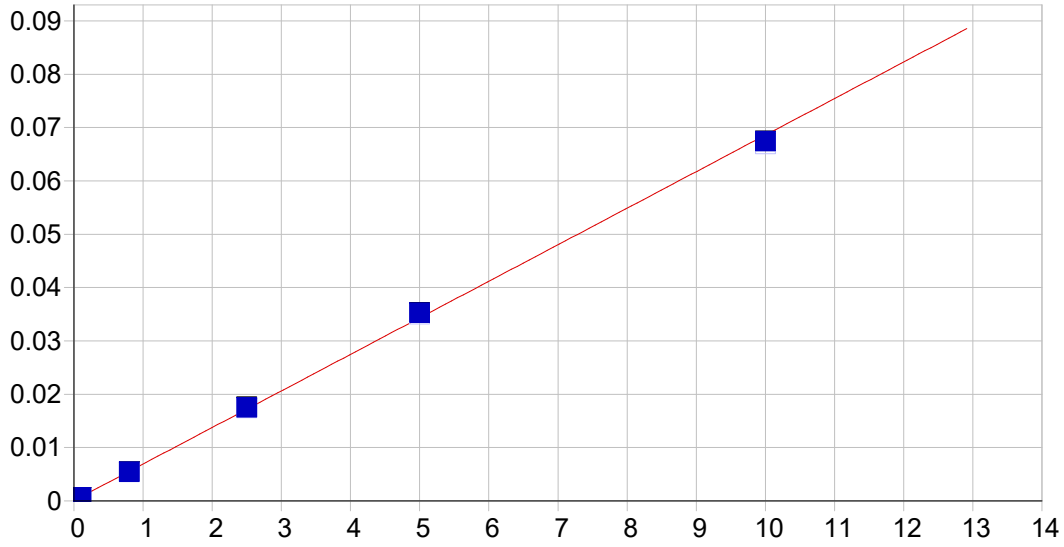
Cu 224.700 {450}

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

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

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

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



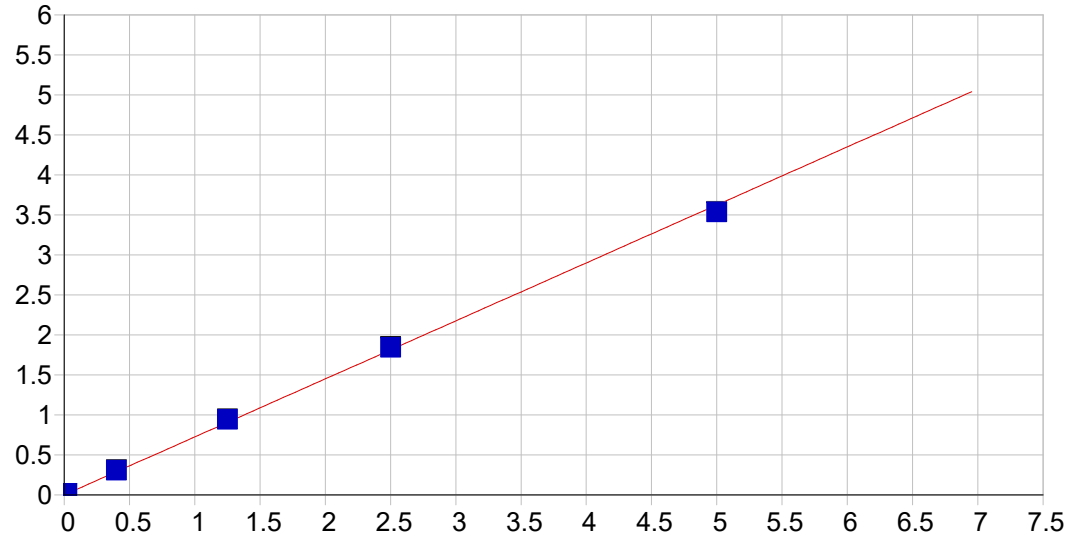
Fe 240.488 {140}

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

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

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

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



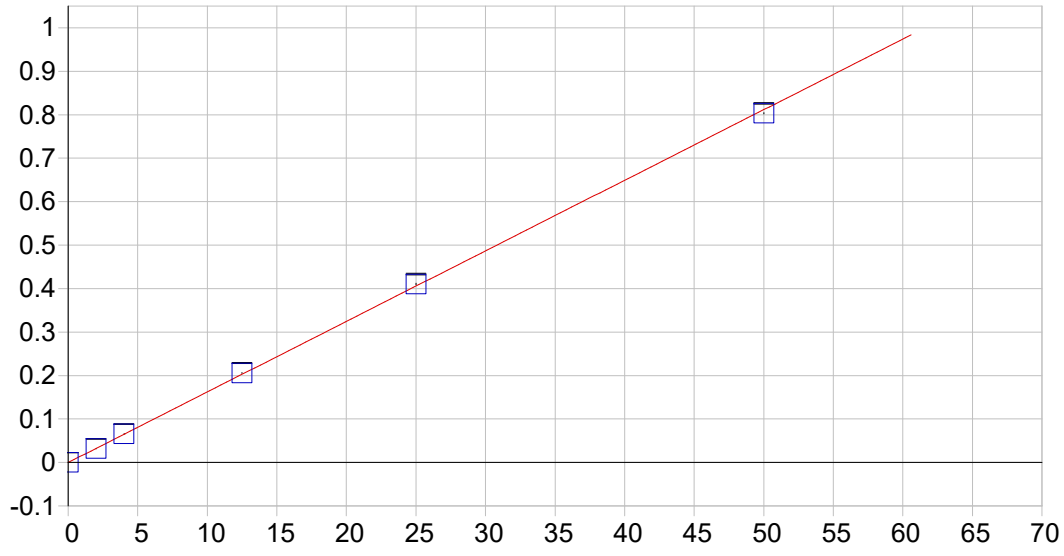
Mn 257.610 {131}

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

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

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

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



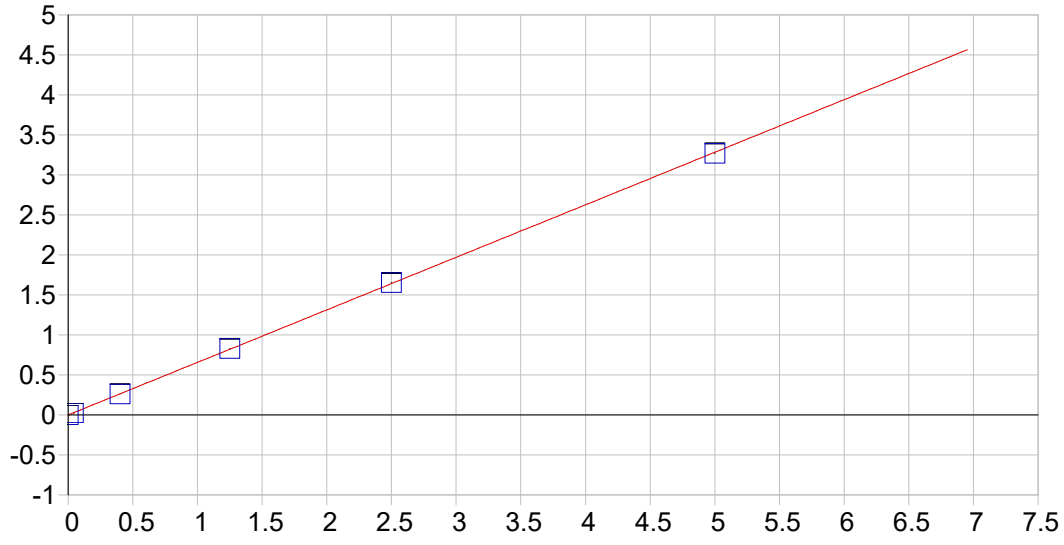
Mg 279.079 {121}

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

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

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

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



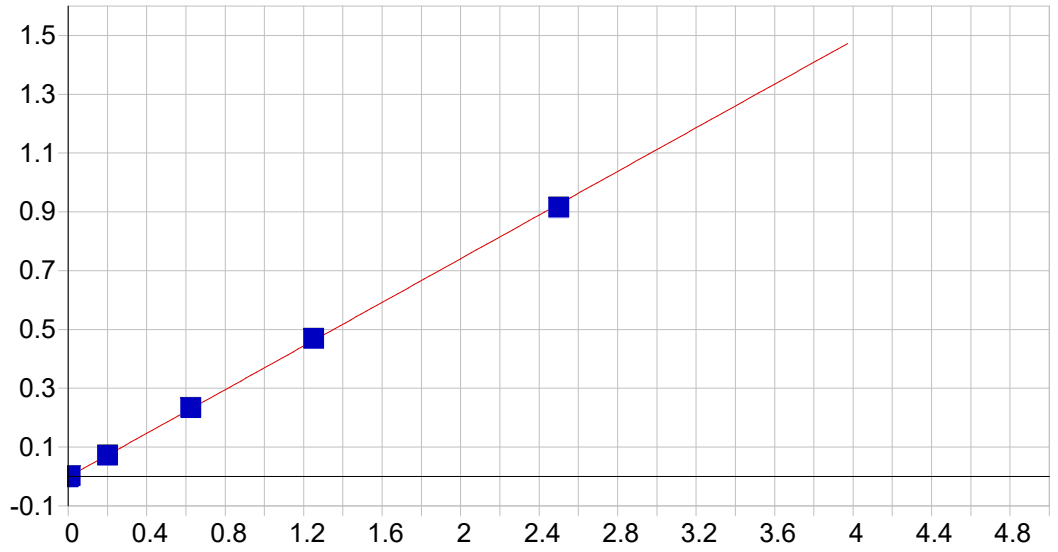
Ni 231.604 {446}

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

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

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

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



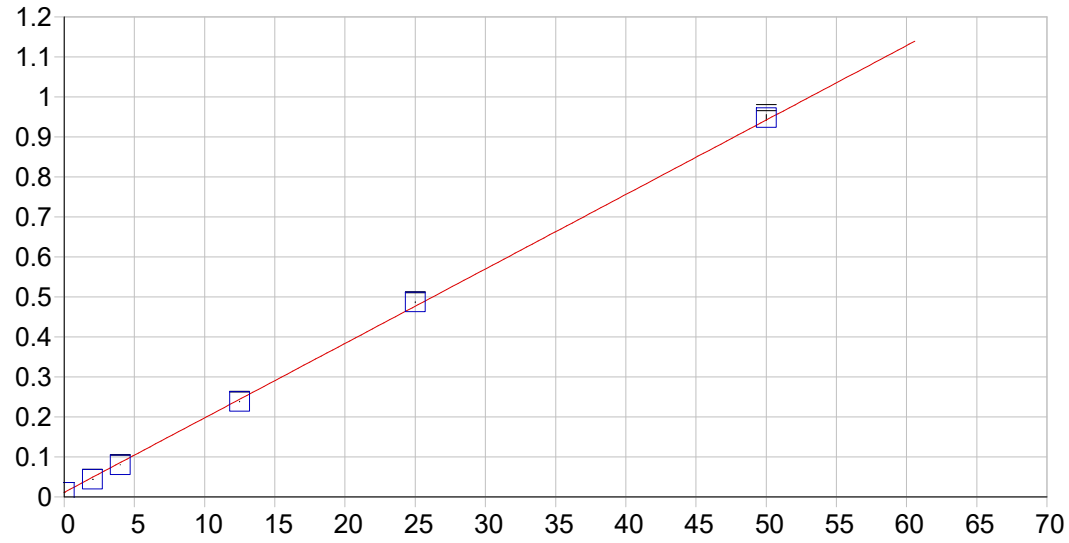
Ag 328.068 {103}

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

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

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

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



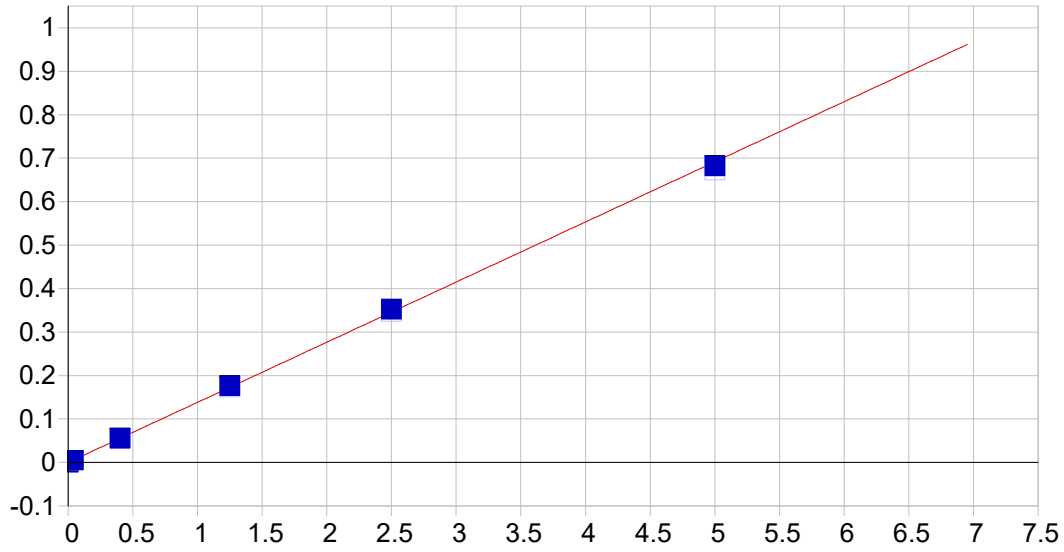
Na 589.592 { 57}

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

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

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

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



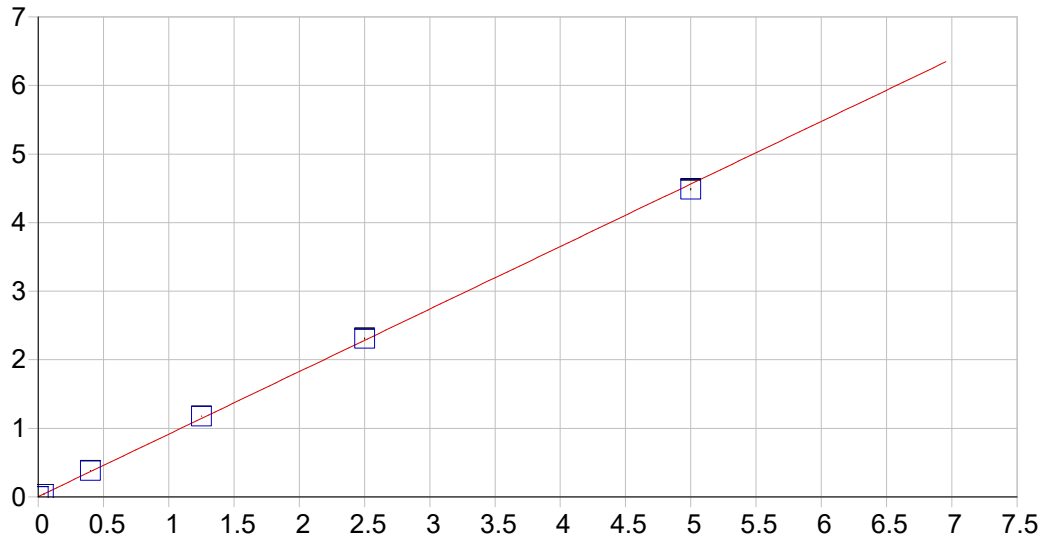
V 292.402 {115}

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

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

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

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



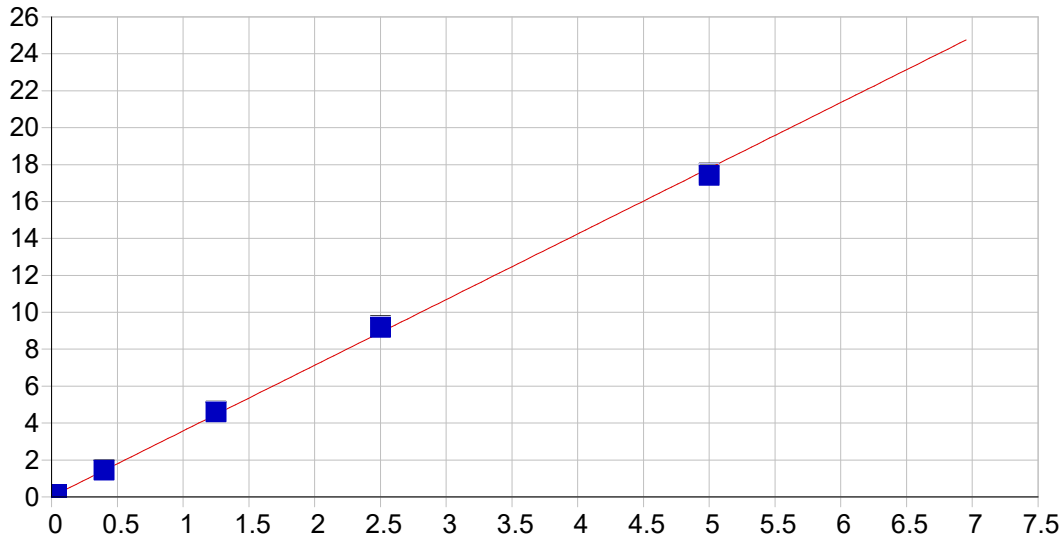
Zn 206.200 {464}

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

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

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

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



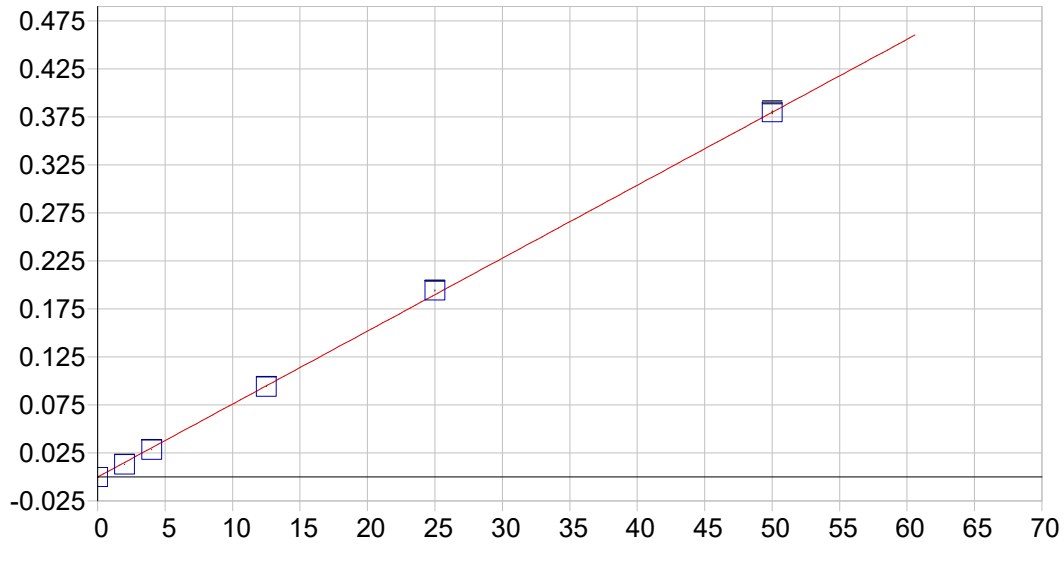
Zn 213.856 {158}

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

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

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

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



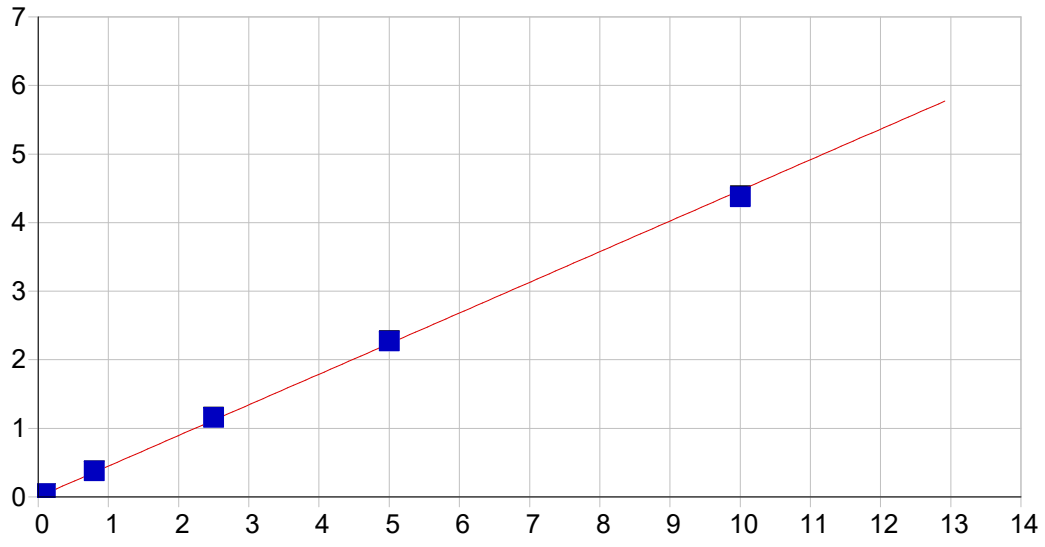
K 766.490 { 44}

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

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

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

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



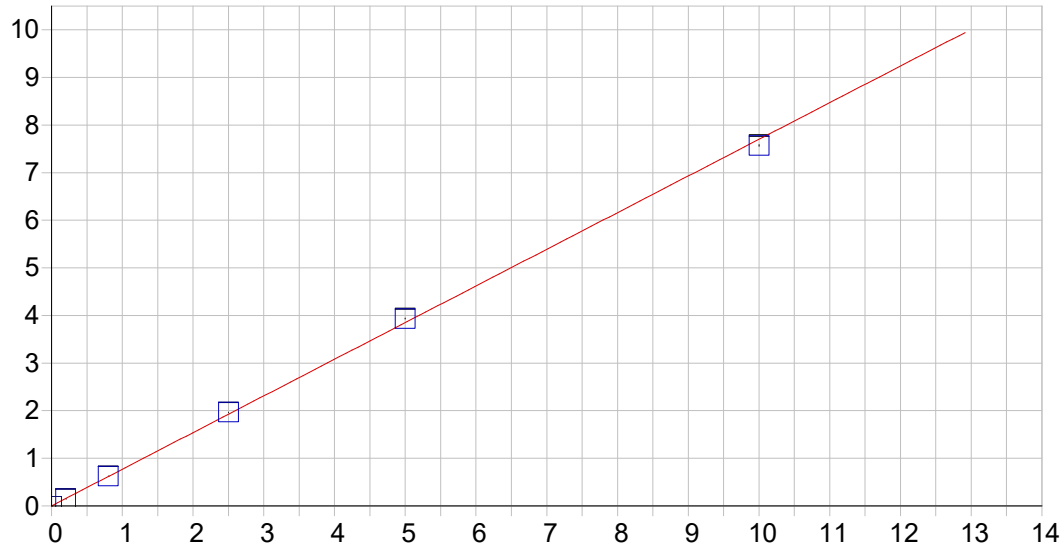
B 249.678 {135}

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

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

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

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



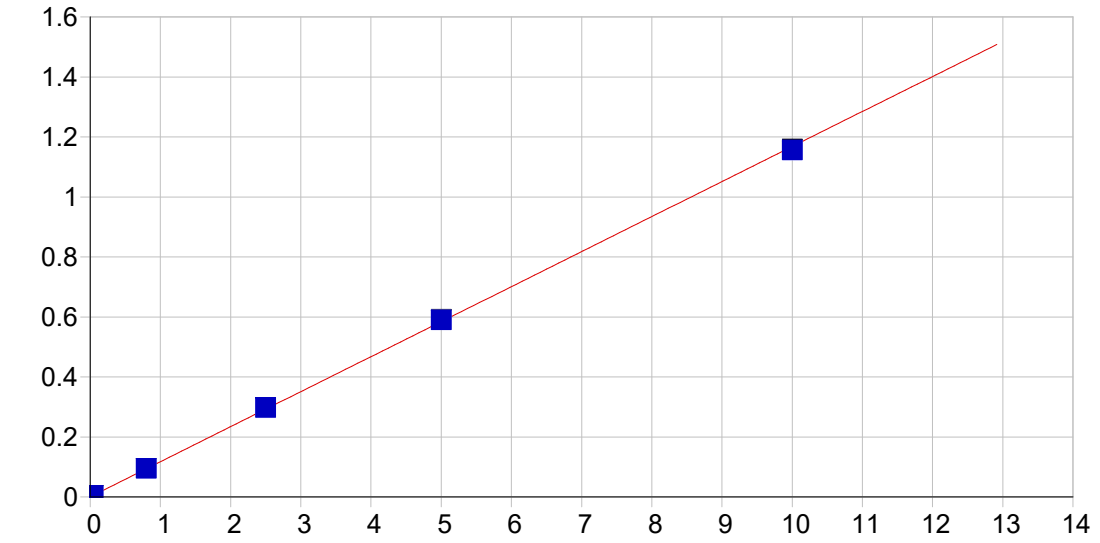
Mo 202.030 {467}

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

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

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

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



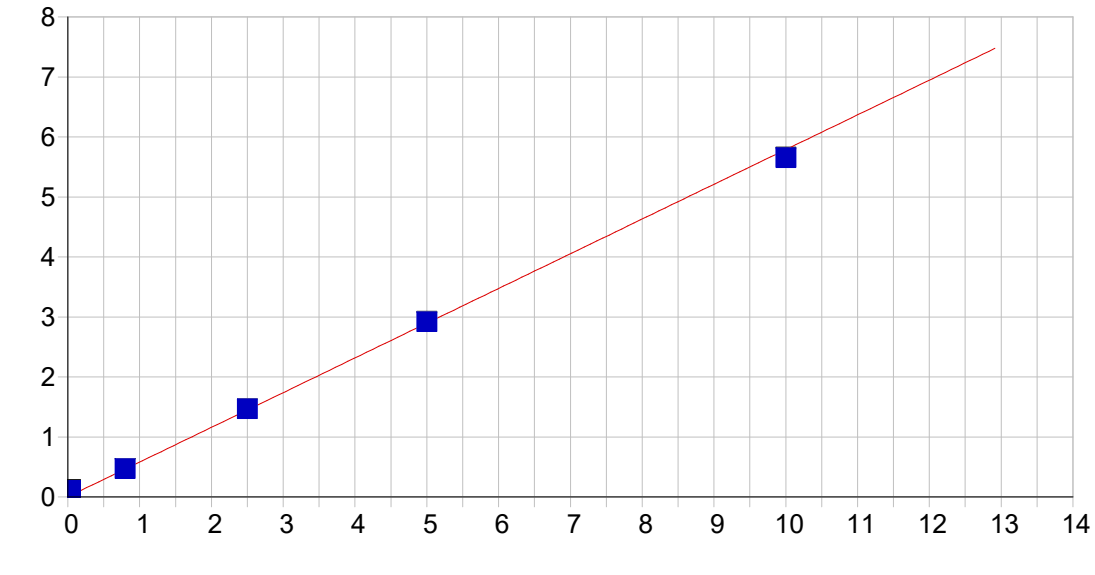
Sn 189.989 {478}

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

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

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

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



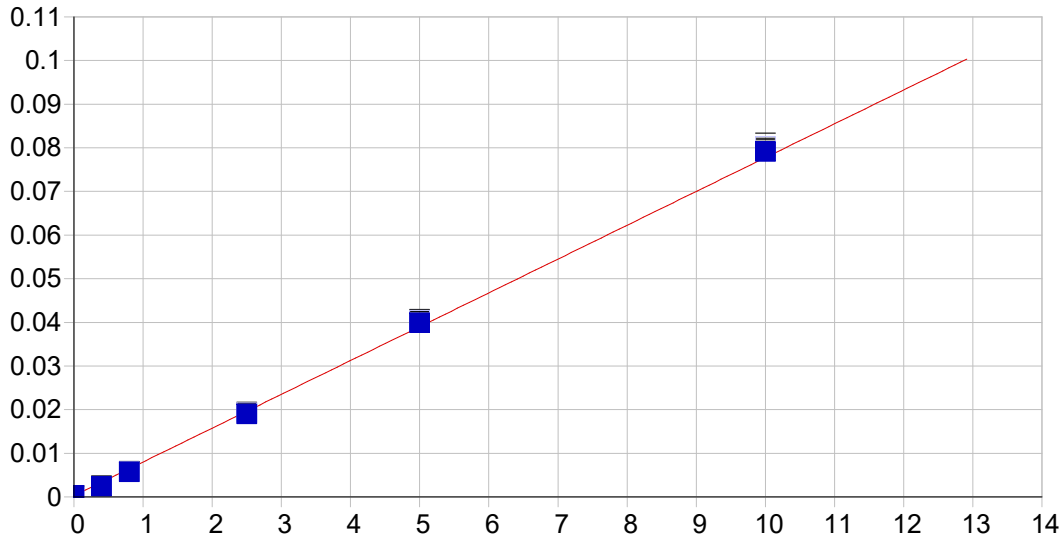
Ti 336.121 {100}

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

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

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

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



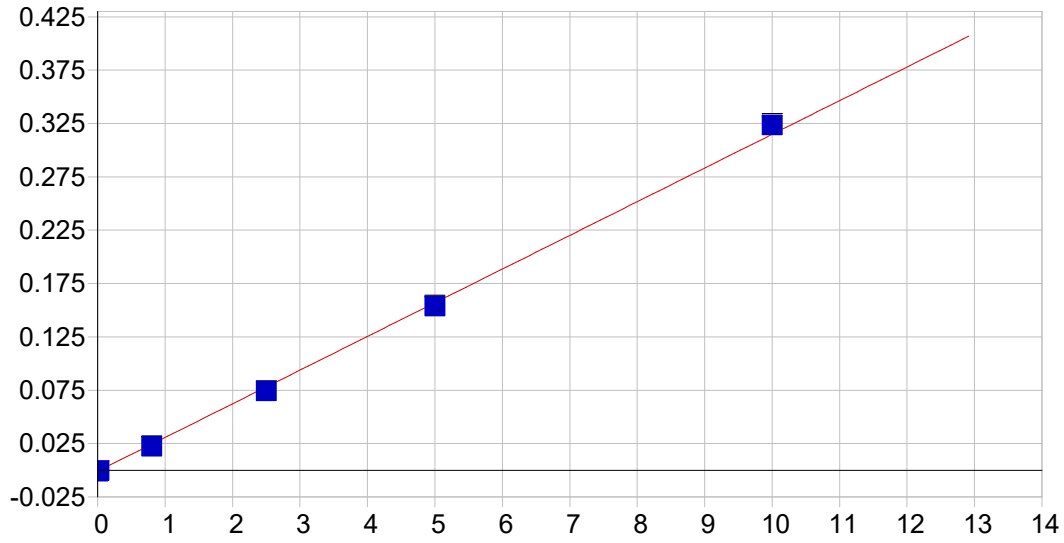
Si 288.158 {117}

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

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

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

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



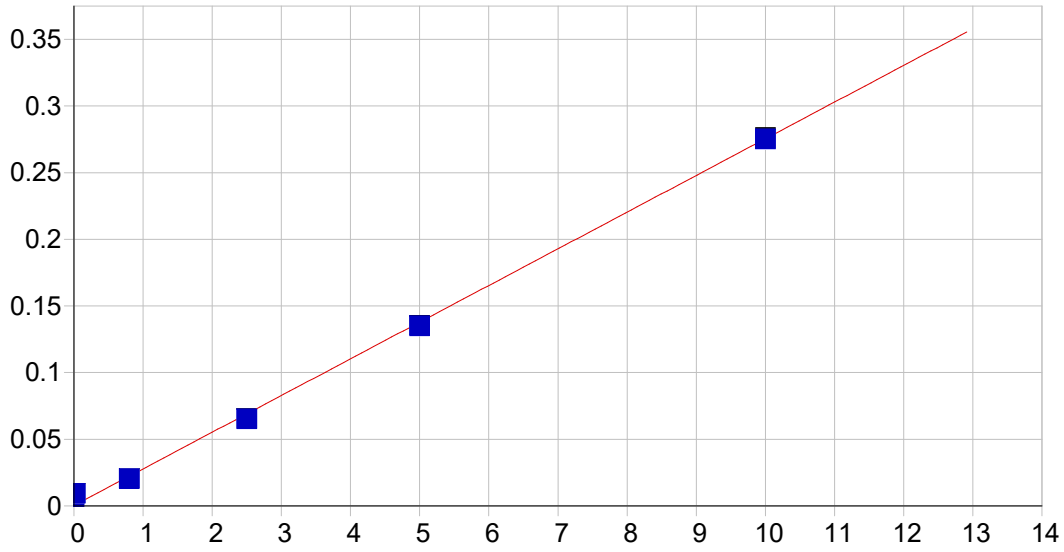
P 177.495 {490}

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

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

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

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



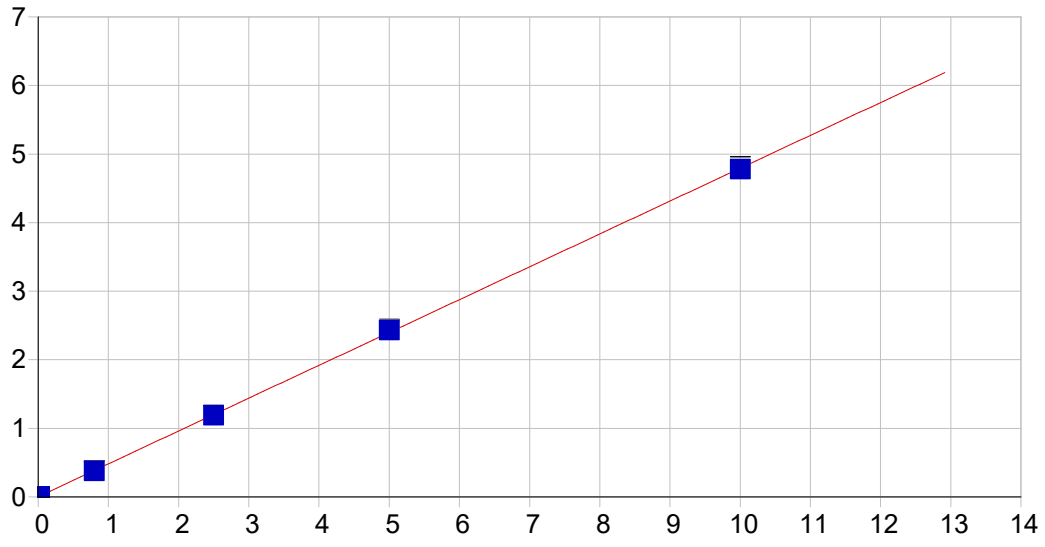
S 182.034 {485}

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

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

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

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



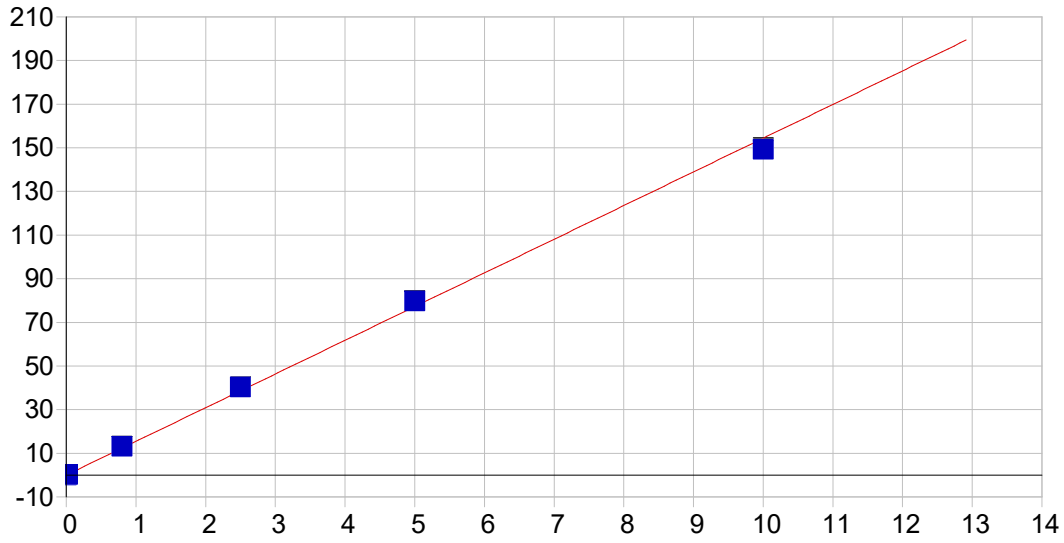
Li 670.784 { 50}

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

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

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

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



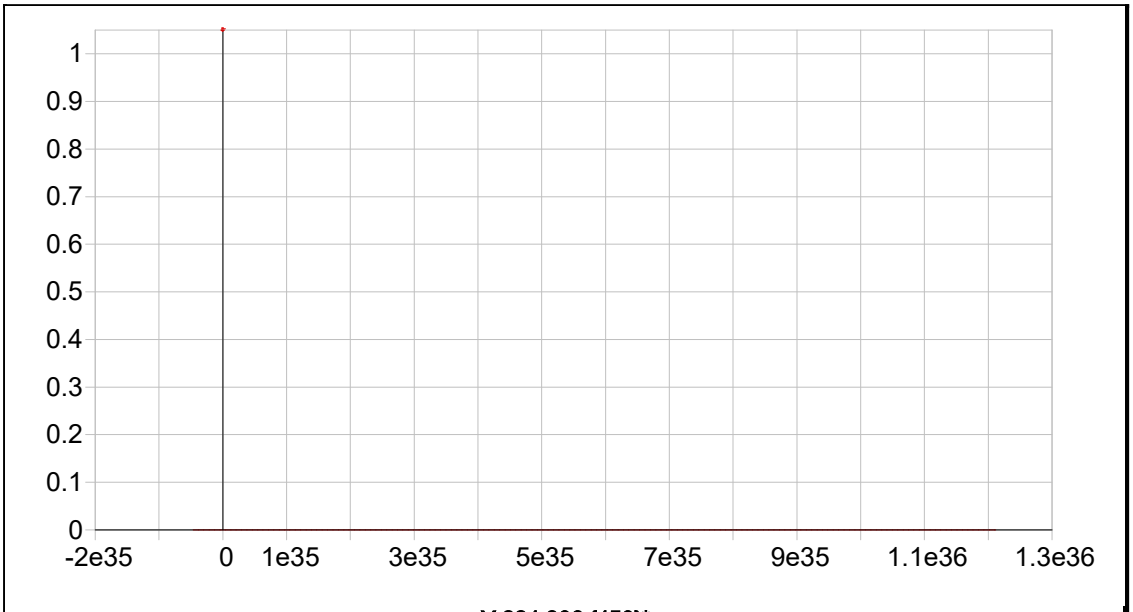
Sr 407.771 { 83}

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

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

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

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

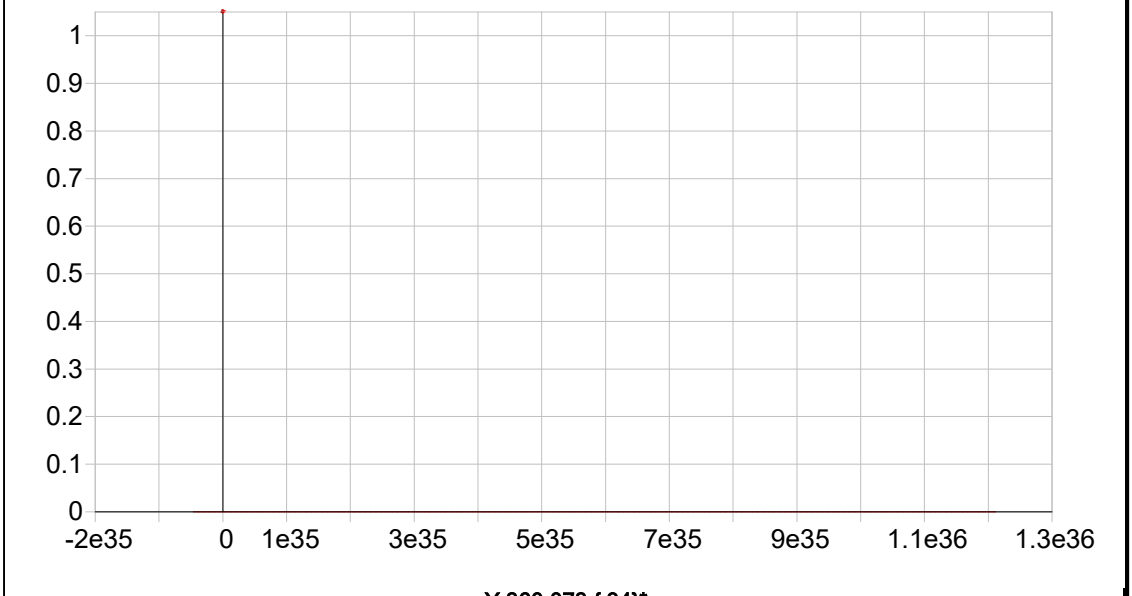


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

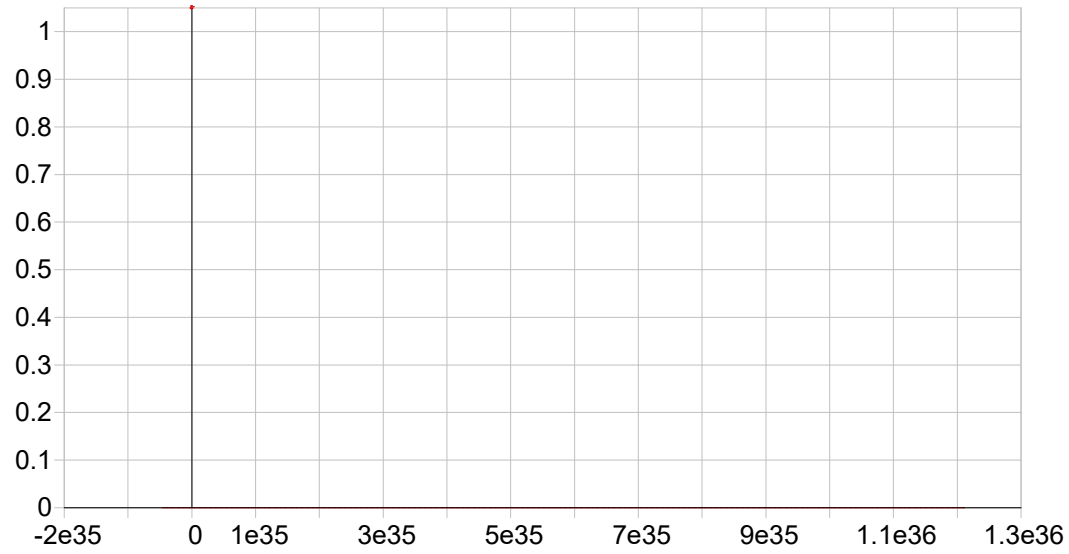
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

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

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

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



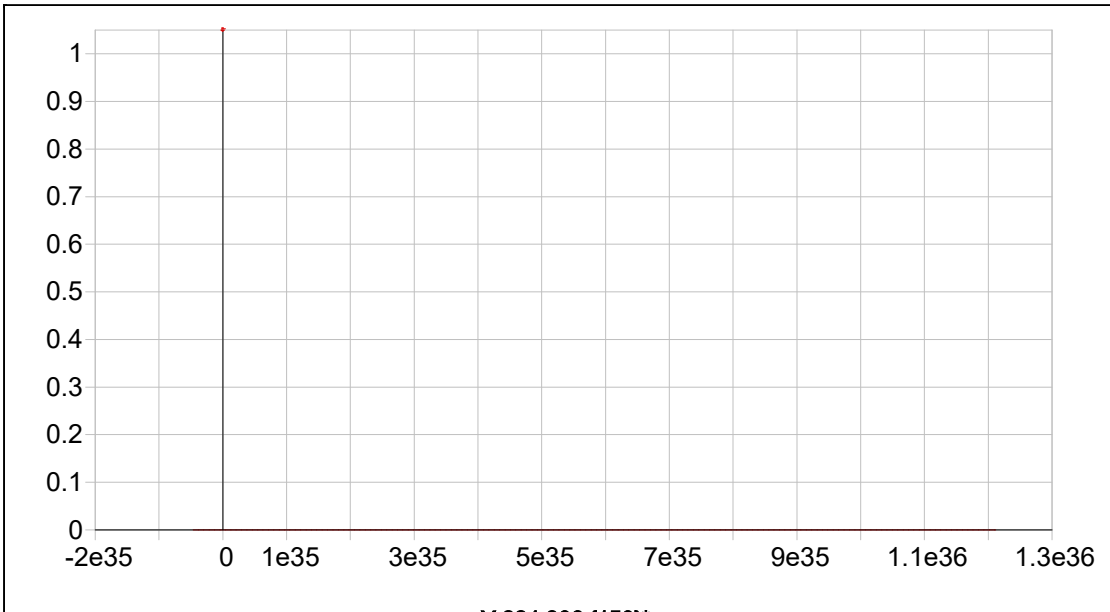
Y 371.030 { 91}*

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

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

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

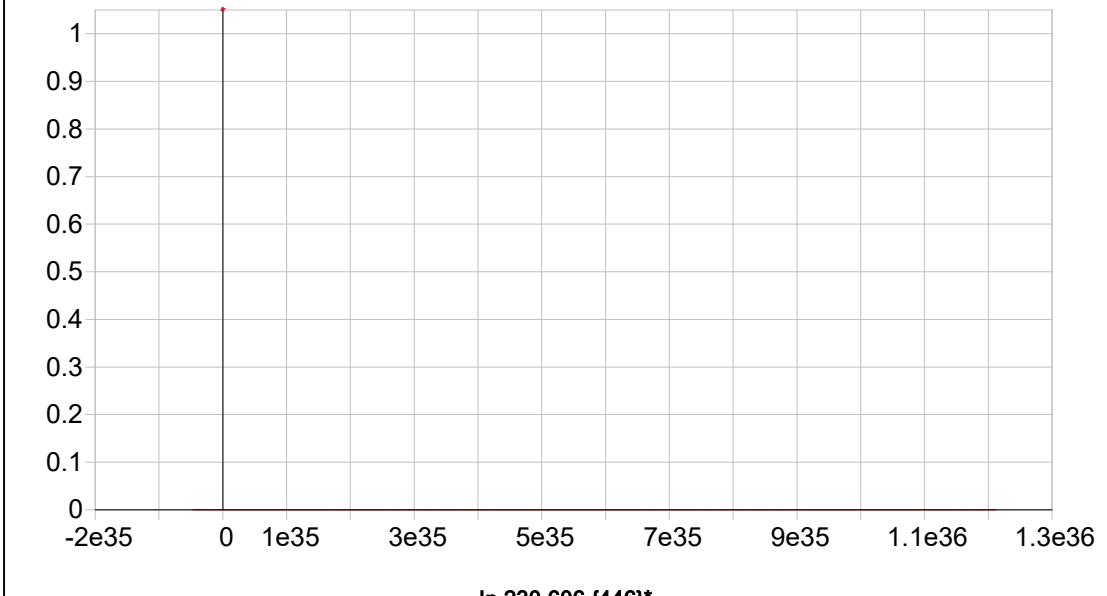
Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

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

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

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

Sample Name: S0 Acquired: 11/8/2024 13:34:14 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00022	-.00046	-.00018	.00038	.00041	-.00013	-.00638	-.00079
Stddev	.00003	.00004	.00017	.00008	.00023	.00012	.00132	.00016
%RSD	14.122	8.4669	98.865	20.670	55.511	89.525	20.731	20.527
#1	-.00019	-.00045	-.00038	.00032	.00042	.00000	-.00680	-.00070
#2	-.00020	-.00050	-.00006	.00034	.00063	-.00019	-.00745	-.00098
#3	-.00025	-.00043	-.00009	.00047	.00018	-.00021	-.00490	-.00070

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

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

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

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

Sample Name: S0 Acquired: 11/8/2024 13:34:14 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2921.6	64390.	13007.	2285.6	4812.8
Stddev	5.5	217.	49.	15.0	17.6
%RSD	.18742	.33700	.38001	.65677	.36672
#1	2915.7	64294.	12952.	2276.7	4793.8
#2	2922.7	64638.	13020.	2303.0	4828.6
#3	2926.5	64237.	13049.	2277.3	4816.0

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

Sample Name: S1 Acquired: 11/8/2024 13:38:41 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00100	.00219	.00235	.00233	.00970	.00840	.38356	.02209
Stddev	.00014	.00006	.00012	.00004	.00003	.00043	.00258	.00025
%RSD	14.046	2.5454	5.1756	1.9174	.27370	5.1467	.67156	1.1149
#1	.00095	.00226	.00248	.00238	.00971	.00810	.38118	.02181
#2	.00116	.00217	.00234	.00234	.00973	.00889	.38629	.02229
#3	.00089	.00216	.00223	.00229	.00968	.00821	.38319	.02216

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

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

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

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

Sample Name: S1 Acquired: 11/8/2024 13:38:41 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.9	63982.	13238.	2265.2	4766.8
Stddev	8.8	152.	62.	3.9	9.1
%RSD	.29832	.23767	.46513	.17304	.18988
#1	2951.0	63881.	13308.	2269.6	4777.1
#2	2936.2	63908.	13216.	2262.0	4760.3
#3	2935.5	64157.	13191.	2263.9	4762.8

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

Sample Name: S2 Acquired: 11/8/2024 13:43:04 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04716	.06110	.19489	.07726	.16182	.12788	6.2104	.16373
Stddev	.00025	.00043	.00117	.00035	.00102	.00033	.0225	.00006
%RSD	.53955	.70868	.60217	.45224	.62908	.25978	.36161	.03912
#1	.04701	.06135	.19372	.07709	.16068	.12754	6.2262	.16376
#2	.04702	.06060	.19490	.07703	.16211	.12792	6.2203	.16366
#3	.04746	.06134	.19607	.07766	.16266	.12820	6.1847	.16378

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

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

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

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

Sample Name: S2 Acquired: 11/8/2024 13:43:04 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2818.6	61603.	13238.	2154.7	4486.9
Stddev	18.1	231.	53.	8.5	25.5
%RSD	.64177	.37573	.39758	.39449	.56818
#1	2837.7	61372.	13179.	2147.2	4514.4
#2	2816.2	61835.	13253.	2163.9	4482.4
#3	2801.8	61601.	13281.	2152.9	4464.0

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

Sample Name: S3 Acquired: 11/8/2024 13:47:13 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.15171	.18526	.61751	.24806	.51945	.40229	19.008	.50682
Stddev	.00027	.00125	.00102	.00064	.00031	.00196	.034	.00302
%RSD	.18047	.67484	.16461	.25709	.06041	.48791	.18096	.59552
#1	.15180	.18669	.61795	.24764	.51974	.40006	19.010	.50614
#2	.15141	.18476	.61635	.24775	.51912	.40305	19.041	.51013
#3	.15193	.18435	.61823	.24880	.51950	.40376	18.972	.50421

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

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

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

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

Sample Name: S3 Acquired: 11/8/2024 13:47:13 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2679.0	58015.	13259.	1986.9	4215.4
Stddev	6.9	85.	48.	11.3	8.7
%RSD	.25803	.14690	.35918	.56809	.20590
#1	2686.9	58059.	13281.	1976.4	4223.3
#2	2675.7	58069.	13204.	1998.8	4216.9
#3	2674.3	57916.	13291.	1985.6	4206.1

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

Sample Name: S4 Acquired: 11/8/2024 13:51:31 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30835	.36898	1.2255	.50455	1.0568	.81208	37.794	.98779
Stddev	.00021	.00470	.0037	.00117	.0032	.00090	.179	.00300
%RSD	.06722	1.2739	.30641	.23165	.30670	.11100	.47331	.30406
#1	.30849	.36592	1.2292	.50588	1.0604	.81107	37.592	.98974
#2	.30811	.36663	1.2254	.50367	1.0559	.81280	37.860	.98433
#3	.30845	.37440	1.2217	.50411	1.0541	.81238	37.931	.98931

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

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

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

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

Sample Name: S4 Acquired: 11/8/2024 13:51:31 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2538.6	55603.	13041.	1849.4	3950.6
Stddev	9.2	37.	39.	9.8	10.6
%RSD	.36364	.06582	.29820	.53060	.26832
#1	2532.7	55563.	13049.	1851.6	3945.7
#2	2533.8	55611.	13076.	1857.8	3943.3
#3	2549.2	55634.	12999.	1838.6	3962.7

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

Sample Name: S5 Acquired: 11/8/2024 13:55:44 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.60794	.65552	2.4241	.98105	2.0732	1.5926	72.763	1.9064
Stddev	.00176	.00543	.0040	.00160	.0041	.0025	.277	.0063
%RSD	.28883	.82898	.16317	.16315	.19813	.15540	.38032	.33134
#1	.60643	.65215	2.4236	.97985	2.0699	1.5933	73.061	1.9055
#2	.60752	.66178	2.4283	.98044	2.0719	1.5946	72.515	1.9131
#3	.60986	.65261	2.4205	.98287	2.0778	1.5898	72.713	1.9005

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

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

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

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

Sample Name: S5 Acquired: 11/8/2024 13:55:44 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.8	55531.	13028.	1819.7	3757.6
Stddev	9.6	75.	43.	6.5	7.9
%RSD	.38723	.13442	.33383	.35691	.21055
#1	2480.4	55476.	12997.	1812.2	3766.4
#2	2473.7	55616.	13010.	1823.3	3755.2
#3	2461.5	55500.	13078.	1823.7	3751.2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sample Name: CCV02 Acquired: 11/8/2024 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.951378	5.013272	4.803684	5.082521	5.061170	9.832743	9.463857
Stddev	.019151	.039634	.022810	.019138	.016149	.018476	.053442
%RSD	.3867808	.7905731	.4748341	.3765409	.3190743	.1879028	.5646918
#1	4.972824	5.041669	4.829500	5.102733	5.072360	9.816980	9.476360
#2	4.935985	5.030156	4.786256	5.064678	5.042657	9.828175	9.405272
#3	4.945325	4.967993	4.795297	5.080153	5.068494	9.853075	9.509938

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2309063	2.362151	23.30884	.9184684	2.388756	1.257691	4.783235
Stddev	.0022454	.010316	.09903	.0044919	.009494	.004073	.011555
%RSD	.9724057	.4367132	.4248592	.4890629	.3974554	.3238518	.2415719
#1	.2332129	2.374049	23.39102	.9224875	2.399660	1.262081	4.769981
#2	.2287277	2.355706	23.19889	.9136194	2.382319	1.254035	4.788534
#3	.2307783	2.356698	23.33660	.9192983	2.384290	1.256956	4.791191

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.284395	23.38891	2.390306	1.227377	24.51941	2.391063	2.521324
Stddev	.009771	.13563	.011112	.002656	.05756	.007805	.010691
%RSD	.4277108	.5798707	.4648863	.2163758	.2347542	.3264043	.4240092
#1	2.290725	23.50848	2.403137	1.230419	24.48652	2.397122	2.532360
#2	2.273142	23.24153	2.384001	1.225519	24.58587	2.382256	2.520597
#3	2.289317	23.41671	2.383781	1.226192	24.48584	2.393811	2.511016

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.13619	4.635080	4.989933	4.738543	4.699186	4.926961	4.871345
Stddev	.07349	.035747	.011816	.020461	.009771	.047635	.014331
%RSD	.2923858	.7712302	.2367981	.4317889	.2079240	.9668144	.2941884
#1	25.05166	4.672381	5.003386	4.761011	4.706596	4.873479	4.865680
#2	25.17199	4.601121	4.981237	4.733633	4.688113	4.964827	4.860713
#3	25.18493	4.631739	4.985175	4.720984	4.702849	4.942578	4.887643

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

Sample Name: CCV02 Acquired: 11/8/2024 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.695797	4.639142	4.835593
Stddev	.030166	.006272	.018118
%RSD	.6424097	.1352016	.3746889
#1	4.728404	4.638134	4.856403
#2	4.690106	4.633435	4.827055
#3	4.668882	4.645858	4.823322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2414.964	54627.21	13430.54	1708.758	3864.469
Stddev	6.745	52.61	75.43	6.684	10.667
%RSD	.2793044	.0963152	.5615954	.3911851	.2760390
#1	2411.375	54593.33	13350.01	1707.425	3855.208
#2	2422.745	54600.48	13499.53	1702.840	3876.133
#3	2410.772	54687.82	13442.08	1716.008	3862.066

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

Sample Name: CCB02 Acquired: 11/8/2024 15:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000769	.0004390	-.000755	.0007197	-.000321	.0090078	-.004672
Stddev	.001346	.0009271	.000201	.0007097	.000133	.0018121	.000337
%RSD	175.0276	211.2119	26.56015	98.61471	41.58285	20.11699	7.209662
#1	-.001272	.0014794	-.000554	-.000086	-.000195	.0069701	-.005044
#2	-.001791	.0001369	-.000955	.000992	-.000460	.0104385	-.004586
#3	.000756	-.000299	-.000757	.001253	-.000307	.0096147	-.004387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000026	-.000010	-.003956	.0000501	.0000151	-.000145	.0012371
Stddev	.0000681	.000039	.001917	.0003225	.0001787	.000140	.0008327
%RSD	2603.226	389.8077	48.46177	644.1499	1186.995	96.86841	67.31132
#1	.0000353	.000032	-.003491	-.000298	-.000157	-.000022	.0004936
#2	.0000483	-.000045	-.002314	.000340	.000002	-.000114	.0021368
#3	-.000076	-.000016	-.006062	.000108	.000200	-.000298	.0010808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000148	.0032960	.0000718	.0006178	-.082820	-.000273	.0002430
Stddev	.000082	.0065118	.0002314	.0001966	.011532	.000482	.0001377
%RSD	55.29369	197.5688	322.3565	31.81942	13.92457	176.5076	56.66809
#1	-.000146	.0051803	.0003161	.0003925	-.091582	.000177	.0000843
#2	-.000067	-.003950	-.000144	.0007072	-.087125	-.000781	.0003141
#3	-.000230	.008658	.000043	.0007539	-.069755	-.000215	.0003306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013476	.0037598	.0001357	-.000296	.0002930	-.002339	-.001550
Stddev	.010878	.0002583	.0002111	.000507	.0004160	.002709	.001231
%RSD	80.71595	6.870399	155.5682	170.8858	141.9568	115.8171	79.44142
#1	-.023100	.0040511	-.000077	.000257	.0006997	.000596	-.001839
#2	-.015655	.0036694	.000345	-.000736	.0003110	-.004745	-.000200
#3	-.001674	.0035588	.000138	-.000410	-.000132	-.002869	-.002610

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

Sample Name: CCB02 Acquired: 11/8/2024 15:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000460	-.001413	.0000786
Stddev	.001799	.001041	.0000032
%RSD	390.9034	73.67870	4.059811
#1	-.001025	-.000729	.0000801
#2	-.001910	-.000899	.0000749
#3	.001554	-.002612	.0000807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.302	58311.26	13676.06	1833.894	4484.493
Stddev	4.922	72.92	30.10	7.447	4.509
%RSD	.1889896	.1250487	.2201088	.4060815	.1005569
#1	2604.287	58271.09	13659.99	1825.785	4488.140
#2	2609.231	58395.43	13657.40	1835.472	4485.889
#3	2599.387	58267.26	13710.79	1840.426	4479.451

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

Sample Name: P4718-03 Acquired: 11/8/2024 15:39:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007759	-.009968	.0007876	.0033828	-.000538	.0124226	.2808712
Stddev	.000281	.003704	.0007150	.0016343	.000891	.0060424	.0014595
%RSD	3.627285	37.16029	90.78780	48.31132	165.6271	48.64039	.5196287
#1	-.008060	-.013853	.0012507	.0021236	.000070	.0105390	.2795557
#2	-.007502	-.009574	-.000036	.0052296	-.000123	.0191824	.2806166
#3	-.007715	-.006477	.001148	.0027952	-.001561	.0075464	.2824412

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000071	.0003617	64.03450	.0012251	.0018337	.0062228	2.967572
Stddev	.000045	.0000773	.17634	.0004609	.0000745	.0004763	.011586
%RSD	63.58647	21.37312	.2753884	37.61952	4.062351	7.653582	.3904058
#1	-.000123	.0002766	63.84629	.0014240	.0018695	.0058383	2.957939
#2	-.000046	.0004277	64.19591	.0006982	.0017480	.0060744	2.980428
#3	-.000044	.0003807	64.06129	.0015531	.0018835	.0067555	2.964348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.170345	10.81725	.0023221	.0004159	403.7092	-.000282	.0400427
Stddev	.012248	.06362	.0003016	.0000051	1.0257	.000656	.0004766
%RSD	.5643384	.5881065	12.98753	1.222165	.2540603	232.9533	1.190314
#1	2.157132	10.74633	.0026522	.0004204	402.6054	-.000510	.0404478
#2	2.172585	10.86928	.0022532	.0004104	403.8894	-.000793	.0401629
#3	2.181319	10.83615	.0020609	.0004169	404.6329	.000458	.0395175

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.758408	.0279065	.0003505	-.003692	-.000276	.4603098	-.000456
Stddev	.007335	.0004613	.0001113	.000430	.000301	.0016171	.003027
%RSD	.1951668	1.652895	31.76004	11.64836	109.2143	.3513011	664.4353
#1	3.765506	.0283731	.0002269	-.004154	-.000432	.4609235	-.003317
#2	3.750857	.0278955	.0003817	-.003621	-.000466	.4615302	.002714
#3	3.758860	.0274508	.0004430	-.003302	.000071	.4584757	-.000763

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

Sample Name: P4718-03 Acquired: 11/8/2024 15:39:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4355264	.0111451	.1364014
Stddev	.0022213	.0012844	.0007139
%RSD	.5100270	11.52428	.5234127
#1	.4335148	.0125804	.1356256
#2	.4351540	.0101040	.1365478
#3	.4379103	.0107509	.1370308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2271.638	52495.50	13436.92	1635.156	3558.819
Stddev	23.554	49.91	26.85	7.112	34.025
%RSD	1.036882	.0950712	.1998246	.4349361	.9560874
#1	2278.231	52482.78	13467.70	1636.550	3570.881
#2	2291.193	52453.18	13424.76	1641.467	3585.170
#3	2245.489	52550.54	13418.30	1627.450	3520.405

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

Sample Name: P4718-03DUP Acquired: 11/8/2024 15:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006456	-.009952	.0005043	.0051473	-.000413	.0108885	.2741272
Stddev	.000442	.001058	.0011220	.0013786	.000915	.0065073	.0030135
%RSD	6.839806	10.63264	222.4659	26.78412	221.4338	59.76273	1.099322
#1	-.006270	-.010406	.0003273	.0062817	-.000271	.0044275	.2729094
#2	-.006960	-.010707	-.000519	.0055472	.000423	.0107969	.2719131
#3	-.006138	-.008743	.001704	.0036128	-.001391	.0174411	.2775590

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000098	.0003570	62.68699	.0012028	.0016259	.0059979	2.978253
Stddev	.000043	.0000212	.57870	.0002907	.0001551	.0002035	.006102
%RSD	43.46793	5.946475	.9231587	24.17121	9.538331	3.392735	.2048995
#1	-.000054	.0003503	62.66662	.0012207	.0015110	.0057671	2.984618
#2	-.000139	.0003808	62.11875	.0014842	.0018023	.0061515	2.977691
#3	-.000101	.0003399	63.27561	.0009035	.0015644	.0060751	2.972452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.126076	10.61963	.0026251	.0005364	405.6032	.0008956	.0402921
Stddev	.020549	.08629	.0002196	.0003037	2.9870	.0007319	.0002506
%RSD	.9665049	.8125402	8.365416	56.62978	.7364317	81.72308	.6219326
#1	2.128468	10.61672	.0027180	.0004254	408.9126	.0003617	.0405295
#2	2.104437	10.53484	.0023743	.0003037	403.1070	.0005952	.0400302
#3	2.145325	10.70735	.0027829	.0008800	404.7900	.0017300	.0403167

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.862095	.0269340	.0008193	-.004147	.0003464	.4676250	.0016718
Stddev	.020491	.0004783	.0000878	.000703	.0005904	.0022925	.0032576
%RSD	.5305784	1.775846	10.72278	16.96279	170.4733	.4902453	194.8486
#1	3.857837	.0264018	.0008255	-.003397	-.000242	.4691294	.0054318
#2	3.844067	.0270723	.0007285	-.004792	.000343	.4687590	-.000303
#3	3.884381	.0273279	.0009039	-.004252	.000939	.4649865	-.000114

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

Sample Name: P4718-03DUP Acquired: 11/8/2024 15:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4413680	.0120877	.1338466
Stddev	.0021468	.0005650	.0015136
%RSD	.4863896	4.673970	1.130844
#1	.4438285	.0124896	.1332605
#2	.4403982	.0114417	.1327137
#3	.4398772	.0123317	.1355656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.581	51418.81	13634.49	1577.176	3486.270
Stddev	7.082	258.85	85.81	16.690	4.907
%RSD	.3197851	.5034237	.6293568	1.058203	.1407551
#1	2221.970	51121.36	13610.14	1559.662	3490.557
#2	2213.920	51542.09	13729.85	1578.969	3487.334
#3	2207.853	51592.98	13563.50	1592.896	3480.918

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

Sample Name: P4718-03LX5 Acquired: 11/8/2024 15:48:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003659	-.001540	-.000079	.0031170	-.000971	.0078208	.0523918
Stddev	.002112	.001109	.000809	.0007517	.000791	.0018711	.0002861
%RSD	57.71934	72.06076	1029.265	24.11695	81.41601	23.92499	.5460545
#1	-.003384	-.001115	-.000795	.0022561	-.000719	.0089299	.0522717
#2	-.001698	-.002799	-.000240	.0034511	-.000338	.0056605	.0527183
#3	-.005896	-.000705	.000799	.0036437	-.001857	.0088720	.0521853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000219	.0000214	13.06972	.0001917	.0003220	.0010707	.5729582
Stddev	.0000219	.0000373	.09727	.0001977	.0001277	.0000612	.0052227
%RSD	99.89959	174.5005	.7442575	103.1773	39.65250	5.719658	.9115282
#1	.0000454	-.000017	12.96186	.0002427	.0004298	.0010628	.5682142
#2	.0000020	.000023	13.15078	-.000027	.0003552	.0011355	.5721059
#3	.0000183	.000058	13.09653	.000359	.0001810	.0010138	.5785546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4481148	2.218014	.0005954	.0006563	72.82307	.0005079	.0078109
Stddev	.0018805	.024300	.0001779	.0001600	.66004	.0005191	.0002540
%RSD	.4196356	1.095567	29.87681	24.38651	.9063676	102.2135	3.251166
#1	.4461552	2.191519	.0007242	.0004797	73.56025	.0006199	.0076734
#2	.4499046	2.239261	.0003924	.0006975	72.62205	-.000058	.0076553
#3	.4482846	2.223263	.0006696	.0007917	72.28690	.000962	.0081040

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7212534	.0049663	.0000483	-.002044	.0001837	.0825760	-.003125
Stddev	.0132256	.0004294	.0000574	.000597	.0002143	.0050315	.002480
%RSD	1.833696	8.645295	118.8880	29.21654	116.6422	6.093200	79.35944
#1	.7300595	.0051786	.0001126	-.002160	.0001482	.0796734	-.000610
#2	.7276558	.0052482	.0000022	-.001397	-.000011	.0883859	-.005569
#3	.7060450	.0044722	.0000301	-.002574	.000414	.0796688	-.003197

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

Sample Name: P4718-03LX5 Acquired: 11/8/2024 15:48:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0844386	.0018082	.0274184
Stddev	.0048864	.0003441	.0001387
%RSD	5.786899	19.03332	.5058451
#1	.0806654	.0014653	.0275680
#2	.0899582	.0018055	.0273930
#3	.0826922	.0021536	.0272941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2484.511	56159.34	13821.69	1735.753	4056.114
Stddev	2.536	136.06	37.62	8.234	3.030
%RSD	.1020798	.2422709	.2721938	.4743625	.0747029
#1	2487.207	56044.57	13858.94	1733.774	4059.075
#2	2484.154	56123.83	13783.71	1728.689	4053.019
#3	2482.173	56309.64	13822.42	1744.796	4056.249

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

Sample Name: P4718-03MS Acquired: 11/8/2024 15:52:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1413668	.3354971	.1606272	.3691145	.0635238	.0427315	.2779412
Stddev	.1205551	.2550674	.1306214	.2872471	.0583586	.0179090	.0039674
%RSD	85.27824	76.02672	81.31959	77.82058	91.86897	41.91041	1.427419
#1	.0327116	.1035331	.0423993	.1100143	.0126831	.0629212	.2816830
#2	.1203348	.2943043	.1386327	.3193293	.0506408	.0365116	.2783593
#3	.2710540	.6086539	.3008495	.6780000	.1272475	.0287618	.2737813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016872	.0333572	62.81910	.0043372	.0353145	.0569336	2.972936
Stddev	.0004616	.0275662	.44761	.0006374	.0279598	.0423908	.030479
%RSD	27.35707	82.63938	.7125431	14.69710	79.17371	74.45646	1.025211
#1	.0013668	.0083813	63.18538	.0039094	.0099653	.0185409	3.006722
#2	.0014787	.0287558	62.95177	.0040323	.0306740	.0498340	2.947507
#3	.0022163	.0629345	62.32015	.0050698	.0653042	.1024259	2.964580

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.123727	10.67463	.0852350	.0019443	397.0798	.0050230	.0411016
Stddev	.020956	.10315	.0694358	.0003403	.2860	.0022279	.0008481
%RSD	.9867501	.9663544	81.46398	17.50486	.0720237	44.35372	2.063360
#1	2.138954	10.77146	.0223485	.0015531	397.1360	.0074762	.0413990
#2	2.132399	10.68630	.0736051	.0021072	396.7699	.0044668	.0401448
#3	2.099827	10.56614	.1597514	.0021725	397.3336	.0031259	.0417609

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.968327	.0299348	.0310821	.0415382	.0023004	.4644606	1.074099
Stddev	.083684	.0001440	.0289888	.0451128	.0015145	.0058415	.885398
%RSD	2.108810	.4808682	93.26546	108.6057	65.83497	1.257690	82.43174
#1	4.064310	.0297697	.0062001	.0037038	.0037914	.4699460	.275990
#2	3.930009	.0300003	.0241319	.0294459	.0023463	.4651172	.919801
#3	3.910662	.0300342	.0629142	.0914648	.0007635	.4583185	2.026504

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

Sample Name: P4718-03MS Acquired: 11/8/2024 15:52:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4332820	.0159113	.1369663
Stddev	.0048525	.0020596	.0029975
%RSD	1.119951	12.94430	2.188513
#1	.4297946	.0170436	.1398923
#2	.4312277	.0135340	.1371044
#3	.4388239	.0171564	.1339021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2283.205	52503.54	13593.82	1623.216	3567.589
Stddev	6.479	303.30	100.57	10.995	7.880
%RSD	.2837732	.5776682	.7398496	.6773465	.2208877
#1	2280.786	52196.93	13504.69	1616.994	3569.690
#2	2278.283	52803.41	13573.92	1635.911	3558.871
#3	2290.545	52510.28	13702.86	1616.743	3574.206

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

Sample Name: P4718-03MSD Acquired: 11/8/2024 15:57:24 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3961133	.8501989	.4382423	.9651935	.2460705	.0886024	.2909568
Stddev	.1927068	.3865036	.2095850	.4536587	.1238150	.0159074	.0013394
%RSD	48.64940	45.46037	47.82402	47.00184	50.31689	17.95369	.4603450
#1	.2039940	.4635515	.2302686	.5158191	.1259394	.1063370	.2924787
#2	.3949438	.8504868	.4350559	.9567429	.2390052	.0755927	.2904346
#3	.5894021	1.236558	.6494024	1.423018	.3732668	.0838776	.2899572

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154339	.0918304	64.47508	.0322885	.0948446	.1473089	3.122275
Stddev	.0057114	.0440027	.16065	.0115947	.0451948	.0678798	.029851
%RSD	37.00582	47.91738	.2491720	35.90964	47.65145	46.07989	.9560667
#1	.0100918	.0478900	64.42846	.0213014	.0498589	.0796527	3.156546
#2	.0147556	.0917060	64.34289	.0311563	.0944293	.1468639	3.101943
#3	.0214541	.1358951	64.65389	.0444077	.1402456	.2154101	3.108336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.185377	10.99855	.2338709	.0085010	409.4711	.0136442	.0575398
Stddev	.010256	.02504	.1115717	.0026266	2.1530	.0014349	.0059967
%RSD	.4693138	.2277011	47.70656	30.89736	.5257911	10.51647	10.42186
#1	2.183910	10.98796	.1224922	.0058760	408.2216	.0152906	.0518322
#2	2.175933	10.98053	.2334857	.0084979	411.9571	.0126605	.0569985
#3	2.196287	11.02714	.3456347	.0111292	408.2346	.0129814	.0637889

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.345317	.0496633	.1222690	.1862308	.0063039	.4897676	2.985653
Stddev	.044828	.0075459	.0617569	.0976679	.0015041	.0088650	1.433716
%RSD	1.031628	15.19417	50.50909	52.44456	23.85995	1.810047	48.02020
#1	4.383352	.0424811	.0623282	.0921800	.0079621	.4999585	1.554812
#2	4.295894	.0489821	.1187841	.1793596	.0059223	.4855077	2.979920
#3	4.356706	.0575268	.1856945	.2871529	.0050273	.4838366	4.422227

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

Sample Name: P4718-03MSD Acquired: 11/8/2024 15:57:24 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4357237	.0195619	.1450026
Stddev	.0030451	.0003144	.0012426
%RSD	.6988696	1.607108	.8569329
#1	.4365486	.0198689	.1464315
#2	.4323511	.0195763	.1441748
#3	.4382714	.0192406	.1444016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.050	51856.07	13374.04	1617.869	3512.189
Stddev	2.200	174.48	20.06	3.987	12.599
%RSD	.0976822	.3364644	.1500140	.2464600	.3587241
#1	2253.997	51837.26	13385.54	1614.159	3525.510
#2	2249.664	51691.76	13350.88	1617.362	3500.464
#3	2252.489	52039.19	13385.71	1622.086	3510.592

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

Sample Name: P4718-03A Acquired: 11/8/2024 16:01:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536679	.1866828	.0650718	.1708692	.0416122	.0534480	.2837427
Stddev	.0581136	.1698234	.0652261	.1580360	.0366023	.0259555	.0016097
%RSD	108.2837	90.96898	100.2373	92.48944	87.96047	48.56203	.5673198
#1	.0088211	.0472720	.0144131	.0463360	.0125676	.0740266	.2855064
#2	.0328621	.1369585	.0421339	.1176197	.0295443	.0620288	.2823527
#3	.1193206	.3758180	.1386683	.3486519	.0827246	.0242888	.2833691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011842	.0128599	64.12062	.0039125	.0144481	.0251120	3.054415
Stddev	.0001054	.0127891	.35539	.0003210	.0130673	.0198001	.046498
%RSD	8.900087	99.44924	.5542460	8.204980	90.44292	78.84723	1.522332
#1	.0013057	.0031949	63.81992	.0042829	.0046228	.0100375	3.107464
#2	.0011167	.0080228	64.02915	.0037382	.0094436	.0177625	3.035059
#3	.0011303	.0273620	64.51281	.0037163	.0292780	.0475359	3.020721

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173048	10.90702	.0339790	.0013503	407.9730	.0057642	.0411392
Stddev	.010004	.05073	.0320283	.0001103	.2787	.0045266	.0004776
%RSD	.4603653	.4650819	94.25896	8.169468	.0683175	78.52926	1.160943
#1	2.171191	10.86734	.0097532	.0014493	407.8750	.0098955	.0414101
#2	2.164102	10.88954	.0218919	.0012314	408.2875	.0064715	.0414197
#3	2.183850	10.96417	.0702920	.0013703	407.7565	.0009256	.0405877

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.999067	.0286482	.0201056	.0245413	.0042145	.4788499	.4393250
Stddev	.108032	.0002971	.0182378	.0263322	.0025289	.0129982	.4427277
%RSD	2.701433	1.037111	90.71003	107.2977	60.00430	2.714465	100.7745
#1	4.114482	.0287670	.0062298	.0049622	.0070984	.4914083	.0993462
#2	3.982352	.0288675	.0133244	.0141843	.0031696	.4796891	.2786807
#3	3.900366	.0283101	.0407626	.0544773	.0023755	.4654525	.9399482

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

Sample Name: P4718-03A Acquired: 11/8/2024 16:01:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4417638	.0166578	.1396938
Stddev	.0016002	.0019302	.0020874
%RSD	.3622341	11.58737	1.494268
#1	.4429463	.0186071	.1420996
#2	.4399429	.0147473	.1386186
#3	.4424020	.0166192	.1383632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2266.798	51953.86	13432.28	1606.886	3542.616
Stddev	4.405	118.71	33.01	7.255	7.379
%RSD	.1943491	.2284977	.2457648	.4514871	.2082908
#1	2266.734	51821.28	13467.64	1598.688	3547.200
#2	2262.424	51989.98	13426.91	1612.478	3534.104
#3	2271.235	52050.32	13402.27	1609.493	3546.543

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

Sample Name: P4722-04 Acquired: 11/8/2024 16:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006672	-.010378	.2348726	.0030754	.0057095	.1154095	.1983831
Stddev	.001055	.002229	.0011647	.0004660	.0005724	.0059232	.0015791
%RSD	15.80846	21.48097	.4958881	15.15332	10.02493	5.132360	.7959642
#1	-.007770	-.011478	.2360120	.0025463	.0051441	.1222217	.1965601
#2	-.005666	-.011843	.2349215	.0032550	.0056960	.1114739	.1992631
#3	-.006580	-.007812	.2336842	.0034249	.0062886	.1125330	.1993261

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000138	.0019064	181.3179	-.000861	.0043005	.0141424	.2703972
Stddev	.000058	.0000504	1.0984	.000078	.0002120	.0002238	.0009912
%RSD	41.86410	2.642252	.6057925	9.092344	4.929211	1.582505	.3665721
#1	-.000118	.0019071	180.0626	-.000952	.0044356	.0138856	.2710355
#2	-.000093	.0019565	182.1026	-.000817	.0040562	.0142960	.2692553
#3	-.000203	.0018557	181.7885	-.000815	.0044098	.0142455	.2709008

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4036363	3.173410	.0048448	.0001803	412.3553	.0008378	.3992489
Stddev	.0027033	.026605	.0003325	.0002017	3.5688	.0008080	.0035723
%RSD	.6697365	.8383867	6.862199	111.9113	.8654774	96.44722	.8947564
#1	.4010486	3.145347	.0044609	-.000042	416.0873	-.000035	.3999464
#2	.4064420	3.198267	.0050422	.000351	412.0029	.000987	.3953793
#3	.4034185	3.176617	.0050311	.000232	408.9758	.001560	.4024210

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.019557	.0156153	.0035238	.0083561	.0021332	2.862247	.0098778
Stddev	.022814	.0007111	.0004194	.0001023	.0001232	.013085	.0037148
%RSD	1.129637	4.553653	11.90117	1.224606	5.774087	.4571447	37.60790
#1	2.028943	.0149677	.0038543	.0082380	.0022526	2.869387	.0066971
#2	1.993547	.0155019	.0036652	.0084118	.0020065	2.847145	.0089756
#3	2.036180	.0163762	.0030520	.0084185	.0021405	2.870208	.0139606

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

Sample Name: P4722-04 Acquired: 11/8/2024 16:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.324806	.0395441	.6991047
Stddev	.009659	.0012036	.0039965
%RSD	.2905277	3.043770	.5716632
#1	3.325523	.0409046	.6944963
#2	3.314809	.0391099	.7016191
#3	3.334088	.0386178	.7011987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2192.919	49997.00	13091.67	1539.940	3458.735
Stddev	8.598	227.08	64.23	12.004	14.926
%RSD	.3920784	.4541790	.4906290	.7795025	.4315415
#1	2194.726	49906.90	13159.23	1527.216	3457.521
#2	2183.561	50255.29	13031.39	1551.064	3444.453
#3	2200.469	49828.80	13084.38	1541.539	3474.231

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

Sample Name: P4722-09 Acquired: 11/8/2024 16:10:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007981	-.008014	.1842782	.0051174	.0025883	-.026109	.1484435
Stddev	.002080	.001592	.0002126	.0005171	.0001282	.007708	.0019522
%RSD	26.06585	19.86138	.1153906	10.10396	4.953385	29.52049	1.315127
#1	-.007664	-.009190	.1845227	.0051801	.0027197	-.017610	.1463844
#2	-.010201	-.006203	.1841361	.0045718	.0025816	-.028071	.1486786
#3	-.006077	-.008650	.1841759	.0056002	.0024635	-.032647	.1502675

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000135	.0016478	179.2253	-.001065	.0030142	.0131661	.0175708
Stddev	.000016	.0000467	2.0245	.000323	.0000475	.0000865	.0029261
%RSD	11.87808	2.835189	1.129560	30.31097	1.575366	.6567059	16.65343
#1	-.000154	.0016879	176.9003	-.000873	.0030269	.0132319	.0199739
#2	-.000127	.0016591	180.1770	-.000885	.0029616	.0130681	.0184261
#3	-.000125	.0015965	180.5984	-.001438	.0030540	.0131982	.0143123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1904068	2.750696	.0026236	.0002611	406.3451	.0000166	.3314349
Stddev	.0015568	.027654	.0002445	.0001453	3.9579	.0007472	.0010442
%RSD	.8176208	1.005352	9.317261	55.63439	.9740352	4511.637	.3150499
#1	.1886870	2.719843	.0029056	.0003954	402.5905	-.000368	.3315574
#2	.1908137	2.773251	.0024714	.0001069	410.4791	-.000460	.3324124
#3	.1917198	2.758994	.0024938	.0002811	405.9658	.000878	.3303348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.219294	.0141498	.0020240	-.005489	-.002725	2.250472	.0061485
Stddev	.017560	.0004728	.0003784	.000942	.000331	.002741	.0016439
%RSD	.7912378	3.341501	18.69679	17.16550	12.14594	.1217783	26.73579
#1	2.216527	.0136305	.0023678	-.005962	-.003056	2.249520	.0061220
#2	2.203282	.0142635	.0016185	-.006101	-.002394	2.248334	.0078054
#3	2.238073	.0145555	.0020855	-.004404	-.002727	2.253562	.0045181

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

Sample Name: P4722-09 Acquired: 11/8/2024 16:10:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.587940	.0399456	.6129182
Stddev	.005470	.0007082	.0072497
%RSD	.1524582	1.772933	1.182820
#1	3.590965	.0391685	.6050317
#2	3.591230	.0405547	.6144302
#3	3.581625	.0401137	.6192927

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2135.986	49299.05	13175.13	1495.485	3401.796
Stddev	12.103	13.05	113.08	1.010	13.685
%RSD	.5666451	.0264739	.8582862	.0675371	.4022732
#1	2144.466	49284.02	13304.73	1496.316	3412.708
#2	2141.367	49307.55	13124.13	1495.778	3406.238
#3	2122.125	49305.57	13096.53	1494.361	3386.442

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

Sample Name: P4722-14 Acquired: 11/8/2024 16:15:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008269	-.008719	.0973884	.0045932	.0005350	.1466788
Stddev	.001050	.001658	.0004506	.0006672	.0003387	.0050995
%RSD	12.69212	19.01195	.4626941	14.52502	63.31378	3.476612
#1	-.008011	-.008919	.0978700	.0038332	.0008090	.1499389
#2	-.007373	-.006970	.0973182	.0048644	.0001563	.1408022
#3	-.009424	-.010267	.0969770	.0050821	.0006396	.1492953

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1187528	-.000100	.0041159	148.6765	-.000469	.0019027
Stddev	.0012287	.000030	.0000691	.8445	.000285	.0000500
%RSD	1.034666	30.13151	1.679954	.5679862	60.74219	2.625473
#1	.1176688	-.000111	.0040701	148.0129	-.000791	.0019563
#2	.1185021	-.000123	.0041954	148.3896	-.000367	.0018944
#3	.1200875	-.000066	.0040820	149.6270	-.000249	.0018575

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237178	.1914576	.2951443	3.161605	.0092890	.0003441
Stddev	.0003412	.0031223	.0026733	.009326	.0002734	.0001206
%RSD	1.438641	1.630811	.9057571	.2949812	2.942796	35.05150
#1	.0233921	.1881971	.2928292	3.162970	.0093013	.0002679
#2	.0236888	.1917553	.2945337	3.151672	.0095560	.0004832
#3	.0240726	.1944204	.2980701	3.170174	.0090097	.0002813

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	445.5944	.0010785	.2487376	2.385005	.0172009	.0018706
Stddev	5.1856	.0010348	.0006140	.019462	.0000380	.0002131
%RSD	1.163757	95.94228	.2468535	.8160078	.2207127	11.39244
#1	451.5714	.0022566	.2489583	2.366310	.0171775	.0021158
#2	442.2934	.0003166	.2492107	2.405152	.0172447	.0017294
#3	442.9185	.0006624	.2480437	2.383554	.0171805	.0017667

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

Sample Name: P4722-14 Acquired: 11/8/2024 16:15:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005680	.0039292	2.507109	.0211031	F 10.80918	.0320102
Stddev	.000517	.0003519	.006936	.0026026	.01804	.0010150
%RSD	9.105407	8.956932	.2766582	12.33292	.1669094	3.170825
#1	-.005084	.0043004	2.513891	.0238516	10.82299	.0325068
#2	-.005942	.0036004	2.507408	.0207815	10.81578	.0308425
#3	-.006014	.0038867	2.500029	.0186762	10.78877	.0326812

Elem	Sr4077
Units	ppm
Avg	.7124910
Stddev	.0086295
%RSD	1.211172
#1	.7063824
#2	.7087276
#3	.7223631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2174.474	50145.78	13242.11	1514.989	3433.144
Stddev	2.939	174.70	74.21	9.400	6.810
%RSD	.1351604	.3483784	.5604380	.6204347	.1983685
#1	2173.062	50111.69	13290.60	1513.667	3425.694
#2	2177.853	49990.65	13279.06	1506.321	3439.050
#3	2172.507	50335.01	13156.68	1524.980	3434.690

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

Sample Name: P4732-02 Acquired: 11/8/2024 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008564	-.007734	.0109798	.0064139	.0188431	.1200091	.1174769
Stddev	.002441	.001602	.0001606	.0010563	.0005031	.0060041	.0005462
%RSD	28.49792	20.71438	1.462393	16.46888	2.670091	5.003055	.4649761
#1	-.007167	-.007293	.0107960	.0058643	.0185006	.1148741	.1175635
#2	-.007143	-.006398	.0110925	.0076316	.0194208	.1185426	.1168925
#3	-.011383	-.009510	.0110510	.0057456	.0186080	.1266106	.1179746

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	-.000090	12.92294	-.000141	.0013896	.0096713	.0290423
Stddev	.000036	.000042	.05432	.000088	.0001764	.0000500	.0023463
%RSD	53.30289	47.39328	.4203512	62.28538	12.69258	.5173561	8.078757
#1	-.000042	-.000062	12.86173	-.000143	.0011984	.0096141	.0293649
#2	-.000109	-.000068	12.94168	-.000052	.0015459	.0097067	.0312106
#3	-.000051	-.000138	12.96541	-.000228	.0014244	.0096931	.0265515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0245747	.5676446	.0009476	.0003745	410.7143	-.000116	.1550837
Stddev	.0004352	.0080295	.0002263	.0002112	3.9993	.000907	.0011079
%RSD	1.770867	1.414532	23.87976	56.39578	.9737398	781.3612	.7144014
#1	.0246789	.5640335	.0007562	.0003431	409.7912	.000001	.1546711
#2	.0240968	.5620546	.0008893	.0005996	415.0944	.000727	.1563387
#3	.0249483	.5768456	.0011974	.0001807	407.2572	-.001076	.1542413

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.073832	.0389112	.0009079	-.002886	-.000138	.2821432	.0078815
Stddev	.017931	.0002020	.0001605	.000378	.000230	.0047668	.0010942
%RSD	1.669854	.5190345	17.67461	13.09422	167.0548	1.689500	13.88338
#1	1.077227	.0390751	.0009205	-.003318	.000049	.2874377	.0088310
#2	1.054446	.0386856	.0007415	-.002614	-.000395	.2781926	.0066848
#3	1.089823	.0389729	.0010616	-.002728	-.000068	.2807993	.0081288

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

Sample Name: P4732-02 Acquired: 11/8/2024 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7838916	.0026756	.0793841
Stddev	.0042012	.0005768	.0003534
%RSD	.5359403	21.55721	.4451784
#1	.7838205	.0021298	.0792084
#2	.7881279	.0032790	.0791530
#3	.7797265	.0026181	.0797909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.012	51882.14	13385.92	1601.853	3590.874
Stddev	5.333	29.52	15.74	1.788	8.866
%RSD	.2369112	.0568964	.1176106	.1116146	.2468968
#1	2247.403	51915.96	13395.46	1600.384	3581.656
#2	2257.137	51861.55	13394.55	1601.331	3599.339
#3	2248.494	51868.92	13367.75	1603.844	3591.627

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

Sample Name: CCV03 Acquired: 11/8/2024 16:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.983006	5.141580	4.844179	5.127576	5.110164	9.930927	9.613988
Stddev	.005119	.067688	.011360	.008215	.008771	.010200	.061277
%RSD	.1027365	1.316482	.2345133	.1602056	.1716457	.1027054	.6373696
#1	4.978450	5.217674	4.841818	5.136207	5.100368	9.927364	9.651832
#2	4.982022	5.118991	4.834185	5.119853	5.112837	9.942430	9.543291
#3	4.988546	5.088075	4.856534	5.126666	5.117289	9.922987	9.646841

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2341800	2.382947	23.58227	.9299697	2.411664	1.267812	4.879000
Stddev	.0002613	.001790	.06399	.0016626	.002239	.000850	.016371
%RSD	.1115694	.0751075	.2713510	.1787852	.0928391	.0670790	.3355476
#1	.2341831	2.381263	23.55614	.9289517	2.409391	1.267222	4.860292
#2	.2344398	2.382751	23.65520	.9318883	2.411734	1.267426	4.890705
#3	.2339172	2.384827	23.53549	.9290690	2.413868	1.268787	4.886004

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.390952	23.68473	2.412333	1.248813	25.08002	2.417251	2.556003
Stddev	.007136	.11654	.003134	.001598	.11431	.010878	.005925
%RSD	.2984475	.4920675	.1298984	.1279882	.4557935	.4500162	.2318050
#1	2.391649	23.59632	2.409075	1.248772	25.20431	2.411275	2.556421
#2	2.397714	23.81680	2.412598	1.250431	25.05637	2.429807	2.561707
#3	2.383493	23.64107	2.415326	1.247235	24.97938	2.410670	2.549880

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.61211	4.690146	5.047633	4.772787	4.747804	5.001376	4.916936
Stddev	.04947	.007174	.004337	.003867	.012257	.042474	.011895
%RSD	.1931610	.1529490	.0859222	.0810266	.2581619	.8492543	.2419140
#1	25.56873	4.692198	5.051095	4.774447	4.750104	4.952671	4.929514
#2	25.60161	4.696070	5.042768	4.775547	4.758748	5.030723	4.915426
#3	25.66599	4.682170	5.049035	4.768367	4.734560	5.020733	4.905868

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

Sample Name: CCV03 Acquired: 11/8/2024 16:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.735586	4.686788	4.900711
Stddev	.004987	.011502	.038376
%RSD	.1053107	.2454159	.7830677
#1	4.736215	4.699864	4.907525
#2	4.740228	4.678233	4.859384
#3	4.730314	4.682266	4.935223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2438.377	54599.74	13519.50	1711.192	3900.808
Stddev	3.548	122.86	50.83	6.617	4.192
%RSD	.1455111	.2250175	.3759962	.3866620	.1074660
#1	2435.690	54546.74	13482.74	1707.654	3898.433
#2	2442.399	54512.28	13498.25	1707.096	3905.648
#3	2437.043	54740.20	13577.51	1718.825	3898.342

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

Sample Name: CCB03 Acquired: 11/8/2024 16:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000776	-.000371	-.000410	.0023705	.0000697	.0040354	-.004181
Stddev	.001907	.001978	.001048	.0010538	.0008357	.0026507	.000254
%RSD	245.7142	532.8152	255.9346	44.45253	1198.832	65.68500	6.064940
#1	-.001955	.000646	-.001593	.0028249	-.000430	.0012658	-.004462
#2	.001424	-.002650	-.000039	.0011658	.001034	.0042920	-.003968
#3	-.001797	.000891	.000403	.0031209	-.000395	.0065484	-.004114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000503	-.000009	-.000937	.0000971	.0000029	-.000244	-.001179
Stddev	.0000207	.000045	.005530	.0002629	.0001002	.000212	.002135
%RSD	41.22271	523.4946	589.9388	270.8975	3429.871	86.60154	181.0352
#1	.0000600	.000043	-.004078	.0001086	-.000112	-.000340	.001252
#2	.0000644	-.000033	.005448	-.000171	.000051	-.000002	-.002041
#3	.0000265	-.000036	-.004183	.000354	.000070	-.000391	-.002748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000211	-.004102	.0000020	.0006911	.1418112	-.000307	.0000970
Stddev	.000210	.005836	.0000633	.0002031	.0106294	.000547	.0000637
%RSD	99.93789	142.2674	3200.847	29.38299	7.495464	178.3824	65.62697
#1	-.000069	-.007053	.0000685	.0006014	.1295565	-.000697	.0000529
#2	-.000110	.002620	-.000005	.0005483	.1473457	-.000541	.0000681
#3	-.000452	-.007874	-.000058	.0009235	.1485314	.000318	.0001700

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433529	.0030010	.0003007	.0001022	.0003558	-.002272	-.003496
Stddev	.0089947	.0003540	.0001468	.0009996	.0000714	.002576	.001415
%RSD	20.74771	11.79711	48.82331	977.6360	20.07537	113.4126	40.47415
#1	.0460023	.0033668	.0004666	.0005933	.0002869	-.000386	-.003088
#2	.0333310	.0029760	.0001876	.0007612	.0003508	-.005207	-.002330
#3	.0507253	.0026601	.0002479	-.001048	.0004295	-.001221	-.005070

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

Sample Name: CCB03 Acquired: 11/8/2024 16:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003431	-.001212	.0000476
Stddev	.003286	.001061	.0000286
%RSD	95.77668	87.54643	59.94383
#1	-.001632	-.002227	.0000396
#2	-.001438	-.001299	.0000794
#3	-.007224	-.000110	.0000240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2564.128	58201.22	13462.94	1820.149	4394.196
Stddev	5.214	146.86	17.97	14.712	7.698
%RSD	.2033323	.2523349	.1334898	.8082938	.1751923
#1	2566.106	58038.21	13481.18	1803.701	4391.322
#2	2568.064	58323.21	13462.38	1832.055	4402.917
#3	2558.215	58242.23	13445.25	1824.690	4388.347

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

Sample Name: P4738-02 Acquired: 11/8/2024 16:32:25 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004217	-.005472	.0483003	.0028456	-.000855	.6002101	.2554351
Stddev	.002288	.000896	.0004863	.0016720	.000455	.0009278	.0005232
%RSD	54.24636	16.38148	1.006936	58.75731	53.26144	.1545777	.2048250
#1	-.002041	-.005748	.0484612	.0047672	-.001369	.6012514	.2559991
#2	-.004008	-.006197	.0486858	.0017226	-.000692	.5994713	.2549657
#3	-.006602	-.004470	.0477539	.0020470	-.000503	.5999076	.2553404

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000211	-.000056	1.149504	-.000680	.0060742	.0349568	.5442088
Stddev	.0000242	.000030	.004346	.000464	.0001824	.0001465	.0129110
%RSD	114.6299	52.88823	.3780842	68.24211	3.002773	.4191566	2.372441
#1	.0000015	-.000026	1.154036	-.000834	.0062512	.0348235	.5591056
#2	.0000137	-.000085	1.145372	-.000158	.0060845	.0349331	.5372693
#3	.0000481	-.000058	1.149105	-.001046	.0058868	.0351137	.5362515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514861	.3270506	.0009050	.0002560	475.0999	.0012339	.2272937
Stddev	.0001086	.0030840	.0002632	.0000986	3.7583	.0007093	.0006245
%RSD	.2108459	.9429810	29.08358	38.52620	.7910650	57.48307	.2747623
#1	.0515677	.3265388	.0006087	.0001422	478.7126	.0020118	.2265765
#2	.0515278	.3303586	.0011118	.0003082	471.2112	.0006231	.2277174
#3	.0513629	.3242546	.0009946	.0003175	475.3760	.0010668	.2275872

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6583916	.0862013	.0010870	.0032536	.0044054	.5330043	.1222963
Stddev	.0118958	.0004021	.0001684	.0005452	.0002678	.0030408	.0044752
%RSD	1.806802	.4664762	15.48716	16.75611	6.078698	.5704977	3.659328
#1	.6582346	.0860387	.0011530	.0037821	.0046555	.5324172	.1235790
#2	.6465751	.0866593	.0012123	.0032855	.0041229	.5302998	.1259902
#3	.6703652	.0859061	.0008957	.0026931	.0044377	.5362958	.1173198

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

Sample Name: P4738-02 Acquired: 11/8/2024 16:32:25 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.105302	.0009075	.0101697
Stddev	.011796	.0006753	.0000310
%RSD	.3798779	74.41529	.3049546
#1	3.116107	.0001283	.0101340
#2	3.107082	.0012716	.0101855
#3	3.092717	.0013227	.0101897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.505	52109.21	12794.65	1674.627	3595.805
Stddev	1.796	140.03	38.05	3.386	2.775
%RSD	.0766881	.2687162	.2974029	.2022011	.0771734
#1	2344.180	51965.38	12829.64	1673.701	3598.872
#2	2340.608	52117.18	12754.14	1678.379	3593.467
#3	2342.726	52245.09	12800.18	1671.800	3595.077

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

Sample Name: P4739-04 Acquired: 11/8/2024 16:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007579	-.009555	.0021510	.0051383	-.000245	.6866099	.1637795
Stddev	.002465	.001314	.0006579	.0011962	.000708	.0028073	.0001519
%RSD	32.52784	13.74720	30.58729	23.28046	289.0269	.4088615	.0927640
#1	-.006211	-.008159	.0019005	.0042797	.000510	.6887100	.1636425
#2	-.006101	-.009739	.0016551	.0065046	-.000895	.6876982	.1639429
#3	-.010425	-.010767	.0028974	.0046305	-.000349	.6834214	.1637531

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001503	.0004491	8.405670	-.000400	.0084274	.0100916	6.961949
Stddev	.0000181	.0000404	.056080	.000255	.0000227	.0000644	.023639
%RSD	12.06860	9.004738	.6671635	63.79719	.2689537	.6379085	.3395478
#1	.0001555	.0004147	8.340915	-.000576	.0084099	.0101003	6.935556
#2	.0001653	.0004936	8.438184	-.000517	.0084193	.0100233	6.969114
#3	.0001301	.0004390	8.437911	-.000107	.0084530	.0101511	6.981177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6358822	2.156539	.0028360	.0005995	397.1615	.0010860	.0650015
Stddev	.0071432	.024739	.0002200	.0002623	1.1599	.0001535	.0007274
%RSD	1.123353	1.147182	7.755917	43.75372	.2920515	14.13676	1.119111
#1	.6276340	2.130834	.0026070	.0006656	397.9433	.0009169	.0642531
#2	.6399904	2.180184	.0030457	.0008224	395.8288	.0012167	.0650455
#3	.6400223	2.158598	.0028553	.0003105	397.7125	.0011244	.0657060

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.626916	.0200019	.0003866	-.002134	.0193344	1.176795	.0183177
Stddev	.019513	.0005102	.0001066	.000891	.0007624	.001225	.0020242
%RSD	.5380142	2.550702	27.57569	41.75079	3.943251	.1041323	11.05072
#1	3.647677	.0194772	.0002803	-.002309	.0201932	1.176179	.0197887
#2	3.624118	.0204963	.0004935	-.001169	.0190724	1.178206	.0191554
#3	3.608953	.0200322	.0003862	-.002925	.0187374	1.176000	.0160091

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

Sample Name: P4739-04 Acquired: 11/8/2024 16:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9398085	.0017522	.0802308
Stddev	.0045981	.0010227	.0001720
%RSD	.4892559	58.36502	.2143590
#1	.9367368	.0028266	.0800930
#2	.9375940	.0007905	.0804236
#3	.9450948	.0016397	.0801760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2249.434	51901.13	13482.37	1596.038	3594.718
Stddev	12.760	66.43	45.06	5.884	12.598
%RSD	.5672548	.1279974	.3341944	.3686925	.3504630
#1	2234.700	51824.45	13533.82	1596.896	3580.575
#2	2256.781	51941.18	13450.00	1601.447	3598.844
#3	2256.821	51937.76	13463.28	1589.772	3604.737

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

Sample Name: P4739-08 Acquired: 11/8/2024 16:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001188	-.007310	.0055411	-.001637	.0002910	.1330510	.2413279
Stddev	.002237	.002189	.0010229	.001117	.0008203	.0045375	.0009650
%RSD	188.2621	29.94860	18.45954	68.23419	281.9394	3.410326	.3998498
#1	-.003456	-.006154	.0048373	-.002875	-.000642	.1356810	.2421322
#2	-.001126	-.009835	.0067144	-.001333	.000618	.1278116	.2402579
#3	.001017	-.005941	.0050715	-.000704	.000897	.1356604	.2415935

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003110	.0019934	22.12181	-.000276	.0233662	.0033607	26.76779
Stddev	.0000266	.0000938	.09223	.000240	.0004412	.0004671	.11879
%RSD	8.536617	4.704671	.4169267	86.86155	1.888363	13.89959	.4437835
#1	.0002839	.0019106	22.03905	-.000463	.0228788	.0029458	26.76201
#2	.0003122	.0019743	22.10514	-.000360	.0237383	.0038667	26.65199
#3	.0003370	.0020953	22.22124	-.000006	.0234816	.0032696	26.88936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.060695	2.172443	.0173715	.0006693	398.1552	.0015920	.0758023
Stddev	.013236	.014094	.0003222	.0000759	3.6170	.0002378	.0006057
%RSD	.3259569	.6487460	1.854911	11.33606	.9084392	14.93948	.7990064
#1	4.048524	2.175897	.0170026	.0006293	402.2906	.0013376	.0753285
#2	4.058774	2.156944	.0175980	.0006218	395.5811	.0018087	.0764847
#3	4.074786	2.184489	.0175139	.0007568	396.5939	.0016298	.0755937

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.988701	.0255143	-.000222	-.004000	.0022418	2.369090	.0089090
Stddev	.014417	.0005271	.000132	.000346	.0001985	.014655	.0017186
%RSD	.7249402	2.065823	59.30755	8.650326	8.855003	.6186108	19.29049
#1	1.997947	.0258446	-.000095	-.004318	.0024479	2.383330	.0101815
#2	1.972089	.0249064	-.000358	-.004049	.0022257	2.354052	.0095914
#3	1.996067	.0257918	-.000214	-.003632	.0020518	2.369888	.0069540

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

Sample Name: P4739-08 Acquired: 11/8/2024 16:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4182396	.0044049	.0987120
Stddev	.0033006	.0008758	.0001183
%RSD	.7891699	19.88310	.1197921
#1	.4144292	.0040452	.0988482
#2	.4200747	.0054033	.0986520
#3	.4202149	.0037662	.0986357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.289	52260.69	13753.85	1631.940	3684.855
Stddev	12.025	190.60	17.65	6.741	21.011
%RSD	.5160113	.3647134	.1282959	.4130736	.5701972
#1	2343.215	52078.99	13770.80	1627.788	3709.113
#2	2328.216	52459.09	13755.18	1628.313	3673.090
#3	2319.435	52243.99	13735.58	1639.718	3672.363

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

Sample Name: P4739-12 Acquired: 11/8/2024 16:45:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044315	-.008387	.0802410	.0026148	.0001095	.2570675	.3439156
Stddev	.0016865	.001793	.0009279	.0021872	.0008544	.0044760	.0065408
%RSD	38.05847	21.37750	1.156449	83.64405	779.9535	1.741176	1.901852
#1	.0028103	-.009382	.0801849	.0009083	-.000135	.2542654	.3363902
#2	.0061766	-.009462	.0793423	.0018559	-.000596	.2622296	.3482332
#3	.0043075	-.006317	.0811957	.0050804	.001059	.2547075	.3471232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004333	.0009973	19.71123	-.001052	.0079813	.0124056	6.562713
Stddev	.0000853	.0000382	.29976	.000172	.0002946	.0003923	.033090
%RSD	19.69328	3.831260	1.520752	16.32118	3.690705	3.162278	.5042174
#1	.0005104	.0010349	19.37421	-.000971	.0078792	.0128510	6.583550
#2	.0003416	.0009585	19.81139	-.000935	.0077513	.0121115	6.580031
#3	.0004479	.0009986	19.94808	-.001249	.0083133	.0122542	6.524557

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.566064	3.319926	.0074689	.0003065	374.7236	.0001717	.2011890
Stddev	.022916	.060787	.0000945	.0001225	2.8876	.0005191	.0018610
%RSD	1.463311	1.830986	1.265578	39.96370	.7705836	302.2939	.9249904
#1	1.540126	3.258849	.0075702	.0004243	376.9674	-.000426	.2031756
#2	1.583571	3.320508	.0073831	.0001798	375.7377	.000431	.2009053
#3	1.574494	3.380420	.0074534	.0003154	371.4658	.000510	.1994862

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.784197	.0232215	.0005525	-.001189	.0076382	.8614924	.0070812
Stddev	.013930	.0005695	.0001070	.000733	.0005816	.0072166	.0007859
%RSD	.7807710	2.452352	19.37049	61.67411	7.614425	.8376891	11.09876
#1	1.797661	.0229804	.0005279	-.002035	.0072503	.8630006	.0076155
#2	1.785088	.0228122	.0006697	-.000725	.0083069	.8678358	.0074493
#3	1.769843	.0238719	.0004599	-.000807	.0073573	.8536409	.0061788

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

Sample Name: P4739-12 Acquired: 11/8/2024 16:45:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3434494	.0038708	.0756276
Stddev	.0043632	.0010039	.0015138
%RSD	1.270396	25.93549	2.001696
#1	.3394346	.0048835	.0738824
#2	.3480928	.0038530	.0765865
#3	.3428210	.0028759	.0764138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.508	53616.23	13630.92	1656.586	3691.923
Stddev	9.161	339.39	164.98	12.712	7.152
%RSD	.3930703	.6330020	1.210359	.7673712	.1937144
#1	2327.640	53336.48	13819.77	1644.116	3688.686
#2	2323.125	53518.41	13558.26	1656.114	3686.963
#3	2340.760	53993.78	13514.75	1669.528	3700.121

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

Sample Name: P4739-16 Acquired: 11/8/2024 16:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009139	-.011080	.0011944	.0040080	-.000296	-.013515	.1798903
Stddev	.000912	.000339	.0005067	.0011140	.000657	.005351	.0002267
%RSD	9.976053	3.056851	42.42254	27.79531	222.1113	39.59220	.1260366
#1	-.009437	-.010949	.0009658	.0052876	-.000368	-.013954	.1800228
#2	-.008116	-.011465	.0008422	.0034828	.000394	-.018633	.1796286
#3	-.009865	-.010826	.0017751	.0032538	-.000914	-.007958	.1800197

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000144	.0009484	141.7434	-.000589	.0056114	.0085340	.0259809
Stddev	.000061	.0000258	.5250	.000246	.0001405	.0000691	.0020083
%RSD	42.35948	2.718476	.3703730	41.78847	2.503430	.8094879	7.729859
#1	-.000167	.0009288	141.2826	-.000776	.0057347	.0085167	.0278202
#2	-.000189	.0009387	141.6328	-.000310	.0054585	.0086100	.0238382
#3	-.000074	.0009776	142.3149	-.000682	.0056410	.0084751	.0262844

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.044395	2.582080	.0047419	.0004171	381.7052	-.000490	.0814396
Stddev	.004829	.017076	.0004596	.0001105	2.2400	.000295	.0006732
%RSD	.4623358	.6613457	9.692184	26.47838	.5868444	60.23412	.8266285
#1	1.043404	2.582204	.0042133	.0005368	383.4548	-.000819	.0812583
#2	1.040139	2.599094	.0049651	.0003953	379.1806	-.000250	.0808755
#3	1.049642	2.564941	.0050473	.0003192	382.4801	-.000400	.0821848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.779204	.0635129	.0012086	-.005358	-.001838	4.210445	.0028598
Stddev	.009313	.0006960	.0002116	.000973	.000145	.008836	.0018096
%RSD	.3351034	1.095895	17.51164	18.16585	7.902364	.2098524	63.27818
#1	2.789477	.0634678	.0009713	-.004772	-.001671	4.200833	.0036617
#2	2.776822	.0628405	.0012769	-.006481	-.001935	4.218213	.0041299
#3	2.771314	.0642304	.0013777	-.004820	-.001908	4.212289	.0007878

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

Sample Name: P4739-16 Acquired: 11/8/2024 16:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.773910	.0278059	.4826999
Stddev	.007475	.0009380	.0008538
%RSD	.2694697	3.373236	.1768810
#1	2.765981	.0269525	.4830882
#2	2.774919	.0288101	.4817209
#3	2.780829	.0276551	.4832905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.597	52368.71	13403.64	1605.856	3545.977
Stddev	4.132	121.85	55.09	1.197	3.626
%RSD	.1839852	.2326703	.4109767	.0745695	.1022566
#1	2246.232	52331.11	13403.24	1605.382	3548.575
#2	2249.374	52504.92	13458.92	1607.219	3547.523
#3	2241.184	52270.10	13348.75	1604.969	3541.835

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

Sample Name: PB164694TB Acquired: 11/8/2024 16:54:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005029	-.008298	-.001664	.0052929	.0001494	.0073285	-.005294
Stddev	.001806	.000449	.000611	.0022342	.0000964	.0031694	.000272
%RSD	35.90539	5.415946	36.69414	42.21224	64.53145	43.24822	5.141653
#1	-.004842	-.008496	-.001778	.0054558	.0002123	.0104930	-.005016
#2	-.006921	-.008615	-.001004	.0029816	.0000384	.0041541	-.005306
#3	-.003324	-.007784	-.002209	.0074411	.0001974	.0073384	-.005560

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000151	-.000068	-.035937	-.000707	-.000128	.0002398	-.003321
Stddev	.000036	.000087	.001911	.000380	.000075	.0000899	.003784
%RSD	23.53774	128.1305	5.317131	53.67868	58.53606	37.48256	113.9673
#1	-.000135	-.000100	-.037788	-.001093	-.000154	.0003133	-.007191
#2	-.000192	-.000136	-.036050	-.000335	-.000044	.0002665	-.003143
#3	-.000126	.000031	-.033972	-.000693	-.000187	.0001396	.000372

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010873	-.009713	-.000209	.0006070	367.9765	-.000450	.0007267
Stddev	.0001062	.003296	.000164	.0002375	4.1512	.001252	.0000784
%RSD	9.764954	33.93405	78.74587	39.13153	1.128125	277.9858	10.79314
#1	.0011358	-.012817	-.000276	.0007723	369.5523	-.001591	.0006777
#2	.0011605	-.010068	-.000021	.0007139	363.2680	.000889	.0006854
#3	.0009655	-.006254	-.000328	.0003348	371.1090	-.000649	.0008172

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170846	-.002024	.0003718	-.001480	.0005775	-.004150	-.005269
Stddev	.0104647	.000464	.0003615	.000305	.0001526	.003514	.001950
%RSD	61.25221	22.94177	97.23852	20.58082	26.42846	84.67946	37.01735
#1	.0062384	-.002051	.0000324	-.001784	.0004118	-.003772	-.003774
#2	.0178947	-.001547	.0003311	-.001175	.0006082	-.000840	-.004558
#3	.0271207	-.002474	.0007520	-.001481	.0007124	-.007838	-.007475

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

Sample Name: PB164694TB Acquired: 11/8/2024 16:54:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0097902	-.001159	.0000227
Stddev	.0032190	.000596	.0000238
%RSD	32.87949	51.39867	104.9877
#1	.0083474	-.001745	.0000099
#2	.0134782	-.001181	.0000501
#3	.0075451	-.000553	.0000080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2289.846	52503.29	13619.00	1614.221	3687.396
Stddev	16.084	252.94	56.13	13.164	19.568
%RSD	.7024065	.4817604	.4121285	.8155205	.5306794
#1	2308.096	52530.84	13655.47	1607.947	3709.963
#2	2277.738	52741.33	13554.37	1629.349	3677.108
#3	2283.703	52237.70	13647.17	1605.368	3675.119

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

Sample Name: PB164768BL Acquired: 11/8/2024 16:59:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002467	.0006613	-.000701	.0016356	-.000351	.0042707	-.005178
Stddev	.001453	.0008674	.000839	.0011983	.000191	.0015190	.000664
%RSD	58.89316	131.1571	119.6741	73.26193	54.52885	35.56826	12.81863
#1	-.003958	-.000040	-.001595	.0005488	-.000447	.0027565	-.005465
#2	-.002389	.000393	.000070	.0029206	-.000475	.0042613	-.005650
#3	-.001055	.001631	-.000579	.0014373	-.000131	.0057945	-.004419

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000182	-.000074	-.000582	.0002180	.0000453	-.000353	-.003323
Stddev	.0000100	.000004	.001521	.0002653	.0001162	.000128	.002124
%RSD	54.97345	4.862395	261.5481	121.7067	256.3553	36.28086	63.92804
#1	.0000119	-.000070	-.002337	.0004413	-.000089	-.000489	-.004547
#2	.0000130	-.000077	.000266	.0002879	.000105	-.000234	-.000870
#3	.0000297	-.000075	.000327	-.000075	.000120	-.000337	-.004552

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	.0063217	.0000284	.0006900	.3067792	-.000559	.0000249
Stddev	.000172	.0043123	.0001061	.0001944	.0065262	.000441	.0000862
%RSD	253.7621	68.21461	373.9126	28.17048	2.127328	78.89657	346.1023
#1	-.000248	.0024689	.0000536	.0004738	.2992799	-.000681	.0000313
#2	-.000049	.0109799	.0001196	.0007461	.3098872	-.000925	.0001077
#3	.000094	.0055163	-.000088	.0008502	.3111704	-.000070	-.000064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0558153	-.001905	.0001474	-.000015	.0001096	-.000735	-.003796
Stddev	.0245169	.000565	.0001615	.000237	.0003065	.005710	.001052
%RSD	43.92506	29.66462	109.5474	1614.640	279.7795	776.9539	27.70982
#1	.0609706	-.002213	-.000018	.000120	.0002396	-.004614	-.005001
#2	.0291307	-.002249	.000155	.000125	-.000241	.005821	-.003332
#3	.0773447	-.001253	.000305	-.000289	.000330	-.003412	-.003057

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

Sample Name: PB164768BL Acquired: 11/8/2024 16:59:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001948	-.001771	-.000011
Stddev	.000623	.001135	.000014
%RSD	31.97322	64.07761	130.0698
#1	-.001975	-.001491	.000005
#2	-.001312	-.000803	-.000015
#3	-.002557	-.003020	-.000022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2537.048	57562.53	13598.83	1788.288	4401.832
Stddev	8.112	135.71	95.59	8.091	8.502
%RSD	.3197271	.2357592	.7029404	.4524338	.1931453
#1	2527.710	57471.82	13593.31	1783.245	4395.596
#2	2542.341	57718.54	13506.12	1797.620	4411.517
#3	2541.095	57497.23	13697.06	1783.998	4398.384

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

Sample Name: PB164768BS Acquired: 11/8/2024 17:03:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7782794	2.006453	.9299962	1.952762	.7790537	2.041646
Stddev	.0027055	.016327	.0037129	.004088	.0013410	.071881
%RSD	.3476282	.8137469	.3992393	.2093503	.1721363	3.520714
#1	.7789690	1.989451	.9331415	1.954142	.7805812	2.119525
#2	.7752958	2.022009	.9309466	1.955981	.7785100	2.027566
#3	.7805733	2.007898	.9259004	1.948162	.7780700	1.977848

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1912393	.1962884	.1802039	1.004339	.3609689	.1857643
Stddev	.0067297	.0052527	.0008392	.028874	.0008710	.0008994
%RSD	3.518965	2.676001	.4656817	2.874909	.2412833	.4841517
#1	.1983680	.2019023	.1811041	1.032881	.3600655	.1866864
#2	.1903537	.1954698	.1800644	1.004990	.3618033	.1857172
#3	.1849964	.1914931	.1794432	.975145	.3610381	.1848894

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3043614	2.758144	.2027417	1.936958	.4660477	.0726361
Stddev	.0012388	.014654	.0065641	.073275	.0018912	.0002457
%RSD	.4070055	.5312933	3.237648	3.783010	.4057967	.3382855
#1	.3055977	2.743344	.2096989	1.999716	.4677951	.0724089
#2	.3043664	2.772647	.2018678	1.954726	.4663081	.0726026
#3	.3031202	2.758440	.1966583	1.856433	.4640397	.0728969

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.766158	.2989944	.2037531	9.425299	.2862332	.3972552
Stddev	.016077	.0100740	.0001271	.013811	.0083380	.0010378
%RSD	.5812054	3.369281	.0623886	.1465315	2.913006	.2612487
#1	2.756112	.3102528	.2036282	9.439112	.2950628	.3983305
#2	2.784700	.2958988	.2037487	9.411490	.2851427	.3962594
#3	2.757660	.2908314	.2038823	9.425294	.2784941	.3971758

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

Sample Name: PB164768BS Acquired: 11/8/2024 17:03:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6389619	.1955646	F .6755205	5.366020	F -.014297	.1822295
Stddev	.0017894	.0071948	.0030646	.011285	.001474	.0058077
%RSD	.2800505	3.678997	.4536670	.2103127	10.30746	3.187048
#1	.6401799	.2035014	.6746261	5.379001	-.012649	.1884596
#2	.6397983	.1937222	.6789328	5.358537	-.014755	.1812635
#3	.6369074	.1894701	.6730026	5.360521	-.015488	.1769653

Elem	Sr4077
Units	ppm
Avg	.2033678
Stddev	.0075698
%RSD	3.722235
#1	.2116136
#2	.2017566
#3	.1967333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2576.534	58613.14	13065.75	1830.859	4341.478
Stddev	4.603	66.48	407.78	6.898	10.780
%RSD	.1786430	.1134254	3.121007	.3767856	.2482969
#1	2571.748	58632.41	12625.20	1827.506	4332.847
#2	2576.925	58667.86	13142.05	1838.793	4338.027
#3	2580.929	58539.15	13429.99	1826.278	4353.561

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

Sample Name: P4762-02 Acquired: 11/8/2024 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003910	-.002370	.0199721	.0040338	-.000949	.0826657	.0052383
Stddev	.002755	.002805	.0019496	.0020917	.000138	.0001128	.0003415
%RSD	70.46253	118.3450	9.761646	51.85351	14.48658	.1364379	6.519106
#1	-.006105	-.005574	.0182100	.0036556	-.001079	.0827958	.0050031
#2	-.000818	-.000355	.0220665	.0062889	-.000805	.0826068	.0056300
#3	-.004807	-.001182	.0196399	.0021571	-.000964	.0825946	.0050819

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000738	.0001304	12.31581	.0011585	.0003762	.3669953	.2291791
Stddev	.0000013	.0000514	.12724	.0005090	.0000603	.0030067	.0048822
%RSD	1.800143	39.39213	1.033126	43.93557	16.02273	.8192763	2.130316
#1	.0000744	.0001894	12.43355	.0007085	.0003208	.3657749	.2262671
#2	.0000723	.0000956	12.33306	.0017109	.0004404	.3647907	.2348156
#3	.0000748	.0001062	12.18083	.0010561	.0003673	.3704204	.2264547

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225123	3.677374	.0070670	.0007089	1400.983	.0001986	1.781060
Stddev	.0002810	.052898	.0003455	.0003083	10.859	.0003881	.002912
%RSD	1.247960	1.438469	4.889128	43.48648	.7750826	195.4384	.1634901
#1	.0228093	3.719080	.0067309	.0010490	1413.494	-.000178	1.777968
#2	.0222507	3.695169	.0074212	.0004478	1393.998	.000597	1.783750
#3	.0224771	3.617874	.0070488	.0006300	1395.458	.000177	1.781463

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.621886	.0156480	.0015012	-.002688	.0018946	5.542499	2.631751
Stddev	.049611	.0007367	.0003268	.000740	.0001032	.015311	.016677
%RSD	.7491994	4.707747	21.76664	27.53220	5.449207	.2762556	.6336780
#1	6.569756	.0164959	.0011883	-.002010	.0020130	5.527271	2.630744
#2	6.668521	.0151659	.0014750	-.002577	.0018230	5.557893	2.615600
#3	6.627381	.0152820	.0018403	-.003477	.0018480	5.542334	2.648908

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

Sample Name: P4762-02 Acquired: 11/8/2024 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.652063	.0048463	.0462957
Stddev	.068798	.0007370	.0003073
%RSD	1.217221	15.20827	.6637094
#1	5.634439	.0056967	.0464350
#2	5.593791	.0043934	.0465087
#3	5.727959	.0044488	.0459435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.018	47041.27	12898.81	1487.845	3197.045
Stddev	25.913	124.36	70.37	.748	37.593
%RSD	1.224010	.2643659	.5455282	.0502579	1.175882
#1	2123.169	47162.64	12838.98	1487.627	3208.211
#2	2139.302	47047.06	12881.12	1488.678	3227.791
#3	2088.584	46914.12	12976.33	1487.230	3155.134

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

Sample Name: P4762-02DUP Acquired: 11/8/2024 17:11:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004079	-.003028	.0208105	.0038137	-.001374	.0811633	.0051083
Stddev	.001145	.002151	.0007093	.0024859	.000955	.0043649	.0002580
%RSD	28.07194	71.02685	3.408488	65.18359	69.50566	5.377926	5.049772
#1	-.004589	-.005451	.0204055	.0015382	-.000491	.0834137	.0054048
#2	-.004880	-.001346	.0203964	.0034360	-.001244	.0839439	.0049847
#3	-.002767	-.002286	.0216295	.0064668	-.002388	.0761325	.0049354

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000544	-.000016	12.35287	.0012966	.0001500	.3676255	.2230071
Stddev	.0000763	.000070	.20325	.0002371	.0000599	.0008886	.0022596
%RSD	140.3064	440.6331	1.645387	18.28628	39.90639	.2417059	1.013241
#1	-.000033	.000058	12.52622	.0010238	.0002153	.3668159	.2235292
#2	.000104	-.000080	12.40321	.0014525	.0000978	.3674844	.2249600
#3	.000092	-.000026	12.12918	.0014136	.0001369	.3685761	.2205322

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225428	3.694798	.0066835	.0006444	1376.712	.0012566	1.757101
Stddev	.0006240	.062818	.0001016	.0002011	10.664	.0010293	.002476
%RSD	2.768225	1.700171	1.519836	31.20578	.7745747	81.91479	.1408963
#1	.0232116	3.746119	.0067157	.0004239	1381.797	.0003337	1.755133
#2	.0224406	3.713529	.0067650	.0008177	1364.457	.0010694	1.759880
#3	.0219761	3.624745	.0065697	.0006915	1383.881	.0023666	1.756288

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.524253	.0154701	.0014062	-.002823	.0022625	5.434336	2.615713
Stddev	.039561	.0003444	.0001924	.000564	.0002829	.014081	.003391
%RSD	.6063646	2.226012	13.68324	19.97605	12.50353	.2591062	.1296440
#1	6.507036	.0154380	.0012035	-.002245	.0021115	5.450437	2.611828
#2	6.496218	.0158294	.0014288	-.003372	.0020872	5.424327	2.617230
#3	6.569504	.0151429	.0015864	-.002854	.0025889	5.428244	2.618080

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

Sample Name: P4762-02DUP Acquired: 11/8/2024 17:11:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.657057	.0059665	.0463987
Stddev	.007989	.0008635	.0007925
%RSD	.1412153	14.47216	1.707998
#1	5.659284	.0068114	.0471595
#2	5.648191	.0060025	.0464587
#3	5.663695	.0050856	.0455779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2101.182	47660.18	12798.71	1501.550	3186.704
Stddev	11.397	34.68	189.05	8.284	18.376
%RSD	.5424147	.0727730	1.477069	.5516967	.5766560
#1	2113.163	47694.61	12639.30	1504.839	3206.596
#2	2099.907	47660.68	12749.25	1507.684	3183.155
#3	2090.476	47625.25	13007.56	1492.127	3170.361

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

Sample Name: CCV04 Acquired: 11/8/2024 17:16:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.186089	5.234352	4.939561	5.364266	5.294479	9.686918	9.362035
Stddev	.016198	.124976	.004043	.015352	.017416	.672054	.484031
%RSD	.3123302	2.387606	.0818497	.2861942	.3289445	6.937752	5.170147
#1	5.195785	5.353457	4.937872	5.371252	5.302515	9.995703	9.527031
#2	5.167389	5.245364	4.936636	5.346663	5.274496	8.915965	8.817078
#3	5.195092	5.104234	4.944175	5.374883	5.306425	10.14908	9.741996

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2273958	2.418621	22.82639	.9272651	2.452493	1.308358	4.864045
Stddev	.0123815	.003473	1.45793	.0043585	.003063	.002996	.068689
%RSD	5.444916	.1436086	6.387038	.4700404	.1248740	.2289895	1.412184
#1	.2327509	2.418593	23.43036	.9319964	2.450818	1.307838	4.916558
#2	.2132381	2.415162	21.16353	.9234136	2.450633	1.305656	4.786310
#3	.2361985	2.422109	23.88528	.9263853	2.456028	1.311580	4.889267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.314973	23.01487	2.455722	1.262120	24.52533	2.349612	2.606189
Stddev	.159792	1.42598	.003113	.009291	.60821	.155436	.022990
%RSD	6.902526	6.195917	.1267504	.7361411	2.479931	6.615412	.8821191
#1	2.384843	23.55759	2.454841	1.272700	25.13915	2.413439	2.626902
#2	2.132147	21.39721	2.453145	1.258367	23.92289	2.172422	2.610210
#3	2.427931	24.08980	2.459180	1.255292	24.51395	2.462974	2.581454

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.79355	4.558378	5.168066	4.853234	4.604310	5.048822	5.027304
Stddev	.49205	.243758	.010957	.009395	.318664	.032672	.021589
%RSD	1.907657	5.347483	.2120119	.1935738	6.920988	.6471201	.4294371
#1	26.18859	4.675739	5.175733	4.864078	4.745180	5.076585	5.009016
#2	25.24238	4.278139	5.155517	4.848054	4.239489	5.012819	5.021777
#3	25.94968	4.721256	5.172948	4.847570	4.828262	5.057063	5.051120

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

Sample Name: CCV04 Acquired: 11/8/2024 17:16:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.877941	4.511993	4.773466
Stddev	.007851	.356417	.241791
%RSD	.1609401	7.899322	5.065304
#1	4.886919	4.683997	4.895383
#2	4.874531	4.102195	4.494988
#3	4.872371	4.749788	4.930028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.121	53887.49	13869.04	1650.885	3775.952
Stddev	7.224	471.77	760.06	20.290	8.262
%RSD	.3084365	.8754730	5.480290	1.229026	.2187974
#1	2344.168	53378.09	13469.76	1634.443	3781.898
#2	2348.101	53975.00	14745.53	1644.652	3779.439
#3	2334.095	54309.38	13391.82	1673.560	3766.518

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

Sample Name: CCB04 Acquired: 11/8/2024 17:22:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009520	-.000534	-.000102	.0009992	-.000447	.0071684	-.004841
Stddev	.0003820	.001141	.000560	.0011259	.000640	.0031774	.000352
%RSD	40.12640	213.5638	547.7033	112.6837	143.2983	44.32489	7.275051
#1	.0008626	.000489	.000142	.0022992	-.001046	.0088987	-.005070
#2	.0006226	-.000327	.000295	.0003375	.000227	.0035014	-.005018
#3	.0013708	-.001765	-.000743	.0003608	-.000521	.0091052	-.004436

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000703	.0000391	.0003050	-.000132	.0001320	-.000294	-.002679
Stddev	.0000101	.0000614	.0026917	.000124	.0001574	.000376	.001811
%RSD	14.42671	156.9755	882.3874	93.71464	119.2767	127.5828	67.58408
#1	.0000811	.0000741	.0031926	-.000020	-.000035	-.000446	-.001404
#2	.0000611	-.000032	-.002135	-.000265	.000153	.000133	-.004752
#3	.0000686	.000075	-.000143	-.000111	.000278	-.000571	-.001882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000008	.0061750	-.000228	.0004484	.1730651	-.000459	-.000083
Stddev	.000063	.0031377	.000261	.0000556	.0295699	.000890	.000186
%RSD	769.4900	50.81400	114.2573	12.40988	17.08599	194.0830	224.4279
#1	-.000081	.0047259	-.000326	.0005126	.1421537	.000388	-.000272
#2	.000024	.0097754	-.000425	.0004174	.1759611	-.001387	-.000076
#3	.000032	.0040236	.000067	.0004151	.2010804	-.000377	.000100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406792	.0006159	.0003363	.0003528	.0008104	-.003731	-.003346
Stddev	.0146947	.0005640	.0000714	.0008686	.0002740	.000997	.000696
%RSD	36.12330	91.58186	21.23120	246.1994	33.80650	26.72739	20.80534
#1	.0242867	.0005430	.0004090	.0012949	.0008749	-.004159	-.002807
#2	.0526698	.0000918	.0002663	.0001797	.0005099	-.002591	-.003098
#3	.0450810	.0012128	.0003337	-.000416	.0010463	-.004443	-.004132

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

Sample Name: CCB04 Acquired: 11/8/2024 17:22:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003298	-.001301	.0000961
Stddev	.001384	.000925	.0000155
%RSD	41.95559	71.08377	16.14639
#1	-.004290	-.001122	.0001043
#2	-.003887	-.000479	.0000782
#3	-.001717	-.002303	.0001058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.654	59723.84	13542.39	1861.746	4436.416
Stddev	8.512	930.46	158.74	22.404	9.678
%RSD	.3295993	1.557939	1.172183	1.203397	.2181601
#1	2592.085	59938.13	13391.94	1873.995	4446.318
#2	2575.541	60528.47	13708.29	1875.355	4426.978
#3	2580.335	58704.93	13526.96	1835.888	4435.952

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

Sample Name: P4762-02LX5 Acquired: 11/8/2024 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002096	-.000482	.0036434	.0019304	-.001502	.0207051	-.002423
Stddev	.000140	.001693	.0008229	.0004814	.001380	.0005789	.000745
%RSD	6.673855	350.9580	22.58471	24.93562	91.93295	2.796062	30.76396
#1	-.002092	-.001397	.0032943	.0024384	-.003077	.0209548	-.003037
#2	-.002237	-.001521	.0045833	.0018717	-.000502	.0211174	-.001593
#3	-.001958	.001471	.0030527	.0014811	-.000926	.0200433	-.002638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000579	.0000035	2.498208	.0001625	.0001316	.0779124	.0408540
Stddev	.0000245	.0000575	.191711	.0003271	.0001788	.0008294	.0033467
%RSD	42.30074	1643.957	7.673954	201.3386	135.8757	1.064543	8.191917
#1	.0000301	-.000029	2.655179	.0003272	.0000799	.0769811	.0409406
#2	.0000761	.000070	2.284544	-.000214	.0003305	.0781842	.0374649
#3	.0000676	-.000030	2.554903	.000374	-.000016	.0785717	.0441566

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043480	.7565743	.0013166	.0005084	261.3390	-.000006	.3371633
Stddev	.0003998	.0521159	.0003044	.0002207	4.7883	.000316	.0027680
%RSD	9.195153	6.888407	23.11885	43.41217	1.832213	5345.677	.8209675
#1	.0047591	.7939761	.0015225	.0002705	266.8674	-.000309	.3403454
#2	.0039605	.6970457	.0014603	.0005482	258.6467	-.000031	.3353128
#3	.0043244	.7787010	.0009669	.0007065	258.5028	.000322	.3358316

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.209529	.0034991	.0004004	-.000968	.0007120	1.004800	.4870695
Stddev	.025095	.0006530	.0002485	.000641	.0002562	.019115	.0048988
%RSD	2.074778	18.66279	62.05584	66.18091	35.98200	1.902351	1.005771
#1	1.203366	.0040161	.0005927	-.001648	.0005829	1.017221	.4814178
#2	1.188090	.0027652	.0001198	-.000879	.0010070	.982789	.4896891
#3	1.237132	.0037160	.0004887	-.000377	.0005460	1.014390	.4901015

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

Sample Name: P4762-02LX5 Acquired: 11/8/2024 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.054999	-.000071	.0091501
Stddev	.009291	.001441	.0007639
%RSD	.8806952	2042.914	8.348651
#1	1.048182	.001251	.0098208
#2	1.051233	.000144	.0083186
#3	1.065582	-.001607	.0093110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.515	52929.18	13588.38	1682.001	3709.535
Stddev	26.440	335.46	855.08	14.765	35.645
%RSD	1.123889	.6337883	6.292711	.8777952	.9609055
#1	2382.554	52558.64	12858.20	1664.956	3750.454
#2	2342.219	53016.68	14529.04	1690.220	3692.929
#3	2332.773	53212.21	13377.90	1690.828	3685.224

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

Sample Name: P4762-02MS Acquired: 11/8/2024 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9538840	1.974578	1.029422	2.349656	.9183901	2.283371	.2081606
Stddev	.0023703	.007628	.003032	.003763	.0009246	.062493	.0047377
%RSD	.2484938	.3863123	.2945570	.1601521	.1006741	2.736877	2.276009
#1	.9514413	1.982999	1.032900	2.353980	.9190357	2.218383	.2034457
#2	.9561747	1.968131	1.028035	2.347125	.9173309	2.288702	.2081152
#3	.9540359	1.972604	1.027331	2.347863	.9188036	2.343027	.2129209

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2044794	.2096473	13.11358	.3817968	.2121916	.6632591	3.476033
Stddev	.0041705	.0011304	.27506	.0018326	.0011540	.0018127	.013363
%RSD	2.039567	.5391942	2.097499	.4800051	.5438524	.2733050	.3844349
#1	.1999816	.2109506	12.84047	.3798186	.2135223	.6653515	3.473604
#2	.2052384	.2090563	13.10973	.3834368	.2115870	.6621659	3.464051
#3	.2082184	.2089348	13.39055	.3821349	.2114655	.6622598	3.490444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2229931	5.538376	.5262173	.0905558	1289.797	.3126291	1.928402
Stddev	.0050844	.126876	.0029345	.0002463	8.276	.0076503	.007255
%RSD	2.280079	2.290858	.5576625	.2720092	.6416213	2.447090	.3762035
#1	.2189377	5.412821	.5295652	.0903437	1281.326	.3060311	1.921872
#2	.2213443	5.535774	.5240906	.0904977	1290.202	.3108411	1.936211
#3	.2286973	5.666533	.5249961	.0908259	1297.863	.3210150	1.927124

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.09959	.2900239	.4300939	.6657359	.2030188	5.999958	9.795188
Stddev	.15886	.0063808	.0008420	.0029209	.0049285	.032106	.040020
%RSD	.8777257	2.200085	.1957755	.4387514	2.427601	.5351114	.4085721
#1	17.95088	.2834833	.4307852	.6690523	.1977258	5.965425	9.838566
#2	18.08094	.2903565	.4303404	.6635461	.2038546	6.005546	9.787298
#3	18.26696	.2962319	.4291562	.6646091	.2074759	6.028904	9.759700

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

Sample Name: P4762-02MS Acquired: 11/8/2024 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.555585	.2028656	.2553155
Stddev	.028327	.0046177	.0066963
%RSD	.5098757	2.276228	2.622754
#1	5.586265	.1983172	.2488641
#2	5.530424	.2027299	.2548502
#3	5.550065	.2075496	.2622324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.635	49202.69	12786.43	1527.915	3165.542
Stddev	.613	310.28	307.82	9.722	6.494
%RSD	.0289296	.6306160	2.407405	.6362595	.2051377
#1	2118.280	49536.28	13098.08	1538.798	3158.084
#2	2117.061	49149.06	12778.63	1524.855	3169.943
#3	2117.563	48922.71	12482.59	1520.092	3168.599

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

Sample Name: P4762-02MSD Acquired: 11/8/2024 17:35:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9626313	2.013867	1.040490	2.384561	.9305767	2.244672	.2041950
Stddev	.0063616	.018724	.008074	.018540	.0080001	.024631	.0024712
%RSD	.6608527	.9297570	.7759824	.7774850	.8596959	1.097320	1.210195
#1	.9566140	1.992872	1.031255	2.364500	.9220003	2.216303	.2013432
#2	.9619911	2.028837	1.046215	2.401063	.9378375	2.257101	.2055373
#3	.9692887	2.019892	1.044000	2.388120	.9318922	2.260612	.2057045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2016041	.2112913	12.79603	.3881725	.2138788	.6710554	3.558943
Stddev	.0023853	.0010875	.15356	.0029259	.0014688	.0048019	.023418
%RSD	1.183144	.5146835	1.200054	.7537604	.6867436	.7155702	.6580172
#1	.1992156	.2100469	12.62241	.3847940	.2121865	.6655711	3.533182
#2	.2016106	.2120588	12.85167	.3898854	.2146268	.6745044	3.578945
#3	.2039861	.2117684	12.91401	.3898379	.2148230	.6730908	3.564700

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166917	5.411708	.5305900	.0922331	1335.363	.3063013	1.961735
Stddev	.0025607	.055093	.0029296	.0009329	10.577	.0042736	.015617
%RSD	1.181722	1.018031	.5521340	1.011508	.7920836	1.395221	.7960802
#1	.2137986	5.348483	.5272392	.0911785	1324.063	.3014870	1.944081
#2	.2176093	5.437217	.5326673	.0929509	1345.027	.3077701	1.973748
#3	.2186671	5.449423	.5318635	.0925698	1337.000	.3096469	1.967375

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.73596	.2861615	.4354973	.6736197	.1990362	6.186909	9.889961
Stddev	.17306	.0035183	.0030656	.0031803	.0020971	.082884	.065010
%RSD	.9236998	1.229464	.7039289	.4721251	1.053626	1.339668	.6573348
#1	18.57193	.2826957	.4319592	.6700283	.1966627	6.097786	9.843849
#2	18.91683	.2860589	.4373639	.6747511	.2006387	6.261679	9.964316
#3	18.71914	.2897299	.4371687	.6760795	.1998071	6.201263	9.861719

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

Sample Name: P4762-02MSD Acquired: 11/8/2024 17:35:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.591016	.1969080	.2503168
Stddev	.042615	.0012107	.0029292
%RSD	.7622113	.6148673	1.170198
#1	5.547743	.1955173	.2469383
#2	5.632942	.1974798	.2521456
#3	5.592363	.1977270	.2518666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2088.601	47565.46	13006.79	1500.875	3127.108
Stddev	12.762	457.73	165.44	16.010	16.588
%RSD	.6110184	.9623070	1.271957	1.066706	.5304522
#1	2103.207	48084.05	13192.29	1517.169	3145.358
#2	2079.604	47217.78	12953.57	1485.166	3112.948
#3	2082.992	47394.56	12874.50	1500.289	3123.017

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

Sample Name: P4762-02A Acquired: 11/8/2024 17:39:15 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9805498	1.976014	1.036485	2.436015	.9470492	2.347324	.2150661
Stddev	.0026064	.019657	.002677	.007305	.0055575	.002232	.0010814
%RSD	.2658063	.9947975	.2582759	.2998842	.5868188	.0951032	.5028092
#1	.9797639	1.993970	1.033475	2.433652	.9437173	2.349851	.2163018
#2	.9784268	1.955012	1.037379	2.430183	.9439654	2.345619	.2146033
#3	.9834587	1.979061	1.038600	2.444209	.9534648	2.346503	.2142931

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2055846	.2114270	13.30629	.3848648	.2140161	.6784661	3.594693
Stddev	.0010580	.0006259	.08857	.0024222	.0005860	.0001251	.028908
%RSD	.5146315	.2960453	.6656058	.6293498	.2737967	.0184324	.8041980
#1	.2065805	.2107471	13.38772	.3866180	.2133797	.6783313	3.616950
#2	.2044738	.2119793	13.31917	.3821010	.2145332	.6784884	3.605108
#3	.2056995	.2115546	13.21199	.3858753	.2141356	.6785784	3.562019

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2267309	5.618924	.5314706	.0920867	1351.959	.3213612	1.985471
Stddev	.0022671	.032941	.0015001	.0002348	9.323	.0012966	.004831
%RSD	.9999219	.5862458	.2822510	.2549686	.6896138	.4034543	.2433389
#1	.2292370	5.654918	.5297591	.0923524	1350.415	.3225523	1.990912
#2	.2261334	5.611577	.5320955	.0920007	1343.504	.3215512	1.983821
#3	.2248224	5.590278	.5325572	.0919070	1361.958	.3199802	1.981681

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.07602	.2935342	.4401834	.6687460	.2085938	6.238704	9.784636
Stddev	.02504	.0025386	.0012005	.0015312	.0013228	.010691	.032651
%RSD	.1312432	.8648558	.2727188	.2289679	.6341370	.1713648	.3336938
#1	19.07366	.2964495	.4401834	.6669907	.2100082	6.232511	9.748333
#2	19.10215	.2918107	.4389829	.6698079	.2083860	6.251049	9.811599
#3	19.05225	.2923424	.4413838	.6694392	.2073873	6.232552	9.793975

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

Sample Name: P4762-02A Acquired: 11/8/2024 17:39:15 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.581910	.2089537	.2632508
Stddev	.021645	.0010232	.0012554
%RSD	.3877693	.4896963	.4768697
#1	5.557628	.2100530	.2645516
#2	5.599177	.2087791	.2631543
#3	5.588926	.2080290	.2620465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.586	47328.21	12507.81	1447.952	3059.330
Stddev	12.042	27.21	58.16	8.485	22.524
%RSD	.5939115	.0574933	.4650110	.5859840	.7362321
#1	2038.225	47301.14	12441.77	1452.927	3084.514
#2	2030.021	47327.94	12530.26	1438.155	3052.364
#3	2014.513	47355.56	12551.40	1452.774	3041.112

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

Sample Name: PB164782BL Acquired: 11/8/2024 17:43:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000293	.0000344	-.000770	.0020138	-.001144	.0035832	-.005515
Stddev	.000389	.0009190	.000782	.0004966	.000755	.0012018	.000181
%RSD	132.7142	2672.437	101.5502	24.66251	65.97002	33.53954	3.281216
#1	-.000199	.0001091	-.001670	.0025873	-.001217	.0030494	-.005664
#2	-.000720	.0009138	-.000390	.0017261	-.001859	.0049594	-.005568
#3	.000041	-.000920	-.000251	.0017280	-.000355	.0027407	-.005314

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	-.000064	-.002058	.0001507	-.000110	.0000805	-.002152
Stddev	.0000620	.000014	.001119	.0003181	.000079	.0000740	.003220
%RSD	89.66446	22.42066	54.37935	211.1057	71.90608	91.90900	149.6248
#1	-.000002	-.000048	-.002111	.0002439	-.000137	.0000977	.001545
#2	.000104	-.000066	-.003150	.0004117	-.000021	-.000001	-.004338
#3	.000106	-.000077	-.000914	-.000204	-.000172	.000144	-.003663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000210	.0000219	-.000166	.0006489	.5343919	.0006749	-.000135
Stddev	.0000376	.0062091	.000116	.0001544	.0199212	.0012177	.000206
%RSD	179.0566	28322.79	69.87966	23.79236	3.727828	180.4357	152.0789
#1	.0000239	.0019171	-.000293	.0007731	.5122042	.0010364	-.000356
#2	-.000018	-.006914	-.000067	.0006976	.5507426	-.000683	-.000101
#3	.000057	.005063	-.000137	.0004761	.5402289	.001671	.000051

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0856704	-.001275	.0000253	-.000403	.0001733	-.007012	-.002076
Stddev	.0308548	.000276	.0001444	.000642	.0002585	.002177	.001858
%RSD	36.01571	21.60922	570.3225	159.2407	149.1140	31.04813	89.49512
#1	.0622568	-.001573	.0001561	-.000755	-.000123	-.008511	-.003162
#2	.0741207	-.001030	.0000496	-.000791	.000290	-.008010	.000069
#3	.1206339	-.001221	-.000130	.000338	.000353	-.004515	-.003134

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

Sample Name: PB164782BL Acquired: 11/8/2024 17:43:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001705	-.001503	.0000018
Stddev	.0031005	.001484	.0000186
%RSD	1818.928	98.74284	1023.962
#1	.0037461	-.002496	.0000198
#2	-.001774	.000203	-.000017
#3	-.001460	-.002216	.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2497.807	57638.76	13855.82	1773.491	4308.524
Stddev	9.377	640.41	37.90	14.321	13.558
%RSD	.3753938	1.111067	.2735061	.8075125	.3146866
#1	2508.502	58372.63	13885.04	1789.795	4324.071
#2	2490.999	57350.50	13813.00	1767.737	4302.342
#3	2493.920	57193.14	13869.41	1762.942	4299.158

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

Sample Name: PB164782BS Acquired: 11/8/2024 17:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7905786	2.023468	.9481535	1.986202	.7850258	1.976063
Stddev	.0012337	.028986	.0045276	.007594	.0033384	.034783
%RSD	.1560446	1.432504	.4775176	.3823377	.4252569	1.760214
#1	.7893086	2.001489	.9430574	1.983817	.7819155	1.935916
#2	.7906549	2.012596	.9496911	1.980087	.7846089	1.995119
#3	.7917724	2.056318	.9517121	1.994702	.7885530	1.997153

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1852959	.1913961	.1834911	.9720159	.3662842	.1892671
Stddev	.0029438	.0028192	.0008633	.0168647	.0015175	.0009419
%RSD	1.588707	1.472969	.4705039	1.735028	.4143008	.4976600
#1	.1818979	.1882248	.1828222	.9530178	.3646006	.1885643
#2	.1869175	.1923451	.1831853	.9778105	.3675466	.1888997
#3	.1870724	.1936183	.1844657	.9852195	.3667054	.1903373

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3086600	2.770248	.1889072	1.864583	.4737846	.0739982
Stddev	.0009120	.018561	.0031371	.046370	.0018945	.0001580
%RSD	.2954555	.6700214	1.660653	2.486899	.3998733	.2135748
#1	.3094892	2.753058	.1853421	1.814573	.4722069	.0739061
#2	.3076833	2.767758	.1901340	1.873021	.4732609	.0739078
#3	.3088075	2.789929	.1912456	1.906155	.4758859	.0741807

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.850621	.2902605	.2075151	9.511518	.2793236	.4007832
Stddev	.030577	.0044618	.0007457	.091052	.0054001	.0015205
%RSD	1.072638	1.537175	.3593473	.9572784	1.933271	.3793751
#1	2.815468	.2851939	.2069337	9.409724	.2733430	.3995795
#2	2.871051	.2919840	.2083559	9.585195	.2807857	.4002782
#3	2.865345	.2936034	.2072557	9.539635	.2838421	.4024919

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

Sample Name: PB164782BS Acquired: 11/8/2024 17:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6475357	.1885572	F .6768954	5.464582	F -.009662	.1763286
Stddev	.0041532	.0035511	.0047514	.037182	.002735	.0038921
%RSD	.6413914	1.883311	.7019428	.6804266	28.30099	2.207297
#1	.6445607	.1845758	.6733902	5.430194	-.012500	.1718742
#2	.6457657	.1896983	.6749927	5.459513	-.007044	.1780393
#3	.6522807	.1913975	.6823033	5.504039	-.009443	.1790724

Elem	Sr4077
Units	ppm
Avg	.1972387
Stddev	.0031643
%RSD	1.604306
#1	.1935859
#2	.1989891
#3	.1991411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.747	58313.49	13483.68	1817.041	4283.928
Stddev	4.238	80.62	158.50	6.119	7.713
%RSD	.1662076	.1382548	1.175459	.3367780	.1800410
#1	2546.734	58403.64	13663.49	1810.993	4287.965
#2	2554.593	58248.30	13423.30	1823.230	4288.785
#3	2547.915	58288.53	13364.25	1816.901	4275.035

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

Sample Name: P4732-01 Acquired: 11/8/2024 17:51:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024351	-.002845	.1263682	-.017376	5.411974	25.01441
Stddev	.0012761	.002444	.0021794	.002135	.020503	.20885
%RSD	52.40504	85.88255	1.724662	12.28935	.3788385	.8349342
#1	.0035900	-.000798	.1258670	-.015098	5.406796	24.97639
#2	.0026502	-.002187	.1244831	-.019333	5.394557	24.82718
#3	.0010651	-.005551	.1287546	-.017697	5.434570	25.23966

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2579692	.0019685	.0077400	39.17279	.0891957	.0245212
Stddev	.0022674	.0000180	.0000590	.35538	.0012258	.0001778
%RSD	.8789554	.9139214	.7619773	.9072118	1.374308	.7248971
#1	.2565689	.0019480	.0077479	38.94586	.0878719	.0243619
#2	.2567534	.0019815	.0077946	38.99016	.0894235	.0244889
#3	.2605852	.0019761	.0076774	39.58235	.0902916	.0247129

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1146886	75.58049	1.973327	8.714512	.0530574	.0010751
Stddev	.0008201	.53980	.020737	.068859	.0003025	.0000528
%RSD	.7150424	.7142051	1.050859	.7901637	.5701890	4.913638
#1	.1140453	75.13965	1.960673	8.687004	.0528327	.0010728
#2	.1144084	75.41930	1.962048	8.663659	.0534014	.0011290
#3	.1156120	76.18252	1.997258	8.792873	.0529380	.0010234

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.37156	.0452990	2.012215	6.826750	.0719928	.0134507
Stddev	.07749	.0008883	.009632	.062789	.0007434	.0002845
%RSD	.5041436	1.960913	.4786877	.9197525	1.032604	2.115243
#1	15.34240	.0462494	2.001497	6.833262	.0713948	.0136643
#2	15.31287	.0451579	2.015000	6.760958	.0717585	.0131278
#3	15.45940	.0444897	2.020147	6.886029	.0728251	.0135602

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

Sample Name: P4732-01 Acquired: 11/8/2024 17:51:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146499	.7455180	F 21.62231	.9758212	2.759106	.0295609
Stddev	.0013036	.0061744	.11886	.0066516	.014222	.0003603
%RSD	8.898463	.8282002	.5497073	.6816357	.5154498	1.218766
#1	.0142893	.7454710	21.61790	.9731604	2.743305	.0291947
#2	.0135646	.7393672	21.50572	.9709119	2.763133	.0295732
#3	.0160959	.7517157	21.74331	.9833912	2.770880	.0299149

Elem	Sr4077
Units	ppm
Avg	.1246982
Stddev	.0012913
%RSD	1.035561
#1	.1245421
#2	.1234920
#3	.1260605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2558.895	58815.70	14295.50	1835.253	3998.204
Stddev	5.972	98.61	74.24	11.245	1.715
%RSD	.2333916	.1676664	.5193044	.6127130	.0428996
#1	2552.391	58898.43	14335.06	1822.872	3996.490
#2	2564.131	58842.11	14341.59	1844.832	3999.921
#3	2560.165	58706.58	14209.86	1838.054	3998.200

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

Sample Name: P4737-01 Acquired: 11/8/2024 17:55:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360717	-.012061	.2472417	-.071906	-.000770	150.9113
Stddev	.0024345	.004487	.0017323	.002819	.000272	1.1215
%RSD	6.749080	37.20210	.7006388	3.921062	35.31437	.7431738
#1	.0386721	-.012436	.2472552	-.073090	-.001046	150.0216
#2	.0338466	-.016348	.2455027	-.073941	-.000502	150.5412
#3	.0356964	-.007398	.2489672	-.068688	-.000762	152.1711

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.602349	.0129567	.0520465	37.09058	.2615473	.1934086
Stddev	.010666	.0000697	.0004463	.33439	.0016208	.0010145
%RSD	.6656311	.5381909	.8575637	.9015605	.6196854	.5245507
#1	1.590036	.0128762	.0525306	36.70615	.2627892	.1945688
#2	1.608310	.0129947	.0516512	37.25145	.2597139	.1926881
#3	1.608703	.0129992	.0519577	37.31412	.2621388	.1929689

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3129741	296.9933	4.809183	69.93767	.3667882	-.000451
Stddev	.0021347	.7110	.046340	.72336	.0013694	.000163
%RSD	.6820723	.2394003	.9635642	1.034288	.3733571	36.06717
#1	.3154232	296.6729	4.755987	69.10308	.3683023	-.000625
#2	.3115074	296.4988	4.830782	70.32608	.3664259	-.000425
#3	.3119918	297.8081	4.840780	70.38386	.3656363	-.000303

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.491694	.3983568	.7387453	28.20206	.2212591	.0018381
Stddev	.004821	.0032188	.0035401	.06627	.0013079	.0001127
%RSD	.0877951	.8080154	.4792032	.2349806	.5911087	6.129304
#1	5.492962	.3952136	.7422652	28.22016	.2219661	.0017563
#2	5.495754	.4016462	.7387852	28.25741	.2197499	.0019666
#3	5.486365	.3982108	.7351853	28.12863	.2220613	.0017914

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

Sample Name: P4737-01 Acquired: 11/8/2024 17:55:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096830	3.822927	F 13.57428	9.073128	.9874939	.3491896
Stddev	.0003524	.031161	.17445	.032336	.0105022	.0018862
%RSD	3.639234	.8151046	1.285117	.3563878	1.063515	.5401749
#1	.0093256	3.786982	13.39436	9.110463	.9977825	.3472314
#2	.0100302	3.839497	13.74268	9.054830	.9879086	.3493429
#3	.0096931	3.842303	13.58581	9.054090	.9767905	.3509945

Elem	Sr4077
Units	ppm
Avg	-.086704
Stddev	.001175
%RSD	1.354950
#1	-.087859
#2	-.085511
#3	-.086742

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3130.112	71459.51	17598.89	2223.790	3669.789
Stddev	16.903	260.03	119.27	11.951	19.158
%RSD	.5400234	.3638869	.6777113	.5374211	.5220567
#1	3113.174	71375.97	17735.60	2228.931	3648.771
#2	3146.981	71251.52	17516.09	2210.129	3686.274
#3	3130.182	71751.05	17544.99	2232.311	3674.323

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

Sample Name: P4738-01 Acquired: 11/8/2024 18:00:14 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007450	-.003798	.0218035	.0106750	.0007148	4.595238	.0240254
Stddev	.001661	.000738	.0004616	.0010220	.0012959	.020788	.0004179
%RSD	22.29849	19.43786	2.116907	9.573816	181.2939	.4523778	1.739593
#1	-.009279	-.004209	.0221326	.0102533	.0018027	4.571918	.0236333
#2	-.007038	-.004238	.0212759	.0099313	.0010606	4.611824	.0244651
#3	-.006034	-.002945	.0220021	.0118403	-.000719	4.601973	.0239777

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002289	.0005523	3.514442	.0107159	.0142906	.0163629	5.365842
Stddev	.0000334	.0000354	.011778	.0001481	.0001724	.0002321	.040827
%RSD	14.58882	6.417185	.3351455	1.382209	1.206707	1.418222	.7608660
#1	.0002643	.0005114	3.501061	.0108497	.0141022	.0161074	5.339100
#2	.0001980	.0005703	3.523242	.0107411	.0143292	.0164208	5.412836
#3	.0002244	.0005751	3.519023	.0105567	.0144405	.0165605	5.345591

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2347760	1.632215	.0067676	.0007529	567.3043	.0086470	.0630790
Stddev	.0012885	.021849	.0000835	.0000806	5.2500	.0003270	.0001921
%RSD	.5488113	1.338598	1.233962	10.69788	.9254378	3.781096	.3044540
#1	.2332889	1.609439	.0067031	.0006683	569.8502	.0088959	.0628573
#2	.2354813	1.634207	.0068620	.0008286	570.7960	.0087683	.0631896
#3	.2355579	1.653000	.0067377	.0007619	561.2667	.0082767	.0631902

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.420303	.0058727	.0031721	.0100689	.0882627	4.378120	.2873026
Stddev	.015090	.0002023	.0001278	.0003603	.0000616	.144395	.0018278
%RSD	1.062471	3.444513	4.028881	3.578763	.0697449	3.298111	.6361872
#1	1.437727	.0056443	.0030258	.0097948	.0883221	4.542979	.2852028
#2	1.411501	.0060294	.0032286	.0099347	.0881992	4.317282	.2885368
#3	1.411680	.0059444	.0032620	.0104770	.0882669	4.274099	.2881682

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

Sample Name: P4738-01 Acquired: 11/8/2024 18:00:14 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.624702	.0013466	.0112234
Stddev	.013610	.0009005	.0000243
%RSD	.2942988	66.87591	.2163457
#1	4.632452	.0004645	.0112513
#2	4.608986	.0022646	.0112115
#3	4.632667	.0013107	.0112073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.452	51881.13	13269.41	1615.968	3412.833
Stddev	6.887	302.09	40.14	15.563	5.192
%RSD	.3134140	.5822648	.3024636	.9630572	.1521384
#1	2203.618	51762.05	13239.90	1610.604	3416.914
#2	2198.718	51656.73	13253.21	1603.797	3414.597
#3	2190.019	52224.61	13315.11	1633.503	3406.989

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

Sample Name: CCV05 Acquired: 11/8/2024 18:04:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.107424	5.276257	4.940548	5.284687	5.225004	9.884493	9.293933
Stddev	.112062	.113270	.125224	.111577	.120751	.076412	.089861
%RSD	2.194104	2.146791	2.534626	2.111328	2.311018	.7730516	.9668815
#1	4.996856	5.147651	4.809545	5.165274	5.099226	9.798288	9.293496
#2	5.104494	5.319934	4.953043	5.302503	5.235782	9.943885	9.204291
#3	5.220923	5.361187	5.059057	5.386284	5.340005	9.911305	9.384012

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2340836	2.429686	23.46705	.9064138	2.459302	1.288498	4.745965
Stddev	.0015683	.061137	.10813	.0075888	.063166	.030261	.004475
%RSD	.6699760	2.516258	.4607696	.8372337	2.568456	2.348553	.0942862
#1	.2322800	2.365535	23.34300	.8976852	2.393315	1.257533	4.751089
#2	.2351259	2.436242	23.51676	.9101085	2.465386	1.289959	4.742826
#3	.2348451	2.487281	23.54138	.9114477	2.519207	1.318002	4.743980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.276159	23.65031	2.459469	1.233966	23.36931	2.408472	2.544856
Stddev	.009521	.17022	.061793	.002273	.10161	.018978	.006493
%RSD	.4182848	.7197173	2.512443	.1841650	.4347979	.7879856	.2551265
#1	2.266574	23.45397	2.395365	1.231920	23.47257	2.386981	2.548181
#2	2.276287	23.74055	2.464385	1.236412	23.26944	2.415506	2.549012
#3	2.285614	23.75640	2.518657	1.233567	23.36592	2.422930	2.537374

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.84737	4.671789	5.153643	4.874601	4.692625	4.912559	4.997591
Stddev	.06679	.029790	.115756	.122173	.022798	.047096	.137232
%RSD	.2687914	.6376479	2.246099	2.506308	.4858321	.9586870	2.745967
#1	24.77239	4.637580	5.032728	4.748177	4.666642	4.864224	4.855144
#2	24.90047	4.692016	5.164766	4.883601	4.701956	4.915143	5.008695
#3	24.86926	4.685770	5.263437	4.992024	4.709278	4.958310	5.128933

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

Sample Name: CCV05 Acquired: 11/8/2024 18:04:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.839001	4.546148	4.840295
Stddev	.110997	.016719	.017526
%RSD	2.293808	.3677536	.3620903
#1	4.729818	4.534336	4.820366
#2	4.835456	4.538830	4.853309
#3	4.951728	4.565278	4.847211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.950	55593.81	13545.87	1706.230	3844.845
Stddev	45.590	61.56	39.74	17.316	80.694
%RSD	1.898826	.1107330	.2933421	1.014858	2.098762
#1	2449.234	55535.18	13591.07	1686.805	3931.231
#2	2394.974	55588.32	13516.46	1711.841	3831.893
#3	2358.644	55657.93	13530.07	1720.045	3771.410

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

Sample Name: CCB05 Acquired: 11/8/2024 18:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000643	.0014435	-.000123	.0009760	-.000587	.0049438	-.004363
Stddev	.002587	.0007928	.000459	.0007238	.000869	.0034932	.000193
%RSD	402.4904	54.91898	374.2746	74.16516	148.1500	70.65816	4.424570
#1	-.002633	.0018553	.000006	.0014207	-.001479	.0048848	-.004152
#2	.002281	.0019456	-.000632	.0013665	.000258	.0084662	-.004531
#3	-.001576	.0005296	.000258	.0001408	-.000539	.0014805	-.004407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000137	-.000045	.0036884	-.000031	.0000090	-.000377	.0041545
Stddev	.0000738	.000008	.0075153	.000357	.0000309	.000074	.0036681
%RSD	538.8979	17.86335	203.7530	1141.254	342.6088	19.64642	88.29060
#1	-.000062	-.000051	-.002718	-.000442	.0000176	-.000323	.0062800
#2	.000017	-.000036	.001822	.000204	-.000025	-.000345	-.000081
#3	.000086	-.000049	.011961	.000145	.000035	-.000461	.006265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001487	.0039391	.0001894	.0007135	.1038626	-.000444	.0000249
Stddev	.0000599	.0117833	.0001009	.0002277	.0160003	.000709	.0000642
%RSD	40.25983	299.1392	53.28290	31.91383	15.40521	159.8008	257.8813
#1	.0000955	-.003967	.0001010	.0009085	.0881995	.000289	-.000035
#2	.0002136	.017482	.0001679	.0004632	.1032082	-.001127	.000093
#3	.0001371	-.001698	.0002993	.0007688	.1201799	-.000495	.000017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0312293	.0019083	.0003317	.0001392	.0007505	.0009337	-.001837
Stddev	.0158028	.0001604	.0001149	.0006547	.0003475	.0033420	.000546
%RSD	50.60242	8.404287	34.64259	470.2516	46.30539	357.9340	29.74221
#1	.0151825	.0020831	.0003877	-.000589	.0010777	.0044408	-.002091
#2	.0317294	.0018739	.0001996	.000326	.0007881	.0005742	-.002209
#3	.0467762	.0017679	.0004080	.000680	.0003857	-.002214	-.001210

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

Sample Name: CCB05 Acquired: 11/8/2024 18:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002567	-.001559	.0001420
Stddev	.002300	.001348	.0000343
%RSD	89.59150	86.45798	24.13464
#1	-.002638	-.000458	.0001308
#2	-.000232	-.001156	.0001804
#3	-.004830	-.003062	.0001147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2577.670	58268.36	13520.71	1829.301	4448.610
Stddev	10.594	130.06	36.60	16.405	14.125
%RSD	.4109945	.2232028	.2706894	.8967686	.3175138
#1	2589.211	58181.34	13497.16	1823.708	4464.244
#2	2575.413	58205.87	13502.10	1816.424	4444.818
#3	2568.387	58417.87	13562.87	1847.770	4436.768

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

Sample Name: P4739-01 Acquired: 11/8/2024 18:13:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0933444	-.017106	.3327695	-.087493	-.000058	233.6389
Stddev	.0011468	.001318	.0049239	.005253	.002961	.3730
%RSD	1.228513	7.704273	1.479663	6.003908	5087.519	.1596431
#1	.0946642	-.017503	.3379370	-.089789	-.002523	233.3723
#2	.0927766	-.018180	.3322393	-.091208	-.000877	234.0652
#3	.0925923	-.015635	.3281322	-.081483	.003226	233.4794

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8678221	.0147784	.0531271	19.51290	.3236866	.1744499
Stddev	.0007192	.0001156	.0016266	.05077	.0014551	.0034725
%RSD	.0828755	.7823097	3.061771	.2601822	.4495339	1.990523
#1	.8682614	.0146802	.0547420	19.46280	.3251383	.1780489
#2	.8682128	.0147492	.0531501	19.56432	.3236933	.1741814
#3	.8669921	.0149059	.0514890	19.51158	.3222281	.1711195

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5799082	371.5889	6.120109	68.26872	.3135773	.0003627
Stddev	.0128671	.8364	.003654	.15509	.0061736	.0001312
%RSD	2.218808	.2250918	.0597032	.2271759	1.968757	36.18108
#1	.5926578	371.8199	6.116957	68.09403	.3198726	.0002783
#2	.5801400	372.2855	6.124114	68.39021	.3133263	.0002959
#3	.5669268	370.6612	6.119256	68.32191	.3075331	.0005139

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.45386	.5493850	.9023151	25.11026	.2413318	.0038498
Stddev	.11322	.0019561	.0097702	.06849	.0008827	.0001014
%RSD	.6486549	.3560516	1.082797	.2727438	.3657519	2.634884
#1	17.50746	.5493369	.9036914	25.14255	.2418095	.0039640
#2	17.53033	.5513647	.9113242	25.15663	.2418727	.0037702
#3	17.32380	.5474534	.8919297	25.03160	.2403133	.0038152

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

Sample Name: P4739-01 Acquired: 11/8/2024 18:13:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565223	5.581447	F 19.18239	6.979233	3.427947	.2965340
Stddev	.0017916	.001249	.07684	.124538	.059856	.0005551
%RSD	3.169737	.0223792	.4005839	1.784412	1.746132	.1871860
#1	.0585363	5.580173	19.14793	7.107115	3.486758	.2958955
#2	.0559250	5.581500	19.27043	6.972252	3.429985	.2969015
#3	.0551057	5.582669	19.12881	6.858332	3.367097	.2968051

Elem	Sr4077
Units	ppm
Avg	-.151096
Stddev	.000865
%RSD	.5722511
#1	-.151264
#2	-.151863
#3	-.150159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.543	61111.43	15303.15	1918.546	3612.374
Stddev	35.254	311.73	37.01	21.554	58.715
%RSD	1.314687	.5101081	.2418316	1.123455	1.625377
#1	2646.845	60899.63	15260.45	1910.155	3554.872
#2	2680.455	60965.27	15325.96	1902.450	3610.018
#3	2717.328	61469.39	15323.04	1943.034	3672.231

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

Sample Name: P4739-05 Acquired: 11/8/2024 18:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0876319	-.034994	.6084226	-.095743	-.000847	194.8672
Stddev	.0052920	.003088	.0016079	.001636	.001345	.3868
%RSD	6.038845	8.824699	.2642765	1.709023	158.8045	.1985027
#1	.0904598	-.036280	.6095865	-.095759	-.000701	195.2714
#2	.0815268	-.031471	.6065879	-.097371	-.002258	194.5004
#3	.0909092	-.037232	.6090935	-.094099	.000419	194.8300

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.138417	.0161165	.0700894	52.55249	.3614752	.2235415
Stddev	.003188	.0000113	.0006193	.03977	.0020559	.0007130
%RSD	.2800153	.0702960	.8835078	.0756791	.5687384	.3189370
#1	1.138889	.0161043	.0707654	52.53446	.3628517	.2234535
#2	1.135019	.0161267	.0695495	52.59809	.3624620	.2228766
#3	1.141342	.0161185	.0699533	52.52493	.3591120	.2242943

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7053203	385.6528	17.92704	78.47011	.3940977	-.000732
Stddev	.0033640	3.7643	.09808	.14446	.0011540	.000870
%RSD	.4769541	.9760969	.5471019	.1840918	.2928182	118.9258
#1	.7090678	381.9138	17.81420	78.31386	.3953815	-.001619
#2	.7025610	389.4420	17.97514	78.59880	.3931467	.000121
#3	.7043322	385.6026	17.99179	78.49767	.3937649	-.000697

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.978064	.5947832	1.739646	29.29373	.2371751	.0055454
Stddev	.018717	.0013486	.007229	.03977	.0033277	.0001566
%RSD	.3130960	.2267404	.4155358	.1357680	1.403033	2.824698
#1	5.990928	.5946911	1.735428	29.28549	.2337415	.0055788
#2	5.956592	.5961756	1.735516	29.25872	.2403855	.0056826
#3	5.986673	.5934831	1.747993	29.33697	.2373983	.0053747

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

Sample Name: P4739-05 Acquired: 11/8/2024 18:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509693	9.169489	F 19.01443	6.444675	F 20.65823	.3150179
Stddev	.0008083	.006185	.02463	.007994	.04688	.0007711
%RSD	1.585803	.0674552	.1295435	.1240465	.2269252	.2447844
#1	.0514616	9.165101	19.04098	6.436004	20.63509	.3149611
#2	.0514098	9.166802	19.01002	6.451752	20.62742	.3142767
#3	.0500365	9.176563	18.99231	6.446270	20.71218	.3158158

Elem	Sr4077
Units	ppm
Avg	-.093861
Stddev	.004298
%RSD	4.579528
#1	-.090080
#2	-.098536
#3	-.092967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2938.697	67720.31	16731.32	2103.584	3618.601
Stddev	9.338	85.37	8.15	13.874	9.011
%RSD	.3177716	.1260640	.0486892	.6595541	.2490296
#1	2936.262	67703.74	16740.28	2109.760	3617.756
#2	2930.817	67644.44	16724.37	2113.298	3610.042
#3	2949.011	67812.75	16729.30	2087.695	3628.005

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

Sample Name: P4739-09 Acquired: 11/8/2024 18:21:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1113246	-.029928	.9666056	-.073243	.0021083	156.5858
Stddev	.0017450	.006860	.0032943	.003550	.0002842	1.9288
%RSD	1.567481	22.92219	.3408083	4.847474	13.47749	1.231768
#1	.1113470	-.024988	.9687440	-.073695	.0022721	154.3587
#2	.1130583	-.027036	.9628120	-.069488	.0017802	157.6911
#3	.1095686	-.037761	.9682610	-.076546	.0022726	157.7077

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.030550	.0160050	.0538917	47.55100	.3163524	.1764649
Stddev	.025740	.0001247	.0002589	.39893	.0009410	.0008656
%RSD	1.267661	.7791791	.4805027	.8389485	.2974505	.4905217
#1	2.004015	.0158939	.0535927	47.11051	.3152761	.1774587
#2	2.055415	.0161399	.0540451	47.88794	.3167615	.1760604
#3	2.032221	.0159813	.0540372	47.65456	.3170196	.1758757

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4755761	298.2270	5.029180	80.75335	.3454707	.0021268
Stddev	.0015318	2.6470	.045655	.81935	.0003787	.0002788
%RSD	.3220908	.8875670	.9078035	1.014636	.1096173	13.10983
#1	.4745898	301.2813	4.981288	79.82218	.3459080	.0024319
#2	.4773408	296.6018	5.072209	81.36394	.3452511	.0020630
#3	.4747978	296.7978	5.034042	81.07393	.3452531	.0018853

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.591671	.5435092	1.549152	30.30193	.2119355	.0053281
Stddev	.054289	.0056428	.004940	.11357	.0053091	.0007380
%RSD	.7151067	1.038215	.3188998	.3748082	2.505041	13.85089
#1	7.634827	.5370271	1.554854	30.36138	.2180649	.0059429
#2	7.609470	.5473232	1.546440	30.37345	.2087784	.0045097
#3	7.530718	.5461772	1.546161	30.17097	.2089631	.0055316

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

Sample Name: P4739-09 Acquired: 11/8/2024 18:21:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458746	6.880958	F 14.13776	8.172244	1.402198	.3276149
Stddev	.0009305	.076954	.05795	.025862	.011368	.0050900
%RSD	2.028391	1.118363	.4099201	.3164600	.8107428	1.553649
#1	.0457263	6.799860	14.07829	8.201724	1.403903	.3231849
#2	.0450272	6.952960	14.19406	8.161630	1.412618	.3331749
#3	.0468704	6.890053	14.14092	8.153377	1.390074	.3264848

Elem	Sr4077
Units	ppm
Avg	-.081337
Stddev	.005072
%RSD	6.235496
#1	-.087002
#2	-.077221
#3	-.079786

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.433	70620.42	17424.41	2164.969	3673.241
Stddev	4.689	500.30	94.03	22.286	7.983
%RSD	.1533987	.7084418	.5396266	1.029387	.2173243
#1	3051.052	70042.96	17525.59	2139.411	3664.072
#2	3059.639	70894.58	17339.73	2175.150	3678.646
#3	3058.609	70923.72	17407.89	2180.347	3677.006

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

Sample Name: P4739-13 Acquired: 11/8/2024 18:26:17 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496674	-.017210	.5724619	-.056079	.0018606	116.8944
Stddev	.0020108	.001689	.0021527	.003120	.0014667	.2668
%RSD	4.048547	9.816916	.3760406	5.564391	78.83265	.2282569
#1	.0473705	-.017523	.5745169	-.057889	.0026617	116.5981
#2	.0505212	-.018720	.5726456	-.057871	.0001677	116.9693
#3	.0511103	-.015385	.5702233	-.052476	.0027523	117.1157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024789	.0083003	.0354374	181.9585	.1791016	.1447535
Stddev	.003507	.0001209	.0000313	.7308	.0004759	.0002823
%RSD	.3421970	1.456883	.0884024	.4016335	.2657232	.1950195
#1	1.022094	.0082821	.0354130	181.2762	.1796354	.1450493
#2	1.023518	.0081895	.0354727	181.8697	.1789480	.1444870
#3	1.028754	.0084293	.0354265	182.7297	.1787215	.1447242

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5773051	237.9270	3.594739	58.98817	.2273011	.0012602
Stddev	.0014408	1.2487	.016039	.23634	.0005005	.0003061
%RSD	.2495754	.5248358	.4461758	.4006490	.2201788	24.29027
#1	.5783630	236.5567	3.582032	58.72574	.2275177	.0009071
#2	.5756641	238.2234	3.589425	59.05457	.2267288	.0014222
#3	.5778881	239.0008	3.612761	59.18421	.2276568	.0014512

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.18764	.5025907	1.307814	18.53194	1.556386	.0054548
Stddev	.05898	.0036574	.003860	.04448	.005538	.0003429
%RSD	.4156944	.7277180	.2951712	.2400404	.3558176	6.285199
#1	14.14307	.5003183	1.306907	18.48117	1.557365	.0053762
#2	14.16535	.5006441	1.312048	18.55056	1.550424	.0051582
#3	14.25452	.5068098	1.304489	18.56409	1.561369	.0058302

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

Sample Name: P4739-13 Acquired: 11/8/2024 18:26:17 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392995	4.361678	F 22.37377	5.951450	4.237137	.2106040
Stddev	.0013832	.013864	.08169	.012643	.003062	.0009178
%RSD	3.519512	.3178504	.3651182	.2124411	.0722690	.4357969
#1	.0382572	4.353320	22.27986	5.939138	4.235790	.2116609
#2	.0387726	4.354033	22.41301	5.964400	4.240642	.2100077
#3	.0408686	4.377681	22.42844	5.950811	4.234980	.2101433

Elem	Sr4077
Units	ppm
Avg	.5151282
Stddev	.0058921
%RSD	1.143821
#1	.5215300
#2	.5139225
#3	.5099322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.912	60492.51	15258.95	1837.487	3554.172
Stddev	8.043	30.66	35.38	4.076	2.200
%RSD	.3117593	.0506807	.2318442	.2218319	.0619114
#1	2584.843	60464.28	15223.76	1841.462	3556.535
#2	2584.263	60488.13	15294.51	1833.317	3553.798
#3	2570.631	60525.12	15258.57	1837.682	3552.182

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

Sample Name: P4739-13DUP Acquired: 11/8/2024 18:30:29 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508205	-.014927	.5686713	-.060176	.0025719	118.0441
Stddev	.0027353	.005289	.0012722	.002718	.0007889	.6235
%RSD	5.382271	35.43473	.2237093	4.516561	30.67404	.5281999
#1	.0487072	-.008981	.5685117	-.062667	.0028140	117.8057
#2	.0498443	-.016693	.5700157	-.057277	.0032115	118.7517
#3	.0539100	-.019108	.5674864	-.060584	.0016904	117.5750

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.042825	.0084663	.0347297	183.9010	.1815744	.1443810
Stddev	.006168	.0001141	.0001121	.5213	.0005056	.0004597
%RSD	.5914656	1.347229	.3227931	.2834674	.2784304	.3184193
#1	1.042756	.0083450	.0348503	183.3483	.1810048	.1438627
#2	1.049027	.0085714	.0347099	184.3838	.1819700	.1447394
#3	1.036692	.0084824	.0346287	183.9708	.1817483	.1445410

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5640822	243.2587	3.644717	59.72107	.2261818	.0019893
Stddev	.0008432	.4081	.007440	.12805	.0006611	.0004101
%RSD	.1494796	.1677615	.2041222	.2144140	.2922999	20.61538
#1	.5632105	243.4375	3.639136	59.57396	.2254321	.0015384
#2	.5648936	242.7917	3.653163	59.78176	.2266815	.0020893
#3	.5641426	243.5468	3.641852	59.80749	.2264317	.0023401

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.62900	.5097099	1.310302	18.95149	1.580514	.0056175
Stddev	.10624	.0013492	.002140	.05927	.004397	.0001256
%RSD	.7262283	.2646985	.1633106	.3127674	.2782260	2.236139
#1	14.72880	.5101042	1.311138	18.99299	1.577580	.0056595
#2	14.64087	.5108180	1.311897	18.97787	1.585570	.0054763
#3	14.51732	.5082075	1.307870	18.88360	1.578393	.0057168

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

Sample Name: P4739-13DUP Acquired: 11/8/2024 18:30:29 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0386473	4.439329	F 23.21572	5.921314	4.163648	.2145466
Stddev	.0010801	.017346	.02289	.014323	.016770	.0013894
%RSD	2.794762	.3907280	.0985779	.2418881	.4027726	.6475796
#1	.0376507	4.436312	23.19973	5.904993	4.156032	.2155407
#2	.0384962	4.457985	23.24193	5.931791	4.152037	.2151399
#3	.0397950	4.423689	23.20550	5.927159	4.182874	.2129591

Elem	Sr4077
Units	ppm
Avg	.5185021
Stddev	.0076092
%RSD	1.467538
#1	.5138298
#2	.5272824
#3	.5143940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.837	59837.94	15195.04	1844.096	3615.151
Stddev	4.040	175.38	62.88	9.516	3.571
%RSD	.1531372	.2930880	.4138479	.5160198	.0987739
#1	2635.575	59690.43	15206.48	1834.647	3617.083
#2	2635.436	59791.53	15127.22	1843.963	3611.030
#3	2642.501	60031.86	15251.42	1853.677	3617.340

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

Sample Name: P4739-13LX5 Acquired: 11/8/2024 18:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105871	-.005041	.1241224	-.011214	-.000489	26.40100	.2324085
Stddev	.0019724	.000995	.0007746	.001680	.001245	.28976	.0033147
%RSD	18.63059	19.74220	.6241045	14.98306	254.4770	1.097533	1.426229
#1	.0097273	-.006164	.1233269	-.010115	-.000976	26.09172	.2285879
#2	.0128434	-.004267	.1248744	-.013148	.000925	26.44512	.2341209
#3	.0091905	-.004693	.1241659	-.010379	-.001416	26.66618	.2345167

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020773	.0055825	43.21201	.0429211	.0297124	.1384904	55.27777
Stddev	.0000175	.0001170	.58417	.0005433	.0001880	.0002436	.23467
%RSD	.8422708	2.095265	1.351876	1.265897	.6326811	.1759203	.4245364
#1	.0020946	.0055398	42.58724	.0435395	.0295193	.1387708	55.00710
#2	.0020776	.0054929	43.30416	.0427036	.0297232	.1383303	55.40192
#3	.0020596	.0057149	43.74463	.0425203	.0298948	.1383702	55.42428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8793576	13.83916	.0478123	.0008098	2.870054	.1183857	.2988432
Stddev	.0113914	.18387	.0001945	.0000349	.007182	.0017537	.0004483
%RSD	1.295424	1.328601	.4068209	4.312431	.2502512	1.481342	.1500238
#1	.8662121	13.62935	.0476774	.0008291	2.868348	.1167838	.2984078
#2	.8855290	13.91595	.0480353	.0008309	2.877936	.1181139	.2988183
#3	.8863316	13.97219	.0477242	.0007695	2.863878	.1202595	.2993034

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.941290	.3941366	.0014791	.0048363	1.034010	4.860976	1.209192
Stddev	.024733	.0036946	.0002925	.0000761	.013817	.019848	.005990
%RSD	.6275363	.9373834	19.77879	1.573491	1.336237	.4083090	.4953374
#1	3.912837	.3904119	.0017013	.0048957	1.018347	4.839553	1.202413
#2	3.953393	.3941975	.0015884	.0047505	1.039217	4.864638	1.213768
#3	3.957642	.3978003	.0011477	.0048626	1.044467	4.878738	1.211394

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

Sample Name: P4739-13LX5 Acquired: 11/8/2024 18:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8539224	.0457721	.1203422
Stddev	.0031056	.0004650	.0015673
%RSD	.3636829	1.015849	1.302394
#1	.8564118	.0462683	.1185408
#2	.8549130	.0457017	.1210925
#3	.8504423	.0453464	.1213933

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.354	58318.44	13720.49	1847.004	4047.475
Stddev	12.767	70.52	105.64	4.660	9.835
%RSD	.4949652	.1209139	.7699598	.2522979	.2429859
#1	2564.911	58237.24	13834.84	1842.108	4037.450
#2	2589.134	58364.21	13700.11	1847.519	4057.108
#3	2584.017	58353.88	13626.53	1851.385	4047.869

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

Sample Name: P4739-13MS Acquired: 11/8/2024 18:38:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7480864	1.789016	1.450305	1.615146	.6937164	119.3590
Stddev	.0061902	.020659	.004548	.002914	.0009708	.2736
%RSD	.8274762	1.154759	.3135995	.1804417	.1399347	.2292050
#1	.7473399	1.767785	1.446994	1.618422	.6925975	119.6745
#2	.7546160	1.809050	1.448431	1.614174	.6943349	119.1863
#3	.7423032	1.790213	1.455491	1.612842	.6942167	119.2164

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.208454	.1687680	.2147263	185.3490	.4837590	.3299332
Stddev	.002907	.0005480	.0008654	.2813	.0021861	.0012372
%RSD	.2405866	.3247210	.4030110	.1517800	.4518882	.3749711
#1	1.211808	.1693401	.2137606	185.3933	.4862644	.3291531
#2	1.206903	.1687161	.2149867	185.0482	.4822399	.3292869
#3	1.206651	.1682478	.2154316	185.6056	.4827727	.3313597

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8105834	237.1377	3.825458	61.44370	.6842205	.0667090
Stddev	.0017441	1.5093	.005732	.15274	.0022041	.0003841
%RSD	.2151690	.6364689	.1498473	.2485900	.3221280	.5757438
#1	.8086411	235.5590	3.825458	61.41823	.6827519	.0665966
#2	.8110936	237.2877	3.819726	61.30529	.6831547	.0663936
#3	.8120156	238.5664	3.831191	61.60758	.6867549	.0671367

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.72178	.7571499	1.457792	27.03367	1.796155	.3507412
Stddev	.03299	.0034731	.001424	.13416	.003128	.0004582
%RSD	.1972930	.4587019	.0976967	.4962714	.1741699	.1306444
#1	16.69536	.7609959	1.456535	26.91556	1.799621	.3502321
#2	16.71121	.7542427	1.459339	27.00590	1.795301	.3508709
#3	16.75876	.7562111	1.457502	27.17954	1.793542	.3511206

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

Sample Name: P4739-13MS Acquired: 11/8/2024 18:38:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6690112	4.589111	F 22.58885	F 11.80656	4.173904	.3749924
Stddev	.0037529	.004696	.12259	.04068	.014784	.0019813
%RSD	.5609558	.1023263	.5426836	.3445934	.3542126	.5283576
#1	.6648830	4.594231	22.45905	11.76647	4.156864	.3771055
#2	.6699341	4.585005	22.60484	11.80541	4.181523	.3731765
#3	.6722166	4.588096	22.70265	11.84781	4.183325	.3746951

Elem	Sr4077
Units	ppm
Avg	.6943814
Stddev	.0010203
%RSD	.1469429
#1	.6945556
#2	.6953034
#3	.6932852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.267	61013.15	14858.09	1866.425	3587.392
Stddev	3.018	212.58	48.62	12.728	5.033
%RSD	.1148384	.3484220	.3272159	.6819676	.1403087
#1	2625.668	61195.56	14803.83	1879.607	3591.226
#2	2627.555	61064.21	14897.67	1865.464	3589.258
#3	2631.577	60779.69	14872.78	1854.205	3581.692

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

Sample Name: P4739-13MSD Acquired: 11/8/2024 18:42:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7536263	1.772921	1.453924	1.632081	.7029402	119.0799
Stddev	.0036144	.018407	.008200	.008839	.0011155	1.6056
%RSD	.4795984	1.038241	.5640223	.5415722	.1586916	1.348380
#1	.7541132	1.753216	1.444460	1.626400	.7018009	117.2277
#2	.7569725	1.775875	1.458933	1.627578	.7029896	120.0776
#3	.7497932	1.789673	1.458377	1.642265	.7040303	119.9343

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.191759	.1676765	.2157250	184.0435	.4836636	.3316062
Stddev	.015322	.0014119	.0005700	3.1187	.0013334	.0005021
%RSD	1.285665	.8420439	.2642210	1.694531	.2756838	.1514180
#1	1.174240	.1660632	.2151075	180.4531	.4821244	.3310841
#2	1.202656	.1686867	.2158365	185.5974	.4844012	.3320855
#3	1.198382	.1682795	.2162311	186.0799	.4844652	.3316490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8172570	237.4245	3.767653	61.30786	.6878899	.0671778
Stddev	.0008867	2.1666	.062707	1.10958	.0025699	.0005660
%RSD	.1084930	.9125367	1.664361	1.809848	.3735868	.8425269
#1	.8177091	235.0630	3.695289	60.03091	.6849966	.0667472
#2	.8162354	237.8898	3.801631	61.85574	.6899073	.0669673
#3	.8178265	239.3206	3.806038	62.03693	.6887657	.0678189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.73794	.7533694	1.463071	27.14934	1.786604	.3547587
Stddev	.04206	.0108590	.003860	.10687	.018601	.0003367
%RSD	.2512750	1.441392	.2638440	.3936549	1.041139	.0949034
#1	16.69272	.7410391	1.462442	27.02594	1.765699	.3547236
#2	16.77590	.7575620	1.467208	27.21141	1.801326	.3544409
#3	16.74519	.7615072	1.459565	27.21068	1.792787	.3551115

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

Sample Name: P4739-13MSD Acquired: 11/8/2024 18:42:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6736447	4.562516	F 23.27672	F 11.76824	4.177820	.3666673
Stddev	.0019065	.061633	.16126	.02613	.017161	.0040646
%RSD	.2830061	1.350846	.6928089	.2220333	.4107620	1.108524
#1	.6715218	4.491587	23.11810	11.73964	4.159920	.3619941
#2	.6752108	4.603025	23.27154	11.77421	4.179411	.3693808
#3	.6742015	4.592935	23.44051	11.79086	4.194131	.3686269

Elem	Sr4077
Units	ppm
Avg	.6863194
Stddev	.0118097
%RSD	1.720721
#1	.6728940
#2	.6909619
#3	.6951024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.155	60775.55	14997.91	1854.724	3568.752
Stddev	7.027	69.08	142.43	2.814	3.425
%RSD	.2699494	.1136584	.9496794	.1517009	.0959745
#1	2597.390	60827.32	15160.86	1851.541	3566.838
#2	2610.983	60802.22	14897.14	1856.879	3572.707
#3	2601.093	60697.12	14935.74	1855.752	3566.713

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

Sample Name: P4739-13A Acquired: 11/8/2024 18:47:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7547354	1.767153	1.439959	1.632150	.7067308	120.5812
Stddev	.0023183	.028120	.003838	.006653	.0009641	.0349
%RSD	.3071672	1.591273	.2665166	.4076360	.1364234	.0289070
#1	.7532764	1.787208	1.440519	1.637651	.7073411	120.5732
#2	.7574086	1.779242	1.443486	1.624755	.7056193	120.5511
#3	.7535213	1.735010	1.435872	1.634043	.7072319	120.6194

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.208336	.1653859	.2144646	184.5832	.4763130	.3297805
Stddev	.004133	.0005138	.0005279	.5674	.0023576	.0005927
%RSD	.3420546	.3106679	.2461571	.3073904	.4949608	.1797359
#1	1.204437	.1659183	.2149749	184.9219	.4738729	.3302117
#2	1.207902	.1653465	.2144984	184.8995	.4764879	.3300252
#3	1.212669	.1648930	.2139207	183.9282	.4785783	.3291046

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8133721	236.8666	3.781415	61.45449	.6817194	.0664303
Stddev	.0020589	.8109	.008281	.18708	.0009897	.0003735
%RSD	.2531272	.3423522	.2190004	.3044190	.1451784	.5622239
#1	.8144373	235.9766	3.786724	61.62103	.6823782	.0660006
#2	.8109988	237.0594	3.785649	61.49037	.6821986	.0666141
#3	.8146800	237.5637	3.771873	61.25207	.6805813	.0666764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.92991	.7567729	1.456549	27.45414	1.778055	.3536712
Stddev	.11912	.0014745	.004778	.20604	.007714	.0007729
%RSD	.7036170	.1948344	.3280287	.7505024	.4338200	.2185372
#1	16.82521	.7567435	1.460842	27.25804	1.782337	.3536223
#2	16.90498	.7582618	1.457405	27.43552	1.782677	.3529239
#3	17.05952	.7553133	1.451401	27.66887	1.769150	.3544674

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

Sample Name: P4739-13A Acquired: 11/8/2024 18:47:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6642025	4.628094	F 23.71465	F 11.57091	4.134876	.3734742
Stddev	.0016834	.006798	.11363	.00164	.010086	.0014418
%RSD	.2534439	.1468793	.4791624	.0141768	.2439184	.3860396
#1	.6658291	4.622454	23.60406	11.57222	4.143296	.3729166
#2	.6624676	4.635642	23.70880	11.57143	4.137633	.3723944
#3	.6643106	4.626186	23.83109	11.56907	4.123698	.3751115

Elem	Sr4077
Units	ppm
Avg	.6992838
Stddev	.0028091
%RSD	.4017043
#1	.7015134
#2	.7002091
#3	.6961288

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.776	60859.75	14962.75	1831.626	3551.701
Stddev	2.741	67.02	89.27	12.071	7.288
%RSD	.1061956	.1101287	.5966077	.6590305	.2051913
#1	2583.053	60803.87	14867.80	1820.253	3551.597
#2	2581.542	60934.06	14975.49	1830.335	3544.465
#3	2577.734	60841.32	15044.97	1844.291	3559.040

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

Sample Name: PB164757BL Acquired: 11/8/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000194	-.000590	-.001191	.0007527	-.000444	.0053073	-.004526
Stddev	.0007130	.001025	.000693	.0016961	.000260	.0034874	.000545
%RSD	3671.620	173.7851	58.18439	225.3484	58.56717	65.70943	12.05262
#1	.0000157	-.000541	-.000586	.0014209	-.000147	.0028212	-.005154
#2	-.000692	-.001639	-.001948	-.001176	-.000631	.0038069	-.004173
#3	.000734	.000410	-.001041	.002013	-.000554	.0092938	-.004250

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000205	-.000078	.0045044	.0000196	.0000921	-.000125	.0055367
Stddev	.0000267	.000017	.0037805	.0003155	.0000695	.000351	.0014999
%RSD	130.3630	21.87863	83.92934	1611.549	75.38597	281.7282	27.09012
#1	.0000075	-.000060	.0088626	-.000342	.0000520	.000257	.0039185
#2	.0000512	-.000094	.0021104	.000166	.0001723	-.000198	.0058112
#3	.0000028	-.000078	.0025401	.000235	.0000521	-.000434	.0068804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000934	.0049970	-.000282	.0008736	-.103599	.0001778	.0001499
Stddev	.0001373	.0025830	.000059	.0002125	.024072	.0010707	.0002316
%RSD	147.0014	51.69204	21.01553	24.32013	23.23599	602.2591	154.4913
#1	.0002416	.0029389	-.000224	.0008987	-.128331	.0011994	-.000063
#2	-.000029	.0078955	-.000342	.0006497	-.102221	.0002700	.000116
#3	.000068	.0041564	-.000281	.0010724	-.080245	-.000936	.000397

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017570	.0025817	.0002772	-.000100	.0006404	.0066682	-.002737
Stddev	.0051182	.0001421	.0000439	.000155	.0002735	.0029099	.000490
%RSD	291.2970	5.502670	15.82193	156.2222	42.71245	43.63829	17.89099
#1	.0057847	.0026169	.0003278	.000070	.0008471	.0068330	-.002484
#2	.0034888	.0024253	.0002548	-.000235	.0007440	.0036794	-.003302
#3	-.004002	.0027028	.0002491	-.000134	.0003302	.0094922	-.002426

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

Sample Name: PB164757BL Acquired: 11/8/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000599	-.001798	-.000001
Stddev	.003851	.001103	.000019
%RSD	643.4633	61.33869	3552.628
#1	.002164	-.002947	-.000022
#2	.001039	-.001699	.000008
#3	-.004998	-.000748	.000013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.685	58700.91	13771.01	1826.760	4526.273
Stddev	19.014	99.70	31.62	7.250	28.628
%RSD	.7272035	.1698465	.2296477	.3968661	.6324785
#1	2599.810	58618.52	13771.49	1818.675	4503.107
#2	2636.108	58672.47	13802.39	1828.921	4558.278
#3	2608.136	58811.74	13739.14	1832.683	4517.433

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

Sample Name: CCV06 Acquired: 11/8/2024 18:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.973032	4.987696	4.832327	5.100525	5.066308	9.786154	9.460703
Stddev	.016798	.001293	.005138	.009651	.009545	.050296	.102976
%RSD	.3377773	.0259206	.1063336	.1892205	.1883932	.5139555	1.088456
#1	4.958441	4.987359	4.835899	5.090539	5.055293	9.728080	9.442254
#2	4.969258	4.986604	4.826439	5.101233	5.072138	9.815658	9.368199
#3	4.991395	4.989123	4.834644	5.109803	5.071492	9.814725	9.571656

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2364276	2.364460	23.48257	.9227121	2.401380	1.254936	4.699845
Stddev	.0007745	.002483	.19816	.0042552	.003165	.001430	.023156
%RSD	.3275702	.1050287	.8438570	.4611665	.1318074	.1139659	.4927016
#1	.2355739	2.364071	23.26471	.9269042	2.400989	1.253412	4.679455
#2	.2366241	2.362195	23.65208	.9183965	2.398428	1.255148	4.695059
#3	.2370850	2.367115	23.53092	.9228357	2.404723	1.256248	4.725020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.290367	23.45581	2.401504	1.223636	23.92028	2.386386	2.532747
Stddev	.019414	.26485	.002637	.003034	.11162	.021473	.005047
%RSD	.8476321	1.129158	.1098044	.2479409	.4666277	.8998114	.1992724
#1	2.267950	23.15005	2.401986	1.225688	23.81762	2.361610	2.526929
#2	2.301434	23.60324	2.398659	1.220151	23.90413	2.399611	2.535951
#3	2.301716	23.61416	2.403867	1.225069	24.03910	2.397938	2.535361

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.51189	4.725685	5.002273	4.764395	4.683282	4.856506	4.976206
Stddev	.09427	.020913	.011318	.001378	.033088	.061834	.008537
%RSD	.3845929	.4425435	.2262494	.0289145	.7065104	1.273226	.1715492
#1	24.43455	4.705399	4.989268	4.764089	4.645158	4.789360	4.985679
#2	24.48423	4.747174	5.009889	4.763196	4.700179	4.869053	4.973831
#3	24.61690	4.724481	5.007662	4.765900	4.704511	4.911103	4.969109

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

Sample Name: CCV06 Acquired: 11/8/2024 18:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.739007	4.634864	4.821011
Stddev	.008462	.033964	.013752
%RSD	.1785649	.7327968	.2852526
#1	4.730504	4.595885	4.806220
#2	4.739089	4.650609	4.823402
#3	4.747428	4.658098	4.833411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2453.090	55866.26	13421.23	1756.504	3910.332
Stddev	2.356	39.42	68.37	9.738	5.919
%RSD	.0960406	.0705680	.5094096	.5543685	.1513727
#1	2454.967	55894.30	13486.33	1765.054	3904.211
#2	2450.446	55883.30	13350.01	1745.905	3916.026
#3	2453.857	55821.18	13427.37	1758.553	3910.759

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

Sample Name: CCB06 Acquired: 11/8/2024 18:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001439	-.000732	.0003308	.0003483	-.000529	.0066374	-.003587
Stddev	.002585	.001831	.0006192	.0008202	.000988	.0015625	.000311
%RSD	179.6106	250.1261	187.1799	235.5136	186.8611	23.54137	8.672715
#1	-.000777	.000413	-.000009	.0012829	.000608	.0051791	-.003941
#2	-.004291	-.002843	-.000044	-.000252	-.001007	.0082866	-.003360
#3	.000750	.000234	.001046	.000013	-.001187	.0064466	-.003459

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000577	.0000169	.0243930	.0000471	.0001525	.0000417	.0004135
Stddev	.0000257	.0000239	.0001877	.0004512	.0000378	.0002410	.0035470
%RSD	44.65211	141.0141	.7696564	957.8616	24.80881	578.6253	857.7458
#1	.0000422	.0000382	.0246071	-.000037	.0001280	.0000294	.0020797
#2	.0000874	-.000009	.0242568	.000534	.0001334	-.000193	-.003660
#3	.0000434	.000021	.0243151	-.000356	.0001961	.000289	.002821

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000400	.0064770	.0002454	.0007461	-.121524	-.000142	.0016652
Stddev	.0001970	.0097847	.0001310	.0001457	.041066	.001521	.0000588
%RSD	492.9750	151.0697	53.39592	19.52224	33.79279	1074.029	3.530798
#1	.0002529	.0129602	.0001350	.0007933	-.168934	.000748	.0015992
#2	.0000027	.0112489	.0003902	.0008624	-.098616	.000725	.0016846
#3	-.000136	-.004778	.0002110	.0005827	-.097021	-.001898	.0017119

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006410	.0047547	.0004828	-.000379	.0004593	.0042351	-.005820
Stddev	.021947	.0001587	.0002200	.000671	.0001432	.0021560	.000431
%RSD	342.3989	3.336688	45.56998	177.1339	31.17290	50.90753	7.402549
#1	-.030511	.0047838	.0005469	-.000608	.0003099	.0057992	-.005561
#2	-.001144	.0045835	.0006635	.000377	.0004726	.0051304	-.005581
#3	.012426	.0048967	.0002378	-.000905	.0005954	.0017757	-.006317

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

Sample Name: CCB06 Acquired: 11/8/2024 18:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0057483	-.001579	.0000911
Stddev	.0016401	.001176	.0000239
%RSD	28.53219	74.46482	26.26156
#1	.0076036	-.002462	.0001185
#2	.0051501	-.002032	.0000741
#3	.0044913	-.000244	.0000807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.573	60230.51	13659.33	1898.399	4475.482
Stddev	3.123	1563.60	28.14	48.963	8.208
%RSD	.1198583	2.596022	.2060431	2.579190	.1833903
#1	2602.328	62027.86	13681.76	1954.703	4468.120
#2	2605.833	59183.55	13668.47	1865.799	4473.995
#3	2608.558	59480.13	13627.75	1874.695	4484.331

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

Sample Name: PB164757BS Acquired: 11/8/2024 19:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7863808	2.005408	.9419758	1.965596	.7789009	1.983995
Stddev	.0063946	.028330	.0073145	.012799	.0032606	.027071
%RSD	.8131736	1.412657	.7765053	.6511339	.4186162	1.364485
#1	.7835468	2.004625	.9434740	1.969843	.7777180	1.952787
#2	.7937028	2.034122	.9484252	1.975732	.7825878	1.998041
#3	.7818930	1.977479	.9340282	1.951214	.7763968	2.001157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1839426	.1943684	.1819490	.9802538	.3615632	.1882771
Stddev	.0027204	.0030570	.0014682	.0179991	.0060895	.0015986
%RSD	1.478960	1.572796	.8069455	1.836168	1.684206	.8490790
#1	.1809014	.1908424	.1821339	.9594910	.3545356	.1882715
#2	.1861444	.1959857	.1833160	.9914396	.3652814	.1898785
#3	.1847821	.1962769	.1803971	.9898308	.3648725	.1866813

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3052753	2.708093	.1886819	1.886689	.4715683	.0730141
Stddev	.0027324	.052214	.0020379	.022452	.0039432	.0014500
%RSD	.8950712	1.928089	1.080079	1.189995	.8361829	1.985939
#1	.3060460	2.650960	.1865163	1.860924	.4725233	.0713528
#2	.3075395	2.753341	.1905621	1.902060	.4749462	.0736643
#3	.3022402	2.719977	.1889674	1.897083	.4672353	.0740253

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.481973	.2890202	.2050824	9.233718	.2852604	.3990053
Stddev	.048313	.0052482	.0042302	.139533	.0048193	.0028047
%RSD	1.946550	1.815858	2.062687	1.511124	1.689440	.7029288
#1	2.427090	.2830136	.2003732	9.075933	.2796957	.3990984
#2	2.500751	.2913280	.2063137	9.284372	.2880057	.4017623
#3	2.518077	.2927191	.2085604	9.340848	.2880799	.3961552

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

Sample Name: PB164757BS Acquired: 11/8/2024 19:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6414690	.1871936	F .6590599	5.501692	F -.012306	.1728080
Stddev	.0067073	.0021055	.0069539	.057751	.001007	.0030261
%RSD	1.045609	1.124749	1.055119	1.049703	8.182111	1.751158
#1	.6401529	.1847902	.6530034	5.524029	-.011155	.1698195
#2	.6487367	.1887127	.6575224	5.544938	-.013027	.1758705
#3	.6355173	.1880779	.6666538	5.436108	-.012735	.1727340

Elem	Sr4077
Units	ppm
Avg	.1958315
Stddev	.0026848
%RSD	1.370996
#1	.1927628
#2	.1977476
#3	.1969840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.069	59313.59	13388.35	1851.021	4334.228
Stddev	17.822	665.84	152.88	18.962	32.014
%RSD	.6899629	1.122575	1.141865	1.024399	.7386211
#1	2577.584	60077.33	13564.29	1870.868	4327.170
#2	2568.634	59008.31	13287.92	1849.107	4306.333
#3	2602.989	58855.13	13312.84	1833.089	4369.182

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

Sample Name: P4733-01 Acquired: 11/8/2024 19:08:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011393	-.004787	-.001042	.0017058	.0001022	.0062306
Stddev	.0017780	.001349	.000963	.0025215	.0001866	.0052527
%RSD	156.0605	28.17170	92.40977	147.8174	182.5303	84.30523
#1	.0022566	-.003302	-.001223	.0009569	-.000082	.0103438
#2	.0020723	-.005122	-.001901	-.000356	.000098	.0080345
#3	-.000911	-.005936	-.000001	.004517	.000291	.0003136

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1637106	.0000366	.0002840	144.3618	.0157200	.0004107
Stddev	.0009580	.0000632	.0000672	.3993	.0003352	.0001178
%RSD	.5851873	172.8929	23.66180	.2766257	2.132400	28.66577
#1	.1642104	.0000593	.0002616	144.7486	.0153339	.0005280
#2	.1626061	-.000035	.0002309	143.9510	.0158894	.0004118
#3	.1643154	.000085	.0003596	144.3858	.0159368	.0002925

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024109	.5271949	.0246348	52.65840	.1143037	.0006313
Stddev	.0001648	.0033136	.0001595	.07478	.0003801	.0001213
%RSD	6.835395	.6285317	.6474743	.1420058	.3325496	19.21144
#1	.0023781	.5245727	.0247045	52.74407	.1145139	.0004921
#2	.0022649	.5309191	.0244523	52.60622	.1145322	.0006877
#3	.0025896	.5260930	.0247476	52.62491	.1138649	.0007142

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	664.3006	.0375242	.0600371	39.51333	.5796178	.0134594
Stddev	2.8131	.0003129	.0001708	.05633	.0014743	.0003661
%RSD	.4234738	.8340020	.2844165	.1425620	.2543559	2.719951
#1	662.5730	.0375844	.0598401	39.46536	.5805244	.0137960
#2	662.7821	.0371855	.0601424	39.49927	.5779166	.0135124
#3	667.5467	.0378027	.0601289	39.57536	.5804122	.0130696

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

Sample Name: P4733-01 Acquired: 11/8/2024 19:08:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007058	-.002784	F 14.93909	.2993198	F 48.97102	.0483893
Stddev	.001610	.000681	.01781	.0014116	.08402	.0014158
%RSD	22.80834	24.45156	.1192209	.4716113	.1715613	2.925856
#1	-.005476	-.002010	14.92362	.2991993	49.02185	.0472269
#2	-.008694	-.003050	14.95856	.2979722	49.01717	.0479748
#3	-.007002	-.003291	14.93509	.3007878	48.87405	.0499660

Elem	Sr4077
Units	ppm
Avg	1.333922
Stddev	.013087
%RSD	.9810550
#1	1.318816
#2	1.341813
#3	1.341136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2082.947	48555.12	12891.93	1478.149	3235.853
Stddev	3.012	144.10	39.60	13.028	2.825
%RSD	.1445856	.2967686	.3072017	.8813959	.0873186
#1	2086.321	48718.91	12905.73	1492.278	3237.494
#2	2081.991	48447.87	12922.78	1475.560	3232.590
#3	2080.530	48498.57	12847.27	1466.610	3237.474

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

Sample Name: P4733-01DUP Acquired: 11/8/2024 19:12:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003055	-.004455	-.000846	.0019252	.0010666	.0005592
Stddev	.001413	.000556	.001440	.0004756	.0010225	.0047566
%RSD	46.26499	12.48382	170.2531	24.70151	95.86115	850.6221
#1	-.001869	-.003987	-.002310	.0016573	.0022057	.0060006
#2	-.002677	-.005070	-.000797	.0016441	.0002280	-.001515
#3	-.004618	-.004309	.000569	.0024743	.0007663	-.002809

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1627891	.0000413	.0002167	143.6114	.0157324	.0003946
Stddev	.0004511	.0000203	.0001618	.3268	.0000535	.0001412
%RSD	.2771182	49.15765	74.67750	.2275750	.3397957	35.79045
#1	.1629336	.0000251	.0001899	143.2590	.0157482	.0004579
#2	.1622835	.0000640	.0003902	143.6707	.0157762	.0004930
#3	.1631503	.0000347	.0000699	143.9046	.0156728	.0002328

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021272	.5346538	.0239893	52.32617	.1141297	.0005042
Stddev	.0005055	.0052598	.0004064	.25231	.0002963	.0002672
%RSD	23.76201	.9837716	1.694261	.4821888	.2595797	52.99861
#1	.0026279	.5385777	.0235277	52.03864	.1138004	.0006062
#2	.0021368	.5286772	.0241466	52.42922	.1142142	.0007054
#3	.0016171	.5367065	.0242935	52.51064	.1143746	.0002010

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	677.3720	.0360287	.0601627	39.78572	.5827803	.0134283
Stddev	2.1655	.0013143	.0005563	.04131	.0031758	.0003446
%RSD	.3196872	3.647978	.9246136	.1038414	.5449442	2.565975
#1	677.4671	.0370534	.0595205	39.80523	.5798931	.0138201
#2	679.4884	.0364859	.0604714	39.81366	.5861819	.0131725
#3	675.1606	.0345469	.0604962	39.73826	.5822657	.0132924

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

Sample Name: P4733-01DUP Acquired: 11/8/2024 19:12:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006731	-.002744	F 15.05369	.2976171	F 48.79650	.0473569
Stddev	.000990	.000145	.05462	.0033116	.03804	.0014162
%RSD	14.70601	5.272825	.3628552	1.112713	.0779601	2.990554
#1	-.006577	-.002911	14.99111	.2960192	48.81578	.0470817
#2	-.007789	-.002659	15.07811	.3014247	48.75267	.0488905
#3	-.005827	-.002661	15.09184	.2954075	48.82104	.0460984

Elem	Sr4077
Units	ppm
Avg	1.335903
Stddev	.007117
%RSD	.5327351
#1	1.327809
#2	1.338718
#3	1.341182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.473	47841.97	12883.55	1480.808	3277.725
Stddev	7.984	169.64	62.40	11.914	6.874
%RSD	.3770682	.3545863	.4843303	.8045571	.2097223
#1	2108.810	48036.17	12955.60	1492.851	3269.787
#2	2119.075	47767.08	12846.90	1480.545	3281.735
#3	2124.536	47722.66	12848.16	1469.028	3281.652

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

Sample Name: P4733-01LX5 Acquired: 11/8/2024 19:17:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000923	-.000203	-.000839	.0033152	-.000483	-.002288	.0298455
Stddev	.002389	.001597	.000723	.0006466	.001300	.008314	.0002395
%RSD	258.9272	784.9701	86.11758	19.50445	268.9795	363.4399	.8023939
#1	-.001019	.000427	-.000919	.0040571	-.001044	.006730	.0298326
#2	.001513	.000982	-.001519	.0028714	.001003	-.009650	.0296128
#3	-.003262	-.002020	-.000080	.0030172	-.001409	-.003943	.0300912

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000275	.0000343	29.42329	.0033445	.0000891	.0004054	.1002607
Stddev	.0000213	.0001023	.03755	.0001985	.0000534	.0001978	.0022714
%RSD	77.31243	298.0883	.1276263	5.935538	59.94628	48.77931	2.265497
#1	.0000177	.0001220	29.46608	.0034945	.0001212	.0005496	.1019009
#2	.0000519	-.000078	29.40801	.0034196	.0000274	.0004866	.0976682
#3	.0000129	.000059	29.39579	.0031194	.0001187	.0001800	.1012131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048491	10.50816	.0228613	.0006593	116.3179	.0080644	.0109855
Stddev	.0000539	.02275	.0002835	.0000811	.7544	.0006353	.0001941
%RSD	1.110689	.2164872	1.240018	12.29380	.6485286	7.877629	1.766758
#1	.0048949	10.51878	.0231182	.0007459	117.1449	.0081603	.0108451
#2	.0048626	10.52367	.0229085	.0006466	115.6676	.0073866	.0112070
#3	.0047897	10.48205	.0225572	.0005853	116.1411	.0086462	.0109046

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.929237	.1255687	.0025663	-.002531	-.000125	2.647798	.0483932
Stddev	.046125	.0006407	.0001134	.000249	.000318	.006286	.0029567
%RSD	.6656647	.5102470	4.417626	9.850881	254.9480	.2374158	6.109796
#1	6.976161	.1259939	.0026954	-.002625	.000080	2.653904	.0513601
#2	6.883953	.1258804	.0025209	-.002249	-.000491	2.648143	.0483728
#3	6.927598	.1248318	.0024828	-.002720	.000037	2.641346	.0454468

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

Sample Name: P4733-01LX5 Acquired: 11/8/2024 19:17:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.950570	.0082942	.2669914
Stddev	.042485	.0012575	.0012328
%RSD	.4746579	15.16087	.4617512
#1	8.914034	.0087072	.2682474
#2	8.940487	.0068821	.2657831
#3	8.997189	.0092932	.2669438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2444.582	55197.69	13345.52	1741.940	3909.506
Stddev	16.580	113.14	38.20	3.090	21.992
%RSD	.6782259	.2049801	.2862486	.1774130	.5625345
#1	2446.482	55142.04	13314.90	1742.073	3917.550
#2	2460.129	55123.15	13333.32	1738.785	3926.344
#3	2427.133	55327.88	13388.33	1744.961	3884.624

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

Sample Name: P4733-01MS Acquired: 11/8/2024 19:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8939777	1.918836	.9690281	2.155031	.8787714	2.108928
Stddev	.0082110	.029122	.0065856	.020940	.0075020	.002903
%RSD	.9184749	1.517668	.6796123	.9716771	.8536977	.1376497
#1	.8849578	1.885806	.9617901	2.131813	.8702751	2.105577
#2	.8959578	1.929887	.9706276	2.160795	.8844826	2.110531
#3	.9010176	1.940815	.9746667	2.172485	.8815565	2.110676

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3618358	.1993489	.1963363	148.0047	.3816969	.2015734
Stddev	.0005536	.0008674	.0015677	.7756	.0003889	.0014507
%RSD	.1529908	.4350970	.7984522	.5240114	.1018827	.7196737
#1	.3614766	.1983500	.1946237	148.5147	.3812526	.1999377
#2	.3615574	.1999105	.1966849	148.3871	.3818622	.2020784
#3	.3624733	.1997863	.1977003	147.1121	.3819757	.2027040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3051200	3.535690	.2125228	55.54130	.6103589	.0826128
Stddev	.0016999	.021956	.0008000	.26106	.0047062	.0000162
%RSD	.5571320	.6209915	.3764252	.4700298	.7710506	.0196425
#1	.3032475	3.556605	.2126422	55.75989	.6055342	.0825974
#2	.3055462	3.537641	.2132565	55.61177	.6106057	.0826297
#3	.3065663	3.512823	.2116699	55.25224	.6149369	.0826114

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	637.9565	.3374973	.2901972	49.01381	.8678048	.4312034
Stddev	6.2690	.0024340	.0008531	.18912	.0042740	.0039801
%RSD	.9826753	.7211882	.2939687	.3858586	.4925121	.9230211
#1	644.4778	.3390219	.2892693	49.21761	.8629330	.4269077
#2	637.4171	.3387798	.2903748	48.84395	.8709236	.4319366
#3	631.9746	.3346903	.2909475	48.97988	.8695579	.4347659

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

Sample Name: P4733-01MS Acquired: 11/8/2024 19:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6930484	.1933008	F 15.16950	7.169494	F 48.96761	.2360939
Stddev	.0078066	.0008392	.08384	.054940	.44991	.0007660
%RSD	1.126412	.4341519	.5526712	.7663030	.9187939	.3244477
#1	.6844893	.1938792	15.25996	7.112070	48.44810	.2357577
#2	.6948788	.1936850	15.09441	7.174855	49.22883	.2369705
#3	.6997772	.1923383	15.15413	7.221557	49.22591	.2355536

Elem	Sr4077
Units	ppm
Avg	1.557614
Stddev	.011837
%RSD	.7599656
#1	1.554920
#2	1.570566
#3	1.547356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2133.668	49453.31	12482.43	1541.588	3261.271
Stddev	18.568	129.87	31.07	7.085	28.346
%RSD	.8702569	.2626183	.2489078	.4595644	.8691590
#1	2155.083	49355.49	12518.07	1537.028	3293.772
#2	2123.880	49600.66	12461.04	1549.750	3248.373
#3	2122.042	49403.79	12468.20	1537.987	3241.669

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

Sample Name: P4733-01MSD Acquired: 11/8/2024 19:25:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8869327	1.834823	.9468272	2.135016	.8702988	2.067379
Stddev	.0019572	.020892	.0019708	.010186	.0059667	.010612
%RSD	.2206712	1.138659	.2081471	.4770913	.6855863	.5133299
#1	.8848226	1.813377	.9463319	2.123362	.8643541	2.057134
#2	.8872867	1.835977	.9489984	2.139469	.8702552	2.066679
#3	.8886887	1.855114	.9451513	2.142218	.8762872	2.078324

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3539569	.1928142	.1910337	144.3884	.3720884	.1958952
Stddev	.0004969	.0013423	.0002694	.2344	.0009181	.0005643
%RSD	.1403841	.6961750	.1410211	.1623153	.2467459	.2880439
#1	.3539472	.1929120	.1908379	144.6213	.3718453	.1957979
#2	.3544586	.1914257	.1913410	144.3913	.3713163	.1965018
#3	.3534649	.1941050	.1909224	144.1526	.3731036	.1953859

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2996111	3.492236	.2065904	54.16949	.5940261	.0821072
Stddev	.0009001	.014093	.0004329	.03790	.0001815	.0000865
%RSD	.3004096	.4035508	.2095508	.0699716	.0305599	.1053995
#1	.2987353	3.504532	.2070452	54.16374	.5939536	.0822071
#2	.2995645	3.495320	.2065429	54.20994	.5942326	.0820552
#3	.3005336	3.476857	.2061833	54.13478	.5938920	.0820594

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	647.4876	.3299357	.2876003	49.06413	.8424705	.4244146
Stddev	1.6035	.0005612	.0016086	.16843	.0039674	.0013549
%RSD	.2476502	.1701035	.5593177	.3432937	.4709278	.3192342
#1	649.0610	.3304992	.2894304	49.04454	.8409165	.4229456
#2	645.8556	.3293767	.2864100	49.24151	.8395153	.4246832
#3	647.5461	.3299311	.2869605	48.90635	.8469797	.4256151

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

Sample Name: P4733-01MSD Acquired: 11/8/2024 19:25:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6709517	.1883191	F 15.15688	6.939806	F 47.79450	.2322083
Stddev	.0015200	.0000896	.04430	.012583	.11727	.0026775
%RSD	.2265429	.0475595	.2922915	.1813147	.2453626	1.153049
#1	.6720391	.1882176	15.18424	6.951788	47.66072	.2291174
#2	.6716010	.1883532	15.18063	6.940933	47.84320	.2338118
#3	.6692148	.1883867	15.10577	6.926698	47.87957	.2336958

Elem	Sr4077
Units	ppm
Avg	1.522658
Stddev	.007492
%RSD	.4920178
#1	1.520438
#2	1.516527
#3	1.531009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2123.015	49339.39	12698.98	1514.009	3276.103
Stddev	8.115	73.84	34.56	5.937	7.193
%RSD	.3822517	.1496567	.2721730	.3921574	.2195524
#1	2131.051	49301.20	12719.53	1516.891	3284.072
#2	2123.171	49292.46	12718.33	1507.181	3274.148
#3	2114.823	49424.50	12659.08	1517.955	3270.090

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

Sample Name: P4733-01A Acquired: 11/8/2024 19:29:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8921361	1.845572	.9328175	2.158359	.8754092	2.094372
Stddev	.0028971	.015196	.0012950	.006975	.0019831	.039422
%RSD	.3247347	.8233936	.1388259	.3231838	.2265326	1.882262
#1	.8916204	1.857016	.9343122	2.158265	.8738845	2.136225
#2	.8952564	1.851370	.9321073	2.165380	.8776511	2.057944
#3	.8895316	1.828330	.9320329	2.151431	.8746921	2.088948

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3578472	.1892421	.1887522	143.4163	.3666509	.1935645
Stddev	.0082351	.0019808	.0003802	2.5591	.0016034	.0002878
%RSD	2.301284	1.046679	.2014145	1.784374	.4373045	.1486996
#1	.3673268	.1915233	.1890860	146.3693	.3682403	.1936863
#2	.3524603	.1879583	.1883384	142.0332	.3650339	.1937714
#3	.3537544	.1882448	.1888322	141.8464	.3666786	.1932358

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2997265	3.494316	.2060391	53.72280	.5876210	.0819810
Stddev	.0004935	.030492	.0049055	.90166	.0002740	.0004708
%RSD	.1646434	.8726115	2.380841	1.678350	.0466345	.5743294
#1	.2995328	3.529033	.2117014	54.75938	.5874032	.0823973
#2	.3002875	3.482035	.2030745	53.28882	.5875312	.0814700
#3	.2993593	3.471879	.2033415	53.12021	.5879287	.0820758

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	656.6956	.3289194	.2883410	49.88313	.8371712	.4255039
Stddev	3.5458	.0054691	.0002823	.41663	.0062149	.0011579
%RSD	.5399469	1.662747	.0979049	.8352221	.7423741	.2721175
#1	660.2457	.3348286	.2886590	50.33432	.8441948	.4264068
#2	656.6869	.3240356	.2881200	49.51295	.8349351	.4259065
#3	653.1541	.3278940	.2882440	49.80211	.8323837	.4241985

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

Sample Name: P4733-01A Acquired: 11/8/2024 19:29:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6637677	.1899566	F 15.24528	6.766007	F 47.13217	.2364077
Stddev	.0006286	.0036859	.08684	.018217	.09100	.0050572
%RSD	.0947028	1.940392	.5696004	.2692452	.1930785	2.139190
#1	.6631412	.1941769	15.34073	6.786970	47.23529	.2420520
#2	.6643984	.1883240	15.17094	6.754013	47.09811	.2322887
#3	.6637636	.1873690	15.22419	6.757038	47.06311	.2348824

Elem	Sr4077
Units	ppm
Avg	1.544408
Stddev	.032111
%RSD	2.079145
#1	1.580335
#2	1.518505
#3	1.534385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2091.345	49032.73	12673.04	1476.735	3253.133
Stddev	5.603	114.72	156.21	1.981	2.325
%RSD	.2679037	.2339748	1.232592	.1341144	.0714690
#1	2095.389	48931.61	12492.67	1475.941	3253.592
#2	2084.949	49157.40	12763.82	1478.989	3250.612
#3	2093.695	49009.19	12762.62	1475.275	3255.193

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

Sample Name: PB164758BL Acquired: 11/8/2024 19:34:06 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001154	-.001463	.0000475	.0005284	-.000374	-.000547	-.005107
Stddev	.001598	.001748	.0005704	.0002359	.000763	.004285	.000384
%RSD	138.5439	119.4695	1200.721	44.64831	203.8247	782.7196	7.509867
#1	-.002075	-.001045	-.000074	.0008006	-.000720	.003347	-.005487
#2	.000692	.000038	-.000453	.0004002	-.000903	-.005138	-.005115
#3	-.002079	-.003383	.000669	.0003843	.000500	.000148	-.004720

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000463	-.000023	.0024026	-.000025	.0000091	-.000217	-.001660
Stddev	.0000302	.000017	.0055403	.000251	.0001284	.000208	.000515
%RSD	65.13269	71.76487	230.5976	1014.948	1405.768	95.55516	31.03572
#1	.0000808	-.000024	-.003994	-.000306	.0000362	-.000118	-.002185
#2	.0000245	-.000039	.005508	.000177	.0001218	-.000456	-.001639
#3	.0000337	-.000006	.005693	.000054	-.000131	-.000078	-.001156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	.0055765	-.000039	.0006904	.1863419	.0001563	-.000209
Stddev	.000053	.0087819	.000127	.0001167	.0140103	.0000867	.000249
%RSD	66.91091	157.4802	328.7101	16.90946	7.518599	55.45866	118.6928
#1	-.000041	-.002357	.000108	.0005824	.1766168	.0002360	-.000286
#2	-.000139	.015013	-.000098	.0006746	.1800083	.0001689	.000068
#3	-.000056	.004073	-.000125	.0008143	.2024007	.0000640	-.000411

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0390371	.0003283	.0002484	-.000209	.0002945	-.004474	-.006078
Stddev	.0134443	.0000638	.0001251	.000150	.0002550	.002292	.001383
%RSD	34.43988	19.44672	50.36306	71.61930	86.59022	51.23882	22.75902
#1	.0479258	.0002870	.0001930	-.000076	.0004325	-.002047	-.007172
#2	.0456151	.0004019	.0001606	-.000180	.0004507	-.004772	-.006538
#3	.0235703	.0002962	.0003917	-.000371	.0000002	-.006602	-.004523

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

Sample Name: PB164758BL Acquired: 11/8/2024 19:34:06 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019983	-.001796	.0000155
Stddev	.0018139	.001143	.0000102
%RSD	90.77334	63.61924	65.88046
#1	.0029638	-.000990	.0000272
#2	-.000094	-.001294	.0000104
#3	.003125	-.003104	.0000088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.070	58380.15	13506.05	1824.997	4456.054
Stddev	8.909	89.79	40.45	3.278	3.949
%RSD	.3455599	.1537996	.2995058	.1796229	.0886184
#1	2567.838	58322.95	13460.64	1822.621	4451.641
#2	2584.104	58483.64	13519.31	1828.737	4457.269
#3	2582.269	58333.86	13538.21	1823.633	4459.253

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

Sample Name: PB164758BS Acquired: 11/8/2024 19:38:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7968579	2.014500	.9590939	1.988764	.7894644	2.012458
Stddev	.0024492	.019377	.0006653	.005530	.0029411	.001554
%RSD	.3073526	.9618531	.0693678	.2780787	.3725385	.0772109
#1	.7950317	1.993154	.9591335	1.983559	.7860993	2.010663
#2	.7959010	2.019367	.9584097	1.994571	.7907507	2.013351
#3	.7996411	2.030978	.9597385	1.988162	.7915432	2.013358

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1901866	.1986132	.1850797	1.011168	.3731436	.1917251
Stddev	.0005902	.0006826	.0001886	.017596	.0009013	.0001152
%RSD	.3103317	.3436632	.1018927	1.740185	.2415473	.0600646
#1	.1898371	.1986582	.1851751	.992125	.3722308	.1917753
#2	.1898546	.1979092	.1848625	1.014554	.3731671	.1915934
#3	.1908680	.1992721	.1852015	1.026826	.3740329	.1918067

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3092479	2.803238	.1941258	1.905859	.4796417	.0744208
Stddev	.0006819	.012551	.0015887	.024860	.0011981	.0000898
%RSD	.2205199	.4477278	.8183862	1.304416	.2497836	.1206887
#1	.3084669	2.789185	.1937861	1.901301	.4803822	.0743179
#2	.3097255	2.813334	.1927344	1.883593	.4782595	.0744613
#3	.3095514	2.807194	.1958569	1.932683	.4802834	.0744833

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.796970	.2953096	.2101329	9.612285	.2880272	.4034916
Stddev	.046125	.0006963	.0005391	.062938	.0008941	.0008770
%RSD	1.649118	.2357992	.2565714	.6547658	.3104094	.2173567
#1	2.745540	.2945236	.2096602	9.549873	.2890085	.4024929
#2	2.810695	.2955561	.2100184	9.675736	.2878142	.4038457
#3	2.834676	.2958492	.2107201	9.611246	.2872589	.4041362

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

Sample Name: PB164758BS Acquired: 11/8/2024 19:38:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6531093	.1918440	F .6817466	5.612119	F -.007204	.1832799
Stddev	.0001069	.0008125	.0025991	.011793	.001826	.0022378
%RSD	.0163729	.4235110	.3812410	.2101315	25.33914	1.220981
#1	.6531735	.1919032	.6838564	5.602972	-.007265	.1807115
#2	.6531685	.1910035	.6788432	5.607956	-.008999	.1848099
#3	.6529858	.1926253	.6825402	5.625429	-.005349	.1843183

Elem	Sr4077
Units	ppm
Avg	.2024103
Stddev	.0003431
%RSD	.1694965
#1	.2021519
#2	.2022796
#3	.2027996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.629	58182.92	13291.92	1844.998	4311.627
Stddev	10.820	102.42	53.98	4.441	11.036
%RSD	.4191113	.1760298	.4061387	.2406872	.2559489
#1	2593.543	58292.47	13261.29	1848.486	4322.385
#2	2578.931	58166.70	13354.25	1846.509	4312.164
#3	2572.413	58089.57	13260.21	1839.999	4300.333

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

Sample Name: P4718-04 Acquired: 11/8/2024 19:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006412	-.027703	.0012314	.0025783	.0028882	.7775422
Stddev	.006307	.003387	.0013280	.0029862	.0023016	.0049048
%RSD	98.35968	12.22648	107.8415	115.8202	79.69037	.6308056
#1	-.005518	-.029752	.0024022	.0013958	.0032078	.7718905
#2	-.013117	-.029564	-.000212	.0059747	.0050134	.7806849
#3	-.000600	-.023793	.001504	.0003645	.0004435	.7800512

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0687633	-.000025	.0003754	411.3793	.0035599	-.001084
Stddev	.0015336	.000104	.0000355	2.0448	.0008857	.000528
%RSD	2.230200	409.9559	9.452448	.4970536	24.88042	48.68041
#1	.0669989	.000040	.0003609	409.0712	.0042783	-.001669
#2	.0695151	.000030	.0004158	412.9642	.0038310	-.000938
#3	.0697758	-.000145	.0003494	412.1024	.0025703	-.000645

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031221	1.042148	.1393802	1256.756	.0016234	.0003980
Stddev	.0002413	.021956	.0013544	9.557	.0002457	.0009481
%RSD	7.727459	2.106826	.9717540	.7604620	15.13678	238.2193
#1	.0030577	1.029383	.1378472	1247.289	.0013449	-.000679
#2	.0029195	1.029561	.1404149	1256.576	.0017156	.001107
#3	.0033890	1.067501	.1398785	1266.401	.0018097	.000766

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0073096	.0396804	850.8123	4.285924	.0143147
Stddev	-----	.0007279	.0006985	11.9133	.028013	.0002198
%RSD	-----	9.957665	1.760315	1.400230	.6536136	1.535596
#1	^ -----	.0068805	.0402160	858.2759	4.253860	.0141165
#2	^ -----	.0081500	.0388904	837.0731	4.305656	.0142765
#3	^ -----	.0068983	.0399349	857.0879	4.298255	.0145512

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

Sample Name: P4718-04 Acquired: 11/8/2024 19:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008377	.0150159	6.173598	.6458488	F 1086.285	.4267394
Stddev	.001252	.0038993	.034436	.0047942	4.145	.0041498
%RSD	14.94264	25.96755	.5577874	.7423038	.3815965	.9724424
#1	-.008319	.0121854	6.156426	.6513592	1085.073	.4225481
#2	-.009657	.0133987	6.151126	.6426341	1082.880	.4308464
#3	-.007156	.0194636	6.213243	.6435532	1090.901	.4268238

Elem	Sr4077
Units	ppm
Avg	8.980490
Stddev	.096449
%RSD	1.073984
#1	8.870193
#2	9.048993
#3	9.022284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.247	28325.47	9051.778	808.5309	1552.147
Stddev	6.230	145.17	48.082	5.4555	7.916
%RSD	.5536527	.5125040	.5311845	.6747429	.5100350
#1	1132.427	28335.58	9099.925	803.9815	1561.259
#2	1122.043	28465.31	9003.762	814.5792	1548.223
#3	1121.271	28175.51	9051.647	807.0322	1546.960

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

Sample Name: CCV07 Acquired: 11/8/2024 19:47:09 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.061371	5.052034	4.907631	5.214132	5.179161	10.06217	9.517518
Stddev	.013324	.049996	.001986	.007467	.008787	.01072	.148717
%RSD	.2632479	.9896114	.0404706	.1432023	.1696668	.1065730	1.562563
#1	5.046152	5.003760	4.905798	5.208050	5.171603	10.07439	9.663479
#2	5.070934	5.103590	4.907354	5.211880	5.177077	10.05432	9.522884
#3	5.067027	5.048753	4.909741	5.222465	5.188803	10.05780	9.366190

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2425284	2.400152	24.01883	.9204770	2.442704	1.278420	4.709694
Stddev	.0004162	.002271	.06558	.0026766	.001457	.000885	.027383
%RSD	.1716147	.0946309	.2730319	.2907886	.0596660	.0692251	.5814206
#1	.2427578	2.397530	24.09344	.9179570	2.441546	1.277494	4.707382
#2	.2420479	2.401512	23.97033	.9201871	2.444341	1.279257	4.683540
#3	.2427794	2.401414	23.99272	.9232867	2.442225	1.278510	4.738159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.310645	24.14109	2.440012	1.246221	24.63459	2.441017	2.584351
Stddev	.009283	.03043	.001698	.002074	.22431	.004497	.002290
%RSD	.4017284	.1260406	.0695954	.1664588	.9105418	.1842129	.0885914
#1	2.320509	24.17099	2.438057	1.244878	24.85087	2.442763	2.583000
#2	2.309346	24.14213	2.440854	1.245174	24.64987	2.444379	2.583059
#3	2.302081	24.11016	2.441124	1.248610	24.40304	2.435909	2.586995

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.95883	4.826358	5.110450	4.812839	4.748945	4.936156	5.038366
Stddev	.04409	.015335	.008302	.004706	.008585	.032326	.003988
%RSD	.1766375	.3177411	.1624432	.0977879	.1807765	.6548720	.0791570
#1	24.91002	4.843822	5.100865	4.807922	4.758574	4.901847	5.037763
#2	24.97071	4.815091	5.115128	4.817302	4.746168	4.940580	5.042621
#3	24.99577	4.820161	5.115357	4.813293	4.742091	4.966042	5.034713

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

Sample Name: CCV07 Acquired: 11/8/2024 19:47:09 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.843201	4.604244	4.915062
Stddev	.001374	.024515	.037789
%RSD	.0283724	.5324414	.7688468
#1	4.843276	4.618714	4.950507
#2	4.844535	4.618080	4.875300
#3	4.841790	4.575939	4.919378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.321	55174.43	13203.90	1702.780	3884.135
Stddev	.574	92.58	43.01	6.278	.406
%RSD	.0236483	.1677872	.3257164	.3686895	.0104438
#1	2424.843	55144.50	13155.79	1696.170	3884.587
#2	2425.957	55278.27	13217.28	1708.663	3884.015
#3	2425.161	55100.53	13238.63	1703.505	3883.803

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

Sample Name: CCB07 Acquired: 11/8/2024 19:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000474	.0005910	.0002382	.0004463	.0005251	.0030741
Stddev	.002341	.0005140	.0005580	.0018596	.0008907	.0050155
%RSD	493.6805	86.97687	234.3045	416.6604	169.6240	163.1512
#1	.002097	.0011316	.0008676	.0019202	.0005528	.0059164
#2	-.001037	.0001085	-.000196	-.001643	-.000379	-.002717
#3	-.002483	.0005328	.000043	.001062	.001402	.006023

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005042	-.000005	-.000004	.0023984	-.000084	.0000484
Stddev	.000267	.000029	.000159	.0042360	.000179	.0000099
%RSD	5.289838	593.8783	3845.596	176.6147	212.3487	20.53160
#1	-.005161	.000003	-.000186	-.002407	.000065	.0000589
#2	-.004737	-.000037	.000110	.005590	-.000035	.0000471
#3	-.005229	.000019	.000063	.004012	-.000283	.0000392

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000150	-.001645	-.000027	.0210697	.0000894	.0008959
Stddev	.0000304	.000367	.000174	.0035361	.0001462	.0001964
%RSD	202.2205	22.30433	650.0307	16.78271	163.5957	21.92676
#1	-.000020	-.002067	-.000121	.0187601	-.000049	.0011157
#2	.000034	-.001405	-.000134	.0251406	.000243	.0008343
#3	.000031	-.001462	.000174	.0193085	.000074	.0007376

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9407534	.0001458	.0001244	.1424655	.0033650	.0004369
Stddev	.0407084	.0012235	.0001180	.0225310	.0004652	.0001372
%RSD	4.327214	839.4218	94.89535	15.81503	13.82445	31.40341
#1	.9043657	-.001258	.0000046	.1671754	.0038704	.0005912
#2	.9331766	.000987	.0002405	.1371608	.0029548	.0003284
#3	.9847179	.000708	.0001280	.1230601	.0032698	.0003912

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

Sample Name: CCB07 Acquired: 11/8/2024 19:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000958	.0000694	.0007808	-.004576	F .0178026	-.002290
Stddev	.000535	.0001609	.0028135	.002842	.0012976	.000145
%RSD	55.80018	231.7697	360.3531	62.10752	7.289024	6.315633
#1	-.001572	.0002551	.0015049	-.002930	.0192978	-.002160
#2	-.000710	-.000016	.0031615	-.002941	.0169707	-.002265
#3	-.000593	-.000030	-.002324	-.007858	.0171393	-.002446

Elem	Sr4077
Units	ppm
Avg	.0001413
Stddev	.0000222
%RSD	15.72964
#1	.0001387
#2	.0001205
#3	.0001647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2593.748	56635.04	13640.79	1779.883	4491.582
Stddev	2.141	19.74	20.52	8.285	3.577
%RSD	.0825515	.0348590	.1504435	.4655048	.0796291
#1	2591.532	56627.69	13625.22	1781.285	4495.267
#2	2593.907	56620.03	13633.09	1770.986	4488.125
#3	2595.806	56657.40	13664.04	1787.378	4491.355

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

Sample Name: P4718-04DUP Acquired: 11/8/2024 19:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003729	-.025396	.0014252	.0004855	.0065479	.7898245
Stddev	.005721	.001882	.0041021	.0047277	.0031347	.0119624
%RSD	153.4291	7.410545	287.8318	973.8495	47.87356	1.514561
#1	-.008532	-.027157	-.001851	.0056552	.0082079	.7954853
#2	.002600	-.025618	.006026	-.003618	.0029323	.7979057
#3	-.005254	-.023413	.000100	-.000581	.0085034	.7760824

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0672373	-.000085	.0004444	402.5788	.0022979	-.001062
Stddev	.0003114	.000046	.0002640	3.9348	.0012720	.000513
%RSD	.4630540	53.83566	59.41094	.9774096	55.35373	48.31716
#1	.0670305	-.000130	.0001459	406.1491	.0037448	-.001616
#2	.0670862	-.000039	.0005400	398.3600	.0017931	-.000604
#3	.0675954	-.000085	.0006473	403.2274	.0013558	-.000965

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043958	1.022313	.1357060	1230.732	.0009364	.0008566
Stddev	.0003529	.018301	.0011736	7.722	.0004106	.0000175
%RSD	8.029008	1.790141	.8648436	.6274284	43.85324	2.038752
#1	.0047874	1.004095	.1369386	1239.425	.0008524	.0008382
#2	.0042979	1.040696	.1355775	1228.103	.0005742	.0008729
#3	.0041022	1.022148	.1346019	1224.667	.0013825	.0008588

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0076698	.0391592	844.2893	4.214687	.0152749
Stddev	-----	.0018955	.0004601	5.7500	.028199	.0002464
%RSD	-----	24.71427	1.174952	.6810458	.6690672	1.613333
#1	^ -----	.0073356	.0387375	842.6256	4.239795	.0155358
#2	^ -----	.0097102	.0390902	839.5546	4.220086	.0152427
#3	^ -----	.0059636	.0396499	850.6877	4.184178	.0150461

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

Sample Name: P4718-04DUP Acquired: 11/8/2024 19:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006757	.0137186	6.240536	.6202950	F 1054.780	.4295154
Stddev	.001863	.0007910	.008093	.0062933	.816	.0022664
%RSD	27.56850	5.766184	.1296866	1.014559	.0773622	.5276631
#1	-.007597	.0135058	6.231824	.6249085	1054.869	.4282973
#2	-.004622	.0145943	6.247820	.6131260	1053.923	.4321303
#3	-.008051	.0130558	6.241965	.6228506	1055.548	.4281184

Elem	Sr4077
Units	ppm
Avg	8.854353
Stddev	.053601
%RSD	.6053622
#1	8.854222
#2	8.908019
#3	8.800818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.845	28320.66	9095.728	798.2447	1549.476
Stddev	4.712	54.37	60.894	2.9414	5.933
%RSD	.4230599	.1919704	.6694747	.3684852	.3829254
#1	1115.916	28375.90	9036.391	801.4629	1552.280
#2	1117.167	28267.21	9092.725	797.5758	1553.488
#3	1108.452	28318.86	9158.067	795.6953	1542.660

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

Sample Name: P4718-04LX5 Acquired: 11/8/2024 20:00:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010928	-.005306	-.000950	.0024775	-.000766	.1124801
Stddev	.0005879	.001656	.000777	.0024518	.001352	.0017593
%RSD	53.80224	31.21849	81.76346	98.96213	176.6361	1.564075
#1	.0004199	-.004716	-.000426	.0006149	-.002135	.1105923
#2	.0015074	-.004025	-.000582	.0015623	-.000732	.1140738
#3	.0013509	-.007176	-.001843	.0052552	.000569	.1127740

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088305	.0000176	-.000055	92.43950	.0005529	-.000235
Stddev	.0004116	.0000249	.000074	1.56185	.0002252	.000131
%RSD	4.661061	141.0776	134.5952	1.689597	40.74095	55.94851
#1	.0088719	.0000126	.000005	94.20112	.0005489	-.000261
#2	.0092199	-.000004	-.000138	91.89321	.0003296	-.000351
#3	.0083998	.000045	-.000033	91.22416	.0007801	-.000092

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004215	.2020022	.0301173	292.9571	.0007986	.0004418
Stddev	.0002070	.0042524	.0005955	4.6168	.0001795	.0000771
%RSD	49.10585	2.105134	1.977330	1.575917	22.47703	17.45626
#1	.0001854	.2006452	.0307948	298.0858	.0006373	.0003539
#2	.0005716	.2067675	.0298804	291.6522	.0009920	.0004980
#3	.0005075	.1985939	.0296767	289.1332	.0007666	.0004735

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2019.270	.0015297	.0062464	111.6751	.9459739	.0028635
Stddev	40.811	.0013887	.0004080	.7495	.0179579	.0002342
%RSD	2.021053	90.78319	6.531837	.6711410	1.898351	8.179332
#1	2062.831	.0030781	.0066880	112.3504	.9655516	.0031028
#2	2013.057	.0011160	.0058833	111.8063	.9421029	.0028531
#3	1981.923	.0003948	.0061680	110.8687	.9302672	.0026348

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

Sample Name: P4718-04LX5 Acquired: 11/8/2024 20:00:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003913	.0049290	.9279162	.0938139	F 231.3908	.0584992
Stddev	.000848	.0020330	.0067779	.0033674	1.0083	.0014776
%RSD	21.66863	41.24600	.7304422	3.589492	.4357593	2.525885
#1	-.003114	.0034823	.9356079	.0919398	230.5229	.0599398
#2	-.004803	.0072534	.9253226	.0977014	231.1526	.0585708
#3	-.003821	.0040513	.9228182	.0918004	232.4969	.0569871

Elem	Sr4077
Units	ppm
Avg	1.772716
Stddev	.039734
%RSD	2.241430
#1	1.812562
#2	1.772491
#3	1.733094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1997.898	43871.02	11734.59	1398.823	2873.835
Stddev	1.945	172.85	199.33	7.536	5.970
%RSD	.0973754	.3939967	1.698622	.5387670	.2077479
#1	1999.677	43768.75	11511.54	1395.870	2880.678
#2	1995.821	43773.72	11796.94	1393.209	2871.138
#3	1998.197	44070.59	11895.29	1407.388	2869.688

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

Sample Name: P4718-04MS Acquired: 11/8/2024 20:04:55 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.098971	1.628741	.8715341	2.734898	1.124864	3.337732
Stddev	.010833	.005149	.0029894	.028103	.010327	.048789
%RSD	.9857501	.3161037	.3430016	1.027585	.9180486	1.461728
#1	1.105082	1.626441	.8714933	2.762854	1.135574	3.337429
#2	1.105368	1.625143	.8685653	2.735192	1.124049	3.386672
#3	1.086463	1.634639	.8745436	2.706649	1.114968	3.289096

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2675299	.2296810	.1747574	419.1717	.3143644	.1839365
Stddev	.0023360	.0011053	.0002210	7.8759	.0020797	.0014878
%RSD	.8731710	.4812179	.1264346	1.878922	.6615537	.8088840
#1	.2655672	.2288379	.1747067	411.4238	.3133510	.1855248
#2	.2701137	.2309323	.1745662	427.1697	.3129856	.1837094
#3	.2669088	.2292729	.1749993	418.9216	.3167565	.1825752

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509355	4.112253	.3080945	1283.994	.4417949	.1317263
Stddev	.0014555	.075872	.0039388	18.975	.0006163	.0013841
%RSD	.5800356	1.845034	1.278447	1.477792	.1394910	1.050713
#1	.2526132	4.032192	.3035579	1262.099	.4415499	.1304914
#2	.2501828	4.121473	.3106432	1295.635	.4413389	.1314653
#3	.2500104	4.183094	.3100824	1294.248	.4424960	.1332224

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2890634	.3531561	788.6435	4.562268	.3937047
Stddev	-----	.0036324	.0041984	4.6960	.026936	.0024649
%RSD	-----	1.256614	1.188831	.5954534	.5904052	.6260697
#1	^ -----	.2853188	.3491732	783.2772	4.533746	.3964920
#2	^ -----	.2892992	.3527540	792.0007	4.587272	.3928099
#3	^ -----	.2925721	.3575411	790.6526	4.565788	.3918122

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

Sample Name: P4718-04MS Acquired: 11/8/2024 20:04:55 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6110810	.2000275	6.892820	9.995382	F 1065.202	.6546473
Stddev	.0050056	.0043786	.028249	.026236	1.706	.0054370
%RSD	.8191454	2.189016	.4098384	.2624806	.1601528	.8305172
#1	.6114295	.1979795	6.894650	10.02406	1067.115	.6580259
#2	.6059102	.2050548	6.863700	9.98950	1064.649	.6575405
#3	.6159033	.1970481	6.920110	9.97259	1063.840	.6483755

Elem	Sr4077
Units	ppm
Avg	8.991638
Stddev	.099546
%RSD	1.107091
#1	8.943255
#2	9.106127
#3	8.925532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1185.384	29283.59	8899.540	857.6812	1617.712
Stddev	14.743	222.53	74.122	12.0820	19.540
%RSD	1.243714	.7599299	.8328764	1.408685	1.207880
#1	1170.391	29492.54	8970.136	870.7186	1597.475
#2	1185.897	29308.65	8822.334	855.4630	1619.190
#3	1199.863	29049.59	8906.150	846.8619	1636.471

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

Sample Name: P4718-04MSD Acquired: 11/8/2024 20:09:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.140777	1.620006	.8671422	2.850079	1.182634	3.400776
Stddev	.007369	.009813	.0079713	.022810	.005755	.016110
%RSD	.6459774	.6057383	.9192659	.8003239	.4865834	.4737203
#1	1.149179	1.614884	.8728030	2.861595	1.185066	3.383597
#2	1.137743	1.631321	.8705975	2.864835	1.186774	3.403185
#3	1.135409	1.613815	.8580262	2.823807	1.176063	3.415546

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2708988	.2282832	.1739653	424.7799	.3122919	.1835876
Stddev	.0016301	.0010174	.0010616	2.7920	.0019109	.0007191
%RSD	.6017460	.4456861	.6102136	.6572926	.6118878	.3917006
#1	.2697141	.2294468	.1745635	426.0655	.3139727	.1838977
#2	.2702244	.2275608	.1745927	421.5766	.3126894	.1840996
#3	.2727579	.2278421	.1727396	426.6975	.3102135	.1827655

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2549290	4.244532	.3114451	1307.112	.4399125	.1357597
Stddev	.0030962	.033534	.0028273	11.045	.0023652	.0008768
%RSD	1.214522	.7900546	.9077928	.8449988	.5376445	.6458565
#1	.2543750	4.231579	.3123886	1307.728	.4403362	.1347597
#2	.2582648	4.219406	.3082667	1295.771	.4420371	.1363968
#3	.2521473	4.282610	.3136800	1317.835	.4373641	.1361225

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2896423	.3646027	825.9679	4.604394	.4040197
Stddev	-----	.0032422	.0031028	11.6067	.010667	.0025639
%RSD	-----	1.119372	.8510017	1.405225	.2316596	.6345991
#1	^ -----	.2883273	.3660830	812.8499	4.614476	.4062412
#2	^ -----	.2872642	.3610370	830.1490	4.593226	.4046037
#3	^ -----	.2933354	.3666881	834.9048	4.605481	.4012142

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

Sample Name: P4718-04MSD Acquired: 11/8/2024 20:09:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6116242	.2027906	7.140365	F 10.03289	F 1068.441	.6712553
Stddev	.0031911	.0031052	.050213	.04734	6.492	.0005937
%RSD	.5217346	1.531250	.7032206	.4718730	.6076146	.0884495
#1	.6132993	.2005831	7.101527	10.03494	1070.953	.6719374
#2	.6136290	.2014474	7.122500	10.07917	1073.302	.6708547
#3	.6079444	.2063414	7.197066	9.98455	1061.069	.6709738

Elem	Sr4077
Units	ppm
Avg	9.146564
Stddev	.021221
%RSD	.2320107
#1	9.158494
#2	9.122063
#3	9.159135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1110.381	28146.34	8701.255	797.3388	1530.843
Stddev	11.724	106.29	36.186	7.4187	15.040
%RSD	1.055848	.3776195	.4158659	.9304355	.9824918
#1	1103.701	28260.18	8699.830	797.8835	1519.093
#2	1103.523	28129.12	8738.132	804.4702	1525.643
#3	1123.918	28049.72	8665.803	789.6627	1547.794

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

Sample Name: P4718-04A Acquired: 11/8/2024 20:14:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.077202	1.569732	.8669944	2.692043	1.106999	3.314774
Stddev	.031185	.059312	.0350960	.047329	.018964	.068824
%RSD	2.895005	3.778487	4.048001	1.758122	1.713089	2.076295
#1	1.044432	1.517291	.8333760	2.648214	1.090276	3.300625
#2	1.080660	1.557804	.8642057	2.685687	1.103118	3.254124
#3	1.106513	1.634102	.9034015	2.742230	1.127603	3.389574

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2610748	.2210202	.1744205	402.4895	.3016824	.1825318
Stddev	.0053531	.0044775	.0076377	7.7269	.0035274	.0082020
%RSD	2.050404	2.025847	4.378884	1.919772	1.169245	4.493462
#1	.2600931	.2206573	.1673851	398.6794	.3046170	.1749467
#2	.2562804	.2167351	.1733324	397.4077	.3026613	.1814130
#3	.2668507	.2256681	.1825438	411.3815	.2977689	.1912358

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2482872	4.039710	.2951133	1234.478	.4385278	.1332291
Stddev	.0087571	.092199	.0056073	21.443	.0180717	.0034005
%RSD	3.526990	2.282321	1.900054	1.736995	4.120982	2.552358
#1	.2412310	4.026097	.2928814	1221.035	.4215652	.1340749
#2	.2455428	4.137958	.2909656	1223.192	.4364836	.1361268
#3	.2580877	3.955074	.3014929	1259.207	.4575346	.1294855

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2801250	.3524660	809.6356	4.422690	.3903058
Stddev	-----	.0050954	.0095167	20.8246	.084104	.0125921
%RSD	-----	1.818974	2.700022	2.572095	1.901653	3.226209
#1	^ -----	.2769857	.3545906	803.6121	4.412997	.3787030
#2	^ -----	.2773853	.3607408	832.8080	4.343852	.3885183
#3	^ -----	.2860042	.3420666	792.4867	4.511220	.4036961

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

Sample Name: P4718-04A Acquired: 11/8/2024 20:14:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6117566	.1922877	6.941892	9.728833	F 1053.269	.6579932
Stddev	.0306985	.0049329	.185353	.328780	42.460	.0150653
%RSD	5.018091	2.565393	2.670067	3.379438	4.031233	2.289580
#1	.5856793	.1912949	6.953467	9.420031	1014.941	.6574605
#2	.6040016	.1879266	7.121187	9.691982	1045.955	.6432013
#3	.6455890	.1976415	6.751023	10.07448	1098.910	.6733177

Elem	Sr4077
Units	ppm
Avg	8.701668
Stddev	.174482
%RSD	2.005157
#1	8.618050
#2	8.584732
#3	8.902223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1197.622	28678.00	8979.420	818.1434	1634.531
Stddev	14.407	743.67	138.725	28.8390	26.196
%RSD	1.202967	2.593178	1.544922	3.524929	1.602641
#1	1208.680	28551.39	9027.564	816.6932	1656.684
#2	1202.857	28005.76	9087.659	790.0569	1641.291
#3	1181.330	29476.85	8823.037	847.6801	1605.618

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

Sample Name: P4736-02 Acquired: 11/8/2024 20:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005001	-.003061	.0511640	.0031637	.0246302	1.687989
Stddev	.001553	.002393	.0011892	.0011034	.0004007	.032756
%RSD	31.05744	78.16454	2.324246	34.87692	1.626914	1.940530
#1	-.006679	-.002026	.0501470	.0042202	.0250676	1.652397
#2	-.004712	-.001360	.0508734	.0032520	.0242807	1.716870
#3	-.003613	-.005797	.0524715	.0020188	.0245423	1.694699

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1532125	.0002718	.0033801	18.30534	.0347673	.0054143
Stddev	.0028675	.0000352	.0001186	.33534	.0004101	.0000492
%RSD	1.871559	12.96641	3.508857	1.831945	1.179476	.9096996
#1	.1499331	.0002348	.0033848	17.93255	.0343245	.0054342
#2	.1552474	.0002756	.0032592	18.58242	.0348432	.0054505
#3	.1544571	.0003049	.0034963	18.40107	.0351341	.0053582

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2158499	16.82741	.1928874	4.676033	.0339443	.0022541
Stddev	.0017494	.10701	.0031772	.075711	.0005590	.0001117
%RSD	.8104879	.6359559	1.647167	1.619121	1.646769	4.956489
#1	.2138725	16.71048	.1896347	4.596818	.0335078	.0021595
#2	.2164809	16.85126	.1959832	4.747669	.0337507	.0022254
#3	.2171964	16.92048	.1930443	4.683614	.0345743	.0023774

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	318.0587	.0049147	.9135091	12.76279	.1050742	.0167505
Stddev	4.0549	.0009333	.0067995	.08230	.0019983	.0002780
%RSD	1.274902	18.98972	.7443306	.6448821	1.901850	1.659401
#1	313.6913	.0038413	.9071111	12.66776	.1028893	.0167421
#2	318.7804	.0055341	.9127671	12.80902	.1068094	.0164769
#3	321.7043	.0053688	.9206492	12.81159	.1055238	.0170326

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

Sample Name: P4736-02 Acquired: 11/8/2024 20:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120698	.0563147	F 16.45728	6.016235	F 19.71401	.0205251
Stddev	.0004635	.0004641	.13339	.065247	.20808	.0007889
%RSD	3.840510	.8241529	.8105149	1.084511	1.055480	3.843693
#1	.0115400	.0560587	16.30572	5.946022	19.48620	.0197341
#2	.0124006	.0560350	16.50935	6.027682	19.76181	.0205293
#3	.0122687	.0568505	16.55679	6.075001	19.89403	.0213119

Elem	Sr4077
Units	ppm
Avg	.1327494
Stddev	.0024139
%RSD	1.818391
#1	.1300463
#2	.1346900
#3	.1335118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.835	53216.69	12571.24	1780.126	3867.308
Stddev	16.685	152.92	179.96	6.475	26.825
%RSD	.6566723	.2873575	1.431555	.3637404	.6936278
#1	2559.758	53392.41	12763.67	1779.899	3896.860
#2	2534.506	53143.89	12407.09	1786.712	3860.568
#3	2528.240	53113.77	12542.96	1773.767	3844.495

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

Sample Name: PB164759BL Acquired: 11/8/2024 20:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001408	.0004583	-.000516	.0021167	.0000851	.0081745
Stddev	.0011515	.0011204	.000362	.0010718	.0000787	.0010315
%RSD	817.7939	244.4548	70.18460	50.63621	92.56357	12.61804
#1	.0005859	-.000628	-.000519	.0026001	.0001027	.0090716
#2	.0010034	.000394	-.000875	.0028616	-.000001	.0084044
#3	-.001167	.001610	-.000152	.0008883	.000154	.0070475

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007673	.0000355	.0000219	.0052190	-.000058	-.000031
Stddev	.0002049	.0000481	.0000499	.0031535	.000331	.000150
%RSD	26.70505	135.5553	228.1162	60.42275	574.0604	480.9461
#1	.0006764	.0000728	.0000099	.0078257	-.000362	-.000032
#2	.0006235	.0000523	.0000766	.0061175	-.000105	.000119
#3	.0010019	-.000019	-.000021	.0017138	.000294	-.000181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000195	.0025095	-.000095	.0427491	-.000102	.0007856
Stddev	.000226	.0020710	.000103	.0098165	.000177	.0002690
%RSD	115.5347	82.52597	108.7749	22.96299	172.9045	34.23770
#1	-.000031	.0047718	-.000066	.0329641	-.000301	.0009615
#2	-.000452	.0007073	-.000009	.0426865	.000035	.0009194
#3	-.000103	.0020494	-.000210	.0525968	-.000039	.0004760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.391967	-.000382	-.000174	.2939222	.0049642	.0000377
Stddev	.112320	.000605	.000056	.0147148	.0003283	.0002008
%RSD	4.695709	158.2232	32.19829	5.006345	6.612556	532.7021
#1	2.268888	-.001067	-.000196	.2866675	.0053140	.0002204
#2	2.418089	-.000159	-.000216	.2842436	.0046628	-.000177
#3	2.488924	.000079	-.000110	.3108556	.0049159	.000070

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

Sample Name: PB164759BL Acquired: 11/8/2024 20:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000409	.0003515	.0008207	-.009972	F .0599139	.0009482
Stddev	.000213	.0004735	.0021782	.002104	.0011333	.0014923
%RSD	52.04661	134.7102	265.3871	21.10022	1.891547	157.3759
#1	-.000357	.0003257	-.000269	-.012110	.0586122	-.000679
#2	-.000643	.0008375	.003329	-.007904	.0604486	.002252
#3	-.000227	-.000109	-.000598	-.009901	.0606809	.001272

Elem	Sr4077
Units	ppm
Avg	.0002058
Stddev	.0000277
%RSD	13.47128
#1	.0001752
#2	.0002130
#3	.0002292

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.405	62842.03	13066.04	2082.802	4842.878
Stddev	2.468	218.87	9.04	9.867	9.111
%RSD	.0836845	.3482886	.0692025	.4737338	.1881304
#1	2946.568	62590.84	13076.45	2073.156	4832.394
#2	2950.593	62991.74	13060.07	2092.876	4847.361
#3	2951.055	62943.51	13061.61	2082.373	4848.879

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

Sample Name: PB164759BS Acquired: 11/8/2024 20:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7508305	1.995619	.9722721	1.834328	.7428220	1.971042
Stddev	.0009754	.007133	.0006872	.008284	.0031894	.010028
%RSD	.1299079	.3574258	.0706798	.4515951	.4293700	.5087556
#1	.7512812	2.001926	.9717346	1.834065	.7391423	1.962483
#2	.7497113	1.987878	.9730464	1.826178	.7447947	1.968566
#3	.7514991	1.997052	.9720353	1.842739	.7445289	1.982075

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1839348	.2221564	.1909754	1.071067	.3860594	.1942203
Stddev	.0003888	.0011135	.0007356	.008511	.0035344	.0004203
%RSD	.2113726	.5012313	.3851719	.7946434	.9155119	.2164122
#1	.1837173	.2226533	.1902860	1.062431	.3829309	.1937390
#2	.1837033	.2208809	.1908905	1.071324	.3898933	.1944071
#3	.1843836	.2229349	.1917498	1.079448	.3853539	.1945149

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2932315	2.709319	.1994473	2.090771	.4868139	.0740840
Stddev	.0009866	.016578	.0013307	.007523	.0014037	.0004367
%RSD	.3364543	.6118744	.6672022	.3598411	.2883483	.5894161
#1	.2921662	2.699416	.1980598	2.082435	.4853286	.0736978
#2	.2934148	2.728457	.1995692	2.097058	.4869944	.0745578
#3	.2941136	2.700082	.2007129	2.092819	.4881186	.0739965

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 3.951931	.2992416	.2050400	8.804325	.3121720	.3954271
Stddev	.028377	.0019505	.0011070	.037892	.0014914	.0010379
%RSD	.7180559	.6517972	.5398874	.4303845	.4777584	.2624797
#1	3.923135	.2970043	.2058373	8.765678	.3130609	.3945648
#2	3.979870	.3001363	.2037761	8.805882	.3104501	.3951374
#3	3.952788	.3005842	.2055066	8.841415	.3130049	.3965790

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

Sample Name: PB164759BS Acquired: 11/8/2024 20:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6801737	.1943335	F .6502220	5.763907	F .0375664	.1671457
Stddev	.0038470	.0011068	.0036045	.014255	.0037832	.0010101
%RSD	.5655921	.5695323	.5543561	.2473182	10.07078	.6043318
#1	.6764608	.1931842	.6501866	5.752264	.0419194	.1667712
#2	.6799181	.1944241	.6538440	5.759651	.0357080	.1663763
#3	.6841421	.1953922	.6466352	5.779805	.0350718	.1682895

Elem	Sr4077
Units	ppm
Avg	.1930655
Stddev	.0006293
%RSD	.3259678
#1	.1924309
#2	.1930762
#3	.1936894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.374	58975.34	12383.13	1992.191	4509.071
Stddev	3.280	135.25	50.55	10.326	3.125
%RSD	.1168906	.2293313	.4082498	.5183001	.0693062
#1	2809.505	59018.59	12344.55	1980.307	4512.673
#2	2802.962	58823.76	12440.36	1997.303	4507.095
#3	2806.657	59083.68	12364.49	1998.963	4507.443

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

Sample Name: LR1 Acquired: 11/8/2024 20:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0279571	-.022846	.0498989	-.247816	-.003681	2172.019	.0172824
Stddev	.0097920	.004363	.0035300	.007939	.010181	3.485	.0004228
%RSD	35.02515	19.09794	7.074390	3.203455	276.6116	.1604557	2.446492
#1	.0278399	-.027547	.0484732	-.256319	-.002512	2171.283	.0168725
#2	.0182243	-.022066	.0539188	-.246530	-.014396	2168.961	.0172579
#3	.0378073	-.018926	.0473046	-.240599	.005866	2175.813	.0177170

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125681	.1759305	1672.298	-.001180	.0424663	.0342412	939.0888
Stddev	.0001999	.0010915	5.139	.001166	.0001986	.0060583	5.9712
%RSD	1.590801	.6204360	.3073038	98.80834	.4675942	17.69293	.6358515
#1	.0127118	.1747493	1677.084	.000141	.0423730	.0275233	945.6785
#2	.0123398	.1761402	1666.867	-.002065	.0423315	.0359103	937.5512
#3	.0126527	.1769020	1672.944	-.001618	.0426943	.0392899	934.0368

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.107416	1873.099	.0147570	-.027285	2012.916	.0711136	.2803678
Stddev	.000229	6.361	.0011393	.001666	17.527	.0017860	.0009479
%RSD	.2130464	.3395785	7.720673	6.107188	.8707481	2.511439	.3380758
#1	-.107174	1880.441	.0158497	-.025369	2032.345	.0722032	.2813497
#2	-.107629	1869.254	.0148452	-.028083	1998.293	.0720851	.2802956
#3	-.107445	1869.603	.0135761	-.028402	2008.110	.0690525	.2794581

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1293.443	.2285480	-.006756	.0134374	-.038076	.1294179	.1403685
Stddev	14.483	.0066511	.001856	.0034602	.000189	.0059254	.0088516
%RSD	1.119738	2.910139	27.46759	25.75027	.4975329	4.578472	6.305964
#1	1308.151	.2342059	-.008703	.0164989	-.037947	.1259492	.1411469
#2	1292.985	.2302165	-.006557	.0141300	-.038293	.1362597	.1311534
#3	1279.195	.2212215	-.005007	.0096834	-.037986	.1260449	.1488052

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

Sample Name: LR1 Acquired: 11/8/2024 20:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.164638	.5201921	-.926747
Stddev	.004045	.0006513	.005987
%RSD	2.456984	.1251938	.6460023
#1	-.169107	.5200584	-.933372
#2	-.161227	.5208998	-.925142
#3	-.163581	.5196181	-.921726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.271	37216.35	9846.386	1170.599	2248.061
Stddev	4.072	51.98	27.911	3.430	1.434
%RSD	.2452357	.1396804	.2834653	.2930032	.0637669
#1	1655.646	37166.98	9876.299	1168.403	2248.124
#2	1663.315	37270.61	9841.818	1174.551	2249.462
#3	1661.852	37211.46	9821.040	1168.841	2246.597

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

Sample Name: LR2 Acquired: 11/8/2024 20:42:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118242	-.049010	230.8096	.0060641	-.001821	.1117137	^F *****
Stddev	.0030265	.002585	.1756	.0027775	.001048	.0040102	-----
%RSD	25.59613	5.274275	.0760682	45.80214	57.53693	3.589744	-----
#1	.0126458	-.047372	230.6268	.0072743	-.000741	.1079798	^ -----
#2	.0084717	-.051990	230.9769	.0028868	-.001889	.1112090	^ -----
#3	.0143552	-.047668	230.8253	.0080312	-.002833	.1159525	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003269	-.007625	.3083927	.0102693	-.019841	269.0277	-.003820
Stddev	.000056	.000092	.0007733	.0004030	.000104	.8981	.005392
%RSD	1.722492	1.213041	.2507525	3.923790	.5236127	.3338147	141.1523
#1	-.003263	-.007624	.3084767	.0100773	-.019815	269.9866	-.009197
#2	-.003215	-.007718	.3091205	.0099983	-.019956	268.8902	-.003850
#3	-.003327	-.007533	.3075808	.0107323	-.019754	268.2063	.001587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.97217	-.026157	45.55941	.0023177	1.053208	-.018104	38.41361
Stddev	.27373	.003392	.03482	.0003470	.004773	.000753	.27601
%RSD	.6369856	12.96853	.0764235	14.97180	.4532158	4.159343	.7185220
#1	42.81793	-.024871	45.53080	.0021548	1.051576	-.017886	38.52102
#2	43.28822	-.023597	45.59817	.0027162	1.058583	-.018942	38.61977
#3	42.81037	-.030005	45.54925	.0020820	1.049464	-.017485	38.10004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3766292	.0011119	-.004427	-.005573	-.040946	-.011839	2.860381
Stddev	.0177724	.0000735	.000113	.000618	.000210	.001216	.015705
%RSD	4.718812	6.608771	2.546055	11.09157	.5121442	10.27490	.5490660
#1	.3711182	.0011968	-.004321	-.005999	-.040772	-.011775	2.874111
#2	.3965043	.0010685	-.004545	-.005855	-.040887	-.010656	2.863776
#3	.3622651	.0010705	-.004414	-.004864	-.041179	-.013086	2.843255

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

Sample Name: LR2 Acquired: 11/8/2024 20:42:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007288	-.000869	.0019381
Stddev	.002633	.000183	.0000208
%RSD	36.12456	21.03169	1.072867
#1	-.007613	-.001071	.0019170
#2	-.009743	-.000715	.0019387
#3	-.004508	-.000821	.0019586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2426.055	58450.62	12666.86	1861.191	4337.617
Stddev	9.874	143.54	64.78	4.328	5.811
%RSD	.4069837	.2455667	.5114366	.2325152	.1339713
#1	2417.021	58323.16	12703.36	1858.548	4333.933
#2	2424.550	58422.61	12592.06	1858.840	4334.601
#3	2436.595	58606.10	12705.16	1866.185	4344.316

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

Sample Name: CCV08 Acquired: 11/8/2024 20:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.616722	4.807179	4.791205	4.666160	4.621111	9.426317
Stddev	.004309	.065157	.010431	.001745	.004811	.033084
%RSD	.0933339	1.355413	.2177142	.0373979	.1041109	.3509752
#1	4.617843	4.881553	4.784462	4.668166	4.615606	9.388188
#2	4.611963	4.760153	4.785932	4.664992	4.624507	9.443334
#3	4.620359	4.779830	4.803220	4.665322	4.623221	9.447429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.196599	.2574319	2.367917	23.98577	.9201237	2.372450
Stddev	.017323	.0005153	.004942	.04645	.0018149	.006286
%RSD	.1883620	.2001819	.2086910	.1936574	.1972451	.2649604
#1	9.202200	.2577457	2.365792	23.93215	.9199846	2.368201
#2	9.177168	.2577129	2.364393	24.01134	.9183824	2.369477
#3	9.210428	.2568372	2.373565	24.01381	.9220042	2.379671

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174931	4.517925	2.298115	24.60944	2.376123	1.192967
Stddev	.001493	.009666	.002777	.09248	.006229	.001539
%RSD	.1270437	.2139479	.1208396	.3758020	.2621459	.1289981
#1	1.173623	4.510282	2.295422	24.51504	2.372263	1.191350
#2	1.174614	4.514702	2.300969	24.61340	2.372798	1.194414
#3	1.176557	4.528791	2.297952	24.69988	2.383309	1.193136

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.18078	2.372001	2.376213	25.74665	4.931008	4.725030
Stddev	.11982	.008401	.004176	.09356	.012421	.004601
%RSD	.4955031	.3541576	.1757280	.3634020	.2518962	.0973758
#1	24.28996	2.362395	2.374465	25.64905	4.938229	4.728164
#2	24.19978	2.375639	2.373196	25.75534	4.938129	4.719748
#3	24.05260	2.377970	2.380979	25.83557	4.916665	4.727179

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

Sample Name: CCV08 Acquired: 11/8/2024 20:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.715540	4.524666	F 4.403019	4.970487	4.613204	F 4.133384
Stddev	.012232	.010646	.049904	.015808	.024492	.016280
%RSD	.2593940	.2352869	1.133397	.3180444	.5309044	.3938741
#1	4.719557	4.513037	4.351821	4.957305	4.633673	4.128683
#2	4.701805	4.533932	4.405716	4.966144	4.586069	4.151498
#3	4.725258	4.527029	4.451519	4.988013	4.619869	4.119972

Elem	Sr4077
Units	ppm
Avg	4.547920
Stddev	.019920
%RSD	.4379954
#1	4.540762
#2	4.532569
#3	4.570430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2712.554	57884.42	12896.71	1916.473	4183.716
Stddev	3.457	10.85	29.25	1.183	5.560
%RSD	.1274291	.0187468	.2268046	.0617457	.1328883
#1	2716.123	57887.46	12871.68	1915.288	4189.333
#2	2709.221	57872.38	12889.60	1917.655	4183.601
#3	2712.318	57893.44	12928.86	1916.477	4178.215

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

Sample Name: CCB08 Acquired: 11/8/2024 20:57:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011657	-.000291	.0009178	.0018927	-.000321	.0117278	-.000454
Stddev	.0015272	.001258	.0014404	.0004019	.000362	.0044263	.000318
%RSD	131.0110	431.5960	156.9400	21.23671	112.9838	37.74175	69.98376
#1	.0004349	-.001292	-.000443	.0022402	-.000607	.0089447	-.000804
#2	.0029209	.001121	.002426	.0019852	.000087	.0168318	-.000372
#3	.0001412	-.000703	.000770	.0014525	-.000441	.0094068	-.000185

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000487	.0000559	.0086707	-.000076	.0000860	.0005180	.0034190
Stddev	.0000326	.0001445	.0086966	.000472	.0000526	.0002007	.0028340
%RSD	66.88787	258.2344	100.2982	620.9081	61.19895	38.73862	82.89117
#1	.0000776	-.000104	.0010047	.000189	.0001447	.0003687	.0017868
#2	.0000134	.000095	.0181211	.000204	.0000430	.0004392	.0017787
#3	.0000551	.000177	.0068864	-.000620	.0000703	.0007461	.0066914

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001845	.0090901	.0003914	.0006094	.7201963	-.000234	-.000230
Stddev	.0002035	.0039297	.0001836	.0001464	.0412665	.001001	.000173
%RSD	110.3530	43.23112	46.91725	24.02934	5.729903	427.0090	75.27106
#1	.0000347	.0092222	.0005668	.0004667	.6792704	.000767	-.000369
#2	.0004162	.0050959	.0004070	.0007593	.7195233	-.001234	-.000036
#3	.0001024	.0129520	.0002005	.0006022	.7617953	-.000236	-.000285

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2658565	.0011807	.0001894	-.000034	.0005673	-.007905	-.008673
Stddev	.0419041	.0005142	.0002370	.000885	.0002296	.001562	.002717
%RSD	15.76193	43.55012	125.0943	2639.789	40.47003	19.76231	31.32386
#1	.2236143	.0006730	.0004628	.000107	.0003036	-.006147	-.006165
#2	.2665411	.0017012	.0000413	.000773	.0006753	-.008432	-.011559
#3	.3074141	.0011680	.0000643	-.000980	.0007228	-.009136	-.008294

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

Sample Name: CCB08 Acquired: 11/8/2024 20:57:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0082360	-.001161	.0001181
Stddev	.0021626	.001157	.0000185
%RSD	26.25719	99.61378	15.69229
#1	.0086656	-.000233	.0001109
#2	.0058909	-.002457	.0001391
#3	.0101516	-.000794	.0001042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.431	61197.97	13361.48	1993.747	4736.770
Stddev	8.666	239.23	26.68	5.695	13.981
%RSD	.3044537	.3909160	.1996604	.2856376	.2951648
#1	2836.451	61366.45	13364.13	1997.981	4721.175
#2	2852.059	60924.14	13333.57	1995.989	4740.950
#3	2850.783	61303.31	13386.73	1987.273	4748.184

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

Sample Name: PB164646BL Acquired: 11/8/2024 21:02:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	.0010872	.0004009	-.000031	-.000362	.0073798	-.000335
Stddev	.001205	.0005289	.0003182	.000877	.000075	.0042442	.000193
%RSD	3045.089	48.64583	79.37101	2872.858	20.77950	57.51056	57.69406
#1	-.000779	.0004776	.0000346	-.000693	-.000307	.0070932	-.000557
#2	.001351	.0014233	.0006088	-.000362	-.000332	.0032862	-.000240
#3	-.000691	.0013609	.0005593	.000964	-.000448	.0117600	-.000208

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000559	.0000291	-.033793	-.001225	-.000034	.0006490	-.007765
Stddev	.0000181	.0000246	.005739	.000304	.000104	.0001352	.000345
%RSD	32.42771	84.62223	16.98218	24.78280	304.1417	20.83573	4.442714
#1	.0000753	.0000567	-.036166	-.001013	.000083	.0007488	-.008163
#2	.0000394	.0000095	-.037964	-.001573	-.000115	.0007032	-.007573
#3	.0000530	.0000211	-.027248	-.001090	-.000069	.0004951	-.007558

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000163	.0148564	-.000259	.0006973	.6235548	-.000319	-.002527
Stddev	.000170	.0048467	.000123	.0002999	.0255722	.000764	.000119
%RSD	104.3353	32.62362	47.64135	43.00454	4.101033	239.2804	4.726444
#1	-.000165	.0092759	-.000400	.0009246	.5941613	.000562	-.002633
#2	-.000331	.0180122	-.000178	.0008099	.6358109	-.000779	-.002398
#3	.000008	.0172811	-.000197	.0003574	.6406921	-.000741	-.002550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2002625	.0005170	.0000588	.0021857	.0004195	-.005052	-.009279
Stddev	.0129443	.0004155	.0002445	.0004175	.0001807	.004087	.002915
%RSD	6.463662	80.36900	416.1045	19.10120	43.06677	80.89827	31.41312
#1	.1861573	.0001457	-.000196	.0017044	.0006092	-.007160	-.010765
#2	.2115973	.0009658	.000291	.0024499	.0004000	-.007655	-.011152
#3	.2030328	.0004395	.000081	.0024027	.0002494	-.000341	-.005921

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

Sample Name: PB164646BL Acquired: 11/8/2024 21:02:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0048172	-.001858	-.000001
Stddev	.0020454	.000553	.000006
%RSD	42.45993	29.76387	497.6874
#1	.0032135	-.001229	.000001
#2	.0071206	-.002269	-.000007
#3	.0041175	-.002077	.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.182	63744.20	13558.60	2116.884	4933.745
Stddev	7.009	14.33	14.38	14.015	10.857
%RSD	.2352018	.0224748	.1060860	.6620486	.2200520
#1	2979.431	63755.31	13565.85	2106.055	4934.989
#2	2987.537	63728.03	13567.92	2111.883	4943.926
#3	2973.579	63749.25	13542.03	2132.713	4922.319

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

Sample Name: PB164646BS Acquired: 11/8/2024 21:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7252266	1.929886	.9315700	1.778740	.7053910	1.909258
Stddev	.0013679	.024475	.0008162	.003905	.0038655	.003209
%RSD	.1886172	1.268198	.0876152	.2195360	.5479932	.1680876
#1	.7251299	1.916016	.9318938	1.776627	.7027868	1.907382
#2	.7266403	1.958145	.9306416	1.783246	.7098324	1.912964
#3	.7239097	1.915496	.9321746	1.776347	.7035536	1.907429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1779691	.2116532	.1817071	.9790547	.3682215	.1856210
Stddev	.0005725	.0009524	.0002353	.0069103	.0011659	.0004094
%RSD	.3216890	.4500055	.1294704	.7058179	.3166380	.2205484
#1	.1783729	.2107611	.1817129	.9808172	.3678710	.1858058
#2	.1782207	.2115422	.1819394	.9714338	.3695225	.1851518
#3	.1773139	.2126562	.1814690	.9849131	.3672711	.1859054

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2821111	2.608539	.1937573	1.990484	.4643864	.0711566
Stddev	.0004618	.007141	.0005590	.012735	.0003203	.0003556
%RSD	.1636917	.2737513	.2884879	.6398124	.0689697	.4997493
#1	.2826109	2.614461	.1939896	1.999984	.4645013	.0715668
#2	.2820220	2.600609	.1941627	1.976013	.4646334	.0709351
#3	.2817003	2.610545	.1931197	1.995455	.4640245	.0709679

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.766514	.2886567	.1935147	8.453685	.2963103	.3723907
Stddev	.007416	.0018315	.0003995	.062059	.0015589	.0007878
%RSD	.2680740	.6344959	.2064678	.7341080	.5260976	.2115478
#1	2.766890	.2904837	.1934666	8.497729	.2945305	.3721589
#2	2.773736	.2868208	.1931414	8.480616	.2969675	.3732684
#3	2.758917	.2886655	.1939361	8.382709	.2974330	.3717449

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

Sample Name: PB164646BS Acquired: 11/8/2024 21:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6408186	.1833903	F .6082665	5.574129	F -.004028	.1633561
Stddev	.0004111	.0005205	.0018326	.007230	.002559	.0015715
%RSD	.0641553	.2838301	.3012817	.1297109	63.52496	.9620162
#1	.6408402	.1830543	.6064032	5.565884	-.001074	.1648666
#2	.6403971	.1839899	.6100667	5.577115	-.005487	.1634717
#3	.6412185	.1831267	.6083296	5.579389	-.005525	.1617300

Elem	Sr4077
Units	ppm
Avg	.1867209
Stddev	.0006857
%RSD	.3672415
#1	.1872527
#2	.1869632
#3	.1859470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.761	62740.01	13183.29	2112.185	4772.116
Stddev	7.106	184.98	29.63	13.933	5.850
%RSD	.2396062	.2948364	.2247693	.6596586	.1225914
#1	2961.862	62526.71	13190.66	2100.718	4766.591
#2	2961.457	62856.37	13208.54	2127.692	4771.512
#3	2973.963	62836.95	13150.67	2108.145	4778.245

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

Sample Name: PB164645BL Acquired: 11/8/2024 21:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006808	.0010720	.0001649	.0010969	-.000676	.0013564	-.000209
Stddev	.0022165	.0013006	.0008922	.0005701	.000916	.0016534	.000640
%RSD	325.5788	121.3273	541.1521	51.96806	135.5856	121.9032	306.0378
#1	-.001555	.0021811	.0008480	.0011168	-.001568	.0008388	.000397
#2	.000720	-.000360	-.000845	.0016568	-.000723	.0032066	-.000146
#3	.002877	.001395	.000491	.0005172	.000263	.0000236	-.000878

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000648	.0000311	.0005237	-.000083	.0000625	-.000099	-.001611
Stddev	.0000395	.0000629	.0041903	.000188	.0000791	.000105	.001208
%RSD	61.01362	202.2129	800.0758	226.3991	126.6254	105.4867	74.99378
#1	.0000195	.0000476	-.004048	.000001	.0000669	-.000205	-.002301
#2	.0000827	.0000841	.004182	-.000299	-.000019	-.000097	-.000216
#3	.0000921	-.000038	.001437	.000049	.000139	.000004	-.002316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000196	.0084058	.0001316	.0007275	.4498259	-.000481	-.000203
Stddev	.000164	.0009645	.0002148	.0001500	.0441781	.000972	.000190
%RSD	83.67904	11.47371	163.2589	20.61842	9.821149	201.8658	93.89306
#1	-.000362	.0087900	.0000505	.0006214	.4099879	-.000263	-.000346
#2	-.000191	.0091190	-.000031	.0008991	.4421513	.000362	-.000275
#3	-.000035	.0073085	.000375	.0006619	.4973384	-.001544	.000013

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1305169	-.000031	.0001174	-.000714	.0004583	-.006312	-.009438
Stddev	.0072634	.000258	.0001232	.000474	.0001103	.003752	.001391
%RSD	5.565102	820.0189	104.9677	66.34315	24.05921	59.44580	14.73979
#1	.1286604	.000068	.0001930	-.000293	.0005853	-.003144	-.010736
#2	.1385283	.000161	.0001839	-.000623	.0004031	-.010456	-.009610
#3	.1243619	-.000324	-.000025	-.001227	.0003866	-.005336	-.007969

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

Sample Name: PB164645BL Acquired: 11/8/2024 21:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0030011	-.001691	-.000014
Stddev	.0018049	.001980	.000027
%RSD	60.14207	117.0595	189.3054
#1	.0018629	-.002210	.000011
#2	.0020582	-.003360	-.000044
#3	.0050822	.000496	-.000010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2919.633	63644.83	13303.65	2078.903	4847.990
Stddev	10.750	110.98	65.93	6.494	11.594
%RSD	.3681896	.1743774	.4955705	.3123826	.2391594
#1	2926.339	63651.74	13274.41	2071.406	4855.717
#2	2925.326	63752.20	13257.41	2082.479	4853.594
#3	2907.234	63530.56	13379.15	2082.823	4834.658

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

Sample Name: PB164645BS Acquired: 11/8/2024 21:14:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7399549	1.913762	.9392173	1.825166	.7204642	1.910890
Stddev	.0030106	.034571	.0015480	.005622	.0010949	.004655
%RSD	.4068613	1.806443	.1648180	.3080011	.1519723	.2436180
#1	.7388034	1.890360	.9399558	1.820786	.7193529	1.906058
#2	.7376900	1.897456	.9374384	1.823206	.7204978	1.911265
#3	.7433713	1.953471	.9402578	1.831505	.7215419	1.915346

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1733709	.2095994	.1831450	1.007579	.3633557	.1867877
Stddev	.0007176	.0007245	.0002918	.007866	.0004175	.0003992
%RSD	.4139347	.3456767	.1593398	.7806695	.1148917	.2137207
#1	.1726145	.2088689	.1832558	.998499	.3633355	.1866730
#2	.1740421	.2103179	.1828140	1.012321	.3629487	.1864585
#3	.1734562	.2096114	.1833652	1.011916	.3637829	.1872318

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2868487	2.600512	.1894449	1.979825	.4690366	.0718285
Stddev	.0005504	.006610	.0011038	.013339	.0005032	.0001510
%RSD	.1918694	.2541746	.5826710	.6737371	.1072839	.2101940
#1	.2874717	2.598207	.1884001	1.967539	.4691653	.0719849
#2	.2864282	2.607966	.1905996	1.977923	.4684815	.0718171
#3	.2866463	2.595363	.1893350	1.994013	.4694629	.0716836

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.643332	.2884001	.1982821	8.482898	.2937874	.3780359
Stddev	.014692	.0023788	.0004883	.018147	.0014376	.0006049
%RSD	.5558067	.8248280	.2462616	.2139245	.4893470	.1600135
#1	2.632659	.2856636	.1978004	8.491943	.2922106	.3776251
#2	2.637249	.2895619	.1982694	8.462006	.2950254	.3777521
#3	2.660089	.2899747	.1987767	8.494745	.2941263	.3787306

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

Sample Name: PB164645BS Acquired: 11/8/2024 21:14:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6409927	.1820987	F .6280417	5.496467	F -.005792	F .1565216
Stddev	.0030257	.0009932	.0012766	.020282	.002342	.0015645
%RSD	.4720346	.5454005	.2032702	.3690040	40.43067	.9995438
#1	.6392906	.1812520	.6269760	5.515212	-.007968	.1547158
#2	.6392013	.1831919	.6276925	5.474936	-.003314	.1574700
#3	.6444861	.1818521	.6294566	5.499252	-.006094	.1573789

Elem	Sr4077
Units	ppm
Avg	.1846321
Stddev	.0003752
%RSD	.2032019
#1	.1842023
#2	.1848001
#3	.1848939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.581	60635.94	12973.91	1987.167	4578.416
Stddev	5.039	107.46	36.73	9.911	9.787
%RSD	.1785829	.1772253	.2831132	.4987602	.2137609
#1	2815.779	60549.47	13016.26	1991.565	4567.997
#2	2824.865	60756.25	12950.74	1994.117	4587.416
#3	2824.098	60602.10	12954.72	1975.817	4579.834

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

Sample Name: P4718-04DLX10 Acquired: 11/8/2024 21:18:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019348	-.001902	-.000460	.0025540	.0002009	.0799099
Stddev	.0022579	.000204	.000462	.0011434	.0012944	.0027068
%RSD	116.6969	10.74585	100.3331	44.76730	644.3148	3.387300
#1	-.000399	-.001933	.000004	.0037633	-.001164	.0825311
#2	.002095	-.001684	-.000920	.0024082	.001411	.0771249
#3	.004109	-.002090	-.000465	.0014905	.000355	.0800736

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049165	.0000530	-.000016	48.28117	.0000314	.0001735
Stddev	.0007692	.0000271	.000070	.27527	.0005814	.0000874
%RSD	15.64644	51.05369	438.9229	.5701493	1849.163	50.36906
#1	.0040797	.0000628	.000056	47.96400	-.000245	.0001290
#2	.0050767	.0000739	-.000019	48.45786	.000700	.0001174
#3	.0055930	.0000224	-.000084	48.42165	-.000361	.0002742

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000085	.1047945	.0154662	152.7730	.0007237	.0005018
Stddev	.000124	.0072103	.0004129	1.0955	.0001253	.0001930
%RSD	145.5500	6.880386	2.669636	.7170503	17.31531	38.46754
#1	-.000223	.1110892	.0150164	151.5097	.0008216	.0003770
#2	.000019	.0969280	.0158279	153.4593	.0005824	.0007242
#3	-.000052	.1063664	.0155544	153.3501	.0007669	.0004043

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1021.281	.0031573	.0014538	46.92520	.5023747	.0013292
Stddev	12.139	.0018660	.0002949	.70665	.0039016	.0002279
%RSD	1.188559	59.10019	20.28690	1.505916	.7766295	17.14578
#1	1011.999	.0049300	.0017924	46.40559	.4979365	.0010663
#2	1016.826	.0012103	.0012531	46.64014	.5052644	.0014510
#3	1035.017	.0033317	.0013159	47.72985	.5039231	.0014703

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

Sample Name: P4718-04DLX10 Acquired: 11/8/2024 21:18:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003733	.0042312	.5039025	.0375746	F 113.1817	.0272437
Stddev	.000763	.0008500	.0353313	.0015149	3.4457	.0008915
%RSD	20.43827	20.08950	7.011538	4.031699	3.044371	3.272408
#1	-.004019	.0038801	.5126048	.0366719	109.9896	.0280611
#2	-.004311	.0036130	.4650331	.0393236	112.7209	.0273767
#3	-.002868	.0052005	.5340695	.0367285	116.8346	.0262931

Elem	Sr4077
Units	ppm
Avg	.8500414
Stddev	.0023130
%RSD	.2721080
#1	.8495360
#2	.8525653
#3	.8480228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2265.946	48858.55	11907.18	1636.856	3271.044
Stddev	64.168	780.35	47.38	23.727	89.620
%RSD	2.831821	1.597169	.3979183	1.449561	2.739785
#1	2334.526	49551.69	11949.12	1659.033	3361.701
#2	2255.949	49010.59	11855.78	1639.700	3268.932
#3	2207.364	48013.36	11916.63	1611.835	3182.499

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

Sample Name: P4718-04DUPDLX10 Acquired: 11/8/2024 21:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022070	-.002875	.0002330	.0005451	-.001352	.0310374
Stddev	.0033068	.001960	.0009795	.0009354	.001341	.0036158
%RSD	149.8301	68.17478	420.4523	171.5852	99.18339	11.64997
#1	.0036205	-.001954	-.000007	.0004195	-.000567	.0328333
#2	-.001572	-.005127	.001310	-.000321	-.000588	.0334036
#3	.004572	-.001545	-.000604	.001537	-.002900	.0268752

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050994	.0000795	.0000160	48.06735	-.000171	-.000065
Stddev	.0007389	.0000399	.0001850	.23761	.000391	.000254
%RSD	14.48997	50.22998	1154.598	.4943366	228.2934	390.8937
#1	.0059226	.0000444	.0000699	48.33873	-.000449	-.000350
#2	.0044935	.0001229	-.000190	47.89665	.000276	.000019
#3	.0048823	.0000712	.000168	47.96667	-.000341	.000137

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003670	.0922420	.0151379	151.4949	.0004958	.0003649
Stddev	.0005496	.0046943	.0003379	.9940	.0001927	.0002654
%RSD	149.7682	5.089126	2.232218	.6561538	38.87770	72.74269
#1	.0009648	.0880969	.0151272	152.5724	.0004225	.0003798
#2	.0002524	.0912895	.0154811	150.6137	.0003504	.0000923
#3	-.000116	.0973395	.0148055	151.2985	.0007144	.0006225

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1030.224	.0023174	.0014656	46.78398	.4996840	.0013228
Stddev	9.377	.0005466	.0002511	.24039	.0060345	.0001205
%RSD	.9102307	23.58474	17.13565	.5138273	1.207661	9.110646
#1	1040.703	.0019062	.0014345	46.52358	.5066053	.0012522
#2	1027.350	.0021084	.0017308	46.99742	.4969210	.0012542
#3	1022.620	.0029376	.0012315	46.83095	.4955256	.0014620

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

Sample Name: P4718-04DUPDLX10 Acquired: 11/8/2024 21:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003897	.0015763	.3807527	.0350512	F 111.9835	.0243421
Stddev	.000541	.0006540	.0051927	.0018717	.0391	.0003746
%RSD	13.89229	41.49379	1.363799	5.339873	.0348843	1.538817
#1	-.004283	.0014087	.3808514	.0363393	111.9384	.0239105
#2	-.003278	.0022978	.3858954	.0329042	112.0047	.0245824
#3	-.004129	.0010223	.3755114	.0359099	112.0074	.0245334

Elem	Sr4077
Units	ppm
Avg	.8469684
Stddev	.0013506
%RSD	.1594676
#1	.8483220
#2	.8469625
#3	.8456208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.504	49298.29	12002.56	1663.754	3371.648
Stddev	1.928	84.03	114.92	7.023	2.017
%RSD	.0817574	.1704462	.9574572	.4221451	.0598247
#1	2356.487	49201.28	11871.05	1658.035	3373.190
#2	2360.329	49348.36	12083.67	1661.633	3369.366
#3	2358.697	49345.23	12052.95	1671.593	3372.389

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

Sample Name: P4718-04LDLX50 Acquired: 11/8/2024 21:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000932	-.000326	.0000790	.0015567	-.000782	.0073193
Stddev	.002046	.001721	.0003499	.0011063	.000287	.0044483
%RSD	219.4997	528.0743	442.7201	71.06830	36.68571	60.77510
#1	-.002552	.001272	-.000196	.0010329	-.000835	.0116877
#2	-.001611	-.002148	.000473	.0008096	-.001038	.0027952
#3	.001367	-.000102	-.000039	.0028277	-.000472	.0074749

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001590	.0000868	-.000071	9.747377	-.000238	.0000231
Stddev	.0003648	.0000578	.000057	.043882	.000451	.0000582
%RSD	229.3718	66.60015	79.89554	.4501905	189.7590	252.3989
#1	.0003554	.0001099	-.000006	9.789707	-.000606	-.000042
#2	.0003835	.0000210	-.000110	9.750333	.000265	.000041
#3	-.000262	.0001294	-.000096	9.702093	-.000372	.000070

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000063	.0166028	.0030811	29.50375	-.000017	.0005406
Stddev	.000320	.0036792	.0001510	.18365	.000209	.0001857
%RSD	507.9478	22.16039	4.901845	.6224627	1265.571	34.35720
#1	-.000039	.0205769	.0030959	29.67722	.000153	.0003701
#2	-.000395	.0159163	.0032243	29.52265	.000048	.0007385
#3	.000244	.0133151	.0029233	29.31139	-.000251	.0005132

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	200.8635	.0003348	-.000886	8.343977	.1036097	.0003836
Stddev	2.9836	.0006865	.000178	.106427	.0006546	.0001990
%RSD	1.485370	205.0409	20.03002	1.275496	.6317996	51.88841
#1	204.1109	.0000945	-.000761	8.250448	.1040492	.0003183
#2	198.2436	.0011092	-.001089	8.321704	.1039225	.0006071
#3	200.2361	-.000199	-.000809	8.459778	.1028573	.0002254

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

Sample Name: P4718-04LDLX50 Acquired: 11/8/2024 21:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002653	.0007341	.0616788	-.003602	F 20.11356	.0035428
Stddev	.000415	.0008244	.0063844	.000424	.09244	.0017555
%RSD	15.64748	112.3040	10.35098	11.77042	.4596048	49.55074
#1	-.002255	.0016741	.0543232	-.003261	20.14982	.0038364
#2	-.003083	.0001337	.0657825	-.004077	20.18237	.0051329
#3	-.002621	.0003946	.0649308	-.003470	20.00848	.0016590

Elem	Sr4077
Units	ppm
Avg	.1656642
Stddev	.0003988
%RSD	.2407493
#1	.1652991
#2	.1656037
#3	.1660899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2660.517	57027.61	12841.55	1888.152	4040.641
Stddev	12.053	67.81	115.83	4.118	12.162
%RSD	.4530300	.1189000	.9019761	.2180877	.3009894
#1	2652.036	57104.08	12732.43	1887.365	4031.625
#2	2655.201	57003.92	12829.14	1892.606	4035.823
#3	2674.314	56974.83	12963.08	1884.484	4054.473

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

Sample Name: P4718-04MSDLX10 Acquired: 11/8/2024 21:31:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0815914	.1670638	.0937744	.2001093	.0759058	.2245844
Stddev	.0008900	.0024761	.0020420	.0034717	.0012140	.0054854
%RSD	1.090866	1.482130	2.177571	1.734924	1.599387	2.442484
#1	.0824955	.1656945	.0921496	.2025510	.0747107	.2277709
#2	.0815628	.1699221	.0931070	.1961350	.0758689	.2182504
#3	.0807160	.1655747	.0960666	.2016419	.0771379	.2277318

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210571	.0203907	.0193581	46.10014	.0354142	.0192826
Stddev	.0003893	.0000993	.0000957	.28683	.0002264	.0002421
%RSD	1.848640	.4867948	.4941643	.6221868	.6392675	1.255512
#1	.0215063	.0204676	.0193612	46.30536	.0352645	.0194579
#2	.0208192	.0204258	.0192609	46.22267	.0356746	.0193835
#3	.0208458	.0202786	.0194522	45.77240	.0353034	.0190063

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263593	.3702532	.0329133	145.7667	.0485862	.0085780
Stddev	.0003522	.0050683	.0001363	1.0119	.0002210	.0001145
%RSD	1.336005	1.368870	.4141732	.6941901	.4548082	1.335045
#1	.0259667	.3651438	.0327567	146.5832	.0487211	.0086144
#2	.0266473	.3752794	.0329779	146.0823	.0487063	.0084497
#3	.0264640	.3703364	.0330053	144.6346	.0483312	.0086699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	983.2345	.0294110	.0227233	45.84441	.5068769	.0386234
Stddev	5.9298	.0006265	.0002958	.36330	.0038861	.0000209
%RSD	.6030952	2.130198	1.301846	.7924643	.7666815	.0540366
#1	990.0602	.0297974	.0230544	45.53627	.5107389	.0386080
#2	979.3526	.0286881	.0224851	45.75197	.5069247	.0386151
#3	980.2905	.0297474	.0226303	46.24501	.5029670	.0386471

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

Sample Name: P4718-04MSDLX10 Acquired: 11/8/2024 21:31:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0620366	.0191703	.4346477	.7510728	F 107.3500	.0398299
Stddev	.0004186	.0005479	.0046271	.0004786	.1932	.0003231
%RSD	.6748222	2.858261	1.064559	.0637194	.1799660	.8111566
#1	.0623785	.0188631	.4341676	.7506272	107.4866	.0395088
#2	.0621615	.0188449	.4302793	.7515787	107.1290	.0401550
#3	.0615697	.0198029	.4394961	.7510125	107.4345	.0398259

Elem	Sr4077
Units	ppm
Avg	.8265518
Stddev	.0011328
%RSD	.1370515
#1	.8255774
#2	.8262833
#3	.8277948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2328.497	49605.79	12150.61	1660.714	3359.543
Stddev	22.764	148.31	108.31	14.875	23.348
%RSD	.9776366	.2989701	.8914042	.8956792	.6949651
#1	2341.330	49434.56	12044.17	1647.021	3365.928
#2	2341.948	49689.22	12146.97	1676.540	3379.034
#3	2302.214	49693.59	12260.70	1658.582	3333.667

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

Sample Name: P4718-04MSDDLX10 Acquired: 11/8/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0845275	.1742898	.0953040	.2081721	.0794618	.2321365
Stddev	.0024618	.0047057	.0024932	.0022685	.0006487	.0109413
%RSD	2.912470	2.699914	2.616015	1.089703	.8163881	4.713285
#1	.0873646	.1696905	.0934226	.2075076	.0788322	.2446589
#2	.0832631	.1740838	.0943577	.2106985	.0801281	.2273252
#3	.0829548	.1790951	.0981318	.2063100	.0794250	.2244253

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196809	.0200241	.0195716	45.87434	.0360368	.0200119
Stddev	.0003808	.0000683	.0000974	.36497	.0002239	.0001144
%RSD	1.934803	.3413537	.4974581	.7955873	.6212871	.5715980
#1	.0195514	.0200078	.0195482	46.05333	.0358077	.0199463
#2	.0193818	.0199653	.0194881	45.45442	.0360478	.0199455
#3	.0201096	.0200991	.0196785	46.11525	.0362550	.0201440

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274911	.3821267	.0329742	144.5392	.0491029	.0089794
Stddev	.0003639	.0005907	.0004866	1.1193	.0007372	.0001602
%RSD	1.323600	.1545832	1.475616	.7743996	1.501334	1.784036
#1	.0271489	.3821402	.0333514	144.6420	.0487419	.0088545
#2	.0278733	.3815294	.0324250	143.3720	.0486158	.0091600
#3	.0274511	.3827105	.0331463	145.6035	.0499510	.0089237

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1038.227	.0303340	.0232631	48.41081	.4999648	.0399397
Stddev	14.475	.0007867	.0002425	.19597	.0028499	.0000070
%RSD	1.394177	2.593459	1.042264	.4048116	.5700185	.0176101
#1	1054.723	.0296746	.0235179	48.62190	.5029647	.0399320
#2	1032.310	.0312048	.0232361	48.37588	.4972935	.0399459
#3	1027.649	.0301227	.0230352	48.23466	.4996362	.0399411

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

Sample Name: P4718-04MSDDLX10 Acquired: 11/8/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633924	.0190989	.4542252	.7574191	F 109.8008	.0414790
Stddev	.0015689	.0005470	.0091587	.0040589	.6483	.0001642
%RSD	2.474958	2.863892	2.016326	.5358816	.5904151	.3958872
#1	.0632177	.0188304	.4464253	.7563410	109.4370	.0416686
#2	.0619181	.0187381	.4643100	.7540080	109.4163	.0413825
#3	.0650414	.0197282	.4519403	.7619081	110.5493	.0413859

Elem	Sr4077
Units	ppm
Avg	.8477434
Stddev	.0100338
%RSD	1.183593
#1	.8591032
#2	.8400903
#3	.8440366

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2243.137	49150.11	12419.12	1605.191	3270.572
Stddev	6.952	84.26	76.27	3.994	14.335
%RSD	.3099090	.1714384	.6140951	.2488168	.4383047
#1	2246.553	49245.45	12348.82	1601.069	3282.150
#2	2235.138	49119.22	12500.20	1609.044	3275.028
#3	2247.718	49085.64	12408.34	1605.459	3254.538

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

Sample Name: P4718-04ADLX10 Acquired: 11/8/2024 21:40:49 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0867470	.1749572	.0940696	.2096473	.0816630	.2352210
Stddev	.0022361	.0036863	.0004254	.0026510	.0005264	.0014415
%RSD	2.577710	2.106997	.4522291	1.264511	.6445884	.6128342
#1	.0860738	.1789190	.0941651	.2122376	.0817392	.2349323
#2	.0849250	.1716283	.0944392	.2069395	.0821471	.2339457
#3	.0892424	.1743244	.0936046	.2097650	.0811026	.2367850

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215898	.0205028	.0197323	47.40478	.0362502	.0198876
Stddev	.0006172	.0002258	.0001485	.46853	.0005743	.0000425
%RSD	2.858582	1.101094	.7524922	.9883661	1.584195	.2134884
#1	.0210449	.0202553	.0196021	46.91785	.0358717	.0199282
#2	.0214645	.0205555	.0198940	47.44403	.0369110	.0198911
#3	.0222600	.0206975	.0197007	47.85245	.0359680	.0198435

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0281873	.3964810	.0338216	148.9737	.0497136	.0089187
Stddev	.0002369	.0020780	.0002167	1.4722	.0003270	.0002166
%RSD	.8404459	.5241137	.6405802	.9882362	.6578426	2.428734
#1	.0280484	.3959863	.0336457	147.3400	.0493373	.0087150
#2	.0280528	.3946950	.0340636	149.3838	.0498740	.0088948
#3	.0284609	.3987617	.0337555	150.1975	.0499294	.0091462

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1075.314	.0308524	.0242396	49.54106	.5246402	.0404964
Stddev	7.584	.0022904	.0001105	.28974	.0052590	.0002944
%RSD	.7052955	7.423609	.4559999	.5848406	1.002404	.7269776
#1	1081.860	.0282749	.0243398	49.81749	.5186878	.0404390
#2	1077.080	.0316282	.0241211	49.23964	.5265757	.0402350
#3	1067.003	.0326542	.0242580	49.56605	.5286572	.0408153

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

Sample Name: P4718-04ADLX10 Acquired: 11/8/2024 21:40:49 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0639888	.0204206	.4734368	.7691175	F 112.1568	.0432426
Stddev	.0011839	.0007301	.0030883	.0067156	.2724	.0007629
%RSD	1.850178	3.575254	.6523094	.8731599	.2428724	1.764246
#1	.0653498	.0211745	.4769342	.7618300	111.9666	.0424315
#2	.0631972	.0197170	.4710850	.7704658	112.0349	.0433505
#3	.0634193	.0203702	.4722913	.7750567	112.4688	.0439458

Elem	Sr4077
Units	ppm
Avg	.8700741
Stddev	.0026576
%RSD	.3054425
#1	.8685935
#2	.8684866
#3	.8731422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2221.108	47387.13	11925.12	1576.096	3230.061
Stddev	8.914	111.64	73.09	12.055	11.270
%RSD	.4013320	.2355870	.6128990	.7648764	.3489112
#1	2217.006	47260.28	12009.35	1562.225	3233.735
#2	2231.334	47430.63	11887.57	1582.019	3239.036
#3	2214.982	47470.46	11878.44	1584.045	3217.413

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

Sample Name: CCV09 Acquired: 11/8/2024 21:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.608986	4.712732	4.710107	4.685461	4.623522	9.359207
Stddev	.015205	.036097	.009710	.014594	.011258	.008530
%RSD	.3298997	.7659461	.2061477	.3114736	.2434999	.0911394
#1	4.601022	4.729190	4.718810	4.670372	4.622523	9.368323
#2	4.599417	4.671340	4.699634	4.686508	4.612797	9.357878
#3	4.626519	4.737668	4.711876	4.699504	4.635247	9.351420

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.112053	.2513622	2.314161	23.64041	.9017686	2.328336
Stddev	.095801	.0003765	.005712	.03792	.0033690	.005623
%RSD	1.051368	.1497711	.2468452	.1604162	.3735968	.2415045
#1	9.222656	.2514937	2.318384	23.60555	.9027518	2.332114
#2	9.054985	.2516553	2.307661	23.68079	.9045365	2.321874
#3	9.058518	.2509376	2.316437	23.63488	.8980174	2.331020

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.158720	5.470325	2.269470	24.17678	2.327873	1.187923
Stddev	.002870	.030717	.004320	.05808	.005703	.003144
%RSD	.2476816	.5615285	.1903466	.2402502	.2449671	.2646604
#1	1.156522	5.437190	2.264563	24.14321	2.332228	1.191553
#2	1.157670	5.497851	2.272699	24.24385	2.321418	1.186154
#3	1.161966	5.475935	2.271148	24.14328	2.329972	1.186063

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.91182	2.349742	2.420787	25.76465	4.844928	4.673906
Stddev	.05438	.005010	.008238	.03213	.017386	.008741
%RSD	.2274204	.2132220	.3403210	.1246864	.3588424	.1870241
#1	23.97452	2.352848	2.429510	25.78612	4.861471	4.668865
#2	23.88339	2.352415	2.419715	25.72772	4.846505	4.668853
#3	23.87755	2.343962	2.413138	25.78011	4.826808	4.684000

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

Sample Name: CCV09 Acquired: 11/8/2024 21:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.621561	F 4.487373	F 4.456035	4.927482	4.556484	F 4.138588
Stddev	.012828	.004525	.014696	.014390	.013598	.004010
%RSD	.2775754	.1008440	.3298059	.2920351	.2984378	.0968979
#1	4.629599	4.490522	4.439207	4.942269	4.559899	4.139514
#2	4.606767	4.489411	4.466348	4.913525	4.541504	4.134196
#3	4.628317	4.482188	4.462549	4.926651	4.568050	4.142055

Elem	Sr4077
Units	ppm
Avg	4.532765
Stddev	.037954
%RSD	.8373145
#1	4.576588
#2	4.511202
#3	4.510505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2748.749	59002.69	13314.71	1940.209	4271.764
Stddev	6.091	55.63	16.35	5.755	7.168
%RSD	.2215855	.0942824	.1228219	.2966306	.1677880
#1	2754.321	58992.38	13305.75	1938.170	4267.333
#2	2749.681	58952.93	13304.79	1946.706	4280.034
#3	2742.247	59062.75	13333.58	1935.750	4267.926

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

Sample Name: CCB09 Acquired: 11/8/2024 21:55:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010578	.0003343	-.000174	.0005800	-.000193	.0026910	-.002094
Stddev	.0014625	.0014010	.000448	.0001845	.000055	.0029582	.000433
%RSD	138.2553	419.0728	257.4334	31.80532	28.43443	109.9272	20.69050
#1	.0021262	-.000103	-.000551	.0006964	-.000255	.0049522	-.001594
#2	.0016563	-.000796	-.000293	.0003673	-.000149	-.000657	-.002322
#3	-.000609	.001902	.000321	.0006764	-.000176	.003778	-.002365

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000582	.0000003	.0023290	.0002437	.0001126	-.000221	-.001403
Stddev	.0000449	.0000491	.0024310	.0003050	.0000359	.000150	.001826
%RSD	77.14005	18278.71	104.3814	125.1272	31.90927	67.77154	130.0993
#1	.0000227	-.000029	-.000463	.0002135	.0000726	-.000275	.000292
#2	.0000432	.000057	.003978	-.000045	.0001422	-.000052	-.001165
#3	.0001087	-.000027	.003472	.000563	.0001229	-.000337	-.003336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000020	.0035129	.0000801	.0008546	.2102194	-.000164	.0003064
Stddev	.000161	.0028658	.0002213	.0002760	.0398562	.000787	.0002237
%RSD	793.2998	81.57916	276.0959	32.29190	18.95933	479.9374	73.00629
#1	-.000205	.0015174	-.000096	.0005421	.1698497	.000730	.0005622
#2	.000060	.0067967	.000329	.0010648	.2112670	-.000751	.0002100
#3	.000084	.0022246	.000008	.0009570	.2495414	-.000470	.0001471

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0887371	.0033726	.0006082	-.000384	.0005129	-.004583	-.008740
Stddev	.0102989	.0009259	.0001763	.000643	.0002300	.003088	.001558
%RSD	11.60604	27.45337	28.98983	167.2906	44.85016	67.36786	17.82660
#1	.0947970	.0039928	.0008099	-.000130	.0003028	-.008116	-.010281
#2	.0768458	.0038167	.0005311	.000093	.0004772	-.002401	-.008776
#3	.0945686	.0023083	.0004835	-.001115	.0007587	-.003232	-.007165

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

Sample Name: CCB09 Acquired: 11/8/2024 21:55:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0028633	-.001762	.0002000
Stddev	.0019604	.001704	.0000588
%RSD	68.46657	96.73614	29.41898
#1	.0014299	.000144	.0001398
#2	.0050972	-.002290	.0002029
#3	.0020626	-.003139	.0002573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2765.327	59337.44	12973.17	1920.421	4615.315
Stddev	3.455	73.51	94.18	5.182	7.589
%RSD	.1249554	.1238785	.7259318	.2698567	.1644412
#1	2761.604	59256.55	12866.45	1918.702	4606.612
#2	2768.432	59355.63	13008.45	1926.245	4620.561
#3	2765.944	59400.15	13044.62	1916.317	4618.771

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

Sample Name: P4681-01 Acquired: 11/8/2024 21:59:44 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012907	-.008904	-.033295	.0386161	.0065046	-.048852
Stddev	.002433	.004366	.001753	.0055766	.0043637	.005851
%RSD	18.85288	49.03503	5.265467	14.44111	67.08689	11.97610
#1	-.012622	-.011032	-.032280	.0423856	.0080774	-.043511
#2	-.015470	-.011798	-.035319	.0322101	.0015725	-.055105
#3	-.010629	-.003882	-.032286	.0412527	.0098639	-.047939

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114651	-.000585	-.006502	281.6474	.0586430	.2296123
Stddev	.0009971	.000192	.000280	16.1948	.0012413	.0029592
%RSD	8.697074	32.78689	4.312987	5.750027	2.116750	1.288791
#1	.0126131	-.000805	-.006474	292.9954	.0594982	.2329445
#2	.0108144	-.000496	-.006237	288.8453	.0572193	.2272908
#3	.0109680	-.000453	-.006795	263.1014	.0592116	.2286017

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.058663	.0313308	.0022829	6.017729	.2316871	.0205452
Stddev	.005965	.0039518	.0002557	.378148	.0014522	.0004751
%RSD	10.16748	12.61327	11.20144	6.283903	.6267839	2.312629
#1	-.065243	.0295287	.0022713	6.327450	.2320352	.0200875
#2	-.053610	.0286012	.0025442	6.129424	.2300925	.0205121
#3	-.057138	.0358624	.0020332	5.596315	.2329335	.0210360

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	-.032034	.2979857	248.7252	.4458665	5.898299
Stddev	-----	.003099	.0077874	32.9725	.0324419	.149021
%RSD	-----	9.673378	2.613347	13.25660	7.276142	2.526506
#1	^ -----	-.034346	.3069729	213.7453	.4569244	6.060679
#2	^ -----	-.033243	.2932332	253.1964	.4713339	5.767796
#3	^ -----	-.028513	.2937511	279.2340	.4093414	5.866422

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

Sample Name: P4681-01 Acquired: 11/8/2024 21:59:44 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.045795	.0018884	1.961851	.0657888	F 5502.880	.3332441
Stddev	.002348	.0005791	.045113	.0104841	152.567	.0348627
%RSD	5.127736	30.66310	2.299536	15.93601	2.772486	10.46161
#1	-.046119	.0025418	1.923558	.0605707	5675.277	.3115084
#2	-.043302	.0014389	2.011583	.0589376	5448.080	.3734560
#3	-.047965	.0016845	1.950413	.0778580	5385.282	.3147678

Elem	Sr4077
Units	ppm
Avg	.4652347
Stddev	.0314793
%RSD	6.766336
#1	.4683432
#2	.4950444
#3	.4323164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	857.5988	18156.66	5393.102	575.3413	884.9361
Stddev	61.8227	456.45	373.408	19.9659	62.4915
%RSD	7.208814	2.513949	6.923813	3.470268	7.061698
#1	786.2122	17776.18	5183.242	553.8113	812.8499
#2	893.2016	18662.77	5171.838	593.2464	923.7846
#3	893.3826	18031.03	5824.227	578.9663	918.1739

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

Sample Name: P4681-01DLX25 Acquired: 11/8/2024 22:24:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011250	-.002413	-.002206	.0033216	-.000092	-.010220
Stddev	.0016677	.001786	.001424	.0016089	.001282	.002748
%RSD	148.2455	74.00683	64.53754	48.43742	1393.600	26.88376
#1	-.000378	-.004456	-.002462	.0044215	.001382	-.013365
#2	.002919	-.001151	-.003485	.0014750	-.000948	-.008283
#3	.000834	-.001632	-.000672	.0040682	-.000709	-.009013

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038780	-.000016	-.000432	16.72947	.0023161	.0145960
Stddev	.0012002	.000072	.000177	.85944	.0002620	.0001566
%RSD	30.94884	443.2040	40.98509	5.137288	11.31188	1.072738
#1	.0034301	-.000090	-.000393	15.76699	.0020744	.0146174
#2	.0029661	.000055	-.000625	17.00128	.0022795	.0144298
#3	.0052377	-.000014	-.000277	17.42014	.0025946	.0147408

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001036	-.009192	-.000271	.4175373	.0154117	.0006668
Stddev	.0001579	.000177	.000142	.0153534	.0006171	.0004321
%RSD	152.4303	1.929310	52.53721	3.677127	4.004307	64.79807
#1	.0002225	-.009227	-.000427	.3998482	.0147097	.0003366
#2	.0001640	-.009349	-.000237	.4253576	.0156567	.0011558
#3	-.000076	-.008999	-.000148	.4274060	.0158688	.0005080

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2385.191	-.002065	.0046783	3.377132	.0188891	.3743952
Stddev	43.687	.000588	.0003130	.261742	.0011356	.0011033
%RSD	1.831597	28.48729	6.690892	7.750416	6.011864	.2947018
#1	2434.834	-.002706	.0048714	3.098676	.0175933	.3756448
#2	2368.133	-.001943	.0043171	3.414598	.0193631	.3739855
#3	2352.607	-.001548	.0048463	3.618122	.0197109	.3735552

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

Sample Name: P4681-01DLX25 Acquired: 11/8/2024 22:24:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005163	.0006245	.0415423	-.018369	F 1272.058	.0050632
Stddev	.000605	.0002388	.0060258	.000547	13.324	.0022323
%RSD	11.72680	38.23289	14.50516	2.977040	1.047463	44.08846
#1	-.004492	.0008756	.0482059	-.017892	1263.516	.0027017
#2	-.005668	.0004005	.0399448	-.018248	1265.246	.0053493
#3	-.005329	.0005973	.0364763	-.018966	1287.411	.0071387

Elem	Sr4077
Units	ppm
Avg	.0198946
Stddev	.0009554
%RSD	4.802431
#1	.0187979
#2	.0203399
#3	.0205462

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.004	44798.32	10885.60	1705.024	3000.503
Stddev	45.332	187.74	456.97	5.875	34.853
%RSD	1.935619	.4190877	4.197890	.3445474	1.161570
#1	2304.586	44581.65	11400.29	1698.294	2971.484
#2	2329.012	44900.39	10728.95	1709.128	2990.864
#3	2392.414	44912.92	10527.56	1707.648	3039.161

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

Sample Name: P4681-01DUPDLX25 Acquired: 11/8/2024 22:29:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.001690	-.001811	.0030792	-.000906	-.006433
Stddev	.001610	.001225	.001528	.0016422	.000494	.001908
%RSD	1546.315	72.46513	84.40383	53.33337	54.57578	29.66539
#1	-.001048	-.000400	-.002549	.0034784	-.001277	-.004230
#2	-.001020	-.002837	-.002830	.0044850	-.001096	-.007585
#3	.001755	-.001832	-.000053	.0012741	-.000345	-.007484

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098820	-.000032	-.000352	18.24645	.0027510	.0143394
Stddev	.0010841	.000077	.000117	.61249	.0002979	.0003078
%RSD	10.97024	241.4506	33.18268	3.356762	10.82722	2.146181
#1	.0108971	-.000111	-.000264	18.95317	.0030949	.0140523
#2	.0087401	-.000026	-.000309	17.86970	.0025854	.0143017
#3	.0100089	.000042	-.000485	17.91647	.0025727	.0146643

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001878	-.009863	-.000039	.4725395	.0155722	.0001269
Stddev	.0001771	.002902	.000187	.0270857	.0002537	.0002276
%RSD	94.30383	29.41944	480.0920	5.731937	1.628987	179.3810
#1	.0000369	-.007629	.000038	.5031402	.0153865	-.000122
#2	.0001438	-.008818	.000098	.4628362	.0154688	.000180
#3	.0003828	-.013143	-.000253	.4516419	.0158612	.000323

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2113.941	-.001499	.0046670	3.899591	.0217641	.3632847
Stddev	41.132	.000390	.0002540	.142589	.0004131	.0007263
%RSD	1.945730	26.05423	5.441578	3.656507	1.898296	.1999256
#1	2137.754	-.001053	.0048234	3.735368	.0219845	.3627448
#2	2137.623	-.001660	.0048036	3.971475	.0212875	.3629989
#3	2066.446	-.001783	.0043739	3.991931	.0220203	.3641104

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

Sample Name: P4681-01DUPDLX25 Acquired: 11/8/2024 22:29:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005762	.0007606	.0418981	-.022942	F 1268.837	.0060440
Stddev	.001062	.0005896	.0092567	.003912	11.217	.0006839
%RSD	18.42501	77.52098	22.09337	17.05289	.8840752	11.31514
#1	-.006976	.0014406	.0469440	-.022300	1259.284	.0067244
#2	-.005302	.0003916	.0475355	-.027136	1266.038	.0060510
#3	-.005007	.0004496	.0312149	-.019391	1281.189	.0053567

Elem	Sr4077
Units	ppm
Avg	.0204119
Stddev	.0006731
%RSD	3.297347
#1	.0211739
#2	.0201634
#3	.0198985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.138	45127.66	10218.86	1814.473	3267.202
Stddev	43.909	59.91	335.71	15.757	42.483
%RSD	1.701132	.1327606	3.285241	.8683886	1.300291
#1	2534.529	45150.84	9831.34	1813.438	3221.581
#2	2587.163	45059.62	10404.12	1830.722	3274.397
#3	2621.724	45172.51	10421.13	1799.260	3305.629

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

Sample Name: P4681-01LDLX125 Acquired: 11/8/2024 22:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014121	-.001522	-.001066	-.000534	-.000873	.0014988
Stddev	.0012712	.000522	.000558	.000915	.000032	.0120005
%RSD	90.02510	34.28686	52.36482	171.4970	3.651749	800.6717
#1	.0026690	-.000942	-.001219	.000224	-.000910	.0134862
#2	.0001270	-.001955	-.001533	-.000274	-.000852	-.010515
#3	.0014402	-.001668	-.000448	-.001551	-.000857	.001525

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155627	.0000276	-.000065	4.421266	-.001099	.0026284
Stddev	.0004232	.0000371	.000068	.044618	.000210	.0001060
%RSD	2.719520	134.1559	104.5409	1.009159	19.07790	4.033724
#1	.0156898	-.000012	-.000051	4.443069	-.000986	.0025610
#2	.0159078	.000033	-.000005	4.450790	-.000970	.0027506
#3	.0150905	.000062	-.000138	4.369939	-.001341	.0025737

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000356	-.010762	-.000332	.1180747	.0023459	.0000522
Stddev	.000157	.003259	.000114	.0049948	.0001616	.0003787
%RSD	43.95267	30.28452	34.28878	4.230218	6.890310	725.3527
#1	-.000199	-.013810	-.000405	.1165363	.0022051	.0000460
#2	-.000512	-.011149	-.000390	.1236577	.0025224	-.000323
#3	-.000358	-.007327	-.000201	.1140300	.0023103	.000434

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	510.3026	-.001063	-.001337	1.046266	.0054299	.0660963
Stddev	70.3180	.001428	.000376	.101079	.0007980	.0004679
%RSD	13.77966	134.3278	28.10459	9.660953	14.69645	.7079194
#1	591.1589	-.000158	-.000963	1.160130	.0054417	.0664157
#2	476.3028	-.000322	-.001333	1.011546	.0062219	.0663139
#3	463.4463	-.002709	-.001714	.967123	.0046260	.0655592

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

Sample Name: P4681-01LDLX125 Acquired: 11/8/2024 22:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003270	.0009886	.0002664	-.023361	F 258.1880	.0047550
Stddev	.000311	.0005289	.0101610	.002871	1.3094	.0016917
%RSD	9.521600	53.50512	3814.306	12.29106	.5071457	35.57702
#1	-.003525	.0007892	.0097805	-.026668	258.0124	.0033437
#2	-.003361	.0005883	.0014555	-.021910	259.5764	.0042910
#3	-.002923	.0015882	-.010437	-.021505	256.9753	.0066302

Elem	Sr4077
Units	ppm
Avg	.0046670
Stddev	.0000397
%RSD	.8500569
#1	.0046563
#2	.0047110
#3	.0046338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3509.306	56683.86	9984.331	2291.143	4662.780
Stddev	13.501	6519.87	90.174	270.206	10.520
%RSD	.3847219	11.50216	.9031510	11.79350	.2256100
#1	3501.583	49170.70	9930.376	1980.200	4656.774
#2	3501.439	60024.55	9934.187	2424.320	4656.640
#3	3524.895	60856.33	10088.43	2468.909	4674.927

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

Sample Name: P4681-01MSDLX25 Acquired: 11/8/2024 22:44:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0350010	.0798043	.0447860	.0818264	.0272371	.0724190
Stddev	.0026675	.0013273	.0009935	.0014260	.0014451	.0060992
%RSD	7.621193	1.663177	2.218397	1.742713	5.305611	8.422079
#1	.0330020	.0791697	.0443852	.0828291	.0286235	.0656809
#2	.0339712	.0813298	.0440556	.0824561	.0273479	.0740139
#3	.0380300	.0789135	.0459174	.0801939	.0257397	.0775624

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184416	.0111073	.0096148	15.82782	.0199529	.0216619
Stddev	.0010245	.0001351	.0000928	.11872	.0004954	.0004372
%RSD	5.555632	1.216192	.9651125	.7500539	2.482942	2.018518
#1	.0172620	.0109630	.0095089	15.69090	.0194741	.0214355
#2	.0191097	.0111279	.0096821	15.90213	.0199213	.0221659
#3	.0189530	.0112308	.0096534	15.89042	.0204634	.0213843

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099762	.1090646	.0084180	.5085087	.0368110	.0036758
Stddev	.0002847	.0017951	.0001703	.0072792	.0006152	.0002348
%RSD	2.854151	1.645897	2.022953	1.431484	1.671215	6.388474
#1	.0097473	.1101333	.0085688	.5035845	.0361008	.0034647
#2	.0098862	.1069922	.0084519	.5168700	.0371519	.0036340
#3	.0102951	.1100684	.0082333	.5050714	.0371802	.0039288

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1800.286	.0095023	.0129478	2.774014	.0318089	.3195520
Stddev	63.255	.0019479	.0002095	.069557	.0003356	.0014146
%RSD	3.513627	20.49905	1.618217	2.507449	1.054988	.4426751
#1	1856.562	.0073391	.0127277	2.712867	.0317347	.3185235
#2	1812.471	.0100505	.0129708	2.759488	.0321753	.3211652
#3	1731.824	.0111174	.0131449	2.849687	.0315166	.3189673

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

Sample Name: P4681-01MSDLX25 Acquired: 11/8/2024 22:44:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0282335	.0080514	.0553175	.3460303	F 1130.824	.0125213
Stddev	.0002971	.0002146	.0024836	.0031627	7.520	.0005694
%RSD	1.052209	2.664890	4.489623	.9139849	.6650177	4.547756
#1	.0279474	.0081925	.0548298	.3424420	1122.156	.0131531
#2	.0285404	.0081573	.0580087	.3484122	1135.597	.0120475
#3	.0282128	.0078045	.0531140	.3472368	1134.720	.0123634

Elem	Sr4077
Units	ppm
Avg	.0240638
Stddev	.0000414
%RSD	.1721682
#1	.0240194
#2	.0240706
#3	.0241014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.701	51294.44	11098.32	2111.699	3780.744
Stddev	28.647	382.84	85.87	18.568	23.347
%RSD	.9430539	.7463604	.7736893	.8792801	.6175245
#1	3006.852	50990.25	11197.41	2091.725	3755.365
#2	3042.786	51168.75	11051.82	2114.937	3785.558
#3	3063.466	51724.33	11045.73	2128.434	3801.309

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

Sample Name: P4681-01MSDDLX25 Acquired: 11/8/2024 22:53:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374459	.0805971	.0420315	.0919122	.0313818	.0806027
Stddev	.0017045	.0004602	.0006748	.0012115	.0006306	.0018100
%RSD	4.551919	.5709520	1.605536	1.318102	2.009526	2.245598
#1	.0356956	.0801251	.0425562	.0932869	.0317270	.0791086
#2	.0375416	.0810445	.0422680	.0914493	.0317645	.0826154
#3	.0391005	.0806217	.0412702	.0910004	.0306540	.0800840

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123587	.0105888	.0095013	15.88877	.0193751	.0220218
Stddev	.0007798	.0001755	.0000614	.31862	.0005181	.0002188
%RSD	6.309575	1.657578	.6461522	2.005319	2.674066	.9934634
#1	.0114596	.0103975	.0095570	15.57376	.0194936	.0222677
#2	.0128513	.0106265	.0095114	15.88167	.0188080	.0219488
#3	.0127651	.0107424	.0094355	16.21088	.0198236	.0218488

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104425	.1166641	.0085893	.4937519	.0367780	.0043000
Stddev	.0003113	.0016039	.0002129	.0051075	.0007730	.0002774
%RSD	2.981456	1.374782	2.478128	1.034420	2.101871	6.451199
#1	.0107610	.1180622	.0083541	.4881332	.0365573	.0040925
#2	.0104277	.1149132	.0086450	.4950090	.0376374	.0041925
#3	.0101389	.1170169	.0087687	.4981134	.0361393	.0046151

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2003.759	.0090536	.0139578	2.937011	.0308511	.3385487
Stddev	86.479	.0009278	.0000676	.094679	.0009872	.0003894
%RSD	4.315843	10.24807	.4840021	3.223661	3.199711	.1150206
#1	2100.686	.0081135	.0138878	2.837619	.0298117	.3385769
#2	1976.093	.0090785	.0139629	2.947272	.0317760	.3381460
#3	1934.499	.0099687	.0140226	3.026142	.0309656	.3389233

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

Sample Name: P4681-01MSDDLX25 Acquired: 11/8/2024 22:53:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274909	.0081908	.0660915	.3533614	F 1113.003	.0133699
Stddev	.0009535	.0005310	.0008150	.0026349	3.040	.0013352
%RSD	3.468440	6.483361	1.233112	.7456671	.2731006	9.986525
#1	.0273316	.0083310	.0659829	.3559439	1112.271	.0127591
#2	.0285140	.0076037	.0669554	.3506770	1116.342	.0124494
#3	.0266270	.0086376	.0653363	.3534631	1110.396	.0149013

Elem	Sr4077
Units	ppm
Avg	.0257978
Stddev	.0003863
%RSD	1.497308
#1	.0255174
#2	.0256377
#3	.0262384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2782.264	49793.79	11531.97	1904.167	3563.508
Stddev	18.365	481.97	126.95	20.923	18.663
%RSD	.6600791	.9679258	1.100835	1.098805	.5237134
#1	2766.784	49244.08	11670.16	1880.058	3546.679
#2	2802.556	50143.83	11505.20	1914.867	3583.579
#3	2777.451	49993.46	11420.53	1917.576	3560.267

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

Sample Name: P4681-01ADLX25 Acquired: 11/8/2024 23:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0352327	.0704392	.0382151	.0796143	.0269450	.0696913
Stddev	.0021822	.0023756	.0013283	.0020836	.0014124	.0021596
%RSD	6.193779	3.372572	3.475897	2.617117	5.241784	3.098816
#1	.0375474	.0700869	.0393413	.0818857	.0273330	.0720446
#2	.0349377	.0729713	.0385537	.0791654	.0281229	.0692292
#3	.0332129	.0682594	.0367502	.0777917	.0253792	.0678002

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113854	.0096558	.0082193	14.91372	.0175442	.0189435
Stddev	.0003680	.0001131	.0001553	.10951	.0001950	.0004194
%RSD	3.232550	1.171574	1.889335	.7342964	1.111688	2.213814
#1	.0115949	.0097861	.0083840	15.03833	.0174189	.0191371
#2	.0109605	.0095982	.0081983	14.83278	.0174448	.0192312
#3	.0116010	.0095830	.0080755	14.87005	.0177689	.0184623

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091201	.1083810	.0081912	.4610694	.0317772	.0040781
Stddev	.0003298	.0027992	.0001195	.0121134	.0007138	.0000972
%RSD	3.616347	2.582719	1.458896	2.627234	2.246297	2.382518
#1	.0094998	.1093715	.0082874	.4739550	.0320064	.0041057
#2	.0089554	.1105503	.0082287	.4499144	.0323483	.0039702
#3	.0089051	.1052213	.0080574	.4593389	.0309770	.0041585

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1928.334	.0094808	.0125078	2.560736	.0282413	.2985119
Stddev	40.141	.0003752	.0001252	.110869	.0002695	.0045959
%RSD	2.081621	3.957369	1.001227	4.329572	.9543468	1.539611
#1	1973.027	.0099063	.0126423	2.447767	.0285525	.3015071
#2	1916.625	.0091973	.0124866	2.565061	.0280877	.3008083
#3	1895.350	.0093389	.0123946	2.669379	.0280837	.2932204

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

Sample Name: P4681-01ADLX25 Acquired: 11/8/2024 23:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231382	.0077165	.0572938	.3025503	F 983.7180	.0097547
Stddev	.0010379	.0003957	.0018919	.0038381	20.5093	.0003317
%RSD	4.485505	5.127961	3.302056	1.268598	2.084879	3.400508
#1	.0242201	.0079062	.0584165	.3056109	995.2321	.0094759
#2	.0230437	.0072617	.0551095	.3037961	995.8830	.0101216
#3	.0221508	.0079817	.0583553	.2982441	960.0388	.0096667

Elem	Sr4077
Units	ppm
Avg	.0245900
Stddev	.0001168
%RSD	.4749217
#1	.0247242
#2	.0245347
#3	.0245112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.781	52336.89	12106.99	2001.004	3890.003
Stddev	40.768	444.28	164.10	34.854	56.596
%RSD	1.350936	.8488845	1.355407	1.741840	1.454919
#1	2971.297	51829.53	11918.59	1962.141	3829.553
#2	3034.580	52656.34	12218.73	2029.494	3898.721
#3	3047.465	52524.80	12183.66	2011.378	3941.734

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

Sample Name: CCV10 Acquired: 11/8/2024 23:24:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.343399	4.927188	4.981061	4.899817	4.639552	10.06054
Stddev	.059400	.070828	.048472	.058539	.064507	.00527
%RSD	1.111650	1.437485	.9731264	1.194711	1.390361	.0524093
#1	5.324511	4.959058	4.958130	4.889961	4.605446	10.06663
#2	5.295739	4.846025	4.948309	4.846832	4.599258	10.05740
#3	5.409946	4.976482	5.036744	4.962658	4.713952	10.05759

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.546895	.2590495	2.425619	22.80671	1.002344	2.528933
Stddev	.084985	.0011571	.021609	.04916	.004611	.025839
%RSD	.8901844	.4466531	.8908776	.2155409	.4600699	1.021734
#1	9.567937	.2603849	2.415284	22.81202	1.003335	2.516241
#2	9.453366	.2583466	2.411118	22.75511	1.006380	2.511895
#3	9.619383	.2584169	2.450455	22.85300	.997318	2.558664

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.134985	5.150748	2.379426	24.12779	2.356825	1.269995
Stddev	.013764	.035136	.006319	.10236	.023816	.002983
%RSD	1.212691	.6821491	.2655568	.4242327	1.010531	.2348602
#1	1.128837	5.110523	2.374389	24.06070	2.343738	1.266553
#2	1.125367	5.166281	2.377373	24.07706	2.342422	1.271824
#3	1.150751	5.175441	2.386516	24.24560	2.384316	1.271608

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.07293	2.610706	2.688127	26.34815	4.890132	5.131306
Stddev	.37550	.003015	.003741	.11438	.021101	.062840
%RSD	1.440201	.1154986	.1391556	.4341073	.4314922	1.224633
#1	26.36497	2.609128	2.688016	26.27451	4.910787	5.111389
#2	26.20447	2.608808	2.684443	26.47992	4.868612	5.080838
#3	25.64936	2.614183	2.691922	26.29002	4.890998	5.201690

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

Sample Name: CCV10 Acquired: 11/8/2024 23:24:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.405894	F 3.997784	F 3.779517	4.608194	F 4.363590	F 3.357515
Stddev	.038523	.003293	.021888	.060931	.042955	.010842
%RSD	.8743481	.0823772	.5791193	1.322230	.9843876	.3229116
#1	4.389819	4.001046	3.754482	4.571492	4.350170	3.355444
#2	4.378012	3.997846	3.795038	4.574562	4.328947	3.369242
#3	4.449851	3.994460	3.789030	4.678529	4.411652	3.347857

Elem	Sr4077
Units	ppm
Avg	F 3.883724
Stddev	.008651
%RSD	.2227467
#1	3.873736
#2	3.888604
#3	3.888832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.355	73112.82	15150.46	2631.512	5487.862
Stddev	47.002	203.35	32.08	18.792	65.953
%RSD	1.264387	.2781301	.2117383	.7141054	1.201802
#1	3730.312	73347.13	15135.28	2649.321	5509.391
#2	3756.519	72982.36	15187.31	2633.343	5540.361
#3	3665.234	73008.97	15128.79	2611.872	5413.835

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

Sample Name: CCB10 Acquired: 11/8/2024 23:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011321	.0009876	-.000173	.0003851	-.000667	.0023448
Stddev	.0018177	.0009634	.000148	.0008465	.000900	.0040938
%RSD	160.5559	97.55385	85.51015	219.7932	134.9252	174.5861
#1	.0014770	.0010359	-.000166	.0002293	-.000634	.0043056
#2	.0027527	.0000009	-.000029	-.000373	.000216	-.002361
#3	-.000833	.0019259	-.000325	.001299	-.001583	.005089

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038335	.0000644	.0000652	-.041974	-.001061	.0000484
Stddev	.0003045	.0000424	.0001099	.002423	.000246	.0000826
%RSD	7.943431	65.86107	168.5758	5.772436	23.21117	170.6800
#1	.0035282	.0000210	-.000029	-.043763	-.001234	-.000046
#2	.0038351	.0001057	.000039	-.042942	-.000779	.000086
#3	.0041372	.0000664	.000186	-.039217	-.001169	.000105

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000377	-.011642	-.000240	.0055869	-.000207	.0007790
Stddev	.000093	.001184	.000263	.0009392	.000154	.0002582
%RSD	24.53326	10.16777	109.4471	16.81110	74.08182	33.13929
#1	-.000293	-.010426	-.000031	.0065689	-.000060	.0010308
#2	-.000362	-.012791	-.000536	.0046973	-.000366	.0005149
#3	-.000476	-.011709	-.000154	.0054945	-.000196	.0007915

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7422814	.0003647	-.003086	.1690981	-.000490	-.000101
Stddev	.0538161	.0009610	.000138	.0097061	.000279	.000131
%RSD	7.250094	263.4976	4.466569	5.739917	56.96623	130.0808
#1	.6812163	-.000734	-.002929	.1755124	-.000649	-.000220
#2	.7628409	.000780	-.003138	.1579316	-.000654	.000040
#3	.7827871	.001048	-.003190	.1738502	-.000168	-.000122

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

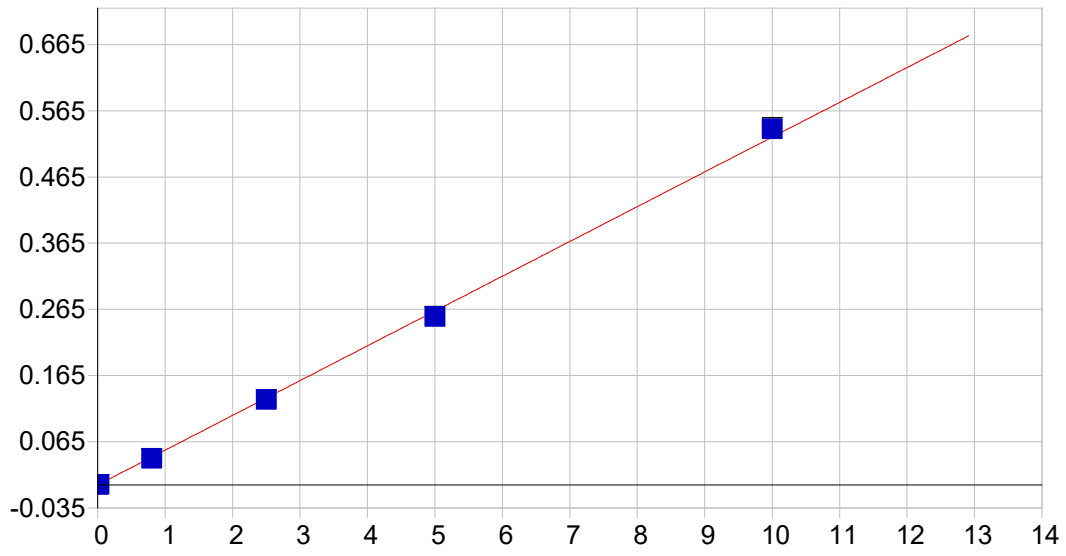
Sample Name: CCB10 Acquired: 11/8/2024 23:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003797	.0001661	-.014240	F -.014613	F .0443108	-.000223
Stddev	.000220	.0001989	.005004	.000109	.0027079	.001187
%RSD	5.782716	119.7506	35.14121	.7444320	6.111244	532.7971
#1	-.003962	-.000012	-.016605	-.014511	.0463979	-.001484
#2	-.003548	.000130	-.017623	-.014601	.0452837	.000874
#3	-.003881	.000381	-.008492	-.014727	.0412509	-.000059

Elem	Sr4077
Units	ppm
Avg	.0000348
Stddev	.0000452
%RSD	129.7298
#1	-.000006
#2	.000026
#3	.000084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.141	70371.06	13950.95	2508.308	5725.470
Stddev	3.240	99.28	11.07	25.351	11.532
%RSD	.0912102	.1410870	.0793596	1.010671	.2014090
#1	3554.744	70265.74	13953.72	2503.512	5729.331
#2	3553.166	70384.50	13938.76	2485.698	5712.504
#3	3548.512	70462.94	13960.38	2535.714	5734.577

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



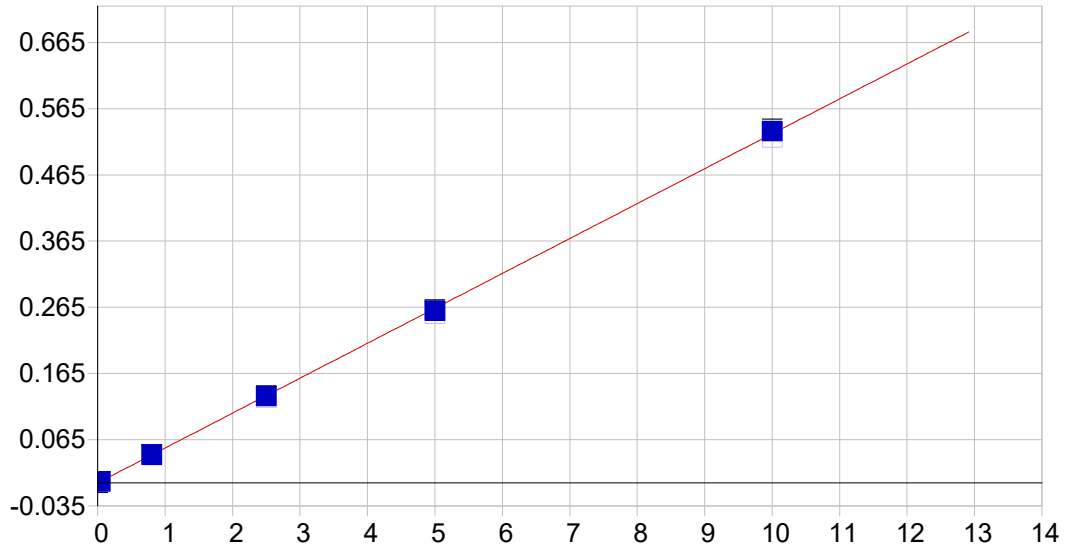
As 189.042 {479}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000238	Re-Slope:	1.000000
A1 (Gain):	0.052540	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999625	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.002660		
Predicted MQL:	0.008866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.000	1
S1	.02000	.02160	.002	8.00	.00089	.000	1
S3	2.5000	2.4526	-.047	-1.90	.12848	.000	1
S4	5.0000	4.8420	-.158	-3.16	.25388	.000	1
S5	10.000	10.242	.242	2.42	.53732	.002	1
S2	.80000	.76171	-.038	-4.79	.03974	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



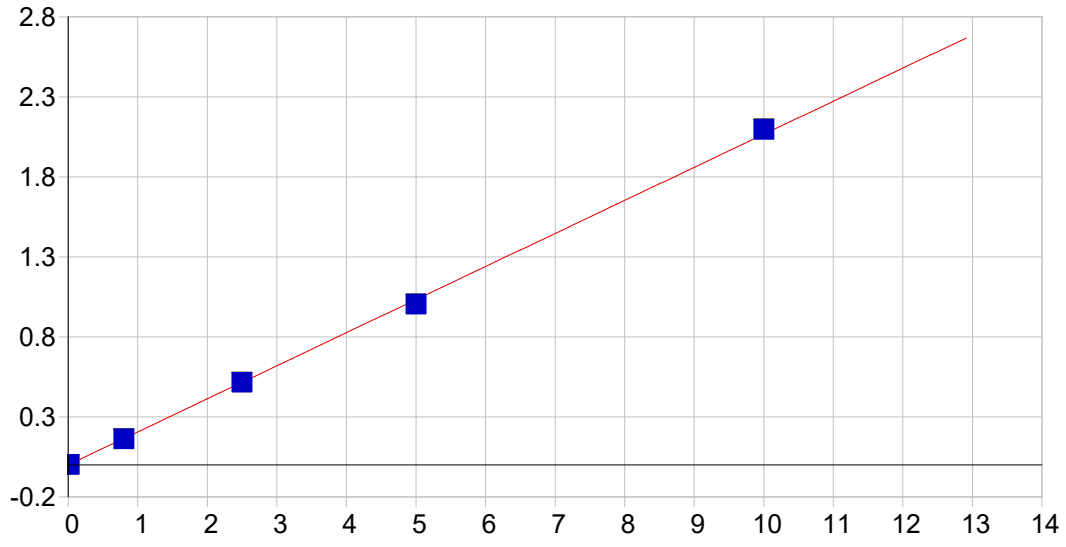
Tl 190.856 {477}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000336	Re-Slope:	1.000000
A1 (Gain):	0.052743	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.002100		
Predicted MQL:	0.006998		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00034	.000	1
S1	.04000	.03902	-.001	-2.45	.00159	.000	1
S3	2.5000	2.4850	-.015	-.598	.12830	.001	1
S4	5.0000	4.9337	-.066	-1.33	.25502	.001	1
S5	10.000	10.076	.076	.755	.52136	.003	1
S2	.80000	.80664	.007	.830	.04143	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



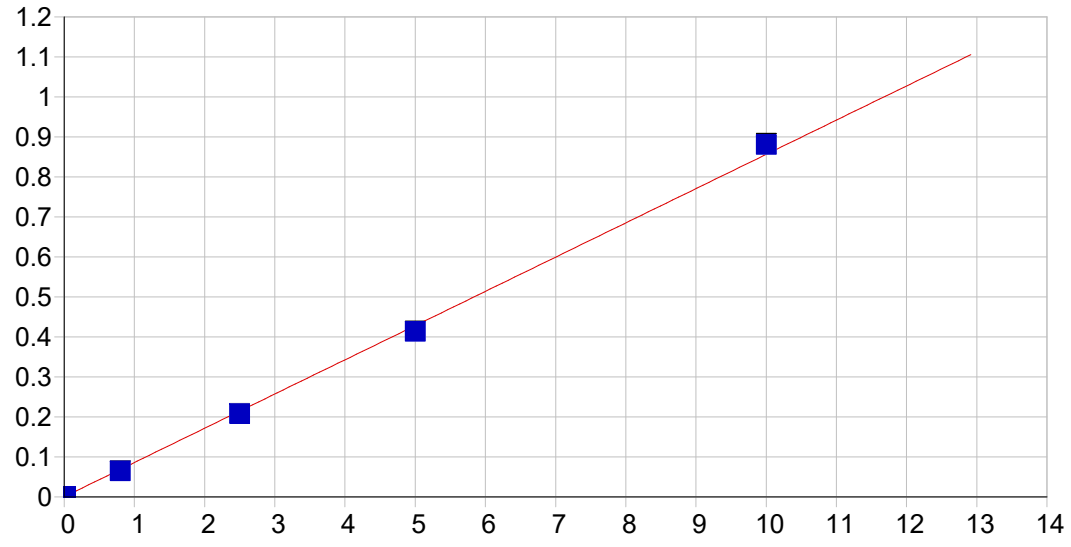
Pb 220.353 {453}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000365	Re-Slope:	1.000000
A1 (Gain):	0.206689	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.001125		
Predicted MQL:	0.003750		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00036	.000	1
S1	.01200	.01164	-.000	-2.99	.00199	.000	1
S3	2.5000	2.5005	.000	.019	.51589	.001	1
S4	5.0000	4.8620	-.138	-2.76	1.0034	.001	1
S5	10.000	10.148	.148	1.48	2.0948	.004	1
S2	.80000	.79007	-.010	-1.24	.16275	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



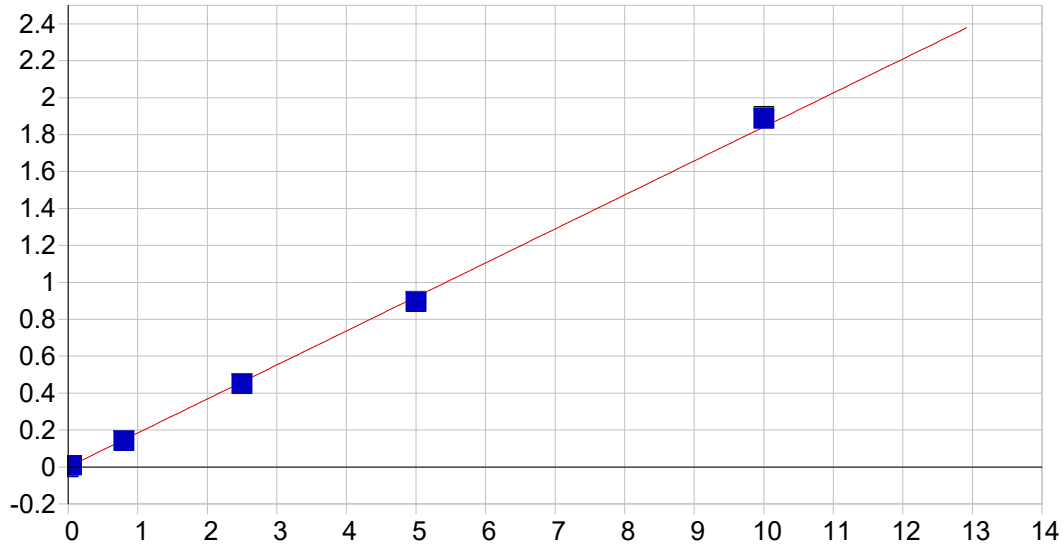
Se 196.090 {472}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000391	Re-Slope:	1.000000
A1 (Gain):	0.085584	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999478	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	0.002194		
Predicted MQL:	0.007315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00039	.000	1
S1	.02000	.02077	.001	3.83	.00217	.000	1
S3	2.5000	2.4267	-.073	-2.93	.20803	.001	1
S4	5.0000	4.8322	-.168	-3.36	.41384	.000	1
S5	10.000	10.289	.289	2.89	.88076	.003	1
S2	.80000	.75117	-.049	-6.10	.06466	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



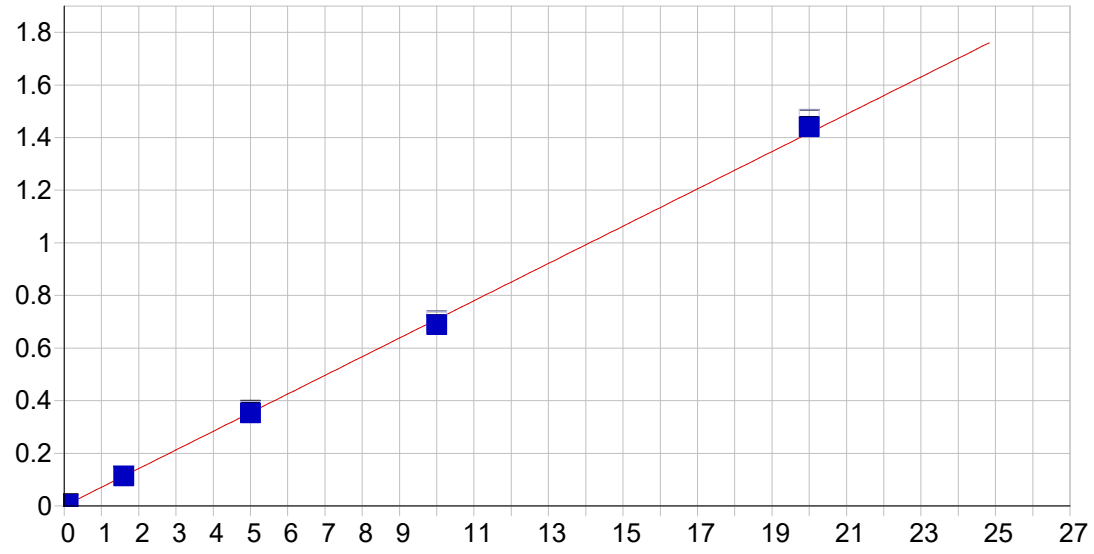
Sb 206.833 {463}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000108	Re-Slope:	1.000000
A1 (Gain):	0.184133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000182		
Predicted MDL:	0.001226		
Predicted MQL:	0.004087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.05000	.04916	-.001	-1.67	.00918	.000	1
S3	2.5000	2.4394	-.061	-2.42	.45054	.001	1
S4	5.0000	4.8568	-.143	-2.86	.89691	.000	1
S5	10.000	10.241	.241	2.41	1.8907	.008	1
S2	.80000	.76411	-.036	-4.49	.14121	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



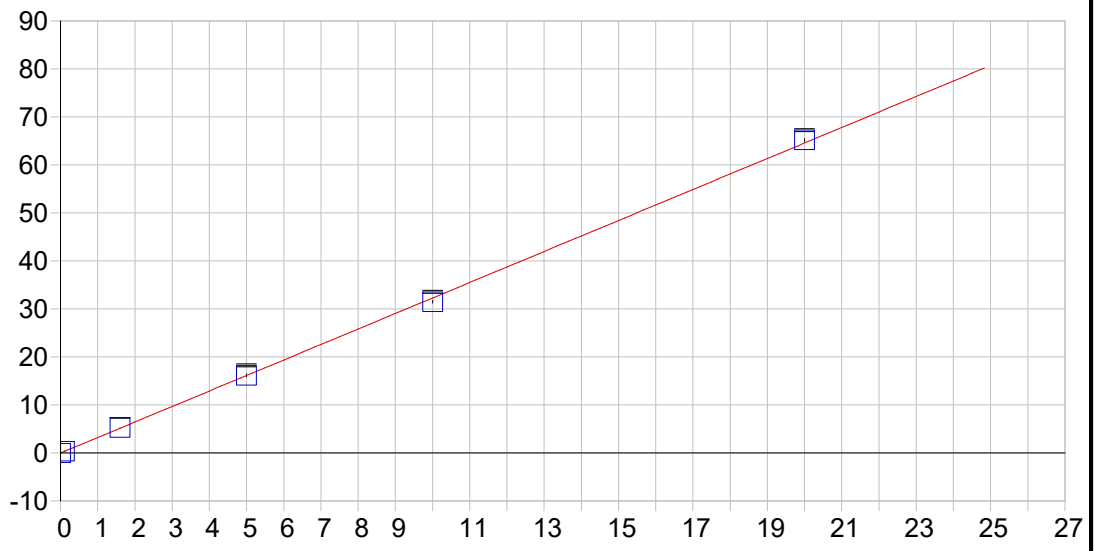
Al 396.152 { 85}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.070887	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999815	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	0.005226		
Predicted MQL:	0.017418		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.10000	.10145	.001	1.45	.00781	.000	1
S3	5.0000	4.9756	-.024	-.489	.35965	.004	1
S4	10.000	9.7035	-.296	-2.96	.70168	.001	1
S5	20.000	20.323	.323	1.61	1.4682	.002	1
S2	1.6000	1.5964	-.004	-.226	.11543	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



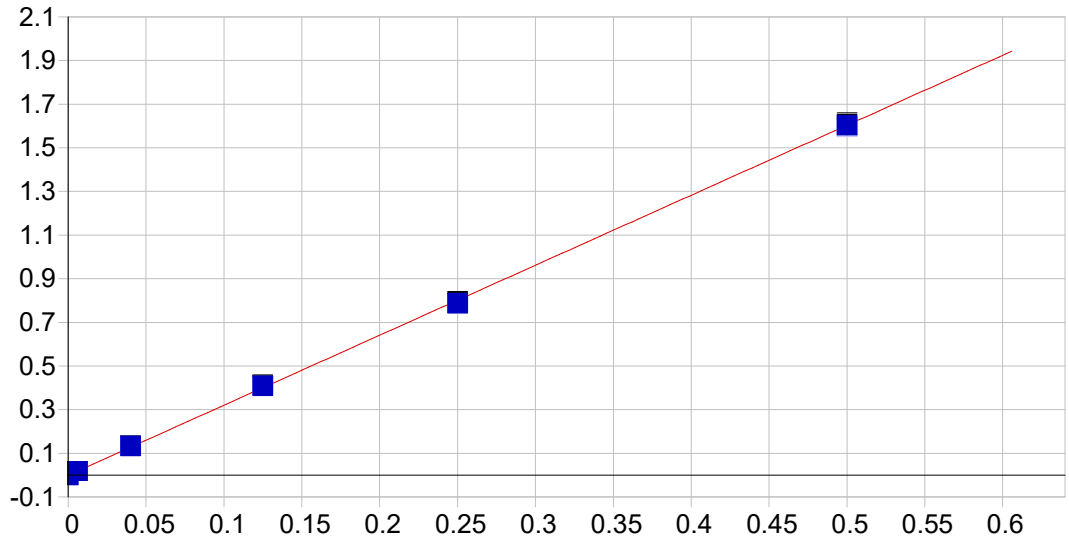
Ba 493.409 { 68}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.022925	Re-Slope:	1.000000
A1 (Gain):	3.229695	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.003779		
Predicted MDL:	0.000428		
Predicted MQL:	0.001426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.02295	.000	1
S1	.10000	.10584	.006	5.84	.31889	.001	1
S3	5.0000	5.0124	.012	.249	16.166	.276	1
S4	10.000	9.7527	-.247	-2.47	31.475	.302	1
S5	20.000	20.194	.194	.970	65.198	.299	1
S2	1.6000	1.6350	.035	2.19	5.2577	.025	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



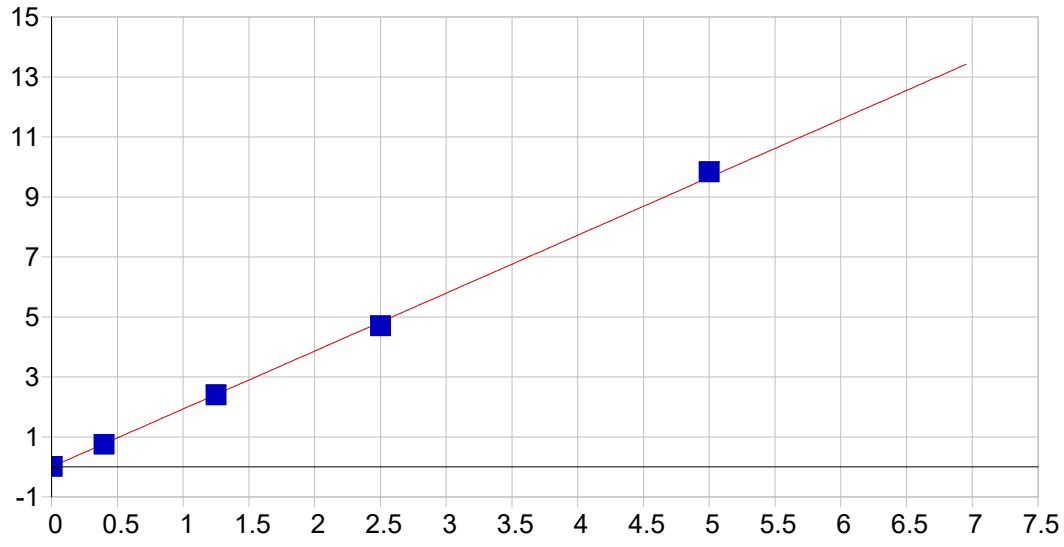
Be 234.861 {144}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000574	Re-Slope:	1.000000
A1 (Gain):	3.207858	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.000059		
Predicted MQL:	0.000198		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00057	.000	1
S1	.00600	.00599	-.000	-.153	.01850	.000	1
S3	.12500	.12781	.003	2.25	.40762	.004	1
S4	.25000	.24567	-.004	-1.73	.78391	.008	1
S5	.50000	.49996	-.000	-.008	1.5960	.012	1
S2	.04000	.04157	.002	3.93	.13220	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



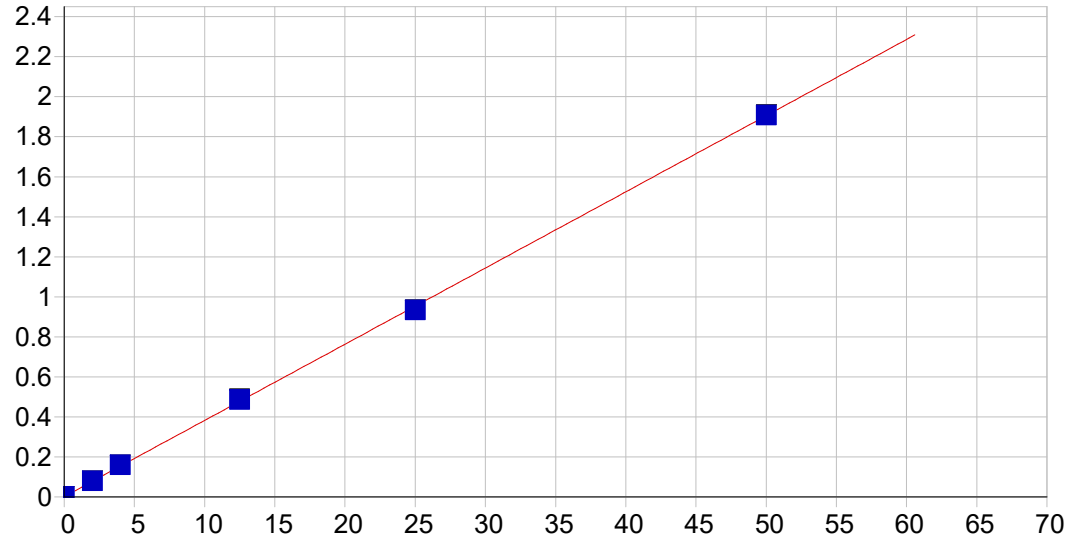
Cd 226.502 {449}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	1.930519	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999775	Status:	OK.
Std Error of Est:	0.000372		
Predicted MDL:	0.000092		
Predicted MQL:	0.000308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.00600	.00732	.001	22.0	.01407	.000	1
S3	1.2500	1.2400	-.010	-.797	2.3956	.002	1
S4	2.5000	2.4317	-.068	-2.73	4.6980	.004	1
S5	5.0000	5.0885	.088	1.77	9.8306	.014	1
S2	.40000	.38849	-.012	-2.88	.75047	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



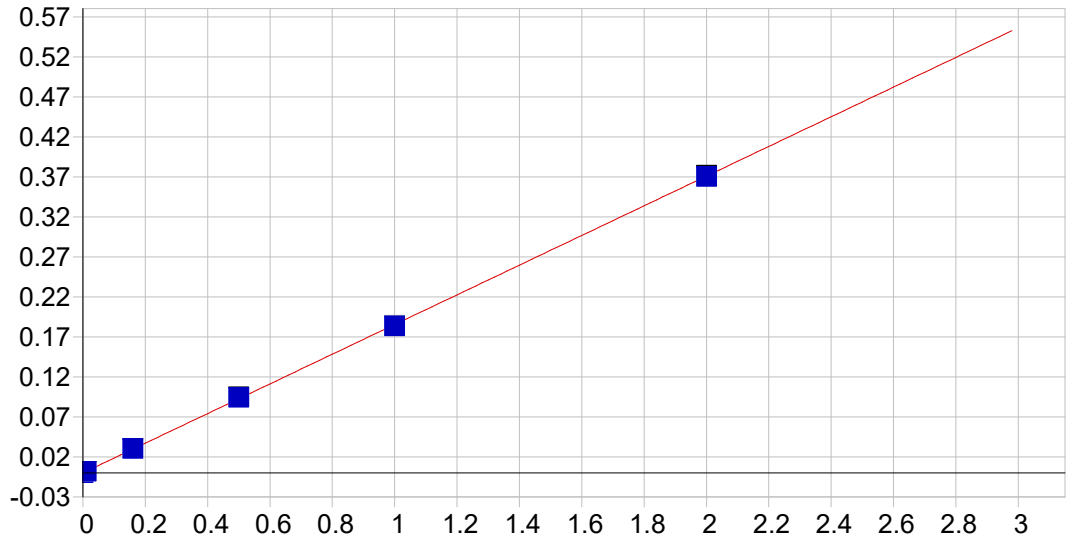
Ca 373.690 { 90}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001690	Re-Slope:	1.000000
A1 (Gain):	0.038071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000316		
Predicted MDL:	0.009012		
Predicted MQL:	0.030041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00168	.000	1
S2	4.0000	4.1442	.144	3.61	.15947	.001	1
S3	12.500	12.731	.231	1.85	.48638	.003	1
S4	25.000	24.479	-.521	-2.08	.93365	.002	1
S5	50.000	50.075	.075	.149	1.9081	.003	1
S1	2.0000	2.0709	.071	3.55	.08053	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



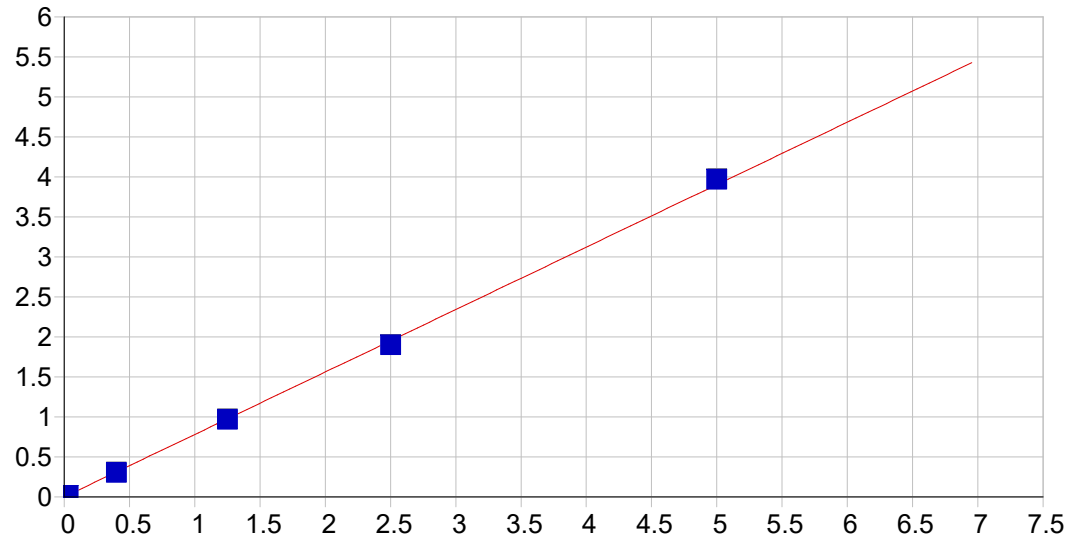
Cr 267.716 {126}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000024	Re-Slope:	1.000000
A1 (Gain):	0.185478	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.000377		
Predicted MQL:	0.001256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.01000	.01018	.000	1.79	.00187	.000	1
S3	.50000	.50979	.010	1.96	.09456	.000	1
S4	1.0000	.99067	-.009	-.933	.18378	.001	1
S5	2.0000	1.9962	-.004	-.191	.37034	.002	1
S2	.16000	.16316	.003	1.98	.03025	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



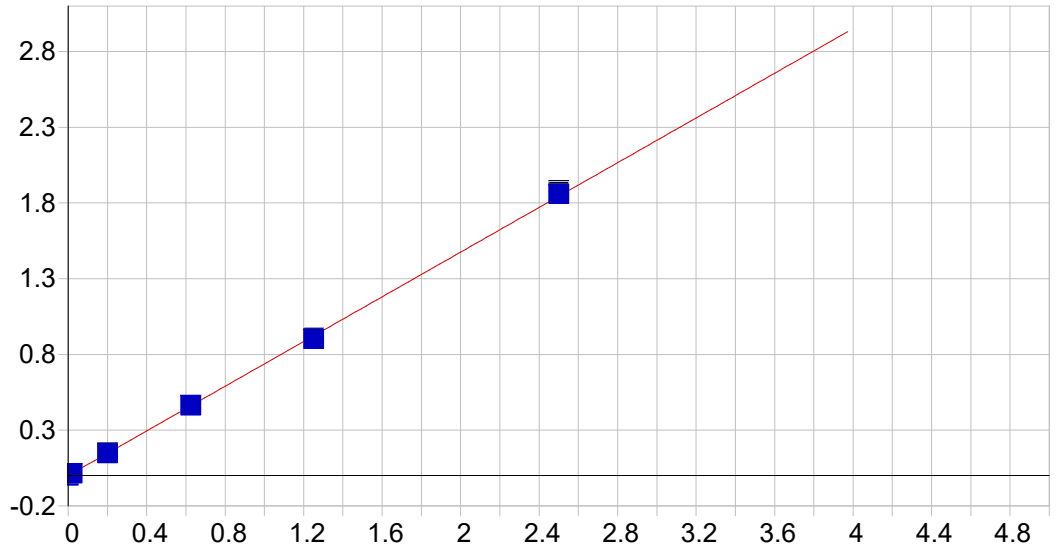
Co 228.616 {448}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000061	Re-Slope:	1.000000
A1 (Gain):	0.780579	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999806	Status:	OK.
Std Error of Est:	0.000313		
Predicted MDL:	0.000204		
Predicted MQL:	0.000679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.03000	.02984	-.000	-.547	.02325	.000	1
S3	1.2500	1.2413	-.009	-.696	.97065	.001	1
S4	2.5000	2.4317	-.068	-2.73	1.9015	.001	1
S5	5.0000	5.0857	.086	1.71	3.9765	.003	1
S2	.40000	.39147	-.009	-2.13	.30616	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



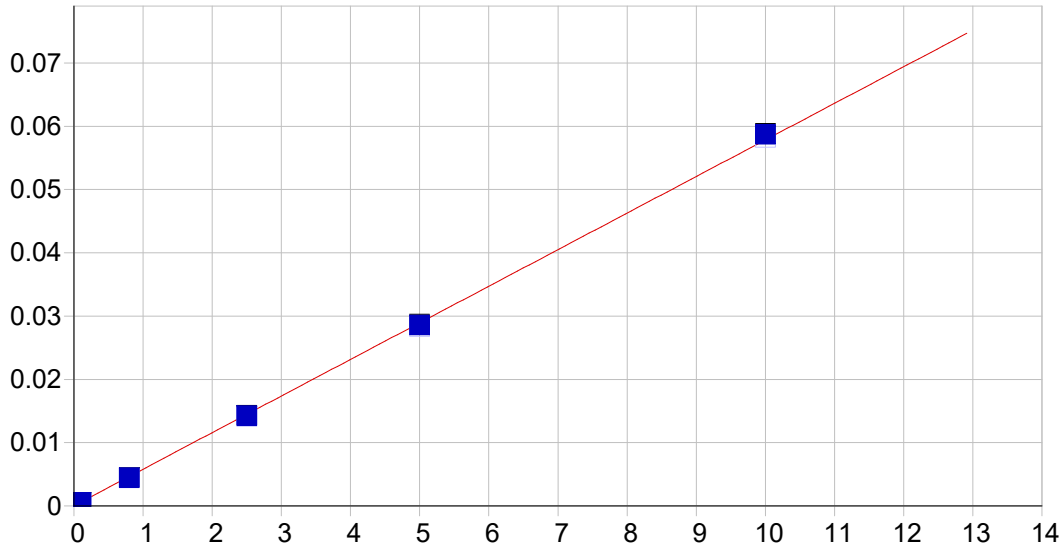
Cu 224.700 {450}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000200	Re-Slope:	1.000000
A1 (Gain):	0.737884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.000392		
Predicted MQL:	0.001308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00020	.000	1
S1	.02000	.02186	.002	9.32	.01612	.000	1
S3	.62500	.62947	.004	.715	.46867	.000	1
S4	1.2500	1.2228	-.027	-2.18	.91087	.000	1
S5	2.5000	2.5203	.020	.811	1.8771	.006	1
S2	.20000	.20058	.001	.290	.14921	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



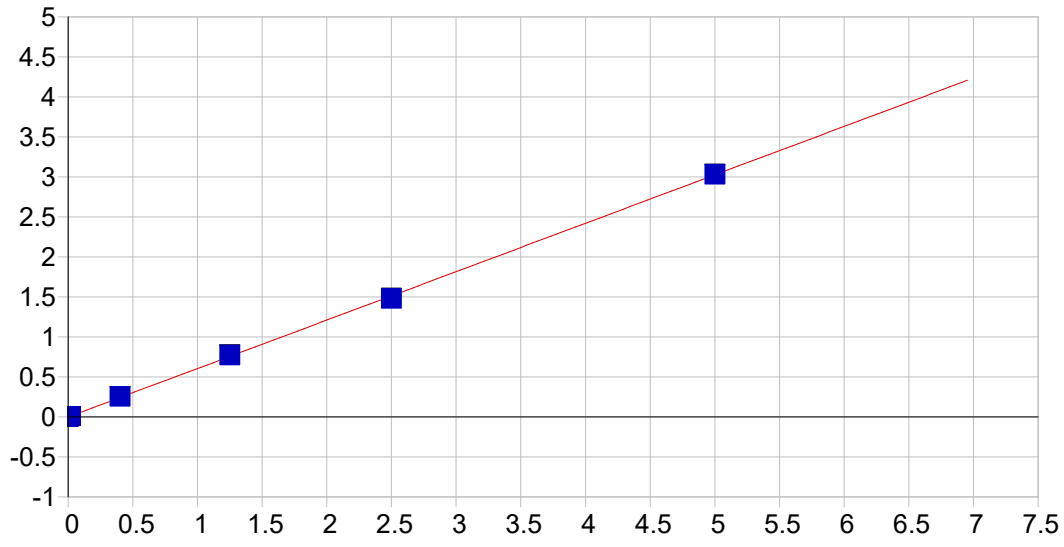
Fe 240.488 {140}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	0.005782	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.004006		
Predicted MQL:	0.013352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00002	.000	1
S1	.10000	.08942	-.011	-10.6	.00053	.000	1
S3	2.5000	2.4614	-.039	-1.55	.01413	.000	1
S4	5.0000	4.9343	-.066	-1.31	.02831	.000	1
S5	10.000	10.147	.147	1.47	.05820	.000	1
S2	.80000	.76747	-.033	-4.07	.00442	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



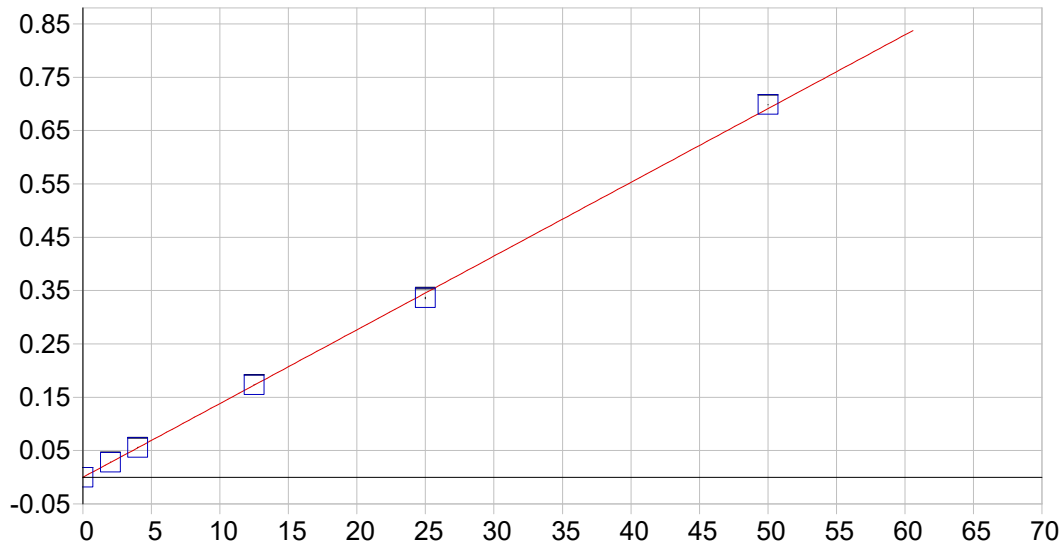
Mn 257.610 {131}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000029	Re-Slope:	1.000000
A1 (Gain):	0.605127	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000184		
Predicted MDL:	0.000259		
Predicted MQL:	0.000864		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.02000	.02152	.002	7.60	.01300	.000	1
S3	1.2500	1.2779	.028	2.24	.77344	.006	1
S4	2.5000	2.4428	-.057	-2.29	1.4785	.005	1
S5	5.0000	5.0074	.007	.148	3.0307	.004	1
S2	.40000	.42027	.020	5.07	.25434	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



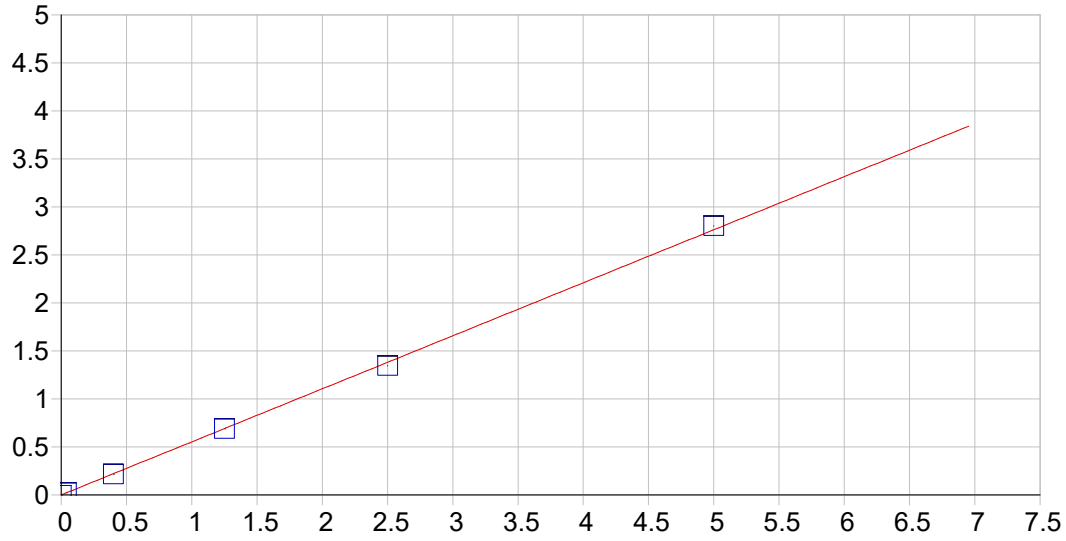
Mg 279.079 {121}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000115	Re-Slope:	1.000000
A1 (Gain):	0.013826	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000123		
Predicted MDL:	0.011951		
Predicted MQL:	0.039838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	-.00012	.000	1
S2	4.0000	4.0410	.041	1.03	.05575	.001	1
S3	12.500	12.554	.054	.431	.17345	.000	1
S4	25.000	24.319	-.681	-2.72	.33612	.002	1
S5	50.000	50.531	.531	1.06	.69851	.000	1
S1	2.0000	2.0545	.054	2.72	.02829	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



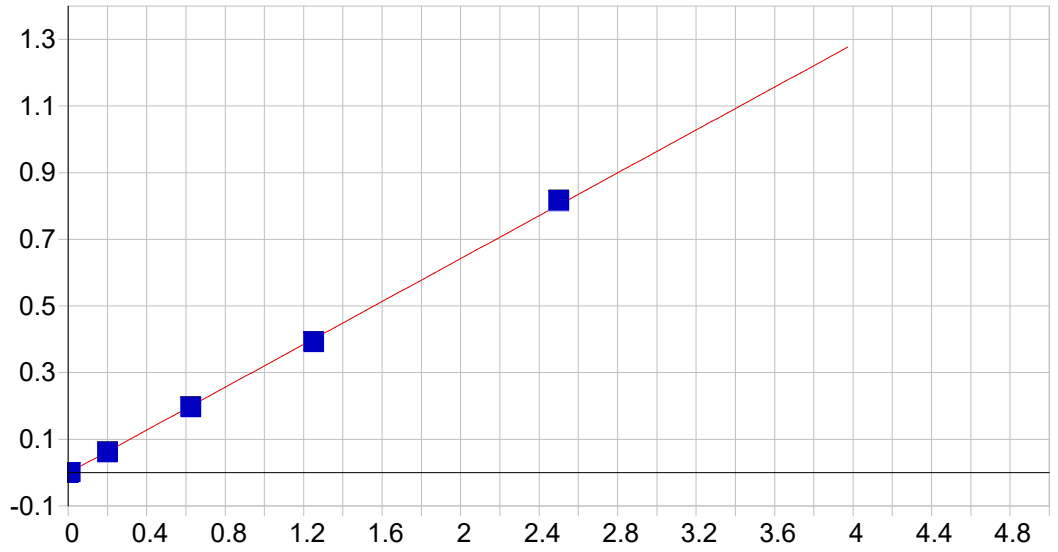
Ni 231.604 {446}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000058	Re-Slope:	1.000000
A1 (Gain):	0.552464	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000224		
Predicted MDL:	0.000322		
Predicted MQL:	0.001074		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.04000	.03926	-.001	-1.85	.02175	.000	1
S3	1.2500	1.2485	-.002	-.123	.68979	.001	1
S4	2.5000	2.4363	-.064	-2.55	1.3460	.001	1
S5	5.0000	5.0717	.072	1.43	2.8020	.002	1
S2	.40000	.39426	-.006	-1.43	.21787	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



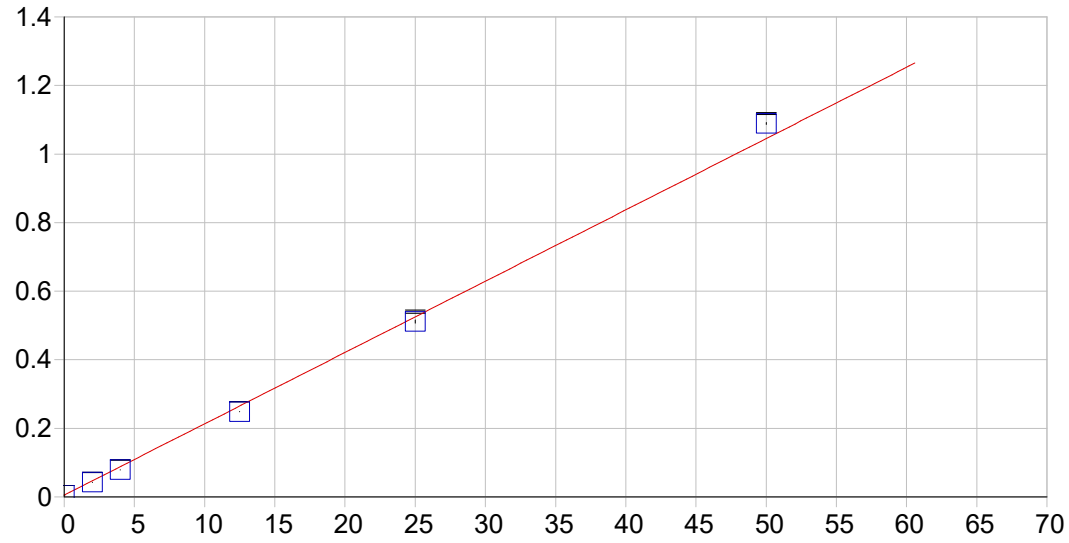
Ag 328.068 {103}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001273	Re-Slope:	1.000000
A1 (Gain):	0.321685	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.000302		
Predicted MQL:	0.001007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00127	.000	1
S1	.01000	.00949	-.001	-5.10	.00176	.000	1
S3	.62500	.61637	-.009	-1.38	.19621	.000	1
S4	1.2500	1.2234	-.027	-2.13	.39068	.000	1
S5	2.5000	2.5396	.040	1.59	.81250	.002	1
S2	.20000	.19610	-.004	-1.95	.06155	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



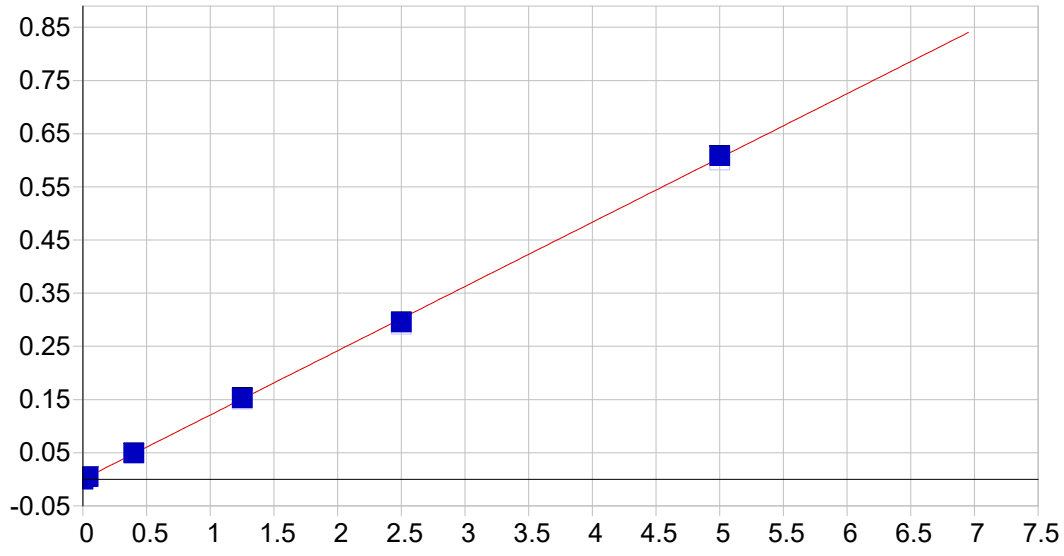
Na 589.592 { 57}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005286	Re-Slope:	1.000000
A1 (Gain):	0.020795	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998762	Status:	OK.
Std Error of Est:	0.000548		
Predicted MDL:	0.007430		
Predicted MQL:	0.024767		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00053	.001	.000	.00530	.000	1
S2	4.0000	3.5401	-.460	-11.5	.07890	.000	1
S3	12.500	11.702	-.798	-6.39	.24863	.000	1
S4	25.000	24.340	-.660	-2.64	.51145	.005	1
S5	50.000	52.121	2.12	4.24	1.0891	.003	1
S1	2.0000	1.7973	-.203	-10.1	.04266	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



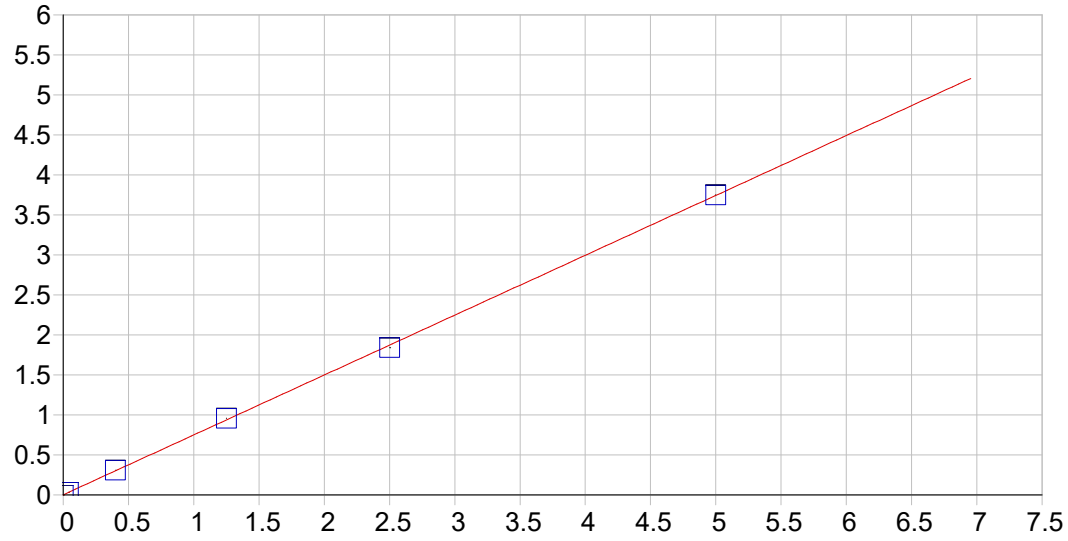
V 292.402 {115}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000087	Re-Slope:	1.000000
A1 (Gain):	0.120859	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.001396		
Predicted MQL:	0.004653		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.04000	.04054	.001	1.36	.00481	.000	1
S3	1.2500	1.2627	.013	1.02	.15049	.001	1
S4	2.5000	2.4453	-.055	-2.19	.29121	.000	1
S5	5.0000	5.0349	.035	.697	.59978	.000	1
S2	.40000	.40663	.007	1.66	.04853	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



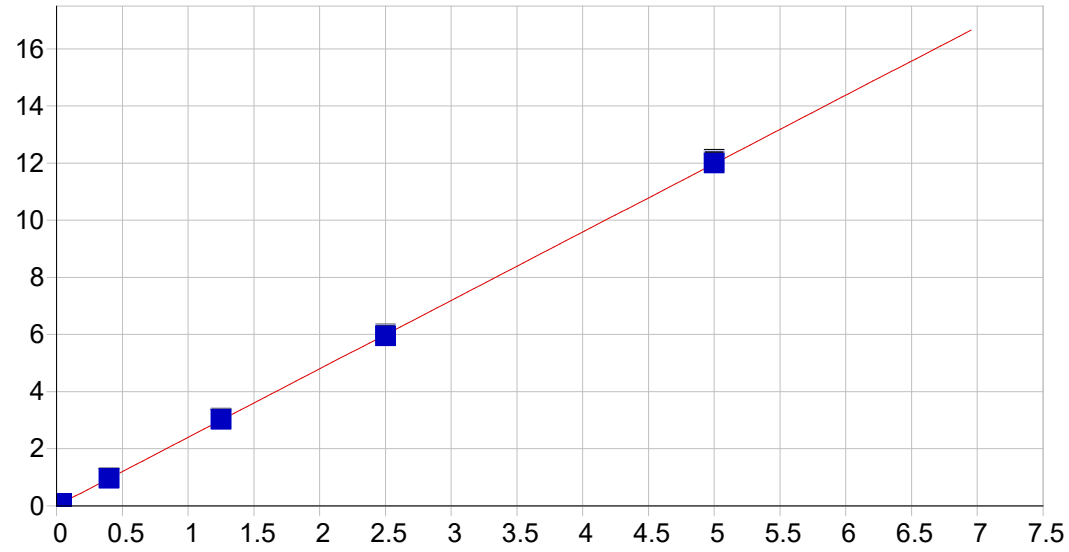
Zn 206.200 {464}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001602	Re-Slope:	1.000000
A1 (Gain):	0.748446	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000231		
Predicted MDL:	0.000244		
Predicted MQL:	0.000813		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00160	.000	1
S1	.04000	.04144	.001	3.59	.03262	.000	1
S3	1.2500	1.2776	.028	2.20	.95778	.001	1
S4	2.5000	2.4573	-.043	-1.71	1.8407	.001	1
S5	5.0000	5.0048	.005	.096	3.7474	.005	1
S2	.40000	.40894	.009	2.24	.30767	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



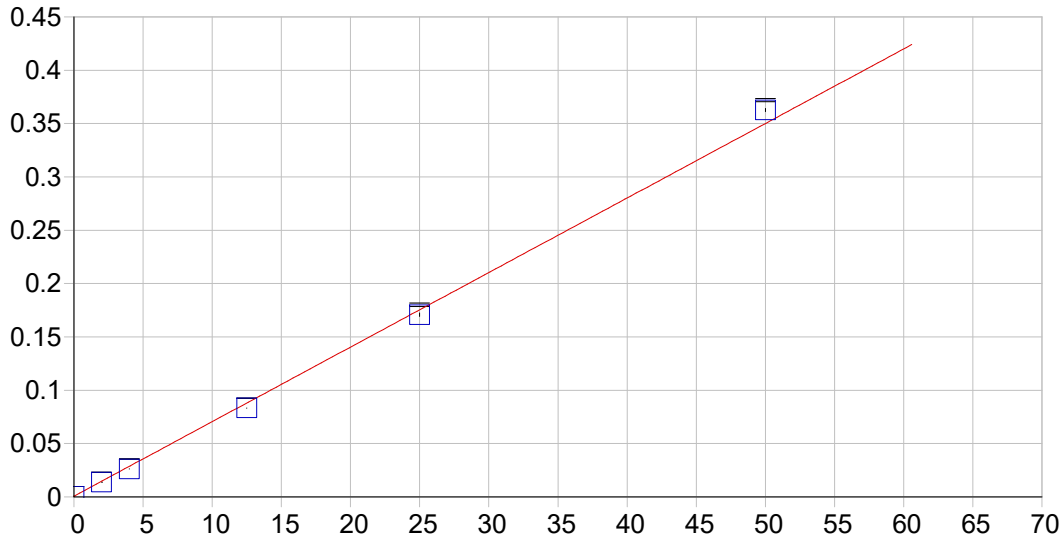
Zn 213.856 {158}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006557	Re-Slope:	1.000000
A1 (Gain):	2.395349	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000295		
Predicted MDL:	0.000318		
Predicted MQL:	0.001058		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00656	.001	1
S1	.04000	.04065	.001	1.64	.10461	.001	1
S3	1.2500	1.2615	.011	.918	3.0490	.016	1
S4	2.5000	2.4826	-.017	-.698	5.9948	.018	1
S5	5.0000	5.0069	.007	.139	12.083	.055	1
S2	.40000	.39838	-.002	-.406	.96747	.007	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



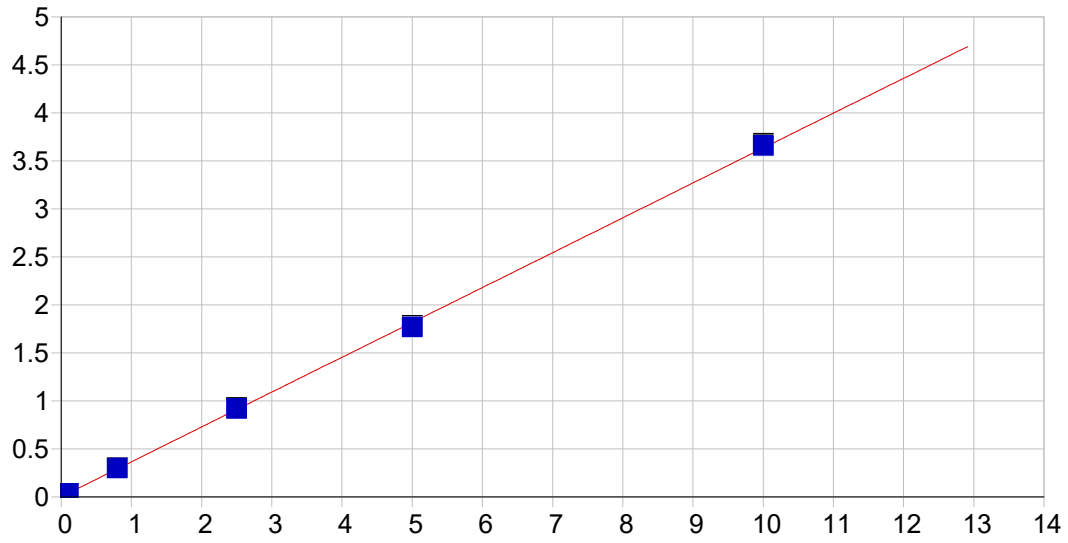
K 766.490 { 44}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000699	Re-Slope:	1.000000
A1 (Gain):	0.006988	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999159	Status:	OK.
Std Error of Est:	0.000152		
Predicted MDL:	0.023226		
Predicted MQL:	0.077420		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00039	.000	.000	.00070	.000	1
S2	4.0000	3.6532	-.347	-8.67	.02623	.000	1
S3	12.500	11.824	-.676	-5.41	.08332	.000	1
S4	25.000	24.348	-.652	-2.61	.17083	.002	1
S5	50.000	51.806	1.81	3.61	.36269	.002	1
S1	2.0000	1.8694	-.131	-6.53	.01376	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



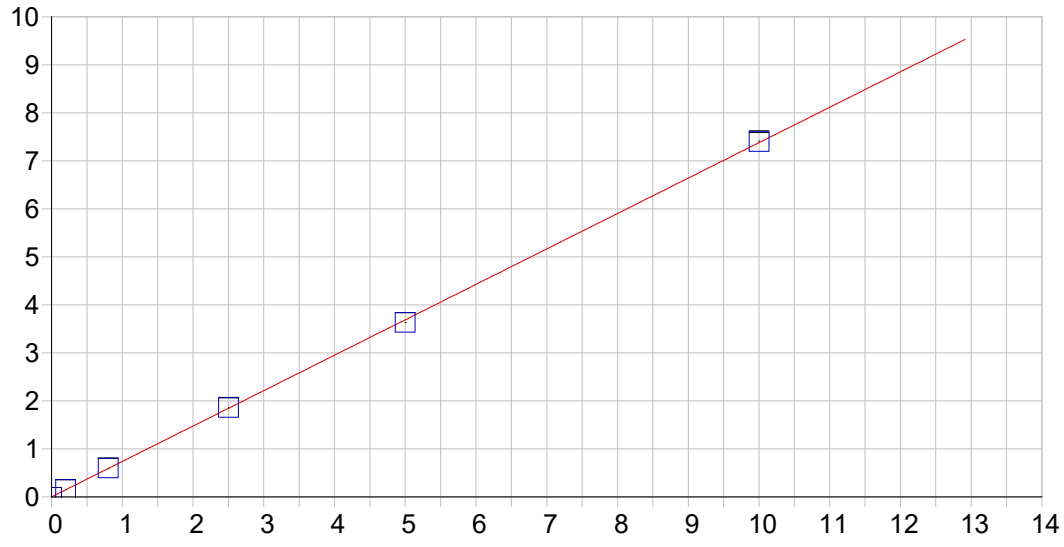
B 249.678 {135}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001952	Re-Slope:	1.000000
A1 (Gain):	0.363151	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.000326		
Predicted MDL:	0.000628		
Predicted MQL:	0.002094		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00195	.000	1
S1	.10000	.10579	.006	5.79	.04022	.001	1
S3	2.5000	2.5277	.028	1.11	.91812	.009	1
S4	5.0000	4.8672	-.133	-2.66	1.7659	.017	1
S5	10.000	10.077	.077	.772	3.6544	.021	1
S2	.80000	.82216	.022	2.77	.29995	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



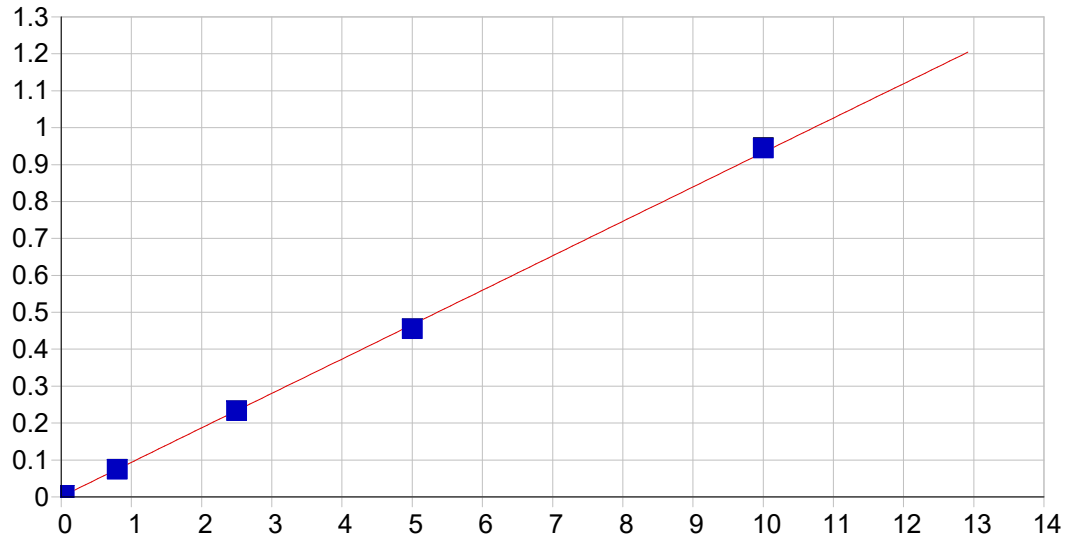
Mo 202.030 {467}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000329	Re-Slope:	1.000000
A1 (Gain):	0.738080	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000612		
Predicted MDL:	0.000262		
Predicted MQL:	0.000873		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00032	.000	1
S1	.20000	.21079	.011	5.39	.15591	.001	1
S3	2.5000	2.5229	.023	.915	1.8624	.003	1
S4	5.0000	4.9224	-.078	-1.55	3.6334	.001	1
S5	10.000	10.031	.031	.313	7.4042	.014	1
S2	.80000	.81266	.013	1.58	.60013	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



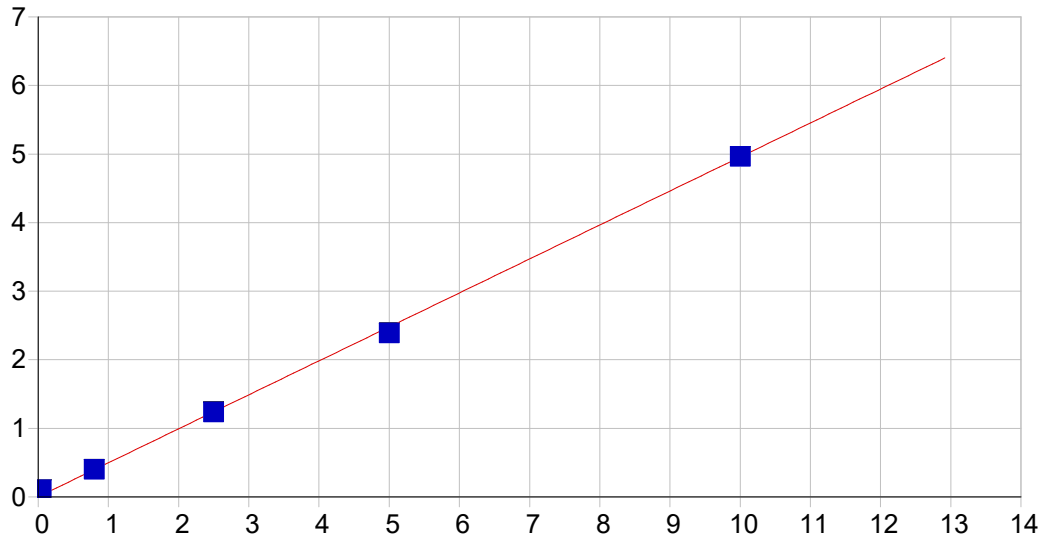
Sn 189.989 {478}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000538	Re-Slope:	1.000000
A1 (Gain):	0.093217	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999827	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.000895		
Predicted MQL:	0.002985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00054	.000	1
S1	.04000	.04846	.008	21.2	.00505	.000	1
S3	2.5000	2.4940	-.006	-.242	.23278	.000	1
S4	5.0000	4.8791	-.121	-2.42	.45488	.001	1
S5	10.000	10.125	.125	1.25	.94337	.001	1
S2	.80000	.79384	-.006	-.770	.07446	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



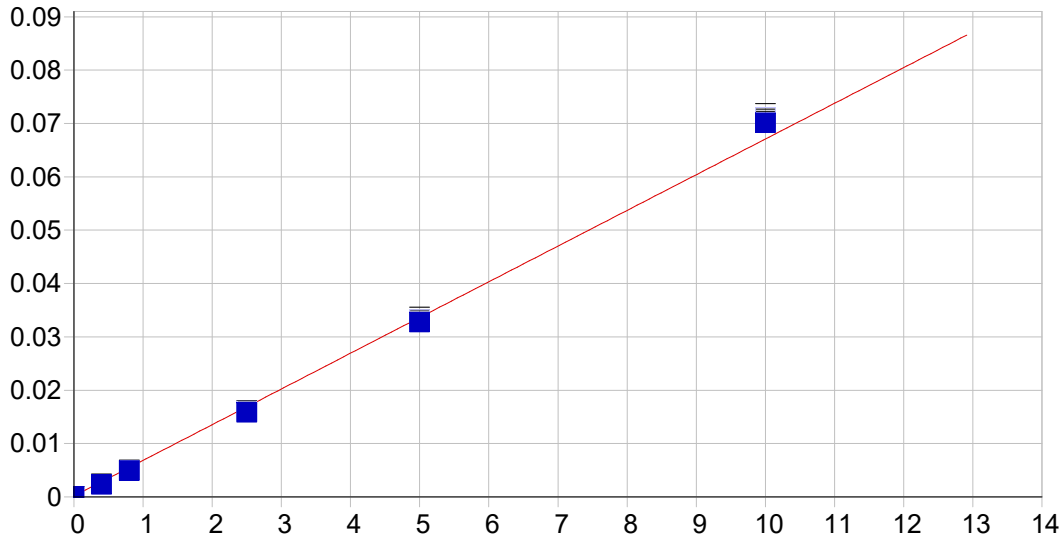
Ti 336.121 {100}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001877	Re-Slope:	1.000000
A1 (Gain):	0.495504	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.982027	Status:	OK.
Std Error of Est:	0.003156		
Predicted MDL:	0.000496		
Predicted MQL:	0.001652		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.00180	.000	1
S1	.04000	.20368	.164	409.	.10279	.000	1
S3	2.5000	2.4922	-.008	-.314	1.2363	.009	1
S4	5.0000	4.8213	-.179	-3.57	2.3900	.006	1
S5	10.000	10.014	.014	.145	4.9623	.003	1
S2	.80000	.80841	.008	1.05	.40230	.001	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



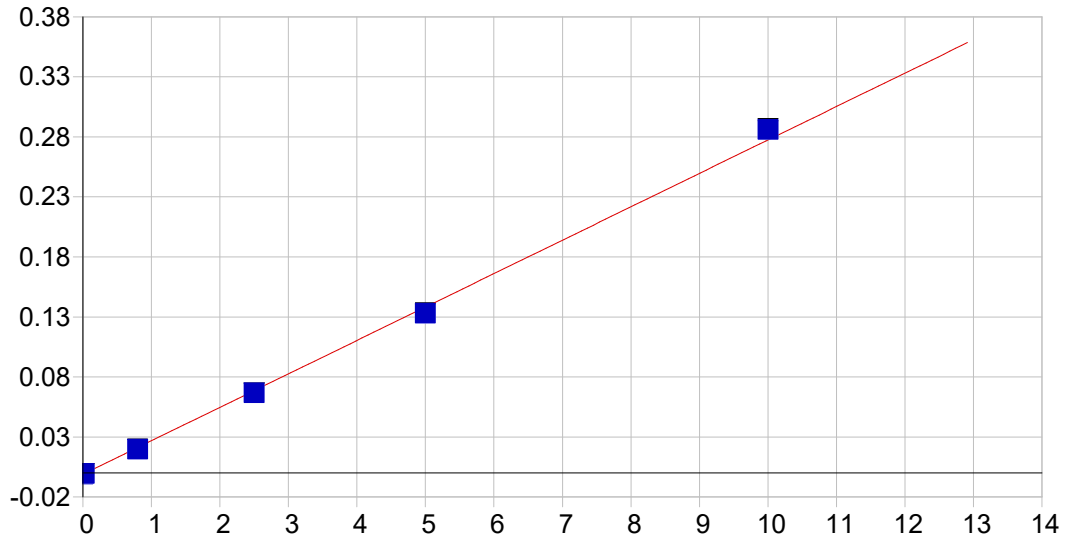
Si 288.158 {117}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.006693	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998485	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.005843		
Predicted MQL:	0.019476		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00014	.000	.000	.00016	.000	1
S1	.40000	.32667	-.073	-18.3	.00235	.000	1
S3	2.5000	2.3409	-.159	-6.37	.01608	.000	1
S4	5.0000	4.8670	-.133	-2.66	.03324	.000	1
S5	10.000	10.456	.456	4.56	.07115	.001	1
S2	.80000	.70842	-.092	-11.4	.00498	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



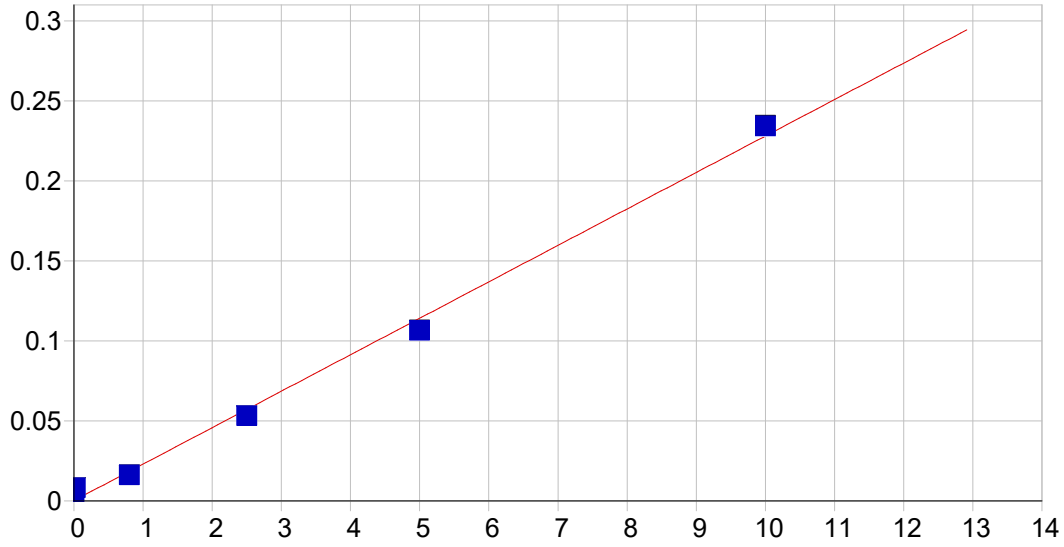
P 177.495 {490}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001033	Re-Slope:	1.000000
A1 (Gain):	0.027849	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999386	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.002832		
Predicted MQL:	0.009440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00103	.000	1
S1	.02000	.01885	-.001	-5.73	-.00051	.000	1
S3	2.5000	2.4333	-.067	-2.67	.06672	.000	1
S4	5.0000	4.8107	-.189	-3.79	.13292	.000	1
S5	10.000	10.312	.312	3.12	.28610	.001	1
S2	.80000	.74518	-.055	-6.85	.01972	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



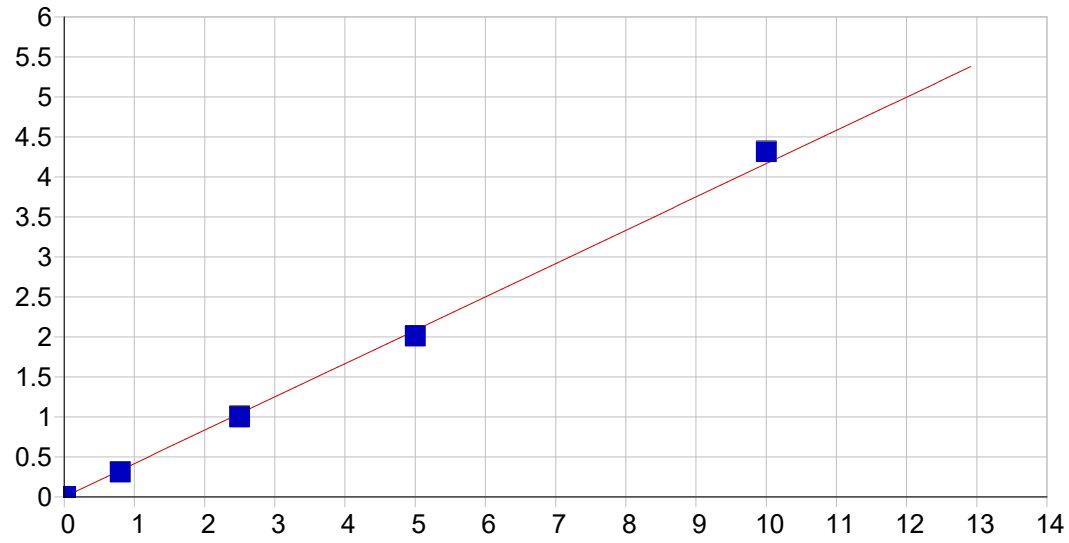
S 182.034 {485}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.022782	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.874312	Status:	OK.
Std Error of Est:	0.000296		
Predicted MDL:	0.003451		
Predicted MQL:	0.011505		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00033	-.000	.000	.00022	.000	1
S1	.02000	.35338	.333	1670.	.00826	.000	1
S3	2.5000	2.3291	-.171	-6.83	.05314	.000	1
S4	5.0000	4.6697	-.330	-6.61	.10632	.000	1
S5	10.000	10.280	.280	2.80	.23383	.000	1
S2	.80000	.70148	-.099	-12.3	.01616	.000	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



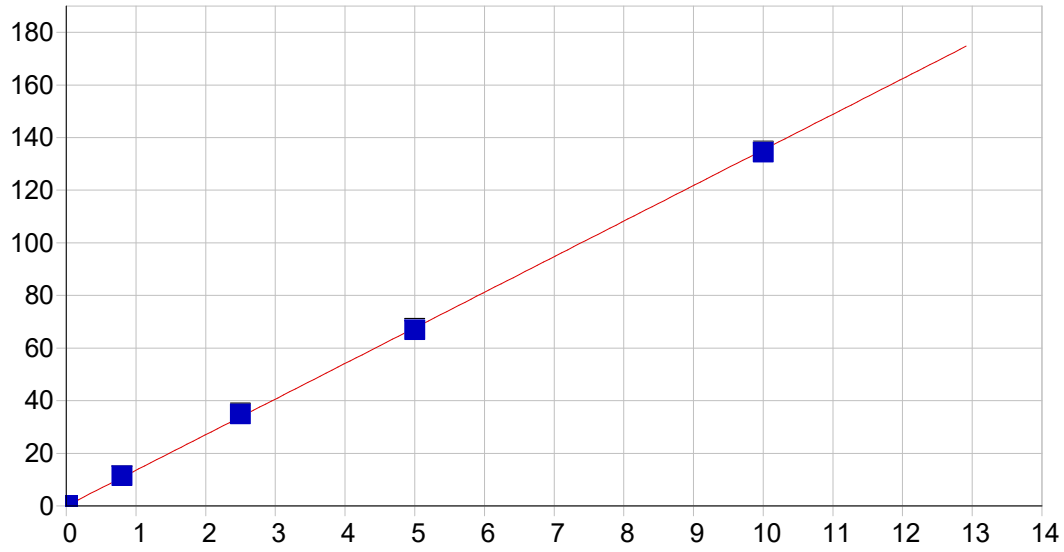
Li 670.784 { 50}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000670	Re-Slope:	1.000000
A1 (Gain):	0.416456	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999227	Status:	OK.
Std Error of Est:	0.000384		
Predicted MDL:	0.001733		
Predicted MQL:	0.005778		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00067	.000	1
S5	10.000	10.352	.352	3.52	4.3158	.008	1
S4	5.0000	4.8202	-.180	-3.60	2.0100	.006	1
S3	2.5000	2.3879	-.112	-4.48	.99608	.014	1
S1	.02000	.01834	-.002	-8.32	.00846	.000	1
S2	.80000	.74102	-.059	-7.37	.30957	.003	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524



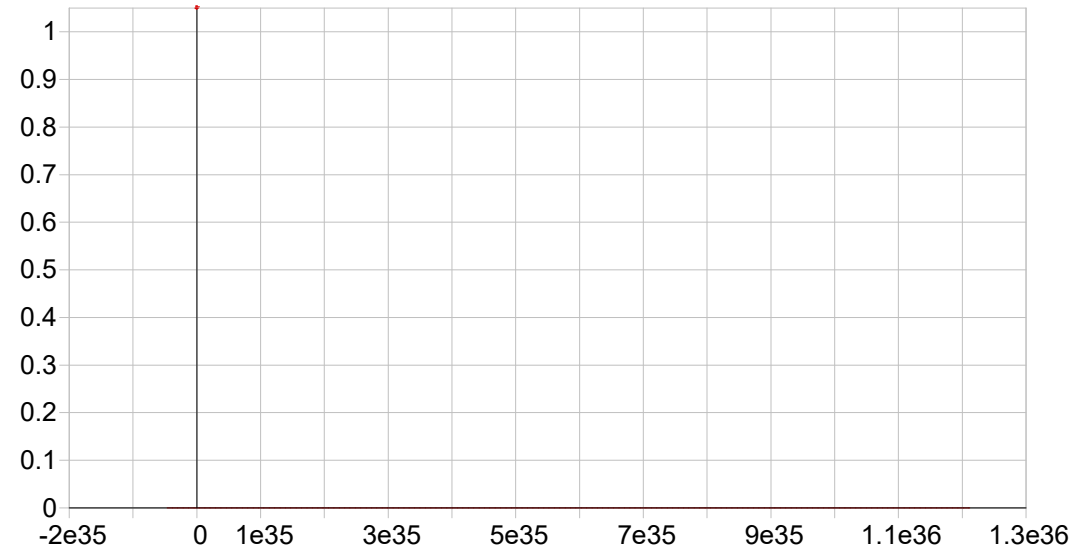
Sr 407.771 { 83}

Date of Fit:	11/19/2024 11:21:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000845	Re-Slope:	1.000000
A1 (Gain):	13.531831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.005514		
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	.00082	.000	1
S1	.02000	.02090	.001	4.49	.28500	.000	1
S3	2.5000	2.5754	.075	3.01	34.884	.371	1
S4	5.0000	4.9466	-.053	-1.07	67.005	.467	1
S5	10.000	9.9349	-.065	-.651	134.57	.273	1
S2	.80000	.84227	.042	5.28	11.409	.037	1

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

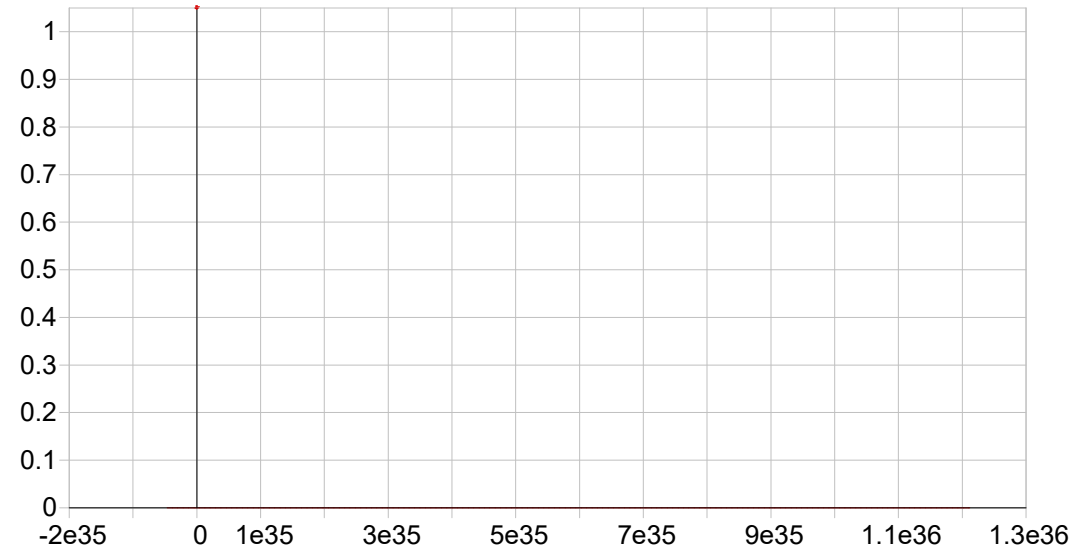


Y 224.306 {450}*

Date of Fit:	11/18/2024 12:31:27	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

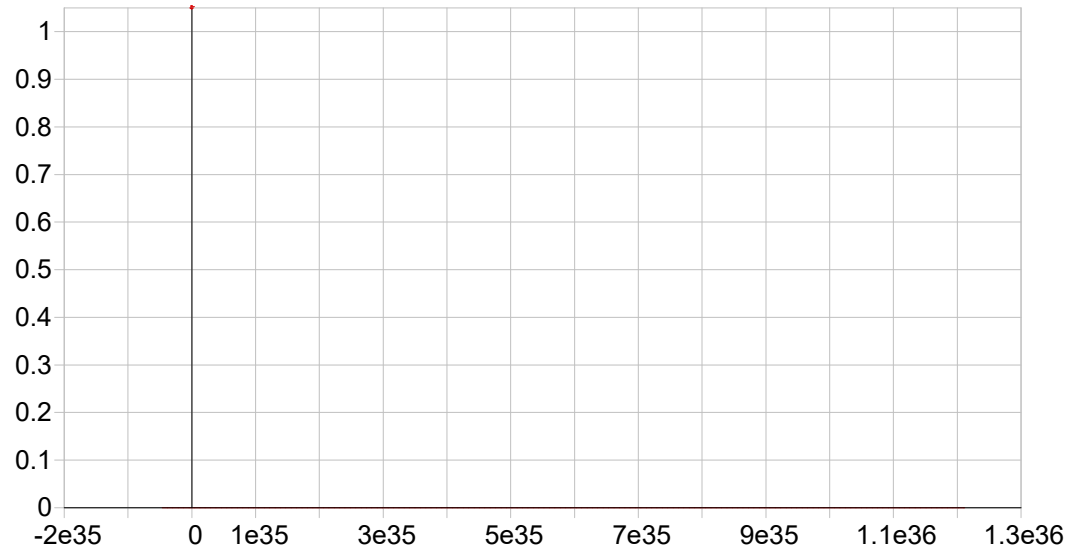
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

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



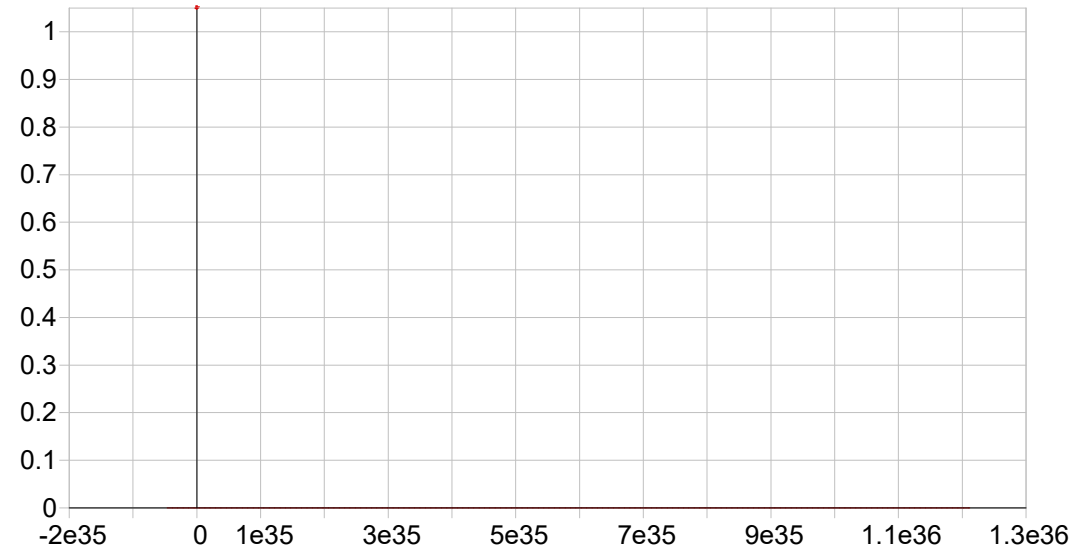
Y 371.030 { 91}*

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:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

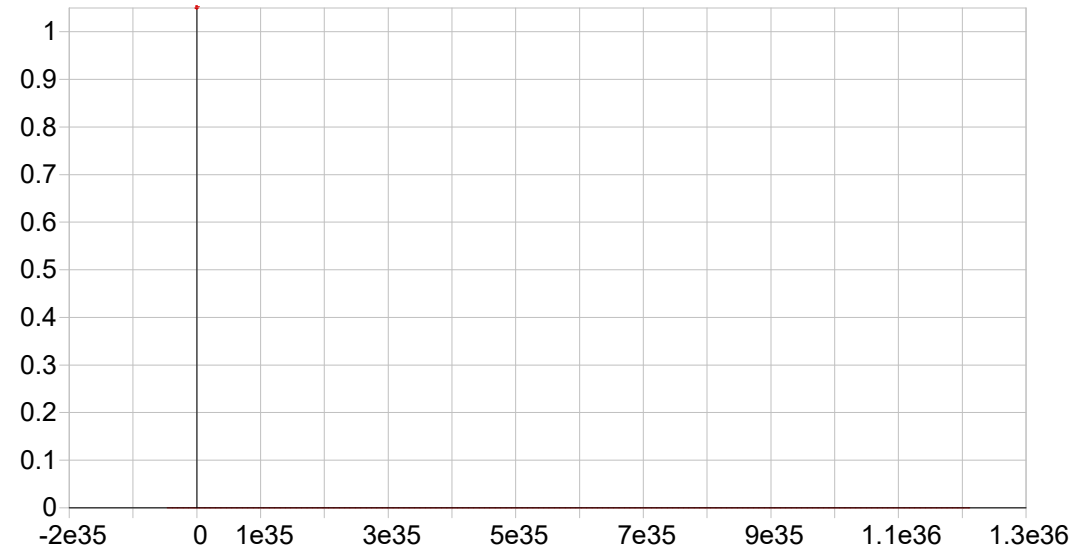


Y 224.306 {150}*

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:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

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:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S0 Acquired: 11/19/2024 10:55:49 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00024	-.00034	-.00036	.00039	.00011	.00007	-.02295	-.00057
Stddev	.00009	.00005	.00014	.00015	.00024	.00005	.00049	.00009
%RSD	36.732	15.336	37.169	38.713	217.42	68.776	2.1180	15.286
#1	-.00023	-.00039	-.00045	.00056	-.00016	.00009	-.02331	-.00049
#2	-.00033	-.00030	-.00021	.00035	.00019	.00010	-.02239	-.00056
#3	-.00016	-.00032	-.00044	.00027	.00030	.00001	-.02314	-.00067

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	.00168	-.00002	.00006	-.00020	.00002	-.00003	-.00012
Stddev	.00019	.00013	.00003	.00005	.00013	.00001	.00009	.00015
%RSD	182.88	7.8774	134.32	75.416	65.685	49.075	286.31	126.55
#1	-.00032	.00177	-.00004	.00004	-.00034	.00003	-.00003	-.00004
#2	.00003	.00153	.00001	.00012	-.00007	.00001	-.00012	-.00028
#3	-.00002	.00175	-.00005	.00003	-.00019	.00003	.00006	-.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	.00006	-.00127	.00530	.00009	.00656	.00070	.00195	.00032
Stddev	.00006	.00003	.00021	.00012	.00050	.00010	.00020	.00022
%RSD	95.407	2.4388	3.9260	134.73	7.6317	14.649	10.052	69.401
#1	-.00000	-.00125	.00509	.00016	.00637	.00064	.00218	.00023
#2	.00010	-.00126	.00529	-.00005	.00712	.00064	.00184	.00057
#3	.00008	-.00131	.00551	.00015	.00618	.00082	.00183	.00016

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	.00054	.00180	.00016	-.00103	.00022	.00067	.00082
Stddev	.00003	.00011	.00003	.00006	.00003	.00043	.00023
%RSD	6.1471	5.9270	16.164	5.6471	15.572	64.148	28.441
#1	.00057	.00169	.00015	-.00107	.00018	.00084	.00082
#2	.00054	.00180	.00019	-.00107	.00025	.00018	.00058
#3	.00050	.00190	.00015	-.00097	.00022	.00099	.00105

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S0 Acquired: 11/19/2024 10:55:49 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2732.4	62582.	13929.	1941.6	4705.3
Stddev	15.0	119.	40.	10.9	25.5
%RSD	.54935	.19047	.28679	.56028	.54149
#1	2729.3	62584.	13939.	1949.7	4692.6
#2	2719.1	62461.	13963.	1929.3	4688.6
#3	2748.7	62700.	13885.	1945.8	4734.6

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S1 Acquired: 11/19/2024 11:00:17 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00089	.00159	.00199	.00217	.00918	.00781	.31889	.01850
Stddev	.00005	.00001	.00017	.00004	.00005	.00021	.00073	.00028
%RSD	5.2033	.50070	8.3113	1.6316	.52702	2.6499	.22895	1.5263
#1	.00092	.00159	.00180	.00213	.00921	.00805	.31814	.01883
#2	.00092	.00159	.00211	.00220	.00921	.00766	.31960	.01833
#3	.00084	.00158	.00206	.00218	.00912	.00773	.31894	.01834

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	.01407	.08053	.00187	.02325	.01612	.00053	.01300	.02829
Stddev	.00024	.00012	.00004	.00006	.00007	.00002	.00010	.00016
%RSD	1.7146	.14624	2.2946	.27537	.44542	3.6179	.76085	.54931
#1	.01422	.08046	.00185	.02325	.01607	.00053	.01302	.02819
#2	.01379	.08067	.00191	.02332	.01609	.00056	.01289	.02847
#3	.01420	.08047	.00183	.02319	.01620	.00052	.01308	.02821

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	.02175	.00176	.04266	.00481	.10461	.01376	.04022	.15591
Stddev	.00003	.00006	.00049	.00011	.00080	.00006	.00059	.00058
%RSD	.11832	3.6680	1.1413	2.3125	.76858	.41109	1.4557	.37139
#1	.02172	.00176	.04210	.00470	.10539	.01376	.04089	.15657
#2	.02175	.00182	.04294	.00481	.10379	.01371	.03983	.15548
#3	.02177	.00169	.04295	.00492	.10465	.01382	.03993	.15568

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	.00505	.10279	.00235	-.00051	.00826	.00846	.28500
Stddev	.00003	.00015	.00003	.00006	.00005	.00003	.00049
%RSD	.53437	.14828	1.2491	11.595	.66463	.36270	.17173
#1	.00508	.10284	.00239	-.00044	.00830	.00849	.28538
#2	.00504	.10262	.00233	-.00053	.00828	.00843	.28444
#3	.00503	.10291	.00234	-.00056	.00820	.00845	.28517

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S1 Acquired: 11/19/2024 11:00:17 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2824.8	64793.	14167.	1989.0	4817.5
Stddev	8.7	229.	77.	5.1	6.9
%RSD	.30748	.35380	.54341	.25801	.14296
#1	2815.1	65038.	14080.	1993.2	4809.5
#2	2831.9	64583.	14194.	1983.3	4822.0
#3	2827.4	64760.	14226.	1990.6	4820.8

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S2 Acquired: 11/19/2024 11:04:40 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03974	.04143	.16275	.06466	.14121	.11543	5.2577	.13220
Stddev	.00018	.00022	.00023	.00018	.00023	.00050	.0246	.00081
%RSD	.46066	.52021	.14176	.28473	.16104	.43710	.46801	.61347
#1	.03992	.04151	.16275	.06475	.14146	.11485	5.2848	.13300
#2	.03974	.04160	.16299	.06478	.14102	.11568	5.2514	.13223
#3	.03955	.04119	.16252	.06445	.14113	.11577	5.2368	.13138

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	.75047	.15947	.03025	.30616	.14921	.00442	.25434	.05575
Stddev	.00037	.00079	.00011	.00013	.00041	.00003	.00122	.00053
%RSD	.04920	.49297	.37088	.04328	.27269	.61433	.48115	.94515
#1	.75089	.15928	.03035	.30624	.14962	.00439	.25564	.05605
#2	.75032	.16033	.03013	.30624	.14881	.00443	.25417	.05607
#3	.75019	.15879	.03027	.30601	.14921	.00444	.25321	.05515

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	.21787	.06155	.07890	.04853	.96747	.02623	.29995	.60013
Stddev	.00020	.00019	.00033	.00008	.00666	.00005	.00095	.00099
%RSD	.09052	.31208	.42434	.16483	.68866	.17235	.31753	.16547
#1	.21804	.06170	.07897	.04861	.97091	.02627	.30105	.60043
#2	.21793	.06134	.07854	.04851	.95979	.02618	.29941	.59903
#3	.21765	.06162	.07920	.04845	.97171	.02622	.29940	.60094

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	.07446	.40230	.00498	.01972	.01616	.30957	11.409
Stddev	.00004	.00087	.00005	.00011	.00007	.00272	.037
%RSD	.05595	.21605	.91887	.55195	.41934	.87914	.32567
#1	.07445	.40283	.00496	.01967	.01622	.31254	11.445
#2	.07443	.40278	.00495	.01964	.01609	.30899	11.412
#3	.07451	.40130	.00504	.01984	.01617	.30719	11.371

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S2 Acquired: 11/19/2024 11:04:40 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2840.1	65201.	14117.	2025.1	4757.1
Stddev	3.3	246.	90.	9.4	3.4
%RSD	.11686	.37657	.63989	.46403	.07129
#1	2836.9	64935.	14021.	2015.2	4757.1
#2	2843.5	65419.	14129.	2033.9	4760.5
#3	2839.7	65249.	14200.	2026.3	4753.7

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S3 Acquired: 11/19/2024 11:08:46 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12848	.12830	.51589	.20803	.45054	.35965	16.166	.40762
Stddev	.00013	.00062	.00050	.00072	.00109	.00359	.276	.00372
%RSD	.10279	.48000	.09757	.34554	.24296	.99719	1.7052	.91172
#1	.12856	.12787	.51617	.20778	.44928	.36358	16.478	.41191
#2	.12833	.12803	.51619	.20746	.45107	.35882	15.957	.40544
#3	.12855	.12901	.51531	.20883	.45127	.35655	16.062	.40551

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	2.3956	.48638	.09456	.97065	.46867	.01413	.77344	.17345
Stddev	.0022	.00289	.00011	.00114	.00036	.00004	.00645	.00024
%RSD	.09033	.59330	.11529	.11697	.07590	.25975	.83330	.13916
#1	2.3980	.48959	.09463	.97195	.46836	.01410	.78087	.17368
#2	2.3951	.48401	.09443	.96986	.46906	.01412	.77004	.17320
#3	2.3938	.48553	.09462	.97013	.46859	.01417	.76941	.17347

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	.68979	.19621	.24863	.15049	3.0490	.08332	.91812	1.8624
Stddev	.00099	.00017	.00041	.00134	.0157	.00014	.00874	.0030
%RSD	.14418	.08679	.16590	.88988	.51343	.16629	.95191	.15892
#1	.69092	.19633	.24900	.15196	3.0556	.08330	.92800	1.8599
#2	.68938	.19601	.24870	.14935	3.0604	.08346	.91493	1.8617
#3	.68906	.19627	.24818	.15017	3.0312	.08318	.91142	1.8657

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	.23278	1.2363	.01608	.06672	.05314	.99608	34.884
Stddev	.00016	.0093	.00014	.00024	.00016	.01433	.371
%RSD	.07071	.75555	.87803	.35234	.30601	1.4385	1.0632
#1	.23294	1.2469	.01593	.06675	.05304	1.0125	35.275
#2	.23261	1.2327	.01610	.06694	.05306	.98934	34.537
#3	.23278	1.2293	.01621	.06647	.05333	.98637	34.841

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S3 Acquired: 11/19/2024 11:08:46 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.8	62403.	14157.	1922.2	4447.1
Stddev	1.7	41.	142.	10.4	7.4
%RSD	.06122	.06563	1.0030	.53896	.16595
#1	2709.5	62407.	13994.	1911.9	4438.6
#2	2712.6	62441.	14241.	1922.3	4451.9
#3	2710.1	62360.	14238.	1932.6	4450.7

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S4 Acquired: 11/19/2024 11:13:02 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25388	.25502	1.0034	.41384	.89691	.70168	31.475	.78391
Stddev	.00043	.00136	.0015	.00016	.00025	.00097	.302	.00795
%RSD	.16911	.53500	.14526	.03874	.02764	.13838	.95940	1.0145
#1	.25353	.25371	1.0017	.41373	.89700	.70273	31.774	.79054
#2	.25436	.25643	1.0042	.41403	.89663	.70082	31.482	.77509
#3	.25375	.25493	1.0043	.41378	.89710	.70148	31.170	.78610

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	4.6980	.93365	.18378	1.9015	.91087	.02831	1.4785	.33612
Stddev	.0038	.00201	.00075	.0009	.00023	.00020	.0049	.00173
%RSD	.08008	.21535	.40576	.04734	.02553	.70283	.32882	.51393
#1	4.6946	.93586	.18304	1.9004	.91075	.02808	1.4841	.33774
#2	4.7021	.93192	.18377	1.9021	.91114	.02839	1.4751	.33430
#3	4.6973	.93319	.18453	1.9019	.91072	.02845	1.4763	.33632

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	1.3460	.39068	.51145	.29121	5.9948	.17083	1.7659	3.6334
Stddev	.0011	.00045	.00470	.00017	.0180	.00176	.0167	.0005
%RSD	.08181	.11501	.91978	.05674	.30072	1.0282	.94714	.01390
#1	1.3463	.39016	.50729	.29124	6.0072	.16890	1.7823	3.6330
#2	1.3470	.39094	.51655	.29104	6.0031	.17232	1.7489	3.6340
#3	1.3448	.39093	.51050	.29136	5.9741	.17128	1.7665	3.6333

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	.45488	2.3900	.03324	.13292	.10632	2.0100	67.005
Stddev	.00063	.0059	.00046	.00032	.00019	.0060	.467
%RSD	.13744	.24502	1.3787	.23896	.17553	.29923	.69714
#1	.45417	2.3965	.03271	.13257	.10625	2.0162	67.469
#2	.45535	2.3883	.03349	.13319	.10652	2.0095	66.535
#3	.45511	2.3851	.03352	.13298	.10617	2.0042	67.010

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S4 Acquired: 11/19/2024 11:13:02 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2613.0	59183.	14085.	1818.0	4240.7
Stddev	.7	231.	97.	15.7	3.7
%RSD	.02755	.39055	.68528	.86176	.08609
#1	2612.2	59378.	13974.	1814.4	4243.3
#2	2613.2	58927.	14151.	1804.4	4236.5
#3	2613.6	59243.	14131.	1835.1	4242.3

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S5 Acquired: 11/19/2024 11:17:15 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.53732	.52136	2.0948	.88076	1.8907	1.4682	65.198	1.5960
Stddev	.00202	.00340	.0036	.00314	.0080	.0018	.299	.0118
%RSD	.37681	.65162	.17330	.35615	.42218	.12130	.45869	.74082
#1	.53742	.52104	2.0964	.88033	1.8931	1.4672	65.312	1.6082
#2	.53525	.51813	2.0974	.87785	1.8818	1.4703	64.858	1.5954
#3	.53929	.52490	2.0906	.88408	1.8973	1.4671	65.423	1.5846

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	9.8306	1.9081	.37034	3.9765	1.8771	.05820	3.0307	.69851
Stddev	.0135	.0034	.00176	.0030	.0064	.00017	.0036	.00027
%RSD	.13752	.17944	.47469	.07639	.34305	.29006	.11916	.03872
#1	9.8385	1.9104	.37141	3.9772	1.8785	.05805	3.0348	.69874
#2	9.8382	1.9097	.37129	3.9791	1.8700	.05838	3.0291	.69858
#3	9.8150	1.9042	.36831	3.9732	1.8827	.05818	3.0282	.69821

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	2.8020	.81250	1.0891	.59978	12.083	.36269	3.6544	7.4042
Stddev	.0017	.00235	.0026	.00034	.055	.00151	.0209	.0142
%RSD	.06067	.28873	.23439	.05667	.45311	.41535	.57136	.19123
#1	2.8031	.81429	1.0864	.60013	12.091	.36102	3.6784	7.4079
#2	2.8028	.81336	1.0896	.59977	12.133	.36313	3.6448	7.3886
#3	2.8000	.80984	1.0915	.59945	12.025	.36393	3.6401	7.4162

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	.94337	4.9623	.07115	.28610	.23383	4.3158	134.57
Stddev	.00102	.0026	.00072	.00090	.00032	.0079	.27
%RSD	.10786	.05276	1.0101	.31629	.13629	.18408	.20323
#1	.94231	4.9653	.07033	.28505	.23415	4.3182	134.43
#2	.94433	4.9613	.07145	.28660	.23351	4.3069	134.40
#3	.94347	4.9603	.07167	.28663	.23382	4.3222	134.89

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: S5 Acquired: 11/19/2024 11:17:15 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2511.3	58461.	14021.	1768.1	3987.9
Stddev	8.9	140.	26.	14.1	5.7
%RSD	.35445	.23885	.18861	.80011	.14417
#1	2509.4	58618.	13995.	1781.2	3986.7
#2	2521.0	58351.	14021.	1753.1	3994.1
#3	2503.5	58414.	14048.	1769.9	3982.8

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICV01 Acquired: 11/19/2024 11:25:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023663	1.092520	1.038383	1.039855	1.013157	2.651644
Stddev	.001146	.010070	.001627	.001973	.000114	.007986
%RSD	.1119902	.9217608	.1567155	.1897561	.0112470	.3011561
#1	1.024811	1.081907	1.037359	1.037576	1.013053	2.642471
#2	1.022519	1.101942	1.037530	1.041014	1.013279	2.657048
#3	1.023658	1.093711	1.040259	1.040974	1.013140	2.655411

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5415475	.5363112	.5258589	10.68863	.5509959	.5305745
Stddev	.0013092	.0007365	.0003492	.00289	.0014368	.0003937
%RSD	.2417480	.1373267	.0663958	.0270659	.2607618	.0742069
#1	.5416052	.5362729	.5254607	10.69196	.5523996	.5301409
#2	.5402103	.5370660	.5261122	10.68714	.5495281	.5306727
#3	.5428268	.5355945	.5260039	10.68678	.5510600	.5309098

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5375422	10.37606	.5503057	6.281840	.5323687	.2614030
Stddev	.0006636	.02812	.0011209	.016855	.0006028	.0003187
%RSD	.1234499	.2710300	.2036881	.2683084	.1132262	.1219082
#1	.5379042	10.38069	.5514581	6.267448	.5321359	.2613348
#2	.5379460	10.34591	.5492192	6.300383	.5319169	.2611240
#3	.5367763	10.40158	.5502397	6.277691	.5330531	.2617503

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.757754	.5236419	1.063047	10.00867	2.506187	2.581474
Stddev	.051533	.0012874	.000900	.05060	.003177	.003259
%RSD	.5281244	.2458554	.0846731	.5055898	.1267622	.1262495
#1	9.794180	.5221607	1.063279	9.98308	2.507534	2.580387
#2	9.698791	.5244918	1.063808	9.97597	2.508468	2.585137
#3	9.780290	.5242732	1.062053	10.06695	2.502558	2.578896

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICV01 Acquired: 11/19/2024 11:25:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.485943	2.521254	F 1.933489	F .0064778	F -.007901	F .0007460
Stddev	.005632	.003949	.009703	.0022060	.003981	.0013380
%RSD	.2265648	.1566442	.5018249	34.05443	50.38654	179.3584
#1	2.480214	2.519724	1.922290	.0046343	-.006849	-.000523
#2	2.491473	2.518298	1.939369	.0089218	-.004552	.002144
#3	2.486142	2.525739	1.938808	.0058772	-.012303	.000618

Elem	Sr4077
Units	ppm
Avg	F -.009001
Stddev	.000060
%RSD	.6618010
#1	-.008972
#2	-.008961
#3	-.009069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.920	61748.83	14153.86	1913.311	4544.185
Stddev	10.919	213.02	25.10	11.396	9.807
%RSD	.4008552	.3449808	.1773185	.5956352	.2158247
#1	2716.873	61506.97	14126.77	1900.624	4538.525
#2	2718.390	61908.56	14158.49	1916.625	4538.519
#3	2736.498	61830.97	14176.32	1922.682	4555.509

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LLICV01 Acquired: 11/19/2024 11:34:17 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205033	.0391786	.0123684	.0206013	.0510667	.1043452
Stddev	.0014461	.0020174	.0004562	.0026173	.0005219	.0012560
%RSD	7.053147	5.149207	3.688021	12.70468	1.021944	1.203665
#1	.0210336	.0398484	.0123189	.0201292	.0505792	.1029131
#2	.0188669	.0369115	.0128473	.0182521	.0516172	.1048632
#3	.0216095	.0407759	.0119391	.0234225	.0510035	.1052593

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1043799	.0058543	.0058921	2.094437	.0107050	.0298553
Stddev	.0002978	.0000530	.0000415	.009956	.0002226	.0003477
%RSD	.2852555	.9054589	.7048570	.4753624	2.079365	1.164666
#1	.1040895	.0059127	.0059058	2.083296	.0108950	.0302556
#2	.1043657	.0058091	.0059250	2.097551	.0104601	.0296283
#3	.1046845	.0058412	.0058454	2.102464	.0107598	.0296820

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223124	.1000675	.0213875	2.037378	.0397440	.0100659
Stddev	.0003197	.0007752	.0000945	.016166	.0001023	.0001461
%RSD	1.432981	.7746943	.4417565	.7934875	.2573533	1.451254
#1	.0224665	.1005215	.0212787	2.018911	.0398383	.0099023
#2	.0225258	.1005086	.0214493	2.048974	.0396352	.0101122
#3	.0219447	.0991724	.0214344	2.044250	.0397586	.0101832

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.816150	.0402873	.0457501	1.923074	.1118494	.2146340
Stddev	.016971	.0004858	.0003991	.008575	.0005836	.0005040
%RSD	.9344236	1.205706	.8722833	.4459165	.5217522	.2348025
#1	1.801926	.0408191	.0461532	1.924876	.1124883	.2151894
#2	1.834935	.0401760	.0457420	1.930605	.1113443	.2145066
#3	1.811588	.0398669	.0453552	1.913741	.1117157	.2142059

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LLICV01 Acquired: 11/19/2024 11:34:17 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0489022	F .2041213	.3400141	.0194373	F .3589843	.0183263
Stddev	.0005193	.0007651	.0050381	.0006444	.0046131	.0004741
%RSD	1.061872	.3748327	1.481726	3.315210	1.285055	2.586747
#1	.0494412	.2033106	.3386226	.0196818	.3640580	.0181183
#2	.0484051	.2048307	.3358181	.0199237	.3550422	.0188688
#3	.0488604	.2042227	.3456017	.0187065	.3578528	.0179918

Elem	Sr4077
Units	ppm
Avg	.0210214
Stddev	.0000412
%RSD	.1958796
#1	.0210209
#2	.0210628
#3	.0209804

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2692.649	62330.79	14128.39	1888.805	4636.544
Stddev	8.807	93.68	24.34	4.377	13.560
%RSD	.3270729	.1502936	.1723056	.2317504	.2924681
#1	2691.020	62223.99	14101.00	1886.954	4628.551
#2	2684.770	62399.09	14136.61	1885.657	4628.880
#3	2702.156	62369.28	14147.56	1893.804	4652.201

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICB01 Acquired: 11/19/2024 11:38:37 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000856	-.002207	-.000049	.0015815	-.000429	.0032145	-.000937
Stddev	.001153	.000733	.000835	.0009213	.000055	.0025555	.000253
%RSD	134.6754	33.20900	1716.820	58.25403	12.86479	79.50120	27.02380
#1	-.000425	-.002838	.000853	.0010512	-.000493	.0006737	-.000985
#2	-.002163	-.002379	-.000795	.0026452	-.000399	.0057845	-.001164
#3	.000019	-.001403	-.000204	.0010480	-.000395	.0031852	-.000664

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	.0000044	-.016175	.0003784	-.000216	.0000420	-.003945
Stddev	.000079	.0000300	.004737	.0003029	.000162	.0004141	.004392
%RSD	149.7030	682.6613	29.28820	80.03607	74.79340	985.6474	111.3393
#1	-.000077	-.000030	-.019616	.0006996	-.000160	-.000034	-.001295
#2	.000036	.000019	-.010772	.0003379	-.000090	.000489	-.001524
#3	-.000117	.000024	-.018137	.0000979	-.000399	-.000329	-.009014

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001055	-.002932	-.000382	-.000199	-.058367	-.000810	-.000985
Stddev	.0002082	.007942	.000097	.000258	.001958	.001159	.000274
%RSD	197.4986	270.8591	25.43883	129.8829	3.355404	143.0429	27.78848
#1	-.000065	-.005776	-.000491	-.000486	-.060627	-.001587	-.001001
#2	.000338	-.009060	-.000350	-.000122	-.057174	-.001365	-.001249
#3	.000044	.006040	-.000304	.000013	-.057299	.000522	-.000703

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009811	.0026290	-.000037	.0095219	-.000356	.0019549	-.001188
Stddev	.013845	.0005231	.000063	.0002308	.000207	.0049818	.001154
%RSD	141.1188	19.89714	170.0382	2.423582	58.16404	254.8374	97.13880
#1	-.025653	.0029574	-.000094	.0097455	-.000334	.0000034	-.001925
#2	-.003751	.0020258	-.000048	.0095356	-.000161	-.001756	.000142
#3	-.000029	.0029039	.000031	.0092846	-.000573	.007617	-.001780

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICB01 Acquired: 11/19/2024 11:38:37 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003121	-.000116	-.000096
Stddev	.001853	.001821	.000012
%RSD	59.35891	1565.418	12.27323
#1	-.002035	.001558	-.000083
#2	-.002068	.000148	-.000105
#3	-.005260	-.002056	-.000100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.980	62690.77	14105.66	1891.012	4693.106
Stddev	14.554	83.86	33.98	6.131	19.074
%RSD	.5398281	.1337642	.2409234	.3242045	.4064315
#1	2680.442	62606.70	14066.42	1885.996	4673.020
#2	2698.204	62691.21	14125.62	1897.846	4695.323
#3	2709.293	62774.41	14124.92	1889.193	4710.975

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CRI01 Acquired: 11/19/2024 11:43:00 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193977	.0390569	.0120840	.0180950	.0491135	.1067218
Stddev	.0029873	.0020737	.0003325	.0020518	.0013694	.0033882
%RSD	15.40019	5.309468	2.751513	11.33902	2.788168	3.174816
#1	.0209724	.0381800	.0122150	.0198784	.0484789	.1042986
#2	.0212682	.0375657	.0123311	.0158526	.0506851	.1105935
#3	.0159525	.0414250	.0117060	.0185539	.0481766	.1052733

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046275	.0059004	.0057839	2.069313	.0101636	.0296160
Stddev	.0001415	.0000318	.0000917	.017028	.0003800	.0001228
%RSD	.1351946	.5386663	1.585634	.8228914	3.738678	.4146858
#1	.1044965	.0059263	.0058166	2.054010	.0105878	.0295164
#2	.1047775	.0058649	.0056803	2.087657	.0098545	.0297532
#3	.1046085	.0059099	.0058547	2.066273	.0100484	.0295784

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0221747	.0960009	.0211396	2.046503	.0390825	.0100869
Stddev	.0003698	.0020437	.0002109	.006271	.0001502	.0000568
%RSD	1.667848	2.128818	.9973981	.3064173	.3844082	.5634035
#1	.0226016	.0953175	.0210936	2.046630	.0392528	.0101146
#2	.0219734	.0943865	.0213697	2.040170	.0390263	.0100215
#3	.0219492	.0982987	.0209556	2.052710	.0389685	.0101246

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.809978	.0396163	.0423611	1.920277	.1069730	.2127577
Stddev	.007514	.0003878	.0009085	.017495	.0002602	.0005427
%RSD	.4151493	.9789922	2.144584	.9110766	.2432236	.2550877
#1	1.803260	.0392880	.0415541	1.928481	.1067214	.2121428
#2	1.808582	.0395167	.0421843	1.900188	.1072410	.2131698
#3	1.818093	.0400442	.0433450	1.932163	.1069568	.2129605

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CRI01 Acquired: 11/19/2024 11:43:00 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487037	F .2028860	.3439067	.0169639	F .3524992	.0171258
Stddev	.0007753	.0007419	.0062083	.0021616	.0026091	.0017191
%RSD	1.591768	.3656864	1.805230	12.74236	.7401818	10.03799
#1	.0495591	.2021451	.3504399	.0183823	.3494944	.0184118
#2	.0480474	.2028841	.3431955	.0180333	.3538126	.0151733
#3	.0485046	.2036289	.3380845	.0144760	.3541907	.0177924

Elem	Sr4077
Units	ppm
Avg	.0208870
Stddev	.0000478
%RSD	.2287941
#1	.0208553
#2	.0209419
#3	.0208637

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2778.733	62968.64	14233.99	1934.313	4778.208
Stddev	2.143	109.79	14.99	1.825	9.553
%RSD	.0771094	.1743621	.1053032	.0943316	.1999347
#1	2781.203	62844.90	14226.50	1932.396	4789.131
#2	2777.616	63054.42	14224.22	1934.514	4771.411
#3	2777.380	63006.60	14251.25	1936.028	4774.082

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICSA01 Acquired: 11/19/2024 11:47:19 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033045	-.003778	.0080599	-.017377	-.001781	263.3966
Stddev	.0033167	.002484	.0008655	.003716	.002757	1.2732
%RSD	100.3693	65.76244	10.73830	21.38451	154.7810	.4833752
#1	.0021314	-.002589	.0072289	-.021662	-.003630	264.8299
#2	.0070484	-.002111	.0089562	-.015038	-.003101	262.3967
#3	.0007338	-.006633	.0079947	-.015432	.001388	262.9632

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053912	.0012713	.0034811	251.0711	.0571669	.0021438
Stddev	.0002846	.0000831	.0000610	.1849	.0003832	.0002096
%RSD	5.278421	6.533442	1.752450	.0736379	.6703520	9.775735
#1	.0051766	.0012597	.0035487	250.9550	.0575933	.0023260
#2	.0052831	.0011946	.0034302	250.9740	.0568512	.0021905
#3	.0057140	.0013595	.0034643	251.2843	.0570562	.0019148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074807	98.17656	.0040232	274.4109	.0020627	-.000445
Stddev	.0006538	.23379	.0003770	.3855	.0005887	.000153
%RSD	8.739847	.2381285	9.369775	.1404974	28.53881	34.35084
#1	.0077376	98.21386	.0044400	274.0659	.0018845	-.000616
#2	.0067375	97.92636	.0037060	274.3398	.0027198	-.000398
#3	.0079670	98.38945	.0039237	274.8270	.0015837	-.000321

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498234	.0070403	.0056955	.0438463	.0344430	-.001014
Stddev	.0170241	.0005924	.0002115	.0113958	.0001458	.000485
%RSD	34.16898	8.414611	3.713978	25.99033	.4232375	47.90309
#1	.0312660	.0066456	.0055762	.0310036	.0343697	-.001378
#2	.0534861	.0077215	.0059397	.0527502	.0346109	-.000462
#3	.0647180	.0067539	.0055705	.0477851	.0343484	-.001201

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICSA01 Acquired: 11/19/2024 11:47:19 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049138	-.001108	.0096906	.0023930	-.015253	F .0442051
Stddev	.0012078	.000274	.0026951	.0019868	.001215	.0020287
%RSD	24.58003	24.73216	27.81169	83.02369	7.963069	4.589383
#1	.0042529	-.001419	.0128024	.0046870	-.015364	.0424443
#2	.0041806	-.000900	.0081729	.0012260	-.016409	.0437474
#3	.0063078	-.001005	.0080966	.0012660	-.013987	.0464236

Elem	Sr4077
Units	ppm
Avg	.0064613
Stddev	.0005587
%RSD	8.646853
#1	.0067259
#2	.0068386
#3	.0058195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.747	57123.86	13577.78	1748.437	3777.494
Stddev	9.763	196.84	55.66	16.276	8.348
%RSD	.3996813	.3445927	.4099219	.9308846	.2210055
#1	2435.610	56912.30	13517.06	1729.683	3772.203
#2	2453.873	57301.62	13589.91	1758.872	3787.118
#3	2438.758	57157.65	13626.37	1756.756	3773.161

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICSAB01 Acquired: 11/19/2024 11:51:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1163889	.0914525	.0577930	.0314931	.6255685	264.6928
Stddev	.0020865	.0023753	.0021306	.0029290	.0018880	1.2520
%RSD	1.792655	2.597351	3.686550	9.300357	.3017985	.4729983
#1	.1145420	.0939024	.0585736	.0347966	.6234240	265.7087
#2	.1186521	.0912956	.0553822	.0292139	.6263012	263.2941
#3	.1159726	.0891595	.0594231	.0304687	.6269803	265.0755

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5254769	.5239004	.8320350	249.8802	.5712850	.5180354
Stddev	.0025953	.0029041	.0017812	.9439	.0033539	.0007839
%RSD	.4938896	.5543125	.2140824	.3777587	.5870858	.1513188
#1	.5272319	.5272098	.8318972	249.9719	.5745034	.5182792
#2	.5224957	.5217774	.8303267	248.8937	.5715412	.5171585
#3	.5267031	.5227140	.8338811	250.7749	.5678102	.5186684

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4932111	99.68449	.5091143	272.9892	1.019629	.2012973
Stddev	.0011684	.45211	.0019212	.8366	.001531	.0010293
%RSD	.2368926	.4535431	.3773697	.3064749	.1501153	.5113533
#1	.4918928	99.33044	.5090072	273.0030	1.019793	.2016077
#2	.4941185	99.52926	.5072489	272.1457	1.018023	.2021357
#3	.4936219	100.1938	.5110869	273.8189	1.021071	.2001484

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0628422	.5086577	1.094847	.0621151	.9640083	.9937529
Stddev	.0113936	.0024732	.002728	.0213359	.0056276	.0014288
%RSD	18.13047	.4862202	.2491933	34.34890	.5837660	.1437815
#1	.0527097	.5089883	1.097989	.0533658	.9691568	.9921534
#2	.0606410	.5060359	1.093471	.0465447	.9580006	.9942022
#3	.0751757	.5109490	1.093080	.0864348	.9648675	.9949030

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: ICSAB01 Acquired: 11/19/2024 11:51:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9757014	.9588376	F .7965718	F .0059584	F -.019278	F .0455822
Stddev	.0029244	.0042194	.0062348	.0039961	.001168	.0002194
%RSD	.2997240	.4400569	.7827049	67.06652	6.060938	.4812474
#1	.9756903	.9617451	.7895587	.0093404	-.017946	.0457982
#2	.9727825	.9539980	.8014874	.0015489	-.019763	.0455889
#3	.9786313	.9607695	.7986693	.0069858	-.020126	.0453596

Elem	Sr4077
Units	ppm
Avg	F .0064145
Stddev	.0006618
%RSD	10.31725
#1	.0071610
#2	.0061829
#3	.0058997

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2380.748	55695.04	13619.81	1669.240	3704.667
Stddev	3.711	70.95	49.99	5.923	7.221
%RSD	.1558606	.1273815	.3670335	.3548491	.1949292
#1	2384.985	55743.88	13564.49	1667.899	3709.319
#2	2378.081	55613.66	13661.73	1664.103	3708.334
#3	2379.177	55727.57	13633.23	1675.719	3696.348

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV01 Acquired: 11/19/2024 12:43:53 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.967466	5.027947	4.991072	4.953321	4.981408	9.941916	10.02124
Stddev	.018001	.074493	.007063	.020348	.006215	.024102	.04725
%RSD	.3623781	1.481586	.1415207	.4107889	.1247629	.2424291	.4714631
#1	4.947084	4.977741	4.982952	4.933911	4.975810	9.963727	10.01244
#2	4.974125	4.992561	4.994472	4.951561	4.980320	9.945980	9.97902
#3	4.981189	5.113537	4.995792	4.974492	4.988096	9.916040	10.07228

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494287	2.489449	24.83595	.9964459	2.489726	1.261959	4.884239
Stddev	.0003120	.003910	.10384	.0014720	.004374	.001404	.015003
%RSD	.1250874	.1570759	.4180929	.1477219	.1756875	.1112222	.3071663
#1	.2490711	2.485200	24.82318	.9958299	2.484946	1.260642	4.866929
#2	.2496457	2.490253	24.94558	.9953820	2.490705	1.263435	4.893498
#3	.2495693	2.492896	24.73908	.9981258	2.493528	1.261798	4.892289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.489376	24.77979	2.495488	1.231028	24.22011	2.496372	2.491179
Stddev	.007691	.12819	.005843	.000590	.17771	.007151	.004081
%RSD	.3089720	.5173209	.2341540	.0479425	.7337251	.2864499	.1638222
#1	2.488683	24.66760	2.488744	1.230363	24.42229	2.493349	2.486582
#2	2.497390	24.91951	2.499049	1.231488	24.14939	2.504538	2.494373
#3	2.482054	24.75227	2.498670	1.231235	24.08864	2.491229	2.492583

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.18715	4.975498	5.037880	4.997781	4.936565	4.770784	5.057191
Stddev	.06620	.005491	.013103	.009000	.014341	.021900	.033461
%RSD	.2737104	.1103696	.2600842	.1800840	.2905142	.4590521	.6616507
#1	24.26321	4.975290	5.024917	4.988716	4.948426	4.746074	5.020913
#2	24.15576	4.981090	5.037605	4.997913	4.940643	4.778480	5.063817
#3	24.14248	4.970113	5.051119	5.006715	4.920627	4.787797	5.086843

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV01 Acquired: 11/19/2024 12:43:53 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.834463	4.963369	5.073410
Stddev	.026133	.030982	.028375
%RSD	.5405636	.6242104	.5592919
#1	4.809391	4.997323	5.043897
#2	4.832454	4.956148	5.100491
#3	4.861542	4.936634	5.075841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.944	60575.27	14026.30	1844.580	4199.185
Stddev	1.294	83.13	27.89	8.478	5.317
%RSD	.0499958	.1372390	.1988755	.4595955	.1266081
#1	2588.754	60481.48	14013.60	1840.480	4203.570
#2	2588.626	60604.43	14007.02	1838.932	4200.714
#3	2586.452	60639.89	14058.29	1854.329	4193.272

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB01 Acquired: 11/19/2024 12:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000701	-.002001	-.000197	-.000436	.0001112	-.000165	-.000190
Stddev	.001517	.000175	.000659	.002063	.0008774	.000691	.000329
%RSD	216.3363	8.724688	334.4549	473.3538	788.6862	419.1113	173.0608
#1	-.002090	-.001884	-.000661	.001607	.0009434	-.000140	-.000544
#2	-.000930	-.001918	.000557	-.000397	-.000805	-.000868	.000107
#3	.000917	-.002202	-.000487	-.002517	.000196	.000513	-.000133

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	-.000046	-.017327	.0002437	-.000114	.0000133	-.002943
Stddev	.000038	.000048	.001921	.0002337	.000111	.0002554	.002149
%RSD	340.1066	104.4957	11.08857	95.92433	97.41218	1920.814	73.02307
#1	-.000024	-.000081	-.019315	.0003801	-.000011	.0000300	-.002682
#2	.000031	.000009	-.015481	.0003771	-.000099	-.000250	-.000936
#3	-.000041	-.000065	-.017185	-.000026	-.000232	.000260	-.005210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000314	-.001910	-.000119	-.000162	-.019331	.0000773	-.001163
Stddev	.0002553	.010844	.000028	.000080	.009930	.0005568	.000454
%RSD	813.7743	567.8903	23.44362	49.22999	51.36971	720.1974	39.05052
#1	-.000252	-.011409	-.000143	-.000138	-.020223	-.000258	-.001675
#2	.000101	.009905	-.000126	-.000251	-.028784	-.000230	-.000807
#3	.000245	-.004226	-.000088	-.000097	-.008984	.000720	-.001009

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015207	.0066378	.0001548	.0093243	.0002518	.0050105	-.000259
Stddev	.021239	.0005341	.0000227	.0003300	.0003025	.0025826	.001209
%RSD	139.6690	8.045867	14.65668	3.538819	120.1360	51.54247	466.5387
#1	-.039099	.0072439	.0001807	.0092125	.0003709	.0066371	-.001573
#2	.001531	.0062360	.0001450	.0090648	.0004767	.0020327	-.000008
#3	-.008051	.0064335	.0001387	.0096957	-.000092	.0063619	.000804

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB01 Acquired: 11/19/2024 12:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004997	-.000609	-.000005
Stddev	.003320	.001301	.000047
%RSD	66.44273	213.6911	861.6379
#1	-.002039	-.001664	.000043
#2	-.008589	.000845	-.000008
#3	-.004364	-.001007	-.000051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2760.892	65212.01	14292.64	1969.661	4843.576
Stddev	4.271	84.19	18.29	6.734	4.522
%RSD	.1547026	.1290988	.1279625	.3419019	.0933521
#1	2759.882	65235.08	14272.20	1976.719	4846.000
#2	2757.216	65282.26	14298.27	1968.959	4838.359
#3	2765.577	65118.69	14307.45	1963.305	4846.369

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165067BL Acquired: 11/19/2024 12:52:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000406	-.001723	-.000203	.0005873	.0010648	.0008854	-.001138
Stddev	.002050	.000917	.000314	.0008963	.0013530	.0072914	.000316
%RSD	504.6682	53.21284	154.5471	152.6162	127.0612	823.4892	27.79265
#1	-.002172	-.002761	-.000554	.0002962	.0001055	.0059533	-.001127
#2	.001842	-.001022	-.000106	-.000127	.0004766	-.007471	-.001460
#3	-.000888	-.001387	.000050	.001593	.0026123	.004174	-.000828

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000013	-.000005	-.016680	.0002159	-.000035	-.000006	-.003206
Stddev	.000037	.000086	.004652	.0002471	.000154	.000438	.002827
%RSD	275.7693	1903.751	27.88645	114.4319	443.2411	6741.942	88.17512
#1	-.000040	-.000100	-.016707	.0001464	.000142	-.000503	-.005543
#2	.000029	.000066	-.012016	.0000110	-.000112	.000327	-.000064
#3	-.000029	.000020	-.021318	.0004903	-.000135	.000156	-.004012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001387	-.005476	-.000262	.0000828	-.015964	-.000777	-.001132
Stddev	.0002082	.008931	.000093	.0000736	.013022	.001134	.000066
%RSD	150.0936	163.0797	35.64743	88.89531	81.57157	146.0061	5.843111
#1	-.000094	-.015291	-.000158	.0001617	-.023038	-.000724	-.001168
#2	.000204	.002172	-.000338	.0000708	-.023917	-.001936	-.001172
#3	.000307	-.003310	-.000291	.0000159	-.000936	.000330	-.001055

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004659	.0015154	-.000028	.0097194	.0001999	.0028960	-.000010
Stddev	.021551	.0006203	.000234	.0007310	.0001803	.0077380	.002406
%RSD	462.5931	40.93138	823.4813	7.521419	90.19796	267.1947	25146.13
#1	-.027821	.0008322	-.000126	.0104131	.0003737	-.005245	.001791
#2	-.000956	.0016707	.000239	.0089561	.0000137	.010155	.000922
#3	.014801	.0020433	-.000197	.0097889	.0002124	.003778	-.002742

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165067BL Acquired: 11/19/2024 12:52:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004539	-.000335	-.000071
Stddev	.001169	.001345	.000017
%RSD	25.74314	401.3077	23.67724
#1	-.003949	.001216	-.000059
#2	-.003784	-.001052	-.000091
#3	-.005885	-.001169	-.000064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.970	64447.38	14246.30	1915.900	4855.586
Stddev	5.515	320.36	79.39	9.005	7.575
%RSD	.2009225	.4970894	.5572673	.4699997	.1560009
#1	2740.258	64180.72	14155.95	1911.253	4848.534
#2	2751.036	64358.67	14278.03	1910.169	4863.593
#3	2743.617	64802.74	14304.92	1926.279	4854.633

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165067BS Acquired: 11/19/2024 12:56:48 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7749236	2.007431	.9686478	1.946470	.7792225	2.000114
Stddev	.0015342	.056795	.0016786	.007229	.0009050	.005514
%RSD	.1979864	2.829223	.1732899	.3713842	.1161442	.2756741
#1	.7756049	1.965480	.9672742	1.941266	.7794064	2.001175
#2	.7731667	1.984751	.9681503	1.943421	.7782396	2.005020
#3	.7759993	2.072061	.9705189	1.954724	.7800214	1.994146

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005521	.2013284	.1931487	1.009107	.4036902	.1959168
Stddev	.0009436	.0003863	.0003916	.009134	.0017760	.0003794
%RSD	.4704828	.1919006	.2027607	.9051241	.4399404	.1936778
#1	.1994656	.2017626	.1935591	.998566	.4035952	.1959395
#2	.2010256	.2012001	.1927790	1.014098	.4055118	.1955265
#3	.2011652	.2010226	.1931081	1.014659	.4019636	.1962844

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3085877	2.896331	.2051140	1.957970	.4914102	.0729236
Stddev	.0004178	.030804	.0012855	.014963	.0001301	.0003778
%RSD	.1353885	1.063558	.6267213	.7641861	.0264819	.5180311
#1	.3082667	2.861098	.2037414	1.957025	.4915072	.0731202
#2	.3090601	2.918178	.2053110	1.973383	.4912623	.0731625
#3	.3084363	2.909716	.2062897	1.943502	.4914611	.0724881

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.709479	.3031312	.2037601	9.428127	.2990397	.4158525
Stddev	.018416	.0021583	.0004964	.039098	.0011394	.0009930
%RSD	.6796772	.7119855	.2436450	.4146916	.3810094	.2387904
#1	2.692345	.3030771	.2037857	9.384255	.2999910	.4147499
#2	2.728953	.3010005	.2042433	9.440836	.2977770	.4161311
#3	2.707138	.3053160	.2032514	9.459288	.2993512	.4166765

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165067BS Acquired: 11/19/2024 12:56:48 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6846096	.2003989	F .7031503	5.525063	F -.012674	.1903979
Stddev	.0014174	.0002804	.0105505	.031933	.004304	.0010263
%RSD	.2070365	.1399225	1.500461	.5779676	33.96350	.5390041
#1	.6837318	.2004619	.6909934	5.511141	-.010838	.1901258
#2	.6838522	.2006424	.7099151	5.502455	-.017592	.1895352
#3	.6862448	.2000924	.7085423	5.561594	-.009592	.1915328

Elem	Sr4077
Units	ppm
Avg	.2077553
Stddev	.0001404
%RSD	.0675781
#1	.2076431
#2	.2077100
#3	.2079127

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2696.422	63152.88	14131.04	1888.722	4640.602
Stddev	4.910	230.02	42.24	12.516	8.183
%RSD	.1820957	.3642318	.2989277	.6626644	.1763358
#1	2691.956	63161.65	14095.56	1893.572	4631.153
#2	2695.631	62918.59	14119.79	1874.507	4645.372
#3	2701.680	63378.39	14177.77	1898.087	4645.282

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164759BL Acquired: 11/19/2024 13:00:49 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007629	-.000622	.0005842	-.000055	.0004679	.0016467	-.000601
Stddev	.0019176	.001123	.0006167	.001296	.0007454	.0027480	.000413
%RSD	251.3624	180.5266	105.5624	2360.287	159.3079	166.8768	68.67308
#1	.0027958	-.000439	.0008794	-.000398	.0013032	-.001518	-.001044
#2	-.001014	.000398	.0009979	.001378	-.000129	.003433	-.000227
#3	.000506	-.001825	-.000125	-.001145	.000230	.003025	-.000533

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000020	-.000046	-.021760	.0002842	-.000191	-.000132	-.003279
Stddev	.000019	.000013	.004172	.0003523	.000120	.000311	.002676
%RSD	92.59117	27.97422	19.17264	123.9464	62.92005	235.5041	81.61222
#1	-.000025	-.000044	-.026564	.0001932	-.000127	-.000429	-.000623
#2	.000001	-.000060	-.019045	.0006730	-.000116	-.000158	-.005975
#3	-.000035	-.000034	-.019671	-.000014	-.000329	.000191	-.003240

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000442	-.003077	-.000301	-.000174	-.041064	-.001027	-.000852
Stddev	.0000948	.010474	.000287	.000201	.008325	.000830	.000344
%RSD	214.5776	340.3936	95.26546	115.4413	20.27337	80.87548	40.31685
#1	.0000737	.000959	-.000609	-.000080	-.050529	-.001976	-.000969
#2	-.000062	-.014969	-.000252	-.000405	-.037788	-.000436	-.000466
#3	.000121	.004779	-.000042	-.000037	-.034876	-.000668	-.001122

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.038833	.0000562	-.000277	.0086789	-.000037	.0047431	.0001642
Stddev	.006315	.0006150	.000058	.0002831	.000437	.0034544	.0019194
%RSD	16.26292	1093.474	21.07704	3.262202	1183.987	72.82988	1169.013
#1	-.038811	-.000549	-.000322	.0084325	.000406	.0060702	.0004044
#2	-.032528	.000681	-.000211	.0086160	-.000049	.0073370	.0019522
#3	-.045159	.000037	-.000297	.0089882	-.000467	.0008219	-.001864

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164759BL Acquired: 11/19/2024 13:00:49 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004093	-.001701	-.000091
Stddev	.002499	.001360	.000040
%RSD	61.05997	79.96128	43.53474
#1	-.001241	-.002952	-.000048
#2	-.005903	-.001896	-.000099
#3	-.005134	-.000253	-.000126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2782.665	64814.93	14393.41	1942.231	4912.510
Stddev	7.345	92.37	45.83	5.845	8.568
%RSD	.2639412	.1425182	.3184351	.3009629	.1744063
#1	2774.379	64880.72	14350.58	1946.517	4903.252
#2	2785.246	64709.33	14387.89	1944.604	4914.119
#3	2788.371	64854.75	14441.75	1935.572	4920.160

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164759BS Acquired: 11/19/2024 13:05:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7746300	2.063154	.9777479	1.928291	.7752960	2.002536
Stddev	.0042500	.025831	.0034697	.011258	.0052887	.004255
%RSD	.5486444	1.252030	.3548665	.5838145	.6821569	.2124681
#1	.7704409	2.052146	.9744099	1.916794	.7706889	1.999244
#2	.7789384	2.092666	.9774980	1.939293	.7810711	2.001023
#3	.7745109	2.044650	.9813358	1.928785	.7741280	2.007340

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2054196	.2064810	.1956035	1.041532	.4069720	.1984784
Stddev	.0002873	.0002215	.0008889	.008025	.0002727	.0010209
%RSD	.1398598	.1072845	.4544182	.7704844	.0670160	.5143790
#1	.2054256	.2066861	.1947434	1.036969	.4068111	.1976915
#2	.2051293	.2062461	.1955486	1.050797	.4068180	.1981116
#3	.2057038	.2065109	.1965186	1.036828	.4072869	.1996320

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3096682	2.943861	.2109729	2.001774	.4965130	.0735752
Stddev	.0019054	.008705	.0002191	.007337	.0023604	.0003131
%RSD	.6152868	.2957061	.1038481	.3665415	.4753860	.4255030
#1	.3074682	2.937708	.2107492	2.002569	.4943985	.0734818
#2	.3107516	2.953821	.2109825	1.994071	.4960809	.0733195
#3	.3107848	2.940054	.2111871	2.008681	.4990596	.0739244

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.724805	.3080957	.2051480	9.379973	.3048081	.4157893
Stddev	.002453	.0011052	.0003226	.044483	.0004421	.0020609
%RSD	.0900123	.3587041	.1572258	.4742385	.1450323	.4956658
#1	2.722914	.3070000	.2053930	9.430894	.3051686	.4134345
#2	2.727577	.3080771	.2052685	9.348673	.3049407	.4172647
#3	2.723926	.3092101	.2047826	9.360353	.3043149	.4166686

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164759BS Acquired: 11/19/2024 13:05:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7003451	.2029637	F .6978393	5.743271	F -.013535	.1928278
Stddev	.0007463	.0011961	.0054867	.026930	.002959	.0011273
%RSD	.1065645	.5893066	.7862360	.4688969	21.86309	.5845949
#1	.6996790	.2021027	.6939410	5.717668	-.011661	.1915398
#2	.7002046	.2043294	.7041135	5.771356	-.016947	.1933090
#3	.7011517	.2024589	.6954636	5.740787	-.011998	.1936346

Elem	Sr4077
Units	ppm
Avg	.2099426
Stddev	.0001958
%RSD	.0932533
#1	.2101439
#2	.2097528
#3	.2099310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2746.521	63708.06	14042.45	1952.126	4676.921
Stddev	10.992	132.83	26.87	10.694	10.101
%RSD	.4002283	.2084988	.1913578	.5478370	.2159737
#1	2757.646	63650.07	14043.05	1958.576	4688.355
#2	2735.667	63614.09	14015.29	1939.781	4669.209
#3	2746.251	63860.03	14069.02	1958.021	4673.200

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164645BL Acquired: 11/19/2024 13:09:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000026	-.001058	.0000947	-.000261	-.000064	-.000811	-.000815
Stddev	.001517	.000579	.0009400	.001309	.000761	.001646	.000227
%RSD	5816.298	54.73159	992.9731	500.7565	1198.150	202.9168	27.81359
#1	.001593	-.000396	.0011433	.000779	.000724	.000339	-.000619
#2	-.001413	-.001303	-.000187	.000167	-.000794	-.002697	-.000763
#3	-.000258	-.001473	-.000672	-.001731	-.000120	-.000076	-.001063

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	.0000549	-.016955	.0003238	-.000267	.0001831	-.004068
Stddev	.000023	.0000288	.008983	.0002250	.000061	.0001499	.002029
%RSD	258.3706	52.50934	52.97872	69.48058	22.81569	81.84113	49.87029
#1	.000018	.0000216	-.006589	.0003227	-.000283	.0002625	-.004127
#2	-.000021	.0000715	-.022434	.0005494	-.000200	.0002766	-.002011
#3	-.000023	.0000716	-.021844	.0000994	-.000318	.0000103	-.006067

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	-.001794	-.000010	-.000147	-.049402	-.000972	-.000992
Stddev	.000076	.002371	.000110	.000153	.005162	.001323	.000385
%RSD	364.6197	132.1471	1155.638	103.6786	10.44928	136.1537	38.85005
#1	.000052	-.000669	-.000074	-.000135	-.052967	-.001302	-.001197
#2	-.000014	-.004518	.000117	-.000305	-.051757	-.002098	-.001231
#3	-.000100	-.000196	-.000072	-.000001	-.043483	.000485	-.000547

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033312	-.001713	-.000184	.0098859	-.000133	.0021860	-.000600
Stddev	.026696	.000438	.000102	.0003696	.000543	.0011679	.001262
%RSD	80.13994	25.58340	55.63321	3.739050	406.7626	53.42827	210.2990
#1	-.061273	-.001909	-.000085	.0100987	.000054	.0034317	.000803
#2	-.030572	-.001211	-.000177	.0100999	.000291	.0020105	-.000960
#3	-.008092	-.002020	-.000289	.0094590	-.000745	.0011157	-.001644

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164645BL Acquired: 11/19/2024 13:09:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002912	-.000243	-.000080
Stddev	.002872	.001414	.000005
%RSD	98.60376	581.1162	5.757505
#1	-.001524	-.000403	-.000081
#2	-.000999	.001244	-.000084
#3	-.006215	-.001571	-.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2735.335	63824.99	14282.82	1931.691	4816.349
Stddev	6.764	89.26	40.84	6.199	6.343
%RSD	.2472790	.1398458	.2859660	.3209177	.1316985
#1	2727.664	63841.29	14266.51	1937.248	4809.088
#2	2740.440	63728.70	14252.64	1925.005	4820.815
#3	2737.901	63904.97	14329.29	1932.820	4819.142

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164645BS Acquired: 11/19/2024 13:13:31 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7894929	2.039584	.9836746	1.983563	.7940409	2.017874
Stddev	.0031202	.020194	.0003843	.010738	.0008807	.004351
%RSD	.3952159	.9901103	.0390678	.5413695	.1109092	.2156033
#1	.7877895	2.035218	.9839877	1.971504	.7935859	2.012910
#2	.7930941	2.061605	.9837904	1.992093	.7934808	2.021023
#3	.7875952	2.021931	.9832457	1.987091	.7950559	2.019690

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2023914	.2041029	.1969258	1.029326	.4098460	.1996755
Stddev	.0002108	.0002039	.0002270	.004700	.0009952	.0001340
%RSD	.1041396	.0999152	.1152541	.4566063	.2428248	.0671207
#1	.2026345	.2040021	.1970428	1.027636	.4102708	.1998211
#2	.2022591	.2043376	.1970703	1.025704	.4087088	.1996479
#3	.2022807	.2039689	.1966642	1.034637	.4105582	.1995574

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3137423	2.936200	.2063307	2.009071	.5000071	.0738829
Stddev	.0005706	.011060	.0002057	.023814	.0003657	.0000713
%RSD	.1818551	.3766638	.0996925	1.185312	.0731346	.0965064
#1	.3130913	2.928822	.2064358	1.992693	.5004237	.0739267
#2	.3139801	2.930862	.2060937	2.036389	.4997390	.0738006
#3	.3141555	2.948916	.2064626	1.998131	.4998588	.0739213

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.716900	.3069843	.2055785	9.476136	.2990457	.4227749
Stddev	.009093	.0017400	.0013139	.007024	.0012011	.0008750
%RSD	.3346980	.5667938	.6391199	.0741250	.4016340	.2069723
#1	2.722709	.3049996	.2060430	9.474046	.2997545	.4218355
#2	2.706421	.3077065	.2065971	9.483967	.2997237	.4229222
#3	2.721571	.3082469	.2040955	9.470393	.2976589	.4235669

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164645BS Acquired: 11/19/2024 13:13:31 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7023783	.2030111	F .7088268	5.687483	F -.016615	.1882013
Stddev	.0028683	.0010018	.0081586	.017686	.002786	.0009682
%RSD	.4083753	.4934540	1.150994	.3109642	16.76744	.5144671
#1	.7006329	.2018544	.7003198	5.674096	-.019482	.1892734
#2	.7056887	.2035944	.7165854	5.707533	-.013918	.1873905
#3	.7008133	.2035845	.7095751	5.680821	-.016444	.1879399

Elem	Sr4077
Units	ppm
Avg	.2089998
Stddev	.0000974
%RSD	.0466113
#1	.2090847
#2	.2090213
#3	.2088934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.174	62481.01	13994.24	1873.923	4535.824
Stddev	9.265	29.80	18.21	4.540	8.619
%RSD	.3498522	.0476910	.1301517	.2422776	.1900139
#1	2657.610	62503.79	14002.07	1871.253	4544.437
#2	2647.821	62491.96	13973.42	1871.351	4535.836
#3	2639.090	62447.29	14007.23	1879.165	4527.200

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164944TB Acquired: 11/19/2024 13:17:32 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007303	-.008163	.0004690	.0060808	.0001069	.0164430
Stddev	.001125	.000623	.0001978	.0026713	.0017172	.0019530
%RSD	15.40779	7.637358	42.17530	43.92986	1606.904	11.87770
#1	-.006530	-.007904	.0005240	.0052645	-.001619	.0170191
#2	-.008594	-.008875	.0002495	.0090650	.000124	.0142666
#3	-.006785	-.007711	.0006334	.0039130	.001815	.0180431

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001711	-.000155	-.000160	-.008347	.0033281	-.000368
Stddev	.000562	.000044	.000048	.008251	.0003024	.000102
%RSD	32.85804	28.57725	30.21279	98.84408	9.085945	27.84670
#1	-.001062	-.000163	-.000141	-.012102	.0031535	-.000251
#2	-.002037	-.000107	-.000125	-.014053	.0031535	-.000409
#3	-.002034	-.000195	-.000215	.001113	.0036773	-.000444

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010986	.0282348	.0081163	.0000620	.0017971	-.000187
Stddev	.0003272	.0027233	.0000794	.0082210	.0003689	.000104
%RSD	29.78008	9.645240	.9783222	13250.85	20.52794	55.75442
#1	.0011468	.0261072	.0081586	.0095548	.0019300	-.000081
#2	.0007501	.0272932	.0080246	-.004686	.0020811	-.000190
#3	.0013991	.0313039	.0081655	-.004683	.0013801	-.000290

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 316.1480	-.000571	.0045127	-.010499	-.002759	.0002794
Stddev	1.2219	.000284	.0003845	.021187	.000095	.0002411
%RSD	.3864962	49.64242	8.520968	201.8045	3.432517	86.29295
#1	314.8376	-.000832	.0040744	.001748	-.002816	.0001638
#2	317.2561	-.000612	.0047934	.001719	-.002812	.0001178
#3	316.3504	-.000270	.0046702	-.034963	-.002650	.0005565

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164944TB Acquired: 11/19/2024 13:17:32 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002459	.0002426	.0249584	.0032836	F .0235901	.0005814
Stddev	.001067	.0001120	.0038149	.0016756	.0012781	.0006070
%RSD	43.40684	46.15906	15.28518	51.02869	5.418049	104.4029
#1	-.003439	.0002977	.0234764	.0049741	.0222357	.0008497
#2	-.002615	.0001138	.0292920	.0016233	.0237596	-.000114
#3	-.001322	.0003164	.0221069	.0032535	.0247751	.001008

Elem	Sr4077
Units	ppm
Avg	-.000067
Stddev	.000014
%RSD	21.45465
#1	-.000068
#2	-.000052
#3	-.000080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.648	56508.95	14039.95	1674.558	3969.110
Stddev	6.461	53.83	7.10	8.603	6.917
%RSD	.2683628	.0952514	.0505931	.5137550	.1742633
#1	2406.930	56461.10	14036.47	1672.442	3962.883
#2	2401.575	56498.53	14035.27	1667.210	3967.893
#3	2414.438	56567.22	14048.13	1684.022	3976.555

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-01 Acquired: 11/19/2024 13:22:02 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4203700	-.002441	4.424053	-.034526	-.028396	119.3019
Stddev	.0192000	.003980	.202144	.005465	.002325	.4596
%RSD	4.567398	163.0632	4.569195	15.82748	8.188129	.3852348
#1	.4346625	-.005948	4.582193	-.038326	-.028043	119.1408
#2	.4279013	-.003258	4.493663	-.036989	-.026267	118.9446
#3	.3985461	.001884	4.196302	-.028264	-.030877	119.8204

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.684135	.0110510	.0920852	37.52487	F 3.170199	.1084368
Stddev	.006240	.0001558	.0064065	.13403	.035008	.0054208
%RSD	.2324614	1.409564	6.957123	.3571763	1.104299	4.999035
#1	2.680116	.0110881	.0973040	37.41598	3.198004	.1127090
#2	2.680966	.0108801	.0940164	37.48407	3.130885	.1102626
#3	2.691323	.0111849	.0849353	37.67456	3.181709	.1023389

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.323162	267.0839	2.775960	53.62929	.5383815	.0425452
Stddev	.162676	1.5795	.011882	.28269	.0247242	.0002170
%RSD	4.895206	.5914020	.4280270	.5271143	4.592322	.5100597
#1	3.450849	266.8556	2.765472	53.53298	.5583386	.0423757
#2	3.378630	265.6309	2.773544	53.40734	.5460828	.0427898
#3	3.140006	268.7652	2.788864	53.94754	.5107232	.0424701

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	56.72421	.4296791	7.438269	17.79155	.2205266	.0136660
Stddev	.20955	.0020116	.089277	.07369	.0024348	.0005181
%RSD	.3694120	.4681727	1.200245	.4141654	1.104067	3.791523
#1	56.85200	.4293137	7.528883	17.78817	.2199878	.0141628
#2	56.48238	.4278751	7.350391	17.71962	.2184065	.0137064
#3	56.83826	.4318483	7.435534	17.86687	.2231857	.0131288

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-01 Acquired: 11/19/2024 13:22:02 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.322353	3.291274	F 22.69349	F 15.72595	F 158.8866	.1998660
Stddev	.200682	.010336	.12992	.76942	8.1040	.0007954
%RSD	4.642886	.3140549	.5725201	4.892651	5.100473	.3979477
#1	4.487762	3.283653	22.70756	16.34850	165.7512	.1991279
#2	4.380194	3.287130	22.55710	15.96360	160.9617	.1997617
#3	4.099102	3.303039	22.81581	14.86574	149.9468	.2007083

Elem	Sr4077
Units	ppm
Avg	.3219600
Stddev	.0007328
%RSD	.2276056
#1	.3214149
#2	.3227930
#3	.3216720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3020.423	66049.34	15785.87	1978.208	4243.763
Stddev	142.793	541.43	80.14	18.388	210.504
%RSD	4.727586	.8197329	.5076614	.9295135	4.960325
#1	2909.137	65554.93	15706.82	1958.757	4079.322
#2	2970.702	66627.93	15867.06	1995.305	4170.962
#3	3181.429	65965.17	15783.73	1980.563	4481.005

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-02 Acquired: 11/19/2024 13:26:03 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0290287	-.001742	.1112111	-.059913	.0000067	74.52727
Stddev	.0014705	.002105	.0024696	.003032	.0007943	1.23903
%RSD	5.065834	120.8661	2.220682	5.061090	11833.31	1.662517
#1	.0273872	.000688	.1085297	-.059323	-.000775	75.54051
#2	.0302259	-.003008	.1133926	-.057219	-.000017	73.14589
#3	.0294728	-.002905	.1117110	-.063197	.000813	74.89540

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2765170	.0077764	.0233233	111.3220	.1685205	.1117285
Stddev	.0042438	.0001395	.0001512	1.5761	.0028936	.0012920
%RSD	1.534744	1.793700	.6481887	1.415784	1.717049	1.156384
#1	.2802612	.0079065	.0232952	112.5008	.1659451	.1108941
#2	.2719071	.0076291	.0231882	109.5318	.1679647	.1110747
#3	.2773826	.0077937	.0234866	111.9333	.1716516	.1132168

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1784994	248.2950	5.670787	66.73815	.2004916	.0000277
Stddev	.0012827	4.8812	.085410	.89579	.0021253	.0002088
%RSD	.7186253	1.965902	1.506141	1.342247	1.060030	753.6823
#1	.1799200	244.3224	5.738068	67.42709	.1992033	-.000135
#2	.1781525	246.8186	5.574698	65.72550	.1993270	-.000045
#3	.1774258	253.7440	5.699596	67.06185	.2029447	.000263

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.19303	.2301971	.4244102	13.65943	.1449257	.0000702
Stddev	.29992	.0040929	.0098849	.25530	.0061886	.0003317
%RSD	1.852151	1.778019	2.329088	1.869048	4.270217	472.2386
#1	16.00057	.2323548	.4181867	13.45661	.1388220	.0001736
#2	16.03991	.2254768	.4192358	13.57555	.1447594	-.000301
#3	16.53860	.2327598	.4358083	13.94611	.1511959	.000338

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-02 Acquired: 11/19/2024 13:26:03 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017002	2.407378	F 15.82176	8.125296	5.603202	.1473332
Stddev	.0017527	.040980	.33946	.110715	.085560	.0030509
%RSD	103.0909	1.702250	2.145514	1.362601	1.526985	2.070725
#1	.0036976	2.442618	15.54021	8.052927	5.536954	.1498297
#2	.0009837	2.362410	15.72635	8.070212	5.572851	.1439324
#3	.0004192	2.417107	16.19871	8.252749	5.699800	.1482374

Elem	Sr4077
Units	ppm
Avg	-.059014
Stddev	.006031
%RSD	10.21952
#1	-.052224
#2	-.061068
#3	-.063749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2948.391	70401.22	16935.92	2115.860	4074.752
Stddev	15.197	1181.02	251.10	43.462	35.720
%RSD	.5154175	1.677562	1.482657	2.054083	.8766152
#1	2957.956	71394.71	16695.03	2146.342	4098.410
#2	2956.348	70713.52	17196.12	2135.145	4092.184
#3	2930.868	69095.43	16916.62	2066.093	4033.664

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4893-01 Acquired: 11/19/2024 13:30:08 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0717343	-.026984	.1928873	-.065416	-.001112	120.8883
Stddev	.0011519	.005715	.0010328	.002555	.001105	.6213
%RSD	1.605751	21.18038	.5354446	3.906323	99.37381	.5139797
#1	.0730159	-.032712	.1921963	-.068345	-.001242	121.1031
#2	.0707854	-.026959	.1940746	-.063643	.000052	120.1881
#3	.0714016	-.021282	.1923910	-.064259	-.002147	121.3738

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.686916	.0153049	.0305993	197.1953	.2774983	.1831383
Stddev	.009456	.0001719	.0004303	1.3746	.0015789	.0006323
%RSD	.5605213	1.123283	1.406224	.6970627	.5689754	.3452413
#1	1.687299	.0154451	.0309156	196.6992	.2787797	.1829508
#2	1.677274	.0151131	.0307729	196.1377	.2757345	.1838431
#3	1.696174	.0153566	.0301093	198.7491	.2779807	.1826210

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2254046	255.7197	8.674406	82.49489	.3695421	-.000097
Stddev	.0031317	2.2861	.064048	.61341	.0010121	.000375
%RSD	1.389364	.8939964	.7383568	.7435711	.2738884	384.9020
#1	.2254271	255.4918	8.648488	82.25189	.3684742	-.000501
#2	.2285251	253.5561	8.627379	82.04021	.3704872	-.000031
#3	.2222618	258.1113	8.747351	83.19257	.3696649	.000240

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.664942	.3638862	.7184531	29.12041	.1739195	-.000200
Stddev	.034444	.0022251	.0063457	.23547	.0028892	.000188
%RSD	.9398353	.6114688	.8832434	.8086080	1.661210	93.58473
#1	3.667066	.3650180	.7255297	29.13413	.1739398	-.000235
#2	3.629485	.3613228	.7132688	28.87838	.1710202	.000002
#3	3.698275	.3653178	.7165607	29.34872	.1767984	-.000368

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4893-01 Acquired: 11/19/2024 13:30:08 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002459	5.550964	F 21.22768	F 12.44574	1.342437	.3008337
Stddev	.000505	.033481	.18321	.09151	.007693	.0022246
%RSD	20.54723	.6031600	.8630631	.7352387	.5730590	.7394781
#1	-.002694	5.546406	21.24469	12.54970	1.341709	.3018858
#2	-.001879	5.519996	21.03656	12.41012	1.350468	.2982782
#3	-.002804	5.586491	21.40179	12.37741	1.335134	.3023370

Elem	Sr4077
Units	ppm
Avg	.1455901
Stddev	.0002097
%RSD	.1440621
#1	.1458323
#2	.1454663
#3	.1454717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2961.339	70256.62	16935.20	2074.676	3662.578
Stddev	8.113	458.30	59.18	20.287	11.418
%RSD	.2739603	.6523243	.3494606	.9778441	.3117605
#1	2959.008	69829.41	16874.30	2055.912	3656.354
#2	2954.646	70740.71	16992.50	2096.203	3655.625
#3	2970.362	70199.74	16938.81	2071.914	3675.756

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV02 Acquired: 11/19/2024 13:34:13 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.319998	5.225436	5.243816	5.340381	5.358211	10.58663	10.32813
Stddev	.024282	.062370	.002536	.017758	.025023	.00330	.11564
%RSD	.4564382	1.193577	.0483592	.3325233	.4670050	.0311674	1.119663
#1	5.314770	5.277760	5.242482	5.333286	5.339071	10.58376	10.32555
#2	5.298755	5.156418	5.242225	5.327268	5.349036	10.58591	10.21381
#3	5.346469	5.242130	5.246740	5.360590	5.386526	10.59023	10.44504

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2619479	2.610368	26.10526	1.073120	2.621998	1.345665	5.265354
Stddev	.0016753	.003425	.08742	.004656	.002938	.005141	.021009
%RSD	.6395602	.1311906	.3348856	.4339095	.1120704	.3820624	.3989972
#1	.2638820	2.613005	26.09722	1.078339	2.623450	1.341751	5.251604
#2	.2610140	2.606498	26.02213	1.071630	2.618616	1.343758	5.254921
#3	.2609476	2.611602	26.19642	1.069391	2.623927	1.351488	5.289537

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.580073	26.20707	2.624626	1.321262	25.86215	2.635225	2.679411
Stddev	.011394	.10005	.001083	.001902	.02875	.011384	.007400
%RSD	.4416295	.3817532	.0412544	.1439531	.1111697	.4320067	.2761657
#1	2.583410	26.16921	2.623835	1.323369	25.83627	2.633940	2.676863
#2	2.567382	26.13149	2.624185	1.319672	25.85709	2.624538	2.673621
#3	2.589426	26.32052	2.625860	1.320745	25.89310	2.647198	2.687747

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.26057	5.213657	5.407313	5.233811	5.174166	5.276169	5.251545
Stddev	.06494	.022133	.017388	.011225	.007007	.038352	.018568
%RSD	.2472819	.4245272	.3215623	.2144726	.1354243	.7268985	.3535739
#1	26.18559	5.239211	5.400258	5.240179	5.176038	5.248970	5.247286
#2	26.29867	5.201244	5.394561	5.220850	5.166413	5.259500	5.235475
#3	26.29746	5.200517	5.427119	5.240405	5.180046	5.320035	5.271872

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV02 Acquired: 11/19/2024 13:34:13 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.056185	5.091466	5.304638
Stddev	.023524	.018553	.018735
%RSD	.4652521	.3643858	.3531909
#1	5.061265	5.112744	5.300244
#2	5.030536	5.078675	5.325181
#3	5.076754	5.082980	5.288491

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.040	56815.81	13580.28	1704.853	4013.751
Stddev	10.220	152.14	47.87	15.767	9.164
%RSD	.4183330	.2677856	.3524977	.9248397	.2283155
#1	2453.603	56865.19	13535.52	1716.960	4023.740
#2	2442.317	56937.14	13630.75	1710.575	4011.779
#3	2433.201	56645.11	13574.56	1687.023	4005.733

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB02 Acquired: 11/19/2024 13:38:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001478	-.002217	-.000413	.0001802	.0005730	.0035974	-.001448
Stddev	.002021	.001494	.000476	.0015757	.0004203	.0061355	.000194
%RSD	136.7767	67.39749	115.2669	874.2857	73.34959	170.5511	13.37573
#1	-.003770	-.003910	.000114	.0008763	.0001053	-.003424	-.001671
#2	.000047	-.001086	-.000813	.0012880	.0006946	.007927	-.001354
#3	-.000710	-.001654	-.000540	-.001624	.0009191	.006289	-.001320

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000042	-.000010	-.016401	.0001429	-.000098	.0000465	-.003471
Stddev	.000080	.000124	.001244	.0004962	.000260	.0004388	.001902
%RSD	188.7536	1205.088	7.582118	347.1745	264.0357	943.3992	54.79643
#1	-.000103	-.000154	-.015025	-.000419	-.000308	-.000160	-.003396
#2	.000048	.000063	-.017445	.000519	-.000180	.000550	-.005410
#3	-.000072	.000060	-.016733	.000329	.000193	-.000251	-.001608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000933	-.005829	.0000047	-.000017	-.016541	-.000651	-.001128
Stddev	.0000522	.007962	.0002414	.000174	.013359	.001438	.000288
%RSD	55.94891	136.6036	5162.853	1009.871	80.76537	220.7037	25.49138
#1	.0000642	.000372	.0002594	.000179	-.026754	-.002258	-.001460
#2	.0000621	-.003050	-.000025	-.000151	-.021447	-.000210	-.000968
#3	.0001535	-.014808	-.000221	-.000079	-.001422	.000514	-.000956

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234275	.0048220	.0002058	.0103349	.0004763	.0103438	.0005875
Stddev	.0061001	.0008527	.0002574	.0007222	.0002821	.0052984	.0000697
%RSD	26.03826	17.68415	125.0900	6.988234	59.21843	51.22226	11.86166
#1	.0187911	.0057802	.0004410	.0109342	.0003069	.0042311	.0006510
#2	.0303380	.0041465	-.000069	.0095330	.0008019	.0131804	.0005130
#3	.0211533	.0045394	.000246	.0105375	.0003201	.0136201	.0005986

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB02 Acquired: 11/19/2024 13:38:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003459	-.002002	.0000115
Stddev	.001890	.000099	.0000388
%RSD	54.63146	4.941265	336.6283
#1	-.001519	-.001943	.0000105
#2	-.003564	-.002116	.0000508
#3	-.005294	-.001946	-.000027

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2607.987	61566.73	13812.97	1838.278	4553.753
Stddev	7.365	185.55	212.96	12.511	7.870
%RSD	.2824111	.3013795	1.541735	.6805582	.1728187
#1	2599.657	61380.26	13675.65	1833.119	4545.105
#2	2613.638	61568.58	14058.29	1829.173	4560.493
#3	2610.665	61751.35	13704.97	1852.543	4555.661

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4893-05 Acquired: 11/19/2024 13:42:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0715970	-.004241	.0993799	-.044786	-.000450	71.47654
Stddev	.0013478	.001067	.0017271	.001799	.001864	.31744
%RSD	1.882419	25.17190	1.737859	4.017248	414.0149	.4441117
#1	.0722997	-.003320	.1000287	-.042785	-.002469	71.59537
#2	.0724481	-.003991	.1006886	-.046270	-.000089	71.71742
#3	.0700431	-.005411	.0974223	-.045304	.001207	71.11684

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.261072	.0069533	.0136374	22.95251	.1627586	.0958256
Stddev	.011602	.0000881	.0003133	.04066	.0005229	.0006972
%RSD	.9200125	1.266690	2.297600	.1771501	.3212752	.7276000
#1	1.265549	.0070542	.0133820	22.95093	.1633598	.0960137
#2	1.269769	.0068920	.0139870	22.91267	.1624096	.0964094
#3	1.247899	.0069137	.0135431	22.99394	.1625065	.0950536

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1789909	202.9300	10.39387	26.03518	.1703019	.0007476
Stddev	.0021665	.6831	.01914	.05100	.0006151	.0002474
%RSD	1.210395	.3366120	.1841353	.1958992	.3612140	33.08905
#1	.1778973	203.0743	10.40127	25.99555	.1709625	.0005812
#2	.1814862	202.1863	10.40821	26.01727	.1697455	.0006298
#3	.1775892	203.5294	10.37214	26.09272	.1701976	.0010319

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.222587	.3008697	.5020685	9.180150	.1118877	.0032435
Stddev	.032080	.0013226	.0012976	.069046	.0016244	.0000220
%RSD	.9954621	.4396007	.2584589	.7521206	1.451776	.6774606
#1	3.249642	.2993691	.5023524	9.218313	.1128846	.0032646
#2	3.230970	.3018658	.5006524	9.221690	.1100133	.0032208
#3	3.187148	.3013742	.5032007	9.100446	.1127652	.0032452

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4893-05 Acquired: 11/19/2024 13:42:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015855	1.509192	F 22.49875	6.107440	1.338698	.1353633
Stddev	.0002767	.004791	.09213	.020651	.008247	.0014464
%RSD	17.45186	.3174492	.4095086	.3381225	.6160317	1.068541
#1	.0017705	1.510118	22.50663	6.087031	1.342312	.1354150
#2	.0017185	1.513452	22.40292	6.128324	1.344521	.1367832
#3	.0012674	1.504006	22.58668	6.106966	1.329261	.1338918

Elem	Sr4077
Units	ppm
Avg	-.105494
Stddev	.001438
%RSD	1.363417
#1	-.105430
#2	-.104089
#3	-.106964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2820.014	65634.58	15638.24	1989.725	4074.307
Stddev	11.416	237.72	72.26	2.790	14.525
%RSD	.4048129	.3621843	.4620785	.1402125	.3564985
#1	2827.074	65363.44	15584.85	1986.746	4078.315
#2	2806.843	65733.14	15609.41	1990.154	4058.200
#3	2826.124	65807.17	15720.47	1992.276	4086.408

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4908-01 Acquired: 11/19/2024 13:46:52 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0930796	-.037957	.4177236	-.072392	.0010080	190.5701
Stddev	.0030918	.004371	.0015531	.002495	.0012752	1.1194
%RSD	3.321711	11.51687	.3718033	3.446987	126.5048	.5874163
#1	.0938096	-.040746	.4195140	-.074622	.0016300	189.9029
#2	.0957411	-.040207	.4167387	-.069697	.0018529	189.9449
#3	.0896881	-.032919	.4169182	-.072856	-.000459	191.8625

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8876659	.0101812	.0397207	145.1886	.2479901	.2353601
Stddev	.0052891	.0000931	.0004159	1.1588	.0011347	.0009440
%RSD	.5958462	.9143391	1.047151	.7981308	.4575425	.4010768
#1	.8842977	.0100980	.0397033	144.0349	.2486907	.2361301
#2	.8849379	.0101638	.0393138	145.1785	.2466810	.2356433
#3	.8937620	.0102818	.0401451	146.3524	.2485987	.2343070

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9358938	296.3149	6.209156	121.8649	.4307192	.0011821
Stddev	.0020576	1.4465	.051023	1.0408	.0010060	.0004158
%RSD	.2198515	.4881606	.8217317	.8540869	.2335584	35.17400
#1	.9377185	296.3201	6.159856	120.7935	.4313177	.0010361
#2	.9336637	297.7588	6.205868	121.9290	.4312820	.0016511
#3	.9362992	294.8659	6.261743	122.8722	.4295577	.0008590

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.895983	.4648814	.8020774	12.76572	3.241410	.0014227
Stddev	.013032	.0053280	.0025975	.03187	.017794	.0000287
%RSD	.1316855	1.146101	.3238422	.2496787	.5489652	2.019316
#1	9.902857	.4609189	.8031412	12.79522	3.232754	.0014439
#2	9.880954	.4627869	.7991169	12.73191	3.229601	.0013900
#3	9.904139	.4709384	.8039741	12.77002	3.261877	.0014343

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4908-01 Acquired: 11/19/2024 13:46:52 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035173	7.579045	F 20.87600	F 12.35651	1.240401	.2640487
Stddev	.0013259	.050767	.04813	.09281	.007769	.0029221
%RSD	37.69664	.6698379	.2305714	.7511041	.6262938	1.106667
#1	.0020040	7.536448	20.84491	12.44958	1.247265	.2657111
#2	.0044752	7.565466	20.85165	12.35597	1.241971	.2606746
#3	.0040728	7.635221	20.93145	12.26396	1.231967	.2657603

Elem	Sr4077
Units	ppm
Avg	.0951361
Stddev	.0037039
%RSD	3.893290
#1	.0935859
#2	.0924592
#3	.0993633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2984.945	71865.92	17532.55	2136.485	3605.323
Stddev	2.928	85.76	89.52	13.512	2.909
%RSD	.0981025	.1193391	.5105830	.6324561	.0806815
#1	2983.609	71792.58	17614.29	2146.176	3602.560
#2	2988.303	71844.96	17546.46	2121.050	3605.050
#3	2982.923	71960.22	17436.89	2142.230	3608.358

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4908-03 Acquired: 11/19/2024 13:51:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0813384	-.051716	.4876650	-.092007	-.001986	220.1377
Stddev	.0070396	.001614	.0035625	.002300	.002404	1.5814
%RSD	8.654668	3.121760	.7305293	2.500044	121.0320	.7183586
#1	.0761646	-.053515	.4860973	-.089396	-.003649	220.3695
#2	.0893547	-.051239	.4917426	-.093734	.000770	218.4533
#3	.0784957	-.050394	.4851552	-.092892	-.003079	221.5904

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7855215	.0111105	.0496124	159.8580	.3528490	.2893023
Stddev	.0020369	.0000575	.0004987	.4291	.0022869	.0015289
%RSD	.2592999	.5174977	1.005160	.2684377	.6481227	.5284755
#1	.7877955	.0111577	.0499479	159.3652	.3502825	.2877626
#2	.7849046	.0111274	.0490394	160.0600	.3546704	.2893241
#3	.7838645	.0110465	.0498500	160.1489	.3535941	.2908201

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.179965	363.8443	5.926235	168.7711	.5368331	.0015276
Stddev	.004123	5.0251	.005185	.4131	.0024404	.0006244
%RSD	.3494438	1.381114	.0874900	.2447972	.4545962	40.87693
#1	1.179826	358.0993	5.920455	168.3466	.5341467	.0010716
#2	1.175912	366.0111	5.930477	168.7950	.5374391	.0012718
#3	1.184155	367.4225	5.927773	169.1718	.5389134	.0022393

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.49838	.5991534	.8806999	11.20202	5.757011	.0017648
Stddev	.08954	.0007941	.0063743	.05667	.014828	.0002370
%RSD	.5777400	.1325427	.7237786	.5058779	.2575677	13.42627
#1	15.41427	.5985198	.8733421	11.13679	5.770499	.0019498
#2	15.59251	.6000443	.8842088	11.23019	5.759400	.0014977
#3	15.48836	.5988962	.8845487	11.23909	5.741133	.0018468

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4908-03 Acquired: 11/19/2024 13:51:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026154	F 11.70526	F 20.21170	8.998828	2.164566	.2906574
Stddev	.0016414	.01484	.18571	.052770	.010630	.0015149
%RSD	62.75945	.1267786	.9188108	.5864105	.4910727	.5211792
#1	.0043967	11.72212	20.00095	8.947719	2.152399	.2919156
#2	.0011639	11.69947	20.28282	8.995649	2.172049	.2910808
#3	.0022856	11.69419	20.35134	9.053115	2.169251	.2889759

Elem	Sr4077
Units	ppm
Avg	.0255796
Stddev	.0056496
%RSD	22.08624
#1	.0320747
#2	.0228580
#3	.0218059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2837.397	68476.12	16846.78	1991.697	3549.261
Stddev	12.221	326.76	62.16	9.621	12.299
%RSD	.4307048	.4771933	.3689955	.4830313	.3465154
#1	2836.702	68850.69	16779.46	1998.117	3553.395
#2	2849.950	68328.16	16902.02	1996.338	3558.960
#3	2825.538	68249.50	16858.85	1980.636	3535.428

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01 Acquired: 11/19/2024 13:55:30 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1146349	-.006573	.2452211	-.017147	.0026962	35.90399
Stddev	.0023421	.001969	.0038643	.000892	.0011790	.20731
%RSD	2.043137	29.95549	1.575829	5.199155	43.72950	.5773881
#1	.1165039	-.008804	.2496545	-.018110	.0025267	36.10442
#2	.1120075	-.005841	.2434416	-.016982	.0016110	35.69044
#3	.1153933	-.005076	.2425671	-.016350	.0039508	35.91711

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2502177	.0032501	.0054430	39.09091	.1897481	.0183563
Stddev	.0019048	.0000472	.0000762	.15861	.0009446	.0002820
%RSD	.7612472	1.451994	1.400123	.4057353	.4978210	1.536457
#1	.2522605	.0033033	.0055173	39.21323	.1888470	.0186700
#2	.2484904	.0032336	.0054468	38.91171	.1896663	.0181237
#3	.2499023	.0032134	.0053650	39.14781	.1907309	.0182752

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2024164	100.7051	.6826926	10.11062	.0402390	.0010041
Stddev	.0012282	.4301	.0040755	.04525	.0001538	.0003337
%RSD	.6067513	.4271273	.5969782	.4475651	.3822575	33.23747
#1	.2037229	100.7426	.6857633	10.14941	.0403886	.0013245
#2	.2012855	100.2574	.6780689	10.06090	.0402471	.0010292
#3	.2022408	101.1152	.6842457	10.12154	.0400813	.0006585

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8451069	.1631063	.5753885	6.809613	.1022183	.0066961
Stddev	.0075459	.0008034	.0022708	.026835	.0008396	.0001734
%RSD	.8928936	.4925610	.3946545	.3940777	.8213934	2.588799
#1	.8436078	.1638856	.5757663	6.831440	.1031863	.0065180
#2	.8384231	.1631526	.5774467	6.779652	.1017814	.0067061
#3	.8532899	.1622808	.5729525	6.817747	.1016873	.0068643

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01 Acquired: 11/19/2024 13:55:30 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050253	1.289517	F 15.82692	3.068809	2.472215	.0314655
Stddev	.0009023	.007108	.05291	.008878	.018261	.0014853
%RSD	17.95464	.5512411	.3342871	.2893111	.7386511	4.720524
#1	.0052919	1.295390	15.79868	3.078318	2.489175	.0323380
#2	.0057642	1.281615	15.79412	3.060736	2.452885	.0323080
#3	.0040197	1.291546	15.88795	3.067373	2.474584	.0297504

Elem	Sr4077
Units	ppm
Avg	.0875158
Stddev	.0010911
%RSD	1.246697
#1	.0887699
#2	.0867848
#3	.0869926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.097	59585.88	14393.64	1757.128	4207.103
Stddev	19.781	158.55	72.75	7.539	35.796
%RSD	.7690733	.2660897	.5054654	.4290614	.8508570
#1	2549.294	59519.61	14328.15	1752.422	4165.794
#2	2582.350	59766.82	14471.96	1765.823	4226.495
#3	2584.646	59471.21	14380.81	1753.137	4229.019

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01DUP Acquired: 11/19/2024 13:59:40 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1163819	-.005531	.2500538	-.016627	.0036294	35.79646
Stddev	.0026775	.002293	.0021446	.002751	.0004121	.35264
%RSD	2.300636	41.45761	.8576702	16.54722	11.35328	.9851334
#1	.1143319	-.005143	.2480101	-.017401	.0031557	35.58316
#2	.1194112	-.007993	.2522868	-.018908	.0039049	36.20350
#3	.1154025	-.003456	.2498646	-.013571	.0038276	35.60273

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2537241	.0033945	.0058418	38.53665	.1861800	.0184640
Stddev	.0025920	.0000220	.0001031	.39590	.0011689	.0003885
%RSD	1.021568	.6466122	1.765169	1.027346	.6278530	2.103953
#1	.2518488	.0034050	.0059558	38.12335	.1849100	.0180958
#2	.2566818	.0034093	.0057549	38.91249	.1872108	.0188700
#3	.2526418	.0033693	.0058149	38.57412	.1864193	.0184260

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2041169	98.36413	.6833531	10.14980	.0389689	.0009176
Stddev	.0005625	1.07678	.0068801	.14181	.0002922	.0002522
%RSD	.2755867	1.094689	1.006817	1.397195	.7499307	27.48203
#1	.2039135	97.12140	.6779824	9.99311	.0388243	.0006342
#2	.2047528	98.95104	.6911082	10.26935	.0387771	.0011171
#3	.2036843	99.01993	.6809685	10.18695	.0393052	.0010015

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7016712	.1629988	.4777658	6.573825	.0946382	.0064843
Stddev	.0068549	.0026426	.0020159	.032428	.0008908	.0003246
%RSD	.9769369	1.621228	.4219374	.4932867	.9412943	5.005218
#1	.6937839	.1623465	.4754402	6.540944	.0936348	.0068149
#2	.7061912	.1659064	.4790144	6.605780	.0953360	.0064718
#3	.7050385	.1607434	.4788429	6.574751	.0949437	.0061661

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01DUP Acquired: 11/19/2024 13:59:40 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049403	1.305725	F 15.43582	3.127056	2.474043	.0309371
Stddev	.0007537	.016496	.15472	.024872	.012409	.0009319
%RSD	15.25535	1.263397	1.002335	.7953660	.5015795	3.012149
#1	.0041191	1.293544	15.25739	3.099876	2.462229	.0305776
#2	.0056003	1.324499	15.53266	3.132611	2.486972	.0319952
#3	.0051015	1.299133	15.51743	3.148679	2.472928	.0302385

Elem	Sr4077
Units	ppm
Avg	.0903147
Stddev	.0018629
%RSD	2.062657
#1	.0906317
#2	.0919987
#3	.0883136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.701	61510.81	14362.49	1824.222	4195.490
Stddev	14.076	313.51	101.44	11.694	19.125
%RSD	.5454260	.5096865	.7063093	.6410622	.4558582
#1	2583.243	61868.62	14406.96	1836.887	4205.448
#2	2565.527	61284.27	14246.40	1813.833	4173.441
#3	2593.332	61379.54	14434.10	1821.946	4207.583

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01LX5 Acquired: 11/19/2024 14:03:51 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0200835	-.002341	.0539636	-.003060	.0007340	7.494414	.0534546
Stddev	.0027444	.000461	.0010937	.000905	.0003966	.019535	.0002037
%RSD	13.66496	19.69711	2.026751	29.58497	54.03129	.2606586	.3810456
#1	.0204654	-.002306	.0539289	-.003686	.0011637	7.516172	.0534008
#2	.0226169	-.002819	.0550743	-.003472	.0006565	7.488688	.0536798
#3	.0171681	-.001899	.0528877	-.002022	.0003819	7.478383	.0532832

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007248	.0008174	8.267059	.0394419	.0036638	.0456057	20.71635
Stddev	.0000221	.0000350	.018332	.0001556	.0000962	.0002193	.09926
%RSD	3.050922	4.276291	.2217519	.3945469	2.626878	.4808100	.4791394
#1	.0007098	.0008017	8.271518	.0392977	.0037101	.0453529	20.61018
#2	.0007503	.0007930	8.282751	.0394213	.0037282	.0457207	20.80683
#3	.0007145	.0008574	8.246909	.0396068	.0035532	.0457435	20.73204

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1474898	2.185559	.0082465	-.000081	.1122775	.0334671	.0998919
Stddev	.0008683	.009853	.0004427	.000151	.0089034	.0006055	.0007112
%RSD	.5886915	.4508158	5.368574	186.3030	7.929837	1.809148	.7119592
#1	.1473471	2.178821	.0077352	-.000125	.1034034	.0340550	.1004912
#2	.1484205	2.196867	.0085007	.000087	.1122191	.0328454	.0991060
#3	.1467016	2.180988	.0085034	-.000205	.1212100	.0335009	.1000784

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.331520	.0225206	.0012611	.0079376	.2730692	3.136422	.6261600
Stddev	.026145	.0003316	.0001803	.0005433	.0004650	.008196	.0055803
%RSD	1.963534	1.472581	14.30138	6.844922	.1702750	.2613084	.8911953
#1	1.301988	.0227348	.0012307	.0073863	.2734996	3.143406	.6242752
#2	1.351712	.0221386	.0014547	.0079540	.2731319	3.127399	.6324386
#3	1.340860	.0226884	.0010979	.0084725	.2725760	3.138460	.6217661

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01LX5 Acquired: 11/19/2024 14:03:51 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4904698	.0054043	.0188725
Stddev	.0050692	.0007996	.0002019
%RSD	1.033533	14.79561	1.069829
#1	.4847336	.0050453	.0190383
#2	.4943473	.0063205	.0189314
#3	.4923284	.0048471	.0186477

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2697.455	62391.76	14074.33	1908.003	4564.324
Stddev	12.650	158.18	48.49	9.674	18.420
%RSD	.4689659	.2535325	.3445280	.5070059	.4035614
#1	2711.598	62369.61	14033.24	1901.596	4582.640
#2	2687.220	62245.81	14061.95	1903.282	4545.802
#3	2693.546	62559.84	14127.81	1919.130	4564.531

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01MS Acquired: 11/19/2024 14:08:07 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9322719	1.919297	1.245361	1.989783	.8128472	38.48675
Stddev	.0046618	.018736	.007724	.010294	.0046230	.15355
%RSD	.5000496	.9761901	.6201837	.5173477	.5687367	.3989599
#1	.9322858	1.897855	1.238492	1.979396	.8079915	38.32545
#2	.9276030	1.927517	1.253722	1.999981	.8133544	38.63114
#3	.9369267	1.932517	1.243869	1.989971	.8171956	38.50365

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4674617	.2085106	.2130946	39.99852	.5993059	.2310309
Stddev	.0019557	.0008029	.0013915	.03022	.0021734	.0013747
%RSD	.4183716	.3850593	.6530080	.0755583	.3626460	.5950235
#1	.4652045	.2087680	.2116593	39.96486	.6018096	.2298033
#2	.4686507	.2091533	.2144378	40.00737	.5982016	.2325162
#3	.4685299	.2076106	.2131867	40.02333	.5979064	.2307731

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5132759	99.41322	.8979225	12.32907	.5660657	.0763429
Stddev	.0023062	.46510	.0037467	.02180	.0032592	.0001421
%RSD	.4493154	.4678483	.4172599	.1767798	.5757575	.1861297
#1	.5107848	99.32426	.8948818	12.33153	.5630928	.0761884
#2	.5153366	98.99903	.8967778	12.30615	.5695505	.0763722
#3	.5137063	99.91638	.9021081	12.34953	.5655539	.0764680

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.612528	.4823697	.6754365	16.42846	.3855520	.4443745
Stddev	.014772	.0027715	.0031082	.08522	.0012607	.0016184
%RSD	.4089045	.5745603	.4601784	.5187227	.3269988	.3641883
#1	3.599974	.4791774	.6754666	16.36764	.3866977	.4427806
#2	3.608804	.4837715	.6785295	16.39188	.3857569	.4443266
#3	3.628805	.4841604	.6723133	16.52586	.3842013	.4460163

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01MS Acquired: 11/19/2024 14:08:07 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7184375	1.544843	F 16.17976	9.280003	2.399331	.2311087
Stddev	.0042999	.004606	.04521	.036687	.016841	.0018710
%RSD	.5985092	.2981769	.2794384	.3953390	.7018908	.8095657
#1	.7147412	1.540350	16.14773	9.240184	2.380278	.2295359
#2	.7231566	1.549555	16.16007	9.287389	2.412227	.2306123
#3	.7174149	1.544625	16.23148	9.312435	2.405488	.2331778

Elem	Sr4077
Units	ppm
Avg	.3123372
Stddev	.0016936
%RSD	.5422224
#1	.3104107
#2	.3135914
#3	.3130094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2544.254	61497.90	13895.73	1812.574	4132.294
Stddev	5.143	52.65	44.41	8.162	7.765
%RSD	.2021318	.0856174	.3195596	.4502760	.1879001
#1	2547.340	61443.47	13897.44	1811.281	4141.135
#2	2547.105	61501.67	13850.49	1805.136	4129.166
#3	2538.317	61548.57	13939.25	1821.305	4126.582

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01MSD Acquired: 11/19/2024 14:12:05 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9404700	1.958522	1.246184	2.012102	.8186759	39.02676
Stddev	.0039185	.006839	.003405	.005565	.0012733	.33691
%RSD	.4166491	.3491752	.2732354	.2765747	.1555361	.8632754
#1	.9435460	1.960178	1.243188	2.008071	.8172069	38.64269
#2	.9418055	1.964381	1.249887	2.018451	.8193560	39.27242
#3	.9360583	1.951007	1.245476	2.009784	.8194648	39.16518

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4668925	.2059519	.2127572	39.81138	.6082724	.2301767
Stddev	.0038125	.0023751	.0003254	.44784	.0026234	.0000873
%RSD	.8165698	1.153254	.1529506	1.124910	.4312838	.0379471
#1	.4625268	.2032140	.2123860	39.29790	.6080442	.2300762
#2	.4685842	.2074592	.2129935	40.01506	.6110025	.2302198
#3	.4695663	.2071826	.2128919	40.12118	.6057706	.2302341

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5137210	102.0310	.8925198	12.29123	.5660121	.0775057
Stddev	.0012051	.5193	.0099503	.13362	.0007813	.0002581
%RSD	.2345754	.5090031	1.114855	1.087112	.1380340	.3329804
#1	.5134117	101.4432	.8814564	12.13750	.5652009	.0772888
#2	.5150506	102.4279	.8953664	12.35664	.5667596	.0777911
#3	.5127008	102.2219	.9007365	12.37954	.5660759	.0774371

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.706574	.4796241	.6848034	17.00070	.3839944	.4455360
Stddev	.016451	.0079113	.0055090	.07615	.0019097	.0012448
%RSD	.4438272	1.649474	.8044615	.4479182	.4973324	.2794036
#1	3.688903	.4705688	.6830596	16.99876	.3821855	.4442919
#2	3.709376	.4831080	.6909732	17.07780	.3838067	.4467816
#3	3.721445	.4851955	.6803773	16.92553	.3859911	.4455343

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01MSD Acquired: 11/19/2024 14:12:05 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7160320	1.575246	F 17.76632	9.320897	2.419853	.2274798
Stddev	.0008156	.010439	.06408	.047359	.011988	.0015532
%RSD	.1139068	.6626597	.3607082	.5080906	.4954061	.6827772
#1	.7151321	1.563206	17.72003	9.266858	2.410772	.2258992
#2	.7167225	1.581746	17.83947	9.355174	2.433441	.2275359
#3	.7162413	1.580787	17.73947	9.340661	2.415345	.2290041

Elem	Sr4077
Units	ppm
Avg	.3088021
Stddev	.0026419
%RSD	.8555397
#1	.3058115
#2	.3097760
#3	.3108188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2511.406	59746.81	13947.45	1757.645	4090.018
Stddev	3.044	342.53	63.82	10.949	7.683
%RSD	.1211984	.5733024	.4575470	.6229139	.1878381
#1	2509.783	59572.90	14020.51	1752.279	4085.595
#2	2509.517	59526.13	13902.63	1750.415	4085.570
#3	2514.917	60141.41	13919.20	1770.241	4098.889

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01A Acquired: 11/19/2024 14:16:03 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9182897	1.969347	1.216541	1.965431	.7984430	40.34166
Stddev	.0038491	.017313	.002138	.005252	.0039232	.56128
%RSD	.4191633	.8791276	.1757746	.2672090	.4913524	1.391321
#1	.9222505	1.986704	1.214075	1.969169	.8015337	40.79014
#2	.9145629	1.952078	1.217673	1.959427	.7997658	39.71222
#3	.9180557	1.969258	1.217877	1.967698	.7940294	40.52263

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4713595	.2022968	.2068624	39.58600	.6032005	.2244563
Stddev	.0073671	.0030129	.0003845	.54661	.0037899	.0004176
%RSD	1.562937	1.489337	.1858747	1.380804	.6283062	.1860635
#1	.4783438	.2044009	.2070878	39.98453	.6054205	.2243276
#2	.4636616	.1988454	.2070810	38.96288	.5988244	.2249231
#3	.4720731	.2036442	.2064184	39.81060	.6053565	.2241182

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4999546	102.6182	.8887695	12.20799	.5517237	.0774631
Stddev	.0011300	.4670	.0121902	.14339	.0005341	.0001853
%RSD	.2260252	.4550561	1.371576	1.174538	.0968147	.2392668
#1	.4996309	103.0213	.8990451	12.30438	.5520190	.0775988
#2	.5012111	102.1065	.8753005	12.04321	.5520449	.0772519
#3	.4990217	102.7267	.8919629	12.27639	.5511070	.0775384

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.747370	.4778079	.6908890	17.29899	.3790242	.4350355
Stddev	.029306	.0072508	.0006304	.11077	.0046338	.0005748
%RSD	.7820297	1.517503	.0912410	.6402985	1.222557	.1321243
#1	3.772040	.4856958	.6909796	17.37198	.3832708	.4350649
#2	3.714976	.4714331	.6902182	17.17154	.3740819	.4355951
#3	3.755095	.4762948	.6914691	17.35347	.3797199	.4344466

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4909-01A Acquired: 11/19/2024 14:16:03 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7017757	1.678609	F 20.48443	9.143172	2.400028	.2294746
Stddev	.0025395	.025854	.17963	.005642	.002829	.0046758
%RSD	.3618673	1.540208	.8768946	.0617023	.1178852	2.037612
#1	.6997320	1.697392	20.47064	9.149488	2.397065	.2345293
#2	.7046187	1.649122	20.31209	9.141392	2.400316	.2253040
#3	.7009763	1.689312	20.67055	9.138635	2.402702	.2285905

Elem	Sr4077
Units	ppm
Avg	.3076693
Stddev	.0056171
%RSD	1.825681
#1	.3127545
#2	.3016400
#3	.3086132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2554.561	59495.83	14024.76	1759.521	4156.570
Stddev	10.854	315.94	187.53	10.984	13.531
%RSD	.4248976	.5310310	1.337149	.6242447	.3255220
#1	2542.395	59165.66	13855.09	1746.904	4141.087
#2	2558.037	59795.30	14226.12	1766.946	4162.502
#3	2563.252	59526.53	13993.08	1764.714	4166.122

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-01 Acquired: 11/19/2024 14:20:01 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008171	-.006405	.1465708	.0067118	.0073403	.4283075
Stddev	.0021182	.001810	.0005410	.0002964	.0006155	.0005170
%RSD	259.2408	28.26187	.3691232	4.415272	8.385610	.1206974
#1	-.001519	-.008415	.1471951	.0068503	.0071078	.4277923
#2	.001359	-.005897	.1462795	.0069135	.0068749	.4283038
#3	.002612	-.004903	.1462380	.0063716	.0080382	.4288262

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1308132	.0000327	.0014033	12.49104	.0113321	.0056108
Stddev	.0003742	.0000607	.0000575	.02397	.0002430	.0001700
%RSD	.2860357	185.4537	4.098821	.1919319	2.144604	3.029043
#1	.1307640	-.000011	.0013502	12.46472	.0111194	.0058052
#2	.1304661	.000102	.0014643	12.49677	.0115970	.0054901
#3	.1312095	.000007	.0013952	12.51163	.0112798	.0055371

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0769225	3.877207	.1704303	3.745689	.0139700	.0001402
Stddev	.0004832	.004607	.0003546	.029970	.0002131	.0002893
%RSD	.6281522	.1188103	.2080519	.8001182	1.525304	206.2422
#1	.0773537	3.881831	.1707488	3.711137	.0137239	-.000110
#2	.0764003	3.872618	.1700482	3.764653	.0140946	.000457
#3	.0770134	3.877173	.1704938	3.761275	.0140914	.000073

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	141.3792	.0119672	1.009460	8.638324	.1215298	.0049171
Stddev	.0707	.0006845	.001184	.017799	.0005877	.0001607
%RSD	.0499929	5.719961	.1172775	.2060442	.4836232	3.267106
#1	141.3061	.0112946	1.008719	8.650102	.1217461	.0049735
#2	141.3842	.0126630	1.010825	8.647021	.1208646	.0050418
#3	141.4472	.0119440	1.008836	8.617849	.1219788	.0047358

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-01 Acquired: 11/19/2024 14:20:01 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003424	.0337547	8.496689	.4373360	F 10.06129	.0062741
Stddev	.0004945	.0000639	.008927	.0038076	.03431	.0021325
%RSD	144.4450	.1894650	.1050682	.8706288	.3409648	33.98891
#1	.0002584	.0337951	8.490628	.4361228	10.04980	.0041408
#2	-.000105	.0337880	8.506941	.4342828	10.03421	.0062757
#3	.000873	.0336809	8.492499	.4416023	10.09987	.0084058

Elem	Sr4077
Units	ppm
Avg	.0363706
Stddev	.0000312
%RSD	.0856860
#1	.0363748
#2	.0363375
#3	.0363994

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.583	58364.64	13495.66	1775.947	4139.687
Stddev	7.705	259.14	58.07	17.354	8.406
%RSD	.3069036	.4440072	.4303028	.9771966	.2030542
#1	2514.753	58085.75	13430.68	1755.985	4144.007
#2	2501.691	58410.17	13542.48	1787.448	4130.000
#3	2515.304	58598.00	13513.82	1784.409	4145.054

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV03 Acquired: 11/19/2024 14:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.107336	5.157656	5.199587	5.078343	5.127489	10.36847	10.25274
Stddev	.013394	.088579	.014795	.028887	.018188	.01444	.01716
%RSD	.2622514	1.717421	.2845373	.5688329	.3547138	.1393110	.1673679
#1	5.092356	5.099990	5.206190	5.045106	5.106609	10.36999	10.23430
#2	5.111494	5.113330	5.182641	5.092532	5.135978	10.38210	10.26824
#3	5.118157	5.259647	5.209931	5.097393	5.139881	10.35333	10.25569

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2658851	2.590679	25.95153	1.044632	2.595744	1.296288	4.989768
Stddev	.0010629	.009172	.15835	.003244	.006127	.001585	.046095
%RSD	.3997694	.3540317	.6101710	.3105657	.2360458	.1222387	.9237891
#1	.2660552	2.597104	25.76907	1.046874	2.599609	1.295896	4.941513
#2	.2647474	2.580175	26.05300	1.040912	2.588679	1.294937	5.033346
#3	.2668527	2.594757	26.03254	1.046109	2.598943	1.298032	4.994446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.586918	25.98775	2.599626	1.280871	24.45560	2.597679	2.587829
Stddev	.018711	.10067	.008439	.001389	.14000	.005512	.007036
%RSD	.7232796	.3873765	.3246263	.1084681	.5724461	.2122026	.2719015
#1	2.565655	25.87363	2.605134	1.281949	24.39762	2.591319	2.594473
#2	2.594230	26.02565	2.589911	1.281360	24.61527	2.601078	2.588557
#3	2.600868	26.06396	2.603835	1.279303	24.35391	2.600640	2.580457

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.59985	5.269188	5.224670	5.216884	5.126195	4.902569	5.392828
Stddev	.12696	.024575	.012273	.024444	.020223	.036021	.033528
%RSD	.5160928	.4663897	.2349013	.4685487	.3944976	.7347420	.6217132
#1	24.52109	5.260520	5.210500	5.223292	5.103784	4.865537	5.410298
#2	24.74631	5.250122	5.231566	5.189875	5.143081	4.937486	5.354173
#3	24.53215	5.296923	5.231943	5.237486	5.131719	4.904683	5.414013

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV03 Acquired: 11/19/2024 14:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.015381	5.109629	5.217816
Stddev	.028746	.026209	.052017
%RSD	.5731494	.5129407	.9969057
#1	5.006524	5.079379	5.180741
#2	4.992106	5.123952	5.195428
#3	5.047513	5.125557	5.277278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.761	59687.94	13510.41	1816.538	4159.947
Stddev	4.540	320.92	54.23	24.552	6.151
%RSD	.1759877	.5376580	.4013577	1.351601	.1478584
#1	2581.755	59437.23	13447.94	1795.225	4154.535
#2	2574.565	59576.98	13537.94	1811.003	4166.636
#3	2582.963	60049.61	13545.34	1843.385	4158.670

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB03 Acquired: 11/19/2024 14:28:34 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.001408	.0002528	.0005745	.0016687	.0020997	.0028219	-.000823
Stddev	.001677	.0006759	.0013526	.0025235	.0005866	.0013507	.000361
%RSD	119.1253	267.3856	235.4521	151.2219	27.93812	47.86409	43.82849
#1	-.003287	.0008019	-.000987	-.000819	.0027649	.0027774	-.001238
#2	-.000062	.0004586	.001397	.001599	.0018776	.0041943	-.000635
#3	-.000874	-.000502	.001313	.004226	.0016565	.0014940	-.000595

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	.0000084	-.017095	.0004110	-.000133	.0001261	.0022400
Stddev	.000028	.0000860	.003933	.0002920	.000149	.0001988	.0049785
%RSD	40.68034	1024.780	23.00925	71.05924	112.2412	157.6960	222.2514
#1	-.000060	-.000062	-.020878	.0004137	.000027	.0002194	-.002009
#2	-.000046	.000104	-.013026	.0001176	-.000268	-.000102	.001012
#3	-.000099	-.000017	-.017381	.0007016	-.000157	.000261	.007718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000852	.0033775	-.000293	-.000202	-.017491	-.000473	-.000566
Stddev	.0003103	.0031270	.000103	.000128	.008257	.000588	.000492
%RSD	364.0257	92.58286	35.02654	63.02688	47.20517	124.1249	86.93430
#1	.0002528	.0002901	-.000408	-.000100	-.026151	-.000220	-.000183
#2	-.000273	.0032998	-.000212	-.000345	-.016615	-.001145	-.001120
#3	.000276	.0065427	-.000259	-.000162	-.009707	-.000055	-.000393

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323376	.0044242	.0001986	.0110362	.0002747	.0107112	-.002436
Stddev	.0199557	.0004612	.0000828	.0004002	.0002165	.0023112	.000793
%RSD	61.71059	10.42545	41.67918	3.626029	78.80007	21.57698	32.55734
#1	.0195912	.0048909	.0002928	.0106993	.0005108	.0114880	-.002918
#2	.0220862	.0044131	.0001650	.0114786	.0002279	.0081117	-.001520
#3	.0553355	.0039686	.0001378	.0109308	.0000855	.0125338	-.002869

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB03 Acquired: 11/19/2024 14:28:34 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.002270	-.000001	.0001502
Stddev	.002846	.001111	.0000453
%RSD	125.3486	78223.40	30.18065
#1	-.003818	.000903	.0001776
#2	.001014	-.001242	.0001751
#3	-.004006	.000334	.0000979

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.315	61300.39	13629.32	1834.720	4638.330
Stddev	7.566	73.65	18.51	5.587	10.405
%RSD	.2857877	.1201384	.1358398	.3045177	.2243226
#1	2638.580	61221.44	13609.31	1830.182	4626.881
#2	2651.755	61367.23	13632.81	1840.960	4640.899
#3	2651.612	61312.51	13645.85	1833.019	4647.209

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-02 Acquired: 11/19/2024 14:37:15 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005595	-.004871	.0016363	-.003291	.0017377	.0068915	.2601715
Stddev	.000710	.002754	.0010237	.002754	.0005005	.0054160	.0003679
%RSD	12.68552	56.54710	62.56570	83.68824	28.80393	78.58867	.1414207
#1	-.005538	-.001944	.0006443	-.004010	.0013619	.0008566	.2601339
#2	-.004915	-.005257	.0015755	-.000249	.0015455	.0113292	.2605569
#3	-.006332	-.007411	.0026891	-.005615	.0023059	.0084888	.2598239

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001436	.0006346	31.48681	.0036185	.0033795	.0180085	28.15312
Stddev	.0000634	.0000388	.06951	.0002712	.0002070	.0002591	.08356
%RSD	44.14416	6.118990	.2207675	7.495236	6.126392	1.438660	.2967954
#1	.0000725	.0006794	31.40679	.0033912	.0031451	.0177650	28.05858
#2	.0001941	.0006099	31.52141	.0039187	.0035376	.0179797	28.18372
#3	.0001643	.0006146	31.53223	.0035457	.0034557	.0182807	28.21706

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4752313	3.123379	.0206749	.0000893	81.57005	.0037233	.0738984
Stddev	.0011427	.016339	.0002472	.0001476	.16901	.0008756	.0006962
%RSD	.2404430	.5231111	1.195774	165.1761	.2072018	23.51677	.9421044
#1	.4739473	3.105938	.0206367	.0001082	81.76106	.0040724	.0746492
#2	.4761365	3.125869	.0209390	-.000067	81.50925	.0043705	.0737716
#3	.4756100	3.138330	.0204490	.000227	81.43986	.0027270	.0732743

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.12439	.0543462	.0012255	-.006694	.0003153	2.504634	.0209234
Stddev	.03848	.0003223	.0001985	.000727	.0003042	.009076	.0015758
%RSD	.3459186	.5930686	16.19915	10.85324	96.45841	.3623602	7.531315
#1	11.15764	.0541137	.0013157	-.005923	.0002992	2.504702	.0227430
#2	11.13330	.0542108	.0013629	-.007366	.0006273	2.513675	.0200000
#3	11.08224	.0547141	.0009979	-.006794	.0000196	2.495524	.0200273

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-02 Acquired: 11/19/2024 14:37:15 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.402254	.0091164	.0889799
Stddev	.006676	.0011873	.0003652
%RSD	.4761124	13.02391	.4103792
#1	1.408782	.0103197	.0894006
#2	1.395439	.0090838	.0887946
#3	1.402542	.0079458	.0887446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.533	58933.52	14148.35	1749.963	4241.772
Stddev	4.722	115.77	27.21	10.136	2.518
%RSD	.1883285	.1964477	.1923134	.5792026	.0593625
#1	2502.178	58814.73	14127.87	1743.048	4239.068
#2	2509.323	58939.81	14137.95	1745.243	4242.197
#3	2511.099	59046.02	14179.22	1761.598	4244.050

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-03 Acquired: 11/19/2024 14:41:33 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000986	-.003993	.5609497	.0033972	.0063665	.1016061
Stddev	.002240	.002329	.0012410	.0008452	.0004573	.0020345
%RSD	227.1863	58.34385	.2212293	24.87934	7.183195	2.002375
#1	.001464	-.001602	.5598804	.0025114	.0066837	.1007267
#2	-.002929	-.004120	.5623105	.0041949	.0065735	.1039324
#3	-.001493	-.006256	.5606582	.0034854	.0058423	.1001593

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1388591	.0000499	.0081346	20.75936	.0067490	.0102720
Stddev	.0013250	.0000466	.0000280	.21204	.0003177	.0001261
%RSD	.9542091	93.49372	.3437504	1.021436	4.707570	1.227354
#1	.1373893	.0000261	.0081287	20.51711	.0068101	.0101650
#2	.1399620	.0001036	.0081650	20.84965	.0064052	.0104110
#3	.1392259	.0000200	.0081100	20.91131	.0070318	.0102401

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0764266	11.12690	.3163839	3.691635	.0234269	-.000142
Stddev	.0005743	.03566	.0040585	.051483	.0001519	.000159
%RSD	.7515000	.3204718	1.282769	1.394593	.6482381	111.6853
#1	.0769829	11.09187	.3116983	3.639112	.0235249	-.000309
#2	.0758357	11.12567	.3186526	3.693781	.0235037	-.000126
#3	.0764612	11.16315	.3188007	3.742011	.0232519	.000008

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.6334	.0066791	5.986835	9.529195	.1420123	.0047287
Stddev	2.2834	.0007529	.032721	.097555	.0008264	.0002557
%RSD	1.589749	11.27200	.5465548	1.023749	.5819338	5.408015
#1	146.2070	.0070797	6.024553	9.640380	.1416745	.0047380
#2	141.8502	.0058107	5.969888	9.489268	.1414083	.0049797
#3	142.8430	.0071470	5.966063	9.457937	.1429541	.0044685

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4890-03 Acquired: 11/19/2024 14:41:33 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002505	.0386999	3.163659	.3950983	F 11.27231	.0062001
Stddev	.001031	.0012481	.008153	.0022037	.01285	.0005775
%RSD	41.16793	3.225052	.2577172	.5577487	.1140026	9.313870
#1	-.002063	.0374353	3.161209	.3931023	11.28560	.0068645
#2	-.003683	.0399308	3.172757	.3974631	11.25994	.0059168
#3	-.001768	.0387335	3.157012	.3947295	11.27141	.0058190

Elem	Sr4077
Units	ppm
Avg	.0637701
Stddev	.0001449
%RSD	.2272436
#1	.0636046
#2	.0638740
#3	.0638318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2521.040	57670.13	13342.95	1777.173	4145.365
Stddev	7.744	445.87	46.79	18.149	6.892
%RSD	.3071796	.7731316	.3506395	1.021247	.1662590
#1	2518.278	57156.96	13392.88	1756.307	4147.002
#2	2515.055	57962.62	13335.84	1785.910	4137.801
#3	2529.786	57890.81	13300.12	1789.301	4151.290

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4849-02 Acquired: 11/19/2024 14:56:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006395	-.009309	.0228671	.0066164	.0003168	.1827698	.1722248
Stddev	.000152	.001082	.0012110	.0003814	.0007756	.0014863	.0006538
%RSD	2.375761	11.62199	5.295969	5.764948	244.7876	.8131943	.3796505
#1	-.006460	-.008801	.0229718	.0068582	.0006172	.1823395	.1717260
#2	-.006504	-.008575	.0216071	.0061767	.0008973	.1815462	.1719834
#3	-.006222	-.010551	.0240224	.0068144	-.000564	.1844238	.1729651

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000090	.0004429	29.40042	.0037474	-.000350	.0241137	.1439400
Stddev	.000017	.0000441	.13050	.0003097	.000186	.0002332	.0043853
%RSD	18.64756	9.944773	.4438563	8.263559	53.06914	.9668757	3.046639
#1	-.000109	.0004830	29.32513	.0038922	-.000136	.0243687	.1429792
#2	-.000079	.0003958	29.32504	.0039581	-.000438	.0240608	.1487260
#3	-.000081	.0004499	29.55111	.0033918	-.000475	.0239115	.1401147

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0837446	2.453110	.0029583	-.000301	335.1756	-.000787	.2978379
Stddev	.0007358	.015466	.0004189	.000162	2.4561	.000720	.0007270
%RSD	.8785939	.6304564	14.16006	53.80511	.7327756	91.48762	.2440979
#1	.0842157	2.461989	.0032513	-.000483	336.0557	-.001186	.2976591
#2	.0828968	2.435252	.0024785	-.000172	332.4007	.000044	.2972170
#3	.0841214	2.462090	.0031451	-.000249	337.0704	-.001219	.2986377

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9864036	.0275046	.0003767	-.004378	.0033165	1.746255	.0486048
Stddev	.0150980	.0002544	.0002760	.000730	.0002419	.017219	.0028562
%RSD	1.530607	.9249623	73.26644	16.67275	7.292621	.9860523	5.876318
#1	.9951582	.0274446	.0002366	-.003938	.0030758	1.741162	.0505149
#2	.9689700	.0272857	.0006947	-.003975	.0035595	1.732158	.0499782
#3	.9950826	.0277837	.0001989	-.005220	.0033141	1.765447	.0453214

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4849-02 Acquired: 11/19/2024 14:56:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.966386	.0073967	.1367785
Stddev	.004528	.0011195	.0007686
%RSD	.2302660	15.13472	.5618952
#1	1.963384	.0076097	.1361161
#2	1.971594	.0083944	.1365983
#3	1.964179	.0061861	.1376211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2354.156	54738.47	13591.41	1636.543	3846.665
Stddev	11.486	259.75	52.55	13.488	16.405
%RSD	.4878891	.4745376	.3866577	.8241714	.4264697
#1	2342.246	54499.50	13565.02	1636.177	3827.796
#2	2355.057	55014.94	13651.93	1650.209	3854.648
#3	2365.164	54700.98	13557.28	1623.241	3857.549

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165019TB Acquired: 11/19/2024 15:00:37 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005172	-.009628	.0005123	.0050124	.0014552	.0100723
Stddev	.002590	.000477	.0009411	.0017095	.0003198	.0013139
%RSD	50.08388	4.955929	183.6897	34.10484	21.97861	13.04415
#1	-.005152	-.009748	.0001484	.0031337	.0018052	.0099207
#2	-.002592	-.010033	-.000192	.0054274	.0013825	.0088409
#3	-.007772	-.009102	.001581	.0064763	.0011780	.0114554

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001541	-.000187	-.000154	.0352680	.0076812	-.000416
Stddev	.000381	.000062	.000060	.0125074	.0001727	.000071
%RSD	24.68827	33.10546	38.89061	35.46376	2.247774	17.05863
#1	-.001898	-.000127	-.000093	.0209229	.0074892	-.000491
#2	-.001141	-.000182	-.000212	.0438892	.0078238	-.000408
#3	-.001586	-.000251	-.000158	.0409918	.0077305	-.000350

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005451	F .1264096	.0029325	-.006608	.0058787	-.000393
Stddev	.0003441	.0030078	.0001892	.012263	.0004742	.000069
%RSD	63.13120	2.379381	6.450700	185.5797	8.066973	17.54003
#1	.0008870	.1281355	.0030242	-.000236	.0054712	-.000336
#2	.0001989	.1229366	.0027150	.001158	.0057658	-.000374
#3	.0005493	.1281568	.0030584	-.020745	.0063992	-.000470

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 361.8891	-.001396	.0037980	-.021588	-.003431	.0005090
Stddev	4.5911	.001816	.0002967	.007245	.000418	.0001475
%RSD	1.268649	130.1258	7.813499	33.56173	12.18537	28.97780
#1	359.2040	-.002788	.0040093	-.029936	-.003905	.0003566
#2	359.2730	-.002058	.0034587	-.017890	-.003277	.0006510
#3	367.1903	.000659	.0039259	-.016939	-.003113	.0005195

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165019TB Acquired: 11/19/2024 15:00:37 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002746	.0001650	.0150195	.0050324	.0134693	.0001827
Stddev	.000675	.0002091	.0056036	.0034318	.0038451	.0007840
%RSD	24.57176	126.6826	37.30925	68.19477	28.54678	429.0324
#1	-.002278	.0002980	.0131160	.0087303	.0091729	.0010024
#2	-.003520	-.000076	.0106155	.0019500	.0165871	.0001056
#3	-.002441	.000273	.0213269	.0044169	.0146480	-.000560

Elem	Sr4077
Units	ppm
Avg	-.000206
Stddev	.000022
%RSD	10.80217
#1	-.000183
#2	-.000227
#3	-.000207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2386.797	55439.51	13493.45	1683.570	3888.438
Stddev	6.640	104.28	18.08	7.489	3.134
%RSD	.2782176	.1880991	.1339712	.4448081	.0805930
#1	2391.284	55432.67	13472.78	1677.449	3891.757
#2	2379.168	55547.05	13506.30	1691.920	3885.530
#3	2389.937	55338.82	13501.27	1681.341	3888.027

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-13 Acquired: 11/19/2024 15:05:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003679	-.011651	.0002403	.0005452	.0006850	.1560826	.3441908
Stddev	.001231	.001394	.0011179	.0027139	.0009157	.0041735	.0007696
%RSD	33.45087	11.96640	465.1651	497.8170	133.6955	2.673878	.2236005
#1	-.003116	-.010104	.0009348	-.002586	.0008048	.1579906	.3450765
#2	-.002831	-.012809	.0008354	.002000	.0015349	.1589611	.3438112
#3	-.005090	-.012041	-.001049	.002222	-.000285	.1512962	.3436848

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000716	.0005072	23.58060	.0042413	.0273289	.0043307	15.79852
Stddev	.000028	.0000585	.03116	.0000586	.0001227	.0002057	.08087
%RSD	3.956833	11.53161	.1321336	1.381499	.4491168	4.751020	.5118964
#1	-.000739	.0004444	23.58713	.0041848	.0274692	.0040932	15.83374
#2	-.000684	.0005171	23.60797	.0043018	.0272414	.0044556	15.70601
#3	-.000725	.0005601	23.54669	.0042374	.0272760	.0044432	15.85581

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.00398	.8947407	.0069416	-.000322	300.1731	-.000007	.0460961
Stddev	.02736	.0067755	.0002307	.000127	1.4970	.000657	.0003805
%RSD	.2279601	.7572596	3.323113	39.40239	.4986966	9539.802	.8255310
#1	12.03462	.8998993	.0066912	-.000378	301.7468	.000595	.0459047
#2	11.98197	.8972554	.0071454	-.000411	298.7670	.000091	.0465344
#3	11.99535	.8870674	.0069883	-.000177	300.0054	-.000708	.0458493

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.264120	.0435594	-.000464	-.004773	.0038587	.9765055	.0136521
Stddev	.015158	.0006023	.000338	.000456	.0002440	.0031814	.0014181
%RSD	1.199093	1.382697	72.89906	9.548493	6.322568	.3257934	10.38740
#1	1.274647	.0431568	-.000295	-.004900	.0036010	.9733340	.0152467
#2	1.246747	.0432695	-.000243	-.005152	.0038889	.9764858	.0131773
#3	1.270967	.0442518	-.000853	-.004268	.0040861	.9796967	.0125323

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-13 Acquired: 11/19/2024 15:05:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2525116	.0038381	.1327591
Stddev	.0035986	.0008580	.0000770
%RSD	1.425122	22.35372	.0579734
#1	.2484181	.0032157	.1328443
#2	.2551767	.0048169	.1327384
#3	.2539400	.0034819	.1326947

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2402.886	55774.69	13583.22	1699.790	3916.203
Stddev	4.531	207.05	67.32	8.155	6.169
%RSD	.1885800	.3712170	.4955866	.4797871	.1575361
#1	2398.537	55680.97	13541.68	1691.220	3911.179
#2	2402.541	56012.02	13547.10	1707.456	3914.340
#3	2407.580	55631.07	13660.89	1700.695	3923.089

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-14 Acquired: 11/19/2024 15:09:32 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003931	-.011721	.0013992	.0048922	.0008078	.0274462	.1919703
Stddev	.001972	.001689	.0010991	.0006808	.0011577	.0025164	.0006459
%RSD	50.17065	14.40720	78.55430	13.91541	143.3198	9.168446	.3364315
#1	-.005763	-.013402	.0001310	.0056461	.0015683	.0245417	.1920716
#2	-.004188	-.010024	.0019892	.0047082	-.000525	.0289698	.1925595
#3	-.001843	-.011739	.0020772	.0043224	.001380	.0288271	.1912798

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002160	.0002643	6.565503	.0010074	-.000347	.0107552	.0271734
Stddev	.0000454	.0000693	.029260	.0001434	.000203	.0003633	.0014954
%RSD	21.02195	26.20322	.4456591	14.23936	58.58339	3.377613	5.502977
#1	.0001802	.0002247	6.533586	.0008852	-.000118	.0111054	.0255219
#2	.0002670	.0002239	6.591058	.0011653	-.000507	.0103801	.0284356
#3	.0002007	.0003442	6.571866	.0009716	-.000417	.0107799	.0275629

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453975	2.171624	.0035427	-.000322	304.7728	-.000418	.0392831
Stddev	.0002575	.015738	.0003486	.000382	1.7185	.000680	.0005661
%RSD	.1770725	.7247110	9.839296	118.6325	.5638547	162.6494	1.440978
#1	.1453199	2.153879	.0039440	-.000752	303.5997	-.001188	.0387935
#2	.1456848	2.183893	.0033143	-.000022	303.9734	-.000168	.0399030
#3	.1451878	2.177100	.0033699	-.000192	306.7454	.000102	.0391529

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.281809	.0094597	.0004262	-.003491	.0001499	.5931004	.0229763
Stddev	.010766	.0003042	.0002025	.001185	.0001622	.0062562	.0016549
%RSD	.8399102	3.215429	47.51948	33.95568	108.1567	1.054839	7.202503
#1	1.290247	.0092203	.0005232	-.004385	.0000343	.5858891	.0211205
#2	1.285496	.0098020	.0005620	-.003941	.0000802	.5970784	.0235097
#3	1.269684	.0093568	.0001934	-.002146	.0003353	.5963336	.0242987

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-14 Acquired: 11/19/2024 15:09:32 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3381669	.0021308	.0333555
Stddev	.0039642	.0019186	.0001177
%RSD	1.172258	90.04448	.3527001
#1	.3416072	.0003593	.0333471
#2	.3338318	.0041687	.0334772
#3	.3390616	.0018642	.0332423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2411.015	56554.71	13566.65	1710.801	3948.081
Stddev	2.266	119.48	22.36	3.825	7.014
%RSD	.0939899	.2112610	.1648194	.2235855	.1776661
#1	2411.604	56687.54	13570.65	1714.637	3950.380
#2	2412.930	56520.56	13542.56	1710.779	3953.658
#3	2408.513	56456.01	13586.75	1706.987	3940.206

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-15 Acquired: 11/19/2024 15:13:59 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005791	-.010046	.0033293	.0064806	.0010808	.0322834	.1541402
Stddev	.000154	.001277	.0004644	.0029942	.0012675	.0024001	.0004057
%RSD	2.661647	12.71424	13.95048	46.20213	117.2770	7.434595	.2631781
#1	-.005786	-.008675	.0035940	.0063902	-.000294	.0343054	.1544970
#2	-.005639	-.011203	.0027930	.0035326	.001334	.0329139	.1542245
#3	-.005947	-.010260	.0036008	.0095189	.002202	.0296310	.1536990

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000054	.0001225	10.55635	.0131743	-.000365	.0140032	.0706541
Stddev	.0000531	.0000271	.02089	.0001110	.000154	.0003644	.0025744
%RSD	989.5227	22.07615	.1978856	.8421830	42.22299	2.602318	3.643610
#1	.0000029	.0001059	10.56016	.0133001	-.000518	.0136431	.0677301
#2	.0000597	.0001537	10.57508	.0130901	-.000209	.0139947	.0716522
#3	-.000046	.0001079	10.53382	.0131329	-.000369	.0143718	.0725799

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0708531	.8061385	.0117486	-.000377	273.9473	.0001546	.0328635
Stddev	.0001164	.0087854	.0000940	.000383	2.1550	.0005089	.0002852
%RSD	.1642083	1.089812	.7998563	101.5892	.7866362	329.1335	.8679318
#1	.0707477	.8158484	.0117960	.000029	273.7506	-.000428	.0328007
#2	.0708336	.7987395	.0118094	-.000427	276.1939	.000511	.0326150
#3	.0709779	.8038275	.0116403	-.000732	271.8975	.000381	.0331750

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.532636	.0086596	.0008329	-.002434	.0003785	.7685383	.0202851
Stddev	.010666	.0004776	.0001450	.000405	.0003058	.0031645	.0004408
%RSD	.6958966	5.514852	17.41299	16.65933	80.80168	.4117548	2.173228
#1	1.528919	.0090295	.0009416	-.002848	.0005075	.7657695	.0205557
#2	1.544662	.0088290	.0008890	-.002416	.0000293	.7678577	.0197765
#3	1.524326	.0081205	.0006682	-.002038	.0005987	.7719877	.0205233

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-15 Acquired: 11/19/2024 15:13:59 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2094544	.0033991	.0569221
Stddev	.0010743	.0001468	.0001244
%RSD	.5128961	4.318030	.2184863
#1	.2097712	.0032681	.0569632
#2	.2082573	.0033714	.0570208
#3	.2103346	.0035577	.0567824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.458	55551.48	13619.09	1663.110	3862.555
Stddev	.488	43.32	58.41	1.382	4.925
%RSD	.0208046	.0779767	.4288856	.0830985	.1274946
#1	2344.519	55530.01	13569.49	1663.157	3856.887
#2	2343.942	55523.09	13604.30	1664.467	3865.003
#3	2344.912	55601.34	13683.47	1661.705	3865.776

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-16 Acquired: 11/19/2024 15:18:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004973	-.013352	.0048955	.0053060	.0020915	.0419995	.3106613
Stddev	.002426	.002187	.0012438	.0009887	.0007538	.0062908	.0011542
%RSD	48.78087	16.37817	25.40705	18.63354	36.04102	14.97826	.3715370
#1	-.007423	-.011027	.0037863	.0041947	.0021821	.0351627	.3111104
#2	-.004923	-.015368	.0062402	.0056352	.0027959	.0432923	.3093501
#3	-.002572	-.013659	.0046600	.0060882	.0012965	.0475434	.3115236

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	.0001026	14.55752	.0014559	-.000609	.0141672	.0301303
Stddev	.000015	.0000767	.06888	.0003436	.000172	.0001250	.0015851
%RSD	37.17582	74.76240	.4731459	23.59943	28.27087	.8820249	5.260860
#1	-.000053	.0000157	14.52250	.0010615	-.000444	.0142612	.0315515
#2	-.000024	.0001608	14.51318	.0016907	-.000788	.0140254	.0284208
#3	-.000042	.0001312	14.63687	.0016155	-.000596	.0142150	.0304185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460242	1.442737	.0020541	-.000450	331.8719	-.001216	.0731392
Stddev	.0006098	.016920	.0003258	.000065	1.9727	.001680	.0008193
%RSD	1.324990	1.172759	15.86125	14.44458	.5944293	138.1583	1.120228
#1	.0456286	1.442198	.0016781	-.000521	332.6779	-.001068	.0737772
#2	.0457174	1.426092	.0022322	-.000434	333.3140	-.002965	.0734253
#3	.0467264	1.459919	.0022522	-.000394	329.6238	.000385	.0722152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.137510	.0305023	.0004910	-.003937	.0003165	1.213837	.0288331
Stddev	.016768	.0008801	.0002581	.000103	.0004395	.005910	.0028511
%RSD	1.474085	2.885209	52.56004	2.607255	138.8766	.4868770	9.888116
#1	1.131799	.0297194	.0007174	-.004030	.0003100	1.211645	.0321172
#2	1.124343	.0303326	.0005457	-.003827	.0007591	1.220530	.0269922
#3	1.156387	.0314548	.0002100	-.003955	-.000120	1.209336	.0273900

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-16 Acquired: 11/19/2024 15:18:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2813139	.0042602	.0971117
Stddev	.0051045	.0011301	.0003248
%RSD	1.814502	26.52730	.3344191
#1	.2872079	.0031252	.0970624
#2	.2783820	.0053854	.0968143
#3	.2783516	.0042702	.0974582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.973	54065.07	13514.20	1623.978	3867.704
Stddev	8.344	243.81	51.01	21.532	17.438
%RSD	.3547586	.4509649	.3774183	1.325856	.4508608
#1	2342.628	53887.99	13477.67	1608.942	3847.684
#2	2358.677	53964.07	13572.47	1614.348	3879.580
#3	2354.615	54343.16	13492.46	1648.643	3875.849

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4887-02 Acquired: 11/19/2024 15:22:54 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003674	-.009990	.0012272	.0026486	.0009465	.0402699	.4315992
Stddev	.000426	.001331	.0010628	.0007490	.0001486	.0037906	.0040440
%RSD	11.60256	13.31903	86.60358	28.27977	15.69541	9.413011	.9369858
#1	-.003304	-.011292	.0022502	.0025346	.0010081	.0441150	.4282101
#2	-.003579	-.010045	.0001287	.0019631	.0007770	.0365363	.4305118
#3	-.004141	-.008632	.0013026	.0034481	.0010543	.0401584	.4360758

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000097	.0001410	10.61977	.0039864	.0042657	.0128976	1.205797
Stddev	.0000413	.0000303	.03450	.0004062	.0001838	.0001693	.007387
%RSD	428.0055	21.51633	.3248513	10.19089	4.308776	1.312993	.6126621
#1	.0000087	.0001249	10.58281	.0040099	.0041746	.0130918	1.206547
#2	-.000031	.0001760	10.62539	.0035690	.0041452	.0128199	1.198064
#3	.000051	.0001221	10.65112	.0043805	.0044772	.0127810	1.212781

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.342820	1.480932	.0071748	-.000265	332.6980	-.000613	.0476706
Stddev	.021190	.002956	.0003555	.000023	3.8296	.000573	.0002453
%RSD	.6338812	.1995708	4.955444	8.842774	1.151069	93.49770	.5146077
#1	3.325654	1.480624	.0072700	-.000291	329.4877	-.000095	.0477988
#2	3.336304	1.478143	.0067814	-.000247	331.6695	-.001229	.0473878
#3	3.366503	1.484030	.0074731	-.000255	336.9368	-.000516	.0478253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6011842	.0172752	.0001243	-.003027	-.000084	.5823234	.0113333
Stddev	.0118545	.0006469	.0001321	.001011	.000044	.0043999	.0031847
%RSD	1.971849	3.744552	106.2904	33.39877	52.10063	.7555754	28.10049
#1	.5912880	.0165663	.0001005	-.004020	-.000039	.5773965	.0080570
#2	.5979423	.0174256	.0002668	-.003063	-.000088	.5837132	.0144177
#3	.6143224	.0178336	.0000057	-.001999	-.000126	.5858606	.0115253

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4887-02 Acquired: 11/19/2024 15:22:54 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2567595	.0032049	.0431925
Stddev	.0019169	.0010951	.0003211
%RSD	.7465736	34.16995	.7433945
#1	.2588919	.0041912	.0428684
#2	.2562074	.0033971	.0431985
#3	.2551792	.0020264	.0435105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2398.849	55637.90	13630.36	1685.642	3899.694
Stddev	11.019	23.85	41.57	2.380	11.587
%RSD	.4593550	.0428683	.3049953	.1411777	.2971152
#1	2386.788	55642.17	13677.44	1687.423	3887.357
#2	2401.366	55612.21	13614.96	1682.939	3901.377
#3	2408.391	55659.34	13598.69	1686.565	3910.346

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4887-06 Acquired: 11/19/2024 15:27:22 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003344	-.011255	.0004805	.0040416	.0016654	-.041274	.4611460
Stddev	.003404	.002124	.0009721	.0008582	.0016335	.009670	.0017974
%RSD	101.7977	18.86869	202.3261	21.23396	98.08267	23.42909	.3897721
#1	.000419	-.009410	.0013890	.0039134	.0031676	-.038428	.4627649
#2	-.006210	-.013576	.0005972	.0049566	-.000073	-.052048	.4592118
#3	-.004240	-.010779	-.000545	.0032547	.001902	-.033346	.4614614

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000309	.0003512	150.6223	.0029867	.0038945	.0035038	.0185171
Stddev	.000016	.0000733	.5350	.0002472	.0002291	.0000680	.0012495
%RSD	5.220553	20.87859	.3552231	8.276273	5.882092	1.939487	6.747797
#1	-.000291	.0003476	150.1029	.0027898	.0037198	.0035647	.0181042
#2	-.000319	.0004262	151.1717	.0032641	.0041538	.0035161	.0175263
#3	-.000318	.0002797	150.5924	.0029063	.0038099	.0034305	.0199208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.130243	1.586542	.0059288	-.000711	342.5239	-.001181	.0309570
Stddev	.000703	.003698	.0001339	.000127	1.3294	.001314	.0003299
%RSD	.0330200	.2330799	2.257646	17.85807	.3881255	111.2945	1.065632
#1	2.130470	1.585861	.0060295	-.000837	342.8658	-.001046	.0310568
#2	2.130805	1.590533	.0059799	-.000583	341.0569	-.002556	.0305888
#3	2.129454	1.583232	.0057769	-.000713	343.6489	.000061	.0312255

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.925347	.0077680	.0012981	-.006723	-.002862	1.275148	.0053343
Stddev	.020657	.0006713	.0002246	.001297	.000226	.003122	.0014773
%RSD	1.072912	8.642022	17.29987	19.29600	7.898085	.2448486	27.69393
#1	1.937045	.0076372	.0010528	-.007359	-.002610	1.275019	.0047984
#2	1.901495	.0071716	.0014935	-.007580	-.002930	1.278333	.0041998
#3	1.937501	.0084950	.0013481	-.005230	-.003046	1.272093	.0070048

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4887-06 Acquired: 11/19/2024 15:27:22 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8597066	.0302866	.3723151
Stddev	.0030597	.0013701	.0012913
%RSD	.3558960	4.523880	.3468406
#1	.8564941	.0287436	.3737063
#2	.8600393	.0307554	.3711548
#3	.8625863	.0313609	.3720842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.177	54345.58	13447.79	1647.544	3758.080
Stddev	3.421	112.38	45.19	9.648	4.696
%RSD	.1464948	.2067863	.3360629	.5855776	.1249705
#1	2336.099	54264.54	13400.21	1638.752	3755.444
#2	2338.043	54473.87	13453.02	1657.865	3763.502
#3	2331.390	54298.32	13490.14	1646.015	3755.293

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV04 Acquired: 11/19/2024 15:31:49 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.264753	5.405114	5.228761	5.281621	5.287223	10.44286	10.48136
Stddev	.014693	.033661	.012951	.017673	.015578	.01926	.04115
%RSD	.2790910	.6227576	.2476796	.3346040	.2946335	.1844342	.3926416
#1	5.249941	5.368226	5.217466	5.274629	5.276540	10.44753	10.49823
#2	5.264992	5.434163	5.225921	5.268513	5.280032	10.42169	10.51139
#3	5.279325	5.412954	5.242896	5.301719	5.305098	10.45934	10.43445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2605319	2.609764	25.80235	1.051745	2.614409	1.330544	5.076687
Stddev	.0000625	.003597	.04318	.001501	.004164	.003691	.013928
%RSD	.0239861	.1378268	.1673417	.1427324	.1592711	.2774200	.2743589
#1	.2604600	2.608059	25.81231	1.051326	2.611550	1.328109	5.071698
#2	.2605619	2.607337	25.83968	1.050497	2.612490	1.328733	5.092422
#3	.2605737	2.613897	25.75506	1.053411	2.619186	1.334791	5.065940

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.571973	25.78576	2.619384	1.290297	25.55838	2.609841	2.620138
Stddev	.010437	.04420	.004291	.003758	.22867	.001354	.011439
%RSD	.4057910	.1714116	.1638226	.2912384	.8946797	.0518768	.4365897
#1	2.580254	25.73473	2.616008	1.289133	25.82238	2.609740	2.606943
#2	2.575414	25.81134	2.617931	1.287260	25.43033	2.611242	2.627246
#3	2.560250	25.81123	2.624213	1.294500	25.42244	2.608540	2.626227

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.53000	5.196138	5.366042	5.255070	5.158445	5.027902	5.367501
Stddev	.05547	.010224	.012592	.009547	.008145	.033408	.016753
%RSD	.2172679	.1967710	.2346671	.1816646	.1579059	.6644472	.3121171
#1	25.59164	5.187947	5.362620	5.244697	5.167802	4.991584	5.348970
#2	25.48411	5.192870	5.355515	5.257026	5.154601	5.034800	5.381574
#3	25.51423	5.207597	5.379992	5.263487	5.152934	5.057322	5.371959

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV04 Acquired: 11/19/2024 15:31:49 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.089016	5.154440	5.280061
Stddev	.015788	.044202	.007764
%RSD	.3102351	.8575588	.1470378
#1	5.071018	5.205115	5.288121
#2	5.100529	5.134377	5.272632
#3	5.095501	5.123827	5.279429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.251	58998.24	13698.96	1759.859	4060.095
Stddev	5.897	96.74	31.36	.078	8.744
%RSD	.2370111	.1639790	.2289558	.0044369	.2153534
#1	2490.451	58900.37	13666.90	1759.833	4067.509
#2	2492.731	59093.82	13700.41	1759.947	4062.324
#3	2481.569	59000.52	13729.58	1759.798	4050.453

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB04 Acquired: 11/19/2024 15:36:00 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.000195	-.000126	.0004155	.0021061	.0014757	.0017618	-.001348
Stddev	.002941	.001176	.0001678	.0016954	.0009029	.0020080	.000515
%RSD	1506.865	934.6063	40.37656	80.50131	61.18445	113.9692	38.19510
#1	-.000783	.001094	.0002461	.0016901	.0006047	-.000503	-.001943
#2	-.002797	-.000219	.0005816	.0039708	.0024074	.002463	-.001068
#3	.002995	-.001253	.0004187	.0006574	.0014149	.003325	-.001035

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000073	-.000010	-.015680	.0000682	-.000024	.0001989	-.001727
Stddev	.000070	.000090	.011311	.0005264	.000068	.0000415	.004096
%RSD	96.56085	913.2443	72.13155	771.7754	285.1280	20.85090	237.1743
#1	.000001	-.000077	-.018813	-.000248	.000020	.0002377	-.002596
#2	-.000139	-.000045	-.025094	.000676	.000011	.0001552	-.005319
#3	-.000080	.000092	-.003134	-.000223	-.000103	.0002038	.002734

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002460	.0029205	-.000251	-.000093	.1556940	-.000527	-.000889
Stddev	.0002187	.0062318	.000167	.000238	.0238825	.000698	.000147
%RSD	88.89598	213.3815	66.43403	255.3407	15.33935	132.5887	16.58231
#1	.0000716	-.002026	-.000386	-.000220	.1326716	.000206	-.000804
#2	.0001751	.000868	-.000065	-.000241	.1540582	-.000601	-.000803
#3	.0004913	.009920	-.000301	.000181	.1803523	-.001185	-.001059

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1313635	.0035674	.0001478	.0101046	-.000009	.0153675	-.001307
Stddev	.0192462	.0008685	.0000812	.0003009	.000220	.0041827	.001519
%RSD	14.65109	24.34674	54.95061	2.977408	2474.438	27.21771	116.1787
#1	.1094886	.0045246	.0001783	.0102731	-.000184	.0105377	-.002535
#2	.1456966	.0033478	.0002094	.0097573	-.000081	.0177794	-.001778
#3	.1389053	.0028297	.0000558	.0102835	.000239	.0177852	.000391

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB04 Acquired: 11/19/2024 15:36:00 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.005876	.0000478	.0001501
Stddev	.002281	.0005433	.0001983
%RSD	38.81291	1136.345	132.1201
#1	-.007766	.0002016	.0000521
#2	-.003343	-.000556	.0000198
#3	-.006520	.000498	.0003783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2623.735	60625.95	13856.41	1810.126	4633.239
Stddev	10.514	175.20	35.61	3.766	10.087
%RSD	.4007277	.2889799	.2570094	.2080365	.2177037
#1	2616.861	60460.10	13816.32	1808.055	4625.386
#2	2618.506	60608.57	13868.50	1807.850	4629.716
#3	2635.838	60809.20	13884.40	1814.472	4644.614

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164986TB Acquired: 11/19/2024 15:40:21 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005749	-.009829	.0003916	.0048619	.0007455	.0040526
Stddev	.001632	.000371	.0009135	.0013850	.0001877	.0027180
%RSD	28.38221	3.773370	233.2732	28.48722	25.17451	67.06721
#1	-.006930	-.009972	.0014311	.0032636	.0006038	.0011423
#2	-.006430	-.010107	.0000272	.0057094	.0006743	.0044905
#3	-.003887	-.009408	-.000283	.0056126	.0009583	.0065250

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002077	-.000204	-.000308	-.022215	F .0135456	-.000326
Stddev	.000828	.000044	.000086	.009342	.0001809	.000100
%RSD	39.88827	21.57252	27.79643	42.05335	1.335532	30.67328
#1	-.002924	-.000168	-.000405	-.018938	.0137193	-.000316
#2	-.002038	-.000191	-.000242	-.032755	.0133583	-.000231
#3	-.001269	-.000253	-.000277	-.014953	.0135593	-.000430

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006742	.0552157	.0014308	-.004319	.0033762	-.000532
Stddev	.0005590	.0039940	.0001178	.006573	.0001174	.000091
%RSD	82.90844	7.233481	8.229223	152.1987	3.475827	17.02865
#1	.0008089	.0531521	.0012975	-.005106	.0032870	-.000615
#2	.0011536	.0598194	.0014745	.002612	.0033324	-.000435
#3	.0000602	.0526756	.0015205	-.010462	.0035091	-.000545

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 332.6627	-.000571	.0006055	.0413471	-.000754	.0008416
Stddev	2.3370	.000061	.0001563	.0082266	.000415	.0001661
%RSD	.7025275	10.64061	25.80933	19.89641	54.99250	19.73853
#1	334.9158	-.000505	.0007748	.0496301	-.000542	.0007511
#2	332.8223	-.000583	.0004667	.0331781	-.000489	.0007403
#3	330.2499	-.000625	.0005751	.0412333	-.001232	.0010333

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB164986TB Acquired: 11/19/2024 15:40:21 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002094	.0003043	.0135092	.0051610	.0091046	.0003690
Stddev	.000213	.0001555	.0046176	.0012744	.0051219	.0018971
%RSD	10.18157	51.10742	34.18091	24.69309	56.25667	514.0856
#1	-.001850	.0002696	.0097190	.0063726	.0113826	-.000998
#2	-.002188	.0004742	.0121567	.0038319	.0126923	-.000430
#3	-.002244	.0001690	.0186521	.0052784	.0032388	.002535

Elem	Sr4077
Units	ppm
Avg	-.000129
Stddev	.000016
%RSD	12.19810
#1	-.000125
#2	-.000146
#3	-.000116

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2386.161	55114.46	13649.52	1673.867	3916.747
Stddev	5.228	180.79	23.99	6.709	4.188
%RSD	.2191054	.3280197	.1757564	.4008015	.1069241
#1	2391.211	55081.34	13622.45	1675.249	3919.594
#2	2386.502	54952.53	13668.15	1666.575	3918.709
#3	2380.771	55309.52	13657.96	1679.778	3911.938

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165049BL Acquired: 11/19/2024 15:44:50 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007135	-.000985	.0006924	.0014328	.0007047	-.000259	-.000606
Stddev	.0021121	.000664	.0005020	.0002251	.0005854	.002148	.000638
%RSD	296.0025	67.39685	72.49370	15.71113	83.05954	828.4776	105.3359
#1	-.001268	-.000315	.0001225	.0015994	.0001094	.002050	-.000627
#2	.000473	-.001642	.0008860	.0015222	.0007252	-.000629	-.001234
#3	.002936	-.000999	.0010687	.0011767	.0012796	-.002198	.000043

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000012	-.000038	.0091294	.0001974	-.000079	-.000322	-.003788
Stddev	.000026	.000023	.0088632	.0002271	.000047	.000142	.002458
%RSD	220.7461	60.65369	97.08373	115.0383	58.73611	44.23417	64.88190
#1	-.000018	-.000033	.0057925	.0001632	-.000078	-.000453	-.004591
#2	-.000035	-.000018	.0024190	-.000011	-.000126	-.000170	-.005745
#3	.000017	-.000063	.0191766	.000440	-.000033	-.000342	-.001030

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003770	-.001713	-.000217	-.000344	.1225175	-.001220	.0006859
Stddev	.0002960	.008143	.000367	.000391	.0203482	.000553	.0003094
%RSD	78.51508	475.5023	168.9739	113.9156	16.60838	45.34631	45.11321
#1	.0006474	.005232	.000067	-.000106	.0996931	-.001734	.0009954
#2	.0000607	.000306	-.000087	-.000795	.1290992	-.001290	.0003765
#3	.0004229	-.010675	-.000631	-.000129	.1387602	-.000635	.0006858

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1051456	-.000335	-.000307	-.003949	-.000133	.0070568	-.000149
Stddev	.0319167	.000448	.000250	.000162	.000126	.0030599	.001631
%RSD	30.35481	133.6668	81.50257	4.096212	95.24553	43.36150	1091.542
#1	.0732581	-.000094	-.000168	-.004110	-.000275	.0092149	.001505
#2	.1050870	-.000852	-.000595	-.003787	-.000034	.0035549	-.000197
#3	.1370915	-.000060	-.000157	-.003950	-.000088	.0084005	-.001756

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165049BL Acquired: 11/19/2024 15:44:50 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001949	-.000226	-.000066
Stddev	.002043	.001482	.000022
%RSD	104.7918	655.6388	33.75131
#1	-.004302	-.001717	-.000085
#2	-.000915	.001246	-.000071
#3	-.000630	-.000206	-.000042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2691.485	62635.89	13947.99	1904.663	4696.909
Stddev	8.352	125.58	39.60	9.170	10.356
%RSD	.3103038	.2004876	.2838789	.4814507	.2204811
#1	2684.077	62496.76	13909.48	1896.973	4687.554
#2	2689.841	62670.08	13945.89	1914.811	4695.138
#3	2700.536	62740.83	13988.59	1902.204	4708.037

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165049BS Acquired: 11/19/2024 15:49:11 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8023184	1.979555	1.024735	2.014651	.8050831	2.089549
Stddev	.0069752	.019770	.005633	.008816	.0007714	.006077
%RSD	.8693873	.9987073	.5497177	.4376105	.0958106	.2908391
#1	.8063255	1.965035	1.022912	2.014926	.8058070	2.095630
#2	.7942641	1.971561	1.020240	2.005701	.8051704	2.089542
#3	.8063657	2.002071	1.031054	2.023327	.8042718	2.083475

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2135684	.2205160	.2043798	1.104395	.4237481	.2058213
Stddev	.0005336	.0001491	.0001934	.002986	.0016961	.0003468
%RSD	.2498550	.0676103	.0946247	.2703491	.4002609	.1684813
#1	.2140069	.2203797	.2041652	1.107825	.4219494	.2054427
#2	.2137240	.2204930	.2045405	1.102980	.4239765	.2058974
#3	.2129743	.2206752	.2044339	1.102379	.4253184	.2061236

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3232187	3.099294	.2199370	2.110294	.5174734	.0779154
Stddev	.0010781	.002437	.0008619	.012683	.0007816	.0000387
%RSD	.3335360	.0786402	.3918902	.6010159	.1510391	.0497175
#1	.3226603	3.096480	.2196678	2.095856	.5176176	.0779346
#2	.3225344	3.100735	.2209014	2.115387	.5166298	.0778708
#3	.3244614	3.100666	.2192418	2.119639	.5181729	.0779408

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965036	.3204667	.2187881	9.949541	.3254523	.4242325
Stddev	.008361	.0011979	.0006308	.008919	.0007112	.0012928
%RSD	.2819992	.3738107	.2883382	.0896389	.2185351	.3047286
#1	2.958143	.3210955	.2192634	9.943285	.3262587	.4245481
#2	2.974337	.3212193	.2180724	9.959754	.3251839	.4228112
#3	2.962628	.3190853	.2190285	9.945586	.3249144	.4253383

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165049BS Acquired: 11/19/2024 15:49:11 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7078463	.2116828	F .7374253	6.032666	F -.011829	.2011852
Stddev	.0015470	.0005432	.0054703	.008769	.001002	.0004148
%RSD	.2185458	.2565993	.7418138	.1453668	8.471500	.2061627
#1	.7061369	.2111941	.7435244	6.029646	-.012604	.2008468
#2	.7091500	.2122676	.7329525	6.025805	-.010697	.2010608
#3	.7082519	.2115867	.7357991	6.042546	-.012186	.2016479

Elem	Sr4077
Units	ppm
Avg	.2181824
Stddev	.0006540
%RSD	.2997254
#1	.2189185
#2	.2179601
#3	.2176685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2685.068	61031.55	13550.69	1878.058	4570.524
Stddev	8.786	46.13	33.78	7.635	6.484
%RSD	.3272041	.0755904	.2493042	.4065514	.1418582
#1	2685.533	60993.26	13512.11	1869.293	4571.751
#2	2693.611	61018.62	13564.94	1883.262	4576.307
#3	2676.059	61082.77	13575.01	1881.620	4563.515

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-01DLX5 Acquired: 11/19/2024 15:53:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0994422	-.000357	1.056667	-.008401	-.005872	26.81434
Stddev	.0004658	.002019	.003214	.001523	.000893	.15236
%RSD	.4683754	566.0725	.3041439	18.13047	15.20120	.5682118
#1	.0989171	-.001373	1.057069	-.008173	-.004995	26.69076
#2	.0996040	-.001665	1.059660	-.007005	-.005843	26.98458
#3	.0998055	.001968	1.053270	-.010025	-.006779	26.76770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5937578	.0027340	.0197768	8.699790	.7628169	.0242909
Stddev	.0028612	.0000241	.0000938	.084896	.0060908	.0001932
%RSD	.4818815	.8816016	.4740729	.9758405	.7984608	.7953488
#1	.5925831	.0027203	.0198626	8.631360	.7559921	.0245094
#2	.5970194	.0027619	.0197913	8.794794	.7677007	.0242205
#3	.5916709	.0027200	.0196767	8.673215	.7647578	.0241428

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8983312	61.85340	.6476662	12.24124	.1232282	.0090707
Stddev	.0029069	.36758	.0048411	.16438	.0005784	.0002345
%RSD	.3235868	.5942745	.7474636	1.342828	.4693374	2.584813
#1	.8994834	61.46594	.6441847	12.09626	.1231796	.0088027
#2	.9004854	62.19720	.6531944	12.41982	.1238294	.0091718
#3	.8950249	61.89707	.6456194	12.20764	.1226757	.0092377

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.97091	.0985006	1.923641	3.992455	.0521421	.0029997
Stddev	.02199	.0011963	.007850	.013969	.0004577	.0002991
%RSD	.1837007	1.214467	.4080544	.3498943	.8778021	9.971202
#1	11.99183	.0980925	1.914791	3.980604	.0517269	.0026628
#2	11.97291	.0998474	1.926375	4.007857	.0526329	.0032341
#3	11.94799	.0975617	1.929759	3.988904	.0520664	.0031022

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4892-01DLX5 Acquired: 11/19/2024 15:53:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9928344	.7531796	5.099162	3.494142	F 36.29237	.0437732
Stddev	.0012395	.0048486	.014162	.029335	.17255	.0012777
%RSD	.1248410	.6437478	.2777264	.8395451	.4754493	2.918871
#1	.9915943	.7493469	5.089894	3.516646	36.10480	.0429165
#2	.9940733	.7586303	5.115464	3.504815	36.44435	.0452418
#3	.9928356	.7515616	5.092130	3.460965	36.32798	.0431615

Elem	Sr4077
Units	ppm
Avg	.0697841
Stddev	.0004407
%RSD	.6315654
#1	.0700462
#2	.0700309
#3	.0692753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2645.927	61516.59	14448.22	1853.124	4271.094
Stddev	8.915	103.38	76.17	1.009	13.863
%RSD	.3369215	.1680490	.5272122	.0544431	.3245842
#1	2639.663	61572.06	14482.57	1852.395	4261.339
#2	2641.985	61397.32	14360.92	1852.701	4264.979
#3	2656.133	61580.40	14501.17	1854.276	4286.963

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4341-02 Acquired: 11/19/2024 15:57:16 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.063074	.0505826	-.001216	.5508536	.0105399	.0782231
Stddev	.004750	.0031007	.000428	.0058900	.0019450	.0022103
%RSD	7.530175	6.129943	35.21720	1.069250	18.45375	2.825586
#1	-.060199	.0490341	-.001472	.5576108	.0098732	.0783000
#2	-.060467	.0485612	-.001455	.5468057	.0127307	.0803939
#3	-.068557	.0541525	-.000722	.5481445	.0090160	.0759754

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016559	.0002733	-.001246	.0899442	.0091848	.0015050
Stddev	.0004586	.0000765	.000078	.0077444	.0004329	.0001040
%RSD	27.69091	28.00459	6.233431	8.610215	4.713641	6.913551
#1	.0021396	.0002058	-.001234	.0836261	.0093677	.0013858
#2	.0012276	.0003565	-.001329	.0876226	.0094963	.0015513
#3	.0016006	.0002576	-.001175	.0985838	.0086905	.0015779

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155982	.1036853	.0025849	.0133198	.0024295	.0004788
Stddev	.0005855	.0035673	.0001130	.0053693	.0000632	.0000778
%RSD	3.753464	3.440473	4.370399	40.31082	2.602146	16.24195
#1	.0156908	.1059345	.0026832	.0072398	.0024406	.0003936
#2	.0149720	.1055492	.0026099	.0174107	.0024866	.0005461
#3	.0161319	.0995722	.0024615	.0153089	.0023616	.0004966

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.86100	-.000537	.0541096	751.3683	-.010542	.0193250
Stddev	.21588	.000207	.0013449	12.8336	.000631	.0004437
%RSD	1.452677	38.57914	2.485420	1.708026	5.981240	2.295937
#1	15.10316	-.000774	.0555761	764.9038	-.009823	.0193003
#2	14.79116	-.000395	.0538188	749.8249	-.010804	.0188942
#3	14.68869	-.000440	.0529340	739.3762	-.010999	.0197806

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4341-02 Acquired: 11/19/2024 15:57:16 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2672539	.0010874	.3985223	F 161.4364	4.388327	-.000289
Stddev	.0042352	.0000220	.0205990	.6078	.036276	.001778
%RSD	1.584709	2.019130	5.168856	.3764826	.8266446	614.8318
#1	.2719307	.0010797	.4217543	162.1368	4.427123	-.001025
#2	.2661537	.0010704	.3913251	161.0477	4.382608	-.001581
#3	.2636774	.0011122	.3824874	161.1248	4.355251	.001739

Elem	Sr4077
Units	ppm
Avg	.0002277
Stddev	.0000386
%RSD	16.92964
#1	.0002711
#2	.0001975
#3	.0002145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1628.387	42084.01	12448.63	1122.891	3316.220
Stddev	15.058	477.09	36.62	14.646	24.178
%RSD	.9246963	1.133661	.2941458	1.304335	.7290776
#1	1611.023	41575.68	12406.54	1109.914	3288.307
#2	1636.290	42154.30	12466.11	1119.988	3329.730
#3	1637.848	42522.06	12473.22	1138.772	3330.623

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-01 Acquired: 11/19/2024 16:01:45 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000392	-.006350	.0196655	-.001604	.0050990	5.393181	.0181154
Stddev	.005624	.004263	.0027100	.000773	.0008423	.193119	.0000412
%RSD	1433.481	67.12871	13.78062	48.20527	16.51805	3.580790	.2276336
#1	.005411	-.002561	.0184256	-.002239	.0047545	5.606470	.0181369
#2	-.000770	-.005524	.0177972	-.001830	.0044837	5.342889	.0180679
#3	-.005818	-.010965	.0227737	-.000743	.0060589	5.230184	.0181415

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005541	.0008534	2.434204	.0409097	.0018027	.0258175	30.45282
Stddev	.0000387	.0007596	.082813	.0008403	.0006363	.0084297	.66854
%RSD	6.988935	89.00671	3.402060	2.054062	35.29610	32.65086	2.195335
#1	.0005154	.0004392	2.521651	.0415485	.0013676	.0215813	31.08909
#2	.0005929	.0003909	2.423989	.0412229	.0015075	.0203462	30.51327
#3	.0005540	.0017300	2.356973	.0399578	.0025330	.0355251	29.75611

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0713895	.2650111	.0069041	.0006038	.3859501	.0678928	.0904232
Stddev	.0023699	.0094737	.0009446	.0001544	.0038383	.0027517	.0017569
%RSD	3.319708	3.574824	13.68229	25.56692	.9945062	4.053068	1.943016
#1	.0738857	.2754198	.0064385	.0004439	.3843706	.0708978	.0923473
#2	.0711127	.2627216	.0062825	.0007520	.3903261	.0672845	.0900181
#3	.0691701	.2568920	.0079911	.0006155	.3831536	.0654961	.0889042

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8106781	.0141881	.0013396	.0016980	1.058769	2.005730	.4432453
Stddev	.0060164	.0006059	.0002451	.0006224	.038030	.031494	.0654472
%RSD	.7421485	4.270610	18.29729	36.65836	3.591891	1.570202	14.76545
#1	.8174360	.0148788	.0012675	.0017946	1.099467	2.040394	.4125301
#2	.8059044	.0139391	.0011387	.0010329	1.052702	1.997922	.3988052
#3	.8086939	.0137463	.0016127	.0022665	1.024137	1.978875	.5184006

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-01 Acquired: 11/19/2024 16:01:45 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4127411	.0001455	-.010416
Stddev	.0619031	.0009710	.000175
%RSD	14.99804	667.5077	1.680241
#1	.3812581	.0009263	-.010314
#2	.3729074	.0004518	-.010618
#3	.4840578	-.000942	-.010317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3048.168	68954.30	16068.06	2084.807	5206.234
Stddev	388.031	1434.46	525.70	43.763	646.005
%RSD	12.72997	2.080308	3.271719	2.099145	12.40829
#1	3207.155	67507.15	15496.56	2043.829	5476.667
#2	3331.456	68980.03	16176.61	2079.688	5673.073
#3	2605.894	70375.72	16531.02	2130.905	4468.961

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-02 Acquired: 11/19/2024 16:06:02 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000828	-.007667	.0705317	-.006740	.0016792	18.69952	.0837654
Stddev	.000672	.001463	.0004422	.002739	.0018431	.06142	.0008537
%RSD	81.16904	19.07576	.6268968	40.63214	109.7565	.3284530	1.019172
#1	-.001604	-.009298	.0703687	-.006496	.0024604	18.77038	.0847429
#2	-.000445	-.006474	.0710322	-.004132	.0030031	18.66158	.0831663
#3	-.000435	-.007229	.0701941	-.009593	-.000426	18.66660	.0833870

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009716	.0022251	5.720034	.1003997	.0035702	.0961343	40.66134
Stddev	.0000488	.0000780	.020849	.0013184	.0000877	.0001444	.59324
%RSD	5.024296	3.506942	.3644935	1.313129	2.457336	.1502091	1.458987
#1	.0009586	.0023141	5.742521	.0988835	.0036702	.0962995	40.02179
#2	.0009307	.0021925	5.716233	.1010400	.0035345	.0960320	41.19366
#3	.0010256	.0021686	5.701346	.1012758	.0035061	.0960714	40.76855

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1653891	.7459187	.0395606	.0026066	.5082088	.0883897	.4169867
Stddev	.0008234	.0062417	.0002858	.0001517	.0133299	.0009363	.0050233
%RSD	.4978575	.8367837	.7225085	5.818710	2.622919	1.059232	1.204664
#1	.1662280	.7520842	.0392526	.0024861	.4929684	.0894704	.4119611
#2	.1645822	.7460686	.0398173	.0025569	.5139622	.0878760	.4220077
#3	.1653571	.7396034	.0396118	.0027769	.5176958	.0878227	.4169914

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.266482	.0210534	.0016157	.0148910	1.774898	6.731202	1.689526
Stddev	.008530	.0013075	.0002211	.0007429	.009733	.104317	.007164
%RSD	.6735537	6.210448	13.68421	4.989141	.5483630	1.549760	.4240075
#1	1.267279	.0195571	.0017737	.0145641	1.785945	6.620535	1.683157
#2	1.274587	.0219761	.0017103	.0157414	1.771165	6.827727	1.697281
#3	1.257582	.0216269	.0013630	.0143676	1.767585	6.745344	1.688139

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-02 Acquired: 11/19/2024 16:06:02 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.048902	.0038583	-.008846
Stddev	.005585	.0018496	.000883
%RSD	.5324635	47.93912	9.978662
#1	1.047465	.0059932	-.007853
#2	1.055065	.0027376	-.009542
#3	1.044176	.0028441	-.009144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2690.090	63223.83	14328.94	1882.316	4574.609
Stddev	7.761	634.50	109.61	13.744	7.543
%RSD	.2885101	1.003580	.7649211	.7301678	.1648991
#1	2683.277	63888.35	14204.18	1889.303	4571.481
#2	2688.454	62624.35	14372.88	1866.482	4569.133
#3	2698.538	63158.80	14409.75	1891.164	4583.214

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-03 Acquired: 11/19/2024 16:10:15 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016912	-.008628	.0836404	-.004014	.0024047	19.52261	.1208627
Stddev	.0011470	.002233	.0002522	.001520	.0008549	.11658	.0008171
%RSD	67.82256	25.88760	.3015033	37.87125	35.54968	.5971419	.6761019
#1	.0015512	-.010894	.0834205	-.003015	.0031755	19.39847	.1199283
#2	.0029017	-.006429	.0835849	-.003264	.0014853	19.53961	.1212163
#3	.0006206	-.008560	.0839157	-.005763	.0025533	19.62975	.1214435

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007458	.0021578	10.33535	.1075790	.0044735	.1590718	29.64722
Stddev	.0000224	.0000250	.05554	.0006038	.0001607	.0004814	.13349
%RSD	3.002120	1.159315	.5373602	.5612466	3.592249	.3026528	.4502640
#1	.0007494	.0021866	10.27227	.1082688	.0044225	.1585798	29.49432
#2	.0007662	.0021455	10.35690	.1073219	.0043444	.1595419	29.70676
#3	.0007219	.0021413	10.37689	.1071464	.0046535	.1590937	29.74057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1617848	1.804106	.0703472	.0043179	.3401903	.0655924	.3346017
Stddev	.0009962	.005566	.0000447	.0001470	.0076167	.0014079	.0017931
%RSD	.6157415	.3085022	.0635966	3.404707	2.238952	2.146449	.5358816
#1	.1607007	1.801645	.0703458	.0042745	.3341146	.0643511	.3327023
#2	.1619938	1.810478	.0703032	.0041974	.3487353	.0653039	.3362651
#3	.1626599	1.800195	.0703926	.0044817	.3377210	.0671222	.3348378

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.341632	.0180036	.0020245	.0265266	1.213595	6.572662	2.583695
Stddev	.018309	.0007487	.0001180	.0011123	.007187	.026382	.008874
%RSD	1.364677	4.158324	5.827724	4.193280	.5921963	.4013923	.3434521
#1	1.349787	.0171686	.0019276	.0270052	1.205363	6.543355	2.587170
#2	1.320663	.0186150	.0021558	.0273196	1.218623	6.580114	2.573609
#3	1.354447	.0182272	.0019900	.0252551	1.216798	6.594516	2.590305

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-03 Acquired: 11/19/2024 16:10:15 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.331182	.0074729	.0186081
Stddev	.002595	.0008608	.0002097
%RSD	.1949056	11.51873	1.126811
#1	1.328407	.0084666	.0184440
#2	1.331591	.0069958	.0185360
#3	1.333547	.0069563	.0188443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2711.045	63532.98	14336.00	1909.729	4596.580
Stddev	5.315	78.75	14.96	8.062	7.101
%RSD	.1960589	.1239491	.1043469	.4221317	.1544947
#1	2716.051	63586.48	14353.01	1912.630	4600.810
#2	2711.619	63442.55	14330.10	1900.619	4600.549
#3	2705.467	63569.91	14324.90	1915.939	4588.382

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-04 Acquired: 11/19/2024 16:14:26 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0122551	.0051304	.0653763	-.049211	-.001133	29.01428	.0804476
Stddev	.0032578	.0016231	.0014689	.001203	.001261	.08315	.0002798
%RSD	26.58341	31.63721	2.246786	2.444939	111.2989	.2865890	.3477645
#1	.0085270	.0045597	.0642385	-.049964	-.002249	28.98116	.0802155
#2	.0136842	.0038698	.0648560	-.047823	-.001384	28.95278	.0807583
#3	.0145541	.0069618	.0670345	-.049845	.000235	29.10888	.0803692

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046767	.0079148	7.769528	.3990428	.0097877	.1142136	225.6148
Stddev	.0001234	.0002875	.012865	.0033981	.0000686	.0013204	3.2562
%RSD	2.639318	3.632258	.1655769	.8515708	.7010311	1.156082	1.443268
#1	.0045620	.0079013	7.784224	.3998554	.0097090	.1140715	225.8099
#2	.0048073	.0082088	7.764055	.3953120	.0098349	.1155993	222.2654
#3	.0046606	.0076343	7.760305	.4019610	.0098192	.1129700	228.7691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0644627	.8380715	.0225719	.0020945	.1531664	.2409586	.1696371
Stddev	.0004943	.0104466	.0004735	.0001414	.0024534	.0004397	.0018916
%RSD	.7668055	1.246499	2.097868	6.752543	1.601779	.1824845	1.115109
#1	.0648861	.8479474	.0226352	.0019371	.1503548	.2410880	.1695622
#2	.0639195	.8271352	.0230106	.0021356	.1548730	.2404687	.1677840
#3	.0645824	.8391320	.0220699	.0022109	.1542713	.2413190	.1715651

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8755467	.0936551	.0063072	.0040887	2.056542	5.401094	2.733207
Stddev	.0510505	.0041705	.0001683	.0005023	.004926	.076249	.006319
%RSD	5.830702	4.453050	2.667894	12.28447	.2395046	1.411736	.2311836
#1	.8751648	.0925578	.0061344	.0043104	2.058609	5.409126	2.740128
#2	.8246882	.0901430	.0064705	.0035137	2.050920	5.321146	2.727747
#3	.9267871	.0982646	.0063167	.0044419	2.060098	5.473009	2.731744

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-04 Acquired: 11/19/2024 16:14:26 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.296882	.0034103	-.190290
Stddev	.005829	.0004541	.003159
%RSD	.4494491	13.31636	1.659973
#1	1.296534	.0031315	-.190476
#2	1.291235	.0039344	-.187042
#3	1.302877	.0031651	-.193351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2607.703	60796.53	14113.90	1820.314	4346.397
Stddev	9.408	778.62	36.78	29.625	12.034
%RSD	.3607717	1.280694	.2606073	1.627475	.2768617
#1	2610.142	60592.42	14071.48	1817.122	4350.530
#2	2615.651	61656.87	14136.86	1851.406	4355.819
#3	2597.316	60140.29	14133.37	1792.415	4332.841

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV05 Acquired: 11/19/2024 16:18:36 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.214454	5.210920	5.172696	5.242353	5.215554	10.36362	10.29947
Stddev	.016647	.061252	.008907	.010278	.012417	.10439	.01742
%RSD	.3192539	1.175460	.1721993	.1960549	.2380773	1.007268	.1691649
#1	5.202521	5.147398	5.182981	5.234677	5.207943	10.41772	10.30979
#2	5.207370	5.215744	5.167433	5.238353	5.208837	10.42986	10.30925
#3	5.233472	5.269617	5.167675	5.254030	5.229883	10.24329	10.27935

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2568221	2.579126	25.58120	1.052979	2.580699	1.312746	5.140225
Stddev	.0023589	.004297	.27804	.003265	.004530	.000876	.033445
%RSD	.9185125	.1666189	1.086875	.3100877	.1755206	.0667086	.6506441
#1	.2580509	2.583985	25.73897	1.055879	2.585504	1.312074	5.173018
#2	.2583129	2.575824	25.74447	1.053615	2.576507	1.312428	5.141491
#3	.2541024	2.577569	25.26017	1.049443	2.580084	1.313736	5.106165

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.539836	25.58909	2.587902	1.291213	25.33888	2.586596	2.636953
Stddev	.034843	.26759	.003821	.004377	.27425	.026204	.007634
%RSD	1.371878	1.045702	.1476485	.3389498	1.082326	1.013069	.2895044
#1	2.560374	25.72095	2.591275	1.295997	25.60451	2.600368	2.644778
#2	2.559529	25.76516	2.583752	1.290233	25.35539	2.603042	2.636556
#3	2.499605	25.28117	2.588679	1.287410	25.05675	2.556378	2.629525

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.70181	5.108152	5.290266	5.180153	5.100383	5.099799	5.186793
Stddev	.16026	.044153	.008956	.003925	.065591	.020609	.017471
%RSD	.6235473	.8643546	.1692995	.0757713	1.286003	.4041090	.3368357
#1	25.84343	5.137248	5.282232	5.180323	5.144032	5.093992	5.183269
#2	25.73416	5.129860	5.288642	5.176146	5.132162	5.082718	5.171352
#3	25.52784	5.057348	5.299923	5.183990	5.024956	5.122689	5.205757

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV05 Acquired: 11/19/2024 16:18:36 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	4.997121	5.035715	5.238599
Stddev	.013739	.089745	.073912
%RSD	.2749429	1.782173	1.410918
#1	4.983236	5.104722	5.313244
#2	4.997418	5.068165	5.237109
#3	5.010710	4.934259	5.165442

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.624	58335.67	13866.70	1745.899	4105.548
Stddev	4.345	255.56	142.63	10.929	8.553
%RSD	.1726552	.4380884	1.028577	.6259538	.2083306
#1	2515.437	58043.01	13749.40	1733.378	4097.949
#2	2521.439	58449.24	13825.23	1753.522	4114.810
#3	2512.995	58514.77	14025.47	1750.797	4103.884

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB05 Acquired: 11/19/2024 16:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	.0004637	-.003492	-.000186	.0011034	.0012418	.0014925	-.000925
Stddev	.0018800	.000459	.000718	.0003536	.0013217	.0003103	.000194
%RSD	405.4264	13.13567	386.1918	32.04667	106.4271	20.79314	20.98309
#1	-.001064	-.003935	-.000800	.0008949	.0000196	.0018265	-.000703
#2	.002563	-.003019	.000603	.0009037	.0026444	.0014378	-.001064
#3	-.000108	-.003523	-.000361	.0015117	.0010615	.0012131	-.001008

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000039	.0000573	-.021394	.0003009	-.000188	-.000146	-.001721
Stddev	.000034	.0000548	.005025	.0002884	.000146	.000175	.001216
%RSD	87.87791	95.52649	23.48949	95.84725	77.93025	119.7843	70.64848
#1	.000000	.0001205	-.017524	.0005382	-.000113	-.000243	-.002001
#2	-.000055	.0000234	-.019584	.0003847	-.000356	-.000251	-.000390
#3	-.000061	.0000281	-.027073	-.000020	-.000094	.000056	-.002773

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000528	.0021929	-.000334	-.000175	.0237542	-.000366	-.001071
Stddev	.0002163	.0032619	.000187	.000258	.0119995	.000823	.000009
%RSD	409.8789	148.7427	56.02134	147.3259	50.51521	224.7169	.8460392
#1	-.000151	-.000531	-.000287	-.000045	.0134768	.000085	-.001082
#2	.000029	.005808	-.000541	-.000472	.0208449	-.001316	-.001065
#3	.000280	.001302	-.000175	-.000008	.0369407	.000133	-.001067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0889038	.0035648	.0001408	.0102591	.0002724	.0094652	.0004207
Stddev	.0157273	.0002804	.0001207	.0005098	.0000593	.0034665	.0017036
%RSD	17.69029	7.864602	85.77488	4.969771	21.78743	36.62316	404.9305
#1	.0709092	.0035805	.0002769	.0103983	.0002563	.0076224	.0005393
#2	.0957811	.0032769	.0000986	.0106849	.0002228	.0134638	-.001339
#3	.1000211	.0038370	.0000468	.0096941	.0003381	.0073094	.002062

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB05 Acquired: 11/19/2024 16:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.004996	-.000379	.0000599
Stddev	.002041	.001380	.0000110
%RSD	40.84993	363.9452	18.41103
#1	-.007248	-.001329	.0000643
#2	-.003270	-.001012	.0000473
#3	-.004468	.001204	.0000680

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2716.434	63451.05	14202.89	1910.265	4707.124
Stddev	3.675	144.17	58.12	4.384	8.498
%RSD	.1352755	.2272174	.4092238	.2295201	.1805344
#1	2715.566	63297.52	14136.17	1905.617	4714.265
#2	2720.465	63472.07	14229.93	1914.326	4709.381
#3	2713.271	63583.56	14242.56	1910.852	4697.725

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-05 Acquired: 11/19/2024 16:27:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149951	.0003458	.0333837	-.025046	.0025074	17.52067	.0479309
Stddev	.0029436	.0012244	.0020984	.003683	.0005216	.16561	.0004934
%RSD	19.63020	354.0946	6.285580	14.70629	20.80355	.9452390	1.029399
#1	.0171524	.0008460	.0321692	-.024304	.0029226	17.34448	.0474882
#2	.0116418	-.001050	.0358067	-.029044	.0019219	17.54439	.0478416
#3	.0161911	.001241	.0321752	-.021790	.0026778	17.67315	.0484628

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026160	.0038235	2.222566	.1016936	.0064705	.0530668	126.5327
Stddev	.0001403	.0001071	.007191	.0005205	.0001427	.0007405	.5276
%RSD	5.364836	2.800091	.3235644	.5118034	2.205370	1.395359	.4169553
#1	.0025583	.0038659	2.214433	.1014668	.0065688	.0539059	125.9365
#2	.0027760	.0037018	2.228082	.1022890	.0065360	.0525050	126.9392
#3	.0025137	.0039029	2.225185	.1013251	.0063069	.0527896	126.7225

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0732717	1.253832	.0138482	.0008853	.1246999	.1206382	.0922691
Stddev	.0002776	.009196	.0004233	.0002699	.0100173	.0011616	.0004749
%RSD	.3788723	.7334371	3.056571	30.49123	8.033125	.9628984	.5146838
#1	.0729779	1.243310	.0133596	.0009843	.1148968	.1193785	.0921384
#2	.0733078	1.260332	.0140804	.0005799	.1242843	.1208689	.0918733
#3	.0735295	1.257854	.0141045	.0010918	.1349185	.1216671	.0927957

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.803632	.0577654	.0022046	-.001793	1.376818	6.245893	1.027125
Stddev	.034204	.0004941	.0002387	.000331	.013287	.034800	.002995
%RSD	1.896381	.8554380	10.82494	18.45797	.9650472	.5571740	.2916058
#1	1.764847	.0580061	.0021659	-.001601	1.362334	6.205772	1.030413
#2	1.829482	.0580930	.0024603	-.002175	1.379681	6.267909	1.026410
#3	1.816566	.0571970	.0019877	-.001603	1.388441	6.263997	1.024551

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-05 Acquired: 11/19/2024 16:27:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.187311	.0073231	-.108191
Stddev	.007834	.0010001	.000411
%RSD	.6597851	13.65730	.3800686
#1	1.189562	.0072760	-.107769
#2	1.193772	.0083459	-.108591
#3	1.178598	.0063473	-.108212

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.886	62686.54	14595.02	1893.488	4535.549
Stddev	7.131	144.02	50.05	11.936	11.049
%RSD	.2637398	.2297390	.3428920	.6303888	.2436028
#1	2695.663	62795.87	14649.38	1901.838	4523.226
#2	2708.371	62523.36	14584.83	1879.816	4538.847
#3	2707.624	62740.39	14550.86	1898.809	4544.573

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-06 Acquired: 11/19/2024 16:31:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056492	-.003507	.0237337	-.017330	.0015512	12.50546	.0182493
Stddev	.0020507	.002782	.0003992	.001582	.0004872	.03303	.0006953
%RSD	36.30015	79.31673	1.682183	9.130614	31.40596	.2640869	3.809994
#1	.0056783	-.005828	.0239951	-.015714	.0018956	12.48861	.0175736
#2	.0076851	-.000424	.0239318	-.018876	.0017642	12.54352	.0189626
#3	.0035841	-.004270	.0232741	-.017401	.0009938	12.48427	.0182116

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018293	.0024487	1.197728	.0637945	.0032884	.0332744	87.79931
Stddev	.0000374	.0001088	.010444	.0004275	.0001503	.0011734	.20214
%RSD	2.042947	4.444703	.8719614	.6701039	4.569497	3.526509	.2302244
#1	.0018698	.0025524	1.209679	.0642814	.0032775	.0337825	87.57269
#2	.0017961	.0023354	1.190356	.0636216	.0031438	.0319325	87.86421
#3	.0018220	.0024583	1.193150	.0634806	.0034437	.0341082	87.96102

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0429755	.3876120	.0072252	.0007790	.0291724	.0820274	.0602105
Stddev	.0002757	.0049160	.0000999	.0001103	.0052921	.0014504	.0006944
%RSD	.6414070	1.268273	1.382946	14.15563	18.14081	1.768200	1.153218
#1	.0430140	.3874010	.0071411	.0006755	.0237802	.0803914	.0608121
#2	.0432299	.3828049	.0073357	.0008950	.0343584	.0831557	.0594507
#3	.0426827	.3926301	.0071989	.0007667	.0293784	.0825351	.0603688

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5052800	.0336477	.0025332	-.002779	1.436515	3.149768	.6991428
Stddev	.0167731	.0007519	.0002117	.001087	.007135	.003121	.0007824
%RSD	3.319569	2.234538	8.355761	39.09052	.4966725	.0990904	.1119082
#1	.4865968	.0335010	.0027337	-.001730	1.434722	3.148225	.6989581
#2	.5102012	.0329800	.0023119	-.003900	1.444375	3.147719	.6984693
#3	.5190420	.0344621	.0025539	-.002708	1.430447	3.153360	.7000010

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-06 Acquired: 11/19/2024 16:31:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1639930	.0015141	-.081369
Stddev	.0019944	.0022305	.000206
%RSD	1.216153	147.3186	.2528633
#1	.1630414	.0001590	-.081174
#2	.1626526	.0002948	-.081348
#3	.1662849	.0040885	-.081584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2691.598	62488.64	14239.56	1874.973	4555.819
Stddev	14.354	58.32	68.64	3.578	20.888
%RSD	.5332813	.0933293	.4820327	.1908076	.4585007
#1	2678.101	62421.88	14233.33	1872.881	4542.211
#2	2706.677	62529.67	14174.25	1872.935	4579.869
#3	2690.017	62514.36	14311.11	1879.104	4545.376

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-07 Acquired: 11/19/2024 16:35:38 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029739	-.007953	.2313763	-.009319	.0011549	12.82657	.0888737
Stddev	.0014707	.000674	.0001556	.001571	.0008758	.15293	.0009297
%RSD	49.45147	8.474721	.0672468	16.86031	75.82646	1.192263	1.046052
#1	.0016211	-.007879	.2314759	-.008202	.0008816	12.65642	.0878701
#2	.0045393	-.007318	.2314561	-.008638	.0021348	12.95255	.0890455
#3	.0027614	-.008660	.2311970	-.011115	.0004484	12.87074	.0897054

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011877	.0021605	6.198548	.0772146	.0053016	.0594491	51.19177
Stddev	.0000763	.0000230	.070147	.0001604	.0001241	.0002201	.33745
%RSD	6.427043	1.065781	1.131667	.2077126	2.340165	.3702244	.6591963
#1	.0011018	.0021544	6.117762	.0772078	.0053447	.0595546	50.89522
#2	.0012476	.0021411	6.244015	.0770578	.0053983	.0595967	51.12115
#3	.0012138	.0021859	6.233868	.0773783	.0051617	.0591962	51.55895

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1444592	1.638929	.0129566	.0009225	.1251724	.0840563	.1606919
Stddev	.0014176	.039008	.0003187	.0000526	.0103465	.0002786	.0008259
%RSD	.9813066	2.380069	2.459696	5.704643	8.265780	.3314601	.5139937
#1	.1430009	1.593889	.0128501	.0008618	.1147886	.0837539	.1616456
#2	.1445445	1.661843	.0133149	.0009541	.1354811	.0843026	.1602053
#3	.1458323	1.661055	.0127048	.0009518	.1252474	.0841125	.1602249

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7960306	.0247384	.0019601	.0300933	1.513592	4.973580	.6885785
Stddev	.0037845	.0003460	.0002818	.0010735	.015995	.027377	.0015992
%RSD	.4754239	1.398735	14.37608	3.567115	1.056728	.5504564	.2322481
#1	.7987380	.0247338	.0016351	.0297452	1.495529	4.949883	.6897771
#2	.7976475	.0250866	.0021093	.0292371	1.525960	4.967307	.6891958
#3	.7917062	.0243947	.0021360	.0312976	1.519286	5.003549	.6867627

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-07 Acquired: 11/19/2024 16:35:38 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5161531	.0036642	-.030217
Stddev	.0023273	.0012519	.000262
%RSD	.4508885	34.16587	.8677288
#1	.5146704	.0039388	-.030235
#2	.5188354	.0022978	-.029946
#3	.5149534	.0047561	-.030470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.729	62527.31	14427.62	1872.332	4552.240
Stddev	1.538	30.26	73.30	4.063	1.806
%RSD	.0575876	.0484010	.5080379	.2169833	.0396820
#1	2671.064	62519.77	14510.12	1867.644	4551.691
#2	2672.072	62560.63	14369.99	1874.835	4554.257
#3	2669.051	62501.52	14402.76	1874.516	4550.772

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-08 Acquired: 11/19/2024 16:39:52 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056849	-.006077	.0472452	-.019668	.0007658	20.72917	.0660227
Stddev	.0022175	.002026	.0008481	.000742	.0003566	.05325	.0002586
%RSD	39.00616	33.33565	1.795124	3.772154	46.56326	.2568890	.3916037
#1	.0031418	-.005790	.0472108	-.018812	.0006277	20.70430	.0657350
#2	.0066983	-.004210	.0481099	-.020074	.0011708	20.79030	.0660973
#3	.0072147	-.008231	.0464147	-.020119	.0004989	20.69290	.0662356

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020473	.0037374	13.01558	.1126233	.0051306	.0768976	100.8216
Stddev	.0000417	.0002732	.09383	.0009319	.0001018	.0019204	1.7282
%RSD	2.034793	7.308706	.7209158	.8274953	1.984596	2.497296	1.714159
#1	.0020783	.0040527	12.90744	.1116828	.0050502	.0791073	98.9339
#2	.0020636	.0035726	13.07542	.1126406	.0050964	.0759536	101.2050
#3	.0019999	.0035868	13.06389	.1135464	.0052451	.0756321	102.3260

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0734252	1.325037	.0101918	.0033632	1.282927	.1315546	.1837258
Stddev	.0004196	.020178	.0001314	.0003771	.018029	.0003382	.0026025
%RSD	.5714166	1.522837	1.289014	11.21195	1.405281	.2570543	1.416513
#1	.0729421	1.313137	.0103423	.0029281	1.264599	.1315185	.1815449
#2	.0736351	1.348334	.0100997	.0035955	1.283541	.1319094	.1830257
#3	.0736984	1.313638	.0101335	.0035659	1.300641	.1312359	.1866067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.846597	.0517215	.0025127	.0029577	1.967894	5.995298	2.109541
Stddev	.035866	.0021141	.0002123	.0007653	.007011	.080639	.016610
%RSD	1.942297	4.087523	8.446899	25.87552	.3562872	1.345039	.7873709
#1	1.814570	.0495264	.0027480	.0027784	1.961807	5.906355	2.124218
#2	1.839872	.0518939	.0024544	.0037968	1.975560	6.015905	2.091510
#3	1.885350	.0537441	.0023357	.0022980	1.966314	6.063634	2.112896

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-08 Acquired: 11/19/2024 16:39:52 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6512184	.0055689	-.064248
Stddev	.0013595	.0008966	.001742
%RSD	.2087615	16.10043	2.711070
#1	.6525220	.0053134	-.062365
#2	.6498092	.0048279	-.064575
#3	.6513239	.0065656	-.065802

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.307	59922.98	14094.01	1775.092	4366.658
Stddev	6.317	531.49	33.40	22.459	9.146
%RSD	.2460529	.8869550	.2369998	1.265253	.2094547
#1	2562.015	60363.71	14055.62	1794.875	4361.362
#2	2574.300	60072.48	14116.38	1779.724	4377.219
#3	2565.605	59332.75	14110.05	1750.678	4361.392

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-09 Acquired: 11/19/2024 16:44:04 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001650	-.012595	.0257386	-.011011	.0003915	11.99819	.0157282
Stddev	.002360	.001811	.0010383	.002254	.0006694	.08020	.0003815
%RSD	142.9931	14.37881	4.033963	20.47146	170.9903	.6684264	2.425607
#1	-.002552	-.010767	.0247540	-.011446	.0011292	11.98495	.0156453
#2	-.003427	-.014389	.0256386	-.013016	.0002227	12.08419	.0153949
#3	.001027	-.012628	.0268233	-.008571	-.000177	11.92544	.0161443

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012224	.0022012	3.063337	.1614175	.0031742	.0403982	65.42242
Stddev	.0000731	.0001653	.027706	.0036333	.0001240	.0009069	1.11563
%RSD	5.978087	7.510573	.9044231	2.250860	3.905519	2.244998	1.705271
#1	.0011578	.0021980	3.081215	.1596239	.0030313	.0409416	64.54125
#2	.0013017	.0023681	3.077374	.1590299	.0032380	.0409018	65.04921
#3	.0012078	.0020375	3.031422	.1655988	.0032532	.0393512	66.67682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0602206	.4847203	.0090604	.0012768	1.231188	.1359759	.1125541
Stddev	.0004384	.0115440	.0002671	.0001249	.022163	.0006604	.0023395
%RSD	.7279662	2.381571	2.947563	9.779663	1.800100	.4856758	2.078527
#1	.0597178	.4786019	.0089232	.0011328	1.211791	.1362896	.1102811
#2	.0605228	.4980355	.0093682	.0013420	1.226428	.1364210	.1124262
#3	.0604212	.4775234	.0088898	.0013555	1.255343	.1352171	.1149548

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174415	.0276450	.0031672	-.001326	1.735650	3.160258	1.086351
Stddev	.041873	.0015430	.0002731	.000471	.010508	.032535	.001809
%RSD	3.565428	5.581574	8.621334	35.48194	.6054272	1.029507	.1664842
#1	1.147797	.0269403	.0029364	-.001581	1.731975	3.136792	1.088425
#2	1.152767	.0265801	.0030966	-.000783	1.747501	3.146583	1.085523
#3	1.222680	.0294145	.0034686	-.001615	1.727472	3.197398	1.085104

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-09 Acquired: 11/19/2024 16:44:04 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.130931	.0006265	-.050562
Stddev	.007436	.0007149	.001229
%RSD	.2375168	114.1156	2.430277
#1	3.139276	-.000166	-.049649
#2	3.128509	.000822	-.050079
#3	3.125007	.001223	-.051959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.336	62698.62	14171.82	1833.388	4496.666
Stddev	9.379	905.08	67.06	26.158	14.839
%RSD	.3587444	1.443543	.4732191	1.426737	.3300098
#1	2612.965	63297.36	14200.51	1853.718	4497.025
#2	2605.717	63141.07	14095.19	1842.569	4481.650
#3	2624.324	61657.42	14219.77	1803.878	4511.322

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-10 Acquired: 11/19/2024 16:48:20 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018545	-.007404	.0121681	-.004891	.0012892	4.822766	.0101648
Stddev	.0022014	.002082	.0014297	.001142	.0005675	.012947	.0003282
%RSD	118.7079	28.12060	11.74938	23.33794	44.02110	.2684526	3.228655
#1	.0000519	-.006055	.0105292	-.003574	.0008787	4.834773	.0101819
#2	.0012036	-.006354	.0128155	-.005509	.0010521	4.809049	.0104841
#3	.0043079	-.009802	.0131595	-.005591	.0019369	4.824475	.0098284

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006356	.0009084	1.796536	.0567424	.0016045	.0210442	34.10225
Stddev	.0000677	.0000762	.004412	.0003645	.0001315	.0004207	.23129
%RSD	10.65864	8.392495	.2455878	.6423236	8.195349	1.999220	.6782365
#1	.0006294	.0009459	1.791542	.0564629	.0014769	.0206882	33.85735
#2	.0007063	.0009585	1.798158	.0566097	.0017395	.0209359	34.31697
#3	.0005712	.0008206	1.799908	.0571547	.0015972	.0215085	34.13245

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0443014	.1980587	.0100077	.0002623	.3375402	.0730763	.0569509
Stddev	.0003307	.0017568	.0002244	.0003885	.0084403	.0006346	.0003884
%RSD	.7465461	.8870233	2.241940	148.1275	2.500539	.8683946	.6820847
#1	.0446803	.1961602	.0097975	-.000020	.3310364	.0730460	.0565417
#2	.0441535	.1983890	.0102439	.000705	.3470781	.0724574	.0573146
#3	.0440705	.1996270	.0099816	.000101	.3345060	.0737255	.0569963

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5605190	.0139783	.0014322	-.001980	.9540692	1.449662	.3722934
Stddev	.0346725	.0003669	.0001369	.000124	.0024573	.008317	.0017174
%RSD	6.185786	2.624604	9.561442	6.287264	.2575617	.5736973	.4612960
#1	.5205193	.0135673	.0013706	-.001893	.9562856	1.440315	.3741399
#2	.5790347	.0142728	.0015891	-.002123	.9514267	1.452427	.3707438
#3	.5820030	.0140948	.0013369	-.001925	.9544953	1.456244	.3719967

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4860-10 Acquired: 11/19/2024 16:48:20 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2400726	-.001128	-.026710
Stddev	.0013710	.001295	.000283
%RSD	.5710939	114.8343	1.058160
#1	.2413122	-.002618	-.026406
#2	.2403057	-.000481	-.026964
#3	.2386000	-.000284	-.026759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2707.129	63331.20	14270.87	1911.640	4665.462
Stddev	2.487	502.31	53.85	15.014	9.258
%RSD	.0918502	.7931474	.3773239	.7854214	.1984298
#1	2709.656	63880.34	14208.90	1925.504	4676.102
#2	2707.046	62894.91	14306.22	1895.693	4661.034
#3	2704.685	63218.36	14297.50	1913.724	4659.250

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-01 Acquired: 11/19/2024 16:52:38 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1448359	.0040161	.3866067	-.133733	-.000464	170.4514
Stddev	.0004408	.0017732	.0027347	.000201	.003311	1.1236
%RSD	.3043376	44.15077	.7073661	.1505125	714.3659	.6591869
#1	.1445179	.0034763	.3896507	-.133573	.002182	169.1903
#2	.1453391	.0025757	.3858123	-.133667	-.004177	170.8181
#3	.1446508	.0059965	.3843571	-.133959	.000604	171.3459

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.092074	.0219642	.0473443	83.69444	.2730640	.3132144
Stddev	.005466	.0000849	.0016396	.40724	.0023863	.0023770
%RSD	.5005130	.3867382	3.463044	.4865781	.8738881	.7589118
#1	1.094050	.0219500	.0484139	83.31841	.2753869	.3158424
#2	1.096278	.0220554	.0481623	84.12699	.2731859	.3125864
#3	1.085895	.0218873	.0454567	83.63793	.2706191	.3112145

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7529863	541.6553	26.76969	53.53855	.2344825	-.005566
Stddev	.0079722	3.8441	.12792	.29948	.0016480	.000802
%RSD	1.058748	.7096866	.4778408	.5593733	.7028211	14.40027
#1	.7576685	542.4708	26.72682	53.26436	.2363653	-.006280
#2	.7575092	537.4689	26.91353	53.85814	.2333019	-.005719
#3	.7437812	545.0262	26.66870	53.49315	.2337802	-.004699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.31444	.7297782	1.448236	9.402358	.5093181	.0153488
Stddev	.09752	.0044399	.011621	.100017	.0071897	.0003098
%RSD	.7324719	.6083956	.8024425	1.063740	1.411635	2.018381
#1	13.42268	.7256965	1.459717	9.504380	.5095169	.0155218
#2	13.23340	.7345057	1.448512	9.304476	.5020311	.0149912
#3	13.28724	.7291325	1.436480	9.398217	.5164064	.0155335

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-01 Acquired: 11/19/2024 16:52:38 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0431870	4.490665	F 15.49684	F 10.35639	1.458427	.1959311
Stddev	.0007711	.017296	.09584	.10942	.013544	.0022068
%RSD	1.785367	.3851567	.6184414	1.056546	.9286474	1.126311
#1	.0440013	4.489281	15.55220	10.45826	1.469972	.1979492
#2	.0430915	4.508611	15.38617	10.37018	1.461790	.1962693
#3	.0424681	4.474102	15.55214	10.24073	1.443518	.1935747

Elem	Sr4077
Units	ppm
Avg	-.174675
Stddev	.005697
%RSD	3.261354
#1	-.175086
#2	-.168783
#3	-.180154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2783.329	65787.55	15260.86	1961.302	3949.148
Stddev	22.114	347.75	87.88	16.540	29.393
%RSD	.7945075	.5285885	.5758829	.8433214	.7442938
#1	2762.374	65422.90	15232.36	1942.403	3921.838
#2	2781.168	66115.48	15190.77	1973.136	3945.349
#3	2806.443	65824.27	15359.46	1968.368	3980.256

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-04 Acquired: 11/19/2024 16:57:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0804745	-.044003	.4592647	-.044081	-.003606	110.1131
Stddev	.0037819	.004596	.0011076	.002416	.000706	.3869
%RSD	4.699545	10.44571	.2411744	5.479888	19.57166	.3513286
#1	.0790715	-.039269	.4598450	-.046487	-.004150	109.6764
#2	.0847574	-.044290	.4579875	-.041656	-.002809	110.4128
#3	.0775945	-.048449	.4599616	-.044101	-.003861	110.2501

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033585	.0130669	.0216398	31.10685	.2458704	.1577893
Stddev	.005974	.0000174	.0003546	.14697	.0012405	.0012234
%RSD	.5779407	.1332464	1.638584	.4724790	.5045338	.7753389
#1	1.031170	.0130765	.0217892	30.93958	.2460477	.1581359
#2	1.040388	.0130468	.0212349	31.21528	.2445508	.1564300
#3	1.029196	.0130774	.0218952	31.16571	.2470128	.1588020

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3591459	190.4757	7.993201	79.10720	.2761197	.0009956
Stddev	.0016881	.5873	.033326	.54286	.0012517	.0001482
%RSD	.4700368	.3083554	.4169264	.6862278	.4533300	14.88140
#1	.3603131	190.3742	7.977075	78.51953	.2767961	.0008806
#2	.3572103	189.9457	8.031523	79.21216	.2746753	.0011628
#3	.3599144	191.1072	7.971006	79.58992	.2768877	.0009434

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.986774	.4654505	1.359868	29.22068	.1191123	.0016663
Stddev	.026874	.0008923	.006944	.04910	.0015472	.0004084
%RSD	.2990399	.1916984	.5106588	.1680296	1.298933	24.50699
#1	9.014562	.4647981	1.363583	29.22302	.1198863	.0021115
#2	8.960919	.4650861	1.351857	29.17045	.1173308	.0015785
#3	8.984840	.4664673	1.364165	29.26856	.1201197	.0013090

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-04 Acquired: 11/19/2024 16:57:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006959	8.804344	F 19.85442	F 10.00077	.3039697	.2386393
Stddev	.000310	.038337	.13444	.09378	.0013542	.0028346
%RSD	4.461217	.4354341	.6771093	.9377337	.4454961	1.187820
#1	-.006815	8.762880	19.79915	10.08896	.3026008	.2387403
#2	-.006746	8.838503	19.75643	9.90225	.3039997	.2414221
#3	-.007315	8.811650	20.00768	10.01110	.3053086	.2357556

Elem	Sr4077
Units	ppm
Avg	-.071610
Stddev	.001196
%RSD	1.670646
#1	-.071472
#2	-.070489
#3	-.072870

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.097	71567.23	16942.03	2140.536	3925.447
Stddev	18.665	238.27	55.87	11.339	25.153
%RSD	.6127663	.3329263	.3297591	.5297390	.6407593
#1	3032.056	71354.10	16940.33	2131.845	3905.381
#2	3067.278	71824.47	16887.03	2153.362	3953.664
#3	3038.956	71523.13	16998.73	2136.400	3917.295

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-07 Acquired: 11/19/2024 17:01:11 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0981214	-.039644	.5781394	-.042862	-.002245	103.9555
Stddev	.0025369	.000420	.0040545	.001719	.000963	.5311
%RSD	2.585416	1.058515	.7013088	4.009738	42.90784	.5108832
#1	.1009993	-.039176	.5800047	-.041921	-.001210	104.5602
#2	.0962092	-.039987	.5809255	-.041820	-.002408	103.7417
#3	.0971557	-.039770	.5734879	-.044846	-.003116	103.5647

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.075954	.0126291	.0205227	44.46200	.2377836	.1510042
Stddev	.008581	.0001442	.0004917	.18324	.0002748	.0013187
%RSD	.7975675	1.142124	2.395869	.4121360	.1155900	.8732672
#1	1.085741	.0127671	.0210250	44.53619	.2378137	.1524017
#2	1.072402	.0126409	.0205008	44.25329	.2380421	.1508292
#3	1.069719	.0124793	.0200423	44.59651	.2374949	.1497818

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6221766	186.4987	6.955623	74.44797	.2635029	.0007570
Stddev	.0063979	.9340	.037729	.33362	.0019707	.0001922
%RSD	1.028302	.5008336	.5424206	.4481231	.7478845	25.39085
#1	.6279579	185.7918	6.988404	74.55804	.2646879	.0005852
#2	.6232691	186.1466	6.914383	74.07323	.2645928	.0007212
#3	.6153028	187.5576	6.964082	74.71265	.2612280	.0009646

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.097591	.4540256	1.372411	36.06969	.1184154	.0033996
Stddev	.022986	.0024966	.001230	.08178	.0021055	.0000576
%RSD	.4509251	.5498867	.0896151	.2267153	1.778108	1.694259
#1	5.111751	.4568493	1.373117	36.08561	.1163028	.0034060
#2	5.109953	.4531168	1.373126	36.14233	.1184295	.0034537
#3	5.071069	.4521106	1.370991	35.98112	.1205138	.0033390

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-07 Acquired: 11/19/2024 17:01:11 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023668	8.098696	F 21.01892	F 11.38450	.1427708	.2279918
Stddev	.0007039	.042445	.03966	.15695	.0020722	.0042324
%RSD	29.73999	.5240962	.1886695	1.378585	1.451420	1.856404
#1	.0030620	8.146783	20.97691	11.53720	.1442753	.2328522
#2	.0023841	8.066449	21.02412	11.39269	.1404072	.2260046
#3	.0016545	8.082856	21.05571	11.22363	.1436298	.2251187

Elem	Sr4077
Units	ppm
Avg	.0068231
Stddev	.0020724
%RSD	30.37372
#1	.0091124
#2	.0062819
#3	.0050749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.270	71551.19	16971.74	2109.033	3922.670
Stddev	24.649	163.57	135.18	1.217	38.740
%RSD	.8091597	.2286026	.7965257	.0577070	.9875879
#1	3018.633	71385.56	16815.77	2108.653	3881.044
#2	3054.197	71555.39	17044.07	2110.395	3929.299
#3	3065.981	71712.62	17055.36	2108.052	3957.668

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-10 Acquired: 11/19/2024 17:05:16 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0647660	-.012927	.3996891	-.068169	-.001732	145.1581
Stddev	.0006526	.004906	.0030040	.002111	.002458	1.9922
%RSD	1.007640	37.94951	.7515720	3.097320	141.9295	1.372416
#1	.0647852	-.018250	.3989606	-.070239	-.003504	143.1075
#2	.0641040	-.008586	.3971163	-.068249	-.002766	145.2806
#3	.0654087	-.011946	.4029902	-.066018	.001074	147.0862

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.258180	.0145167	.0257613	32.55623	.2773371	.1587680
Stddev	.012117	.0001326	.0002086	.53480	.0031577	.0010258
%RSD	.9630435	.9134367	.8098703	1.642705	1.138575	.6460736
#1	1.246585	.0144723	.0260020	31.94232	.2798491	.1590108
#2	1.257195	.0144121	.0256497	32.80533	.2737924	.1576426
#3	1.270759	.0146658	.0256323	32.92104	.2783698	.1596505

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4122492	285.7766	6.516753	62.74894	.3227160	-.000873
Stddev	.0022209	2.2767	.091256	1.05959	.0024315	.000550
%RSD	.5387365	.7966804	1.400330	1.688623	.7534476	62.98825
#1	.4132179	285.3508	6.417405	61.54132	.3225643	-.001504
#2	.4097084	283.7428	6.536010	63.18253	.3203638	-.000614
#3	.4138212	288.2361	6.596844	63.52297	.3252197	-.000500

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.283007	.4239627	.8838921	21.89478	.1798913	-.000019
Stddev	.081126	.0077602	.0066922	.25253	.0003287	.000177
%RSD	1.291195	1.830387	.7571292	1.153382	.1827331	945.7410
#1	6.325214	.4154671	.8868972	22.01564	.1801525	-.000138
#2	6.189479	.4257430	.8762241	21.60454	.1795222	-.000103
#3	6.334328	.4306781	.8885550	22.06417	.1799994	.000185

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: P4870-10 Acquired: 11/19/2024 17:05:16 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119647	4.678672	F 19.38995	7.642003	.3240687	.2606613
Stddev	.0017192	.054018	.17699	.053086	.0046459	.0017270
%RSD	14.36859	1.154564	.9127901	.6946638	1.433611	.6625600
#1	.0136964	4.621182	19.41879	7.701293	.3281883	.2596648
#2	.0102584	4.686461	19.20032	7.598878	.3190330	.2596635
#3	.0119393	4.728373	19.55075	7.625840	.3249847	.2626555

Elem	Sr4077
Units	ppm
Avg	-.044839
Stddev	.001722
%RSD	3.841463
#1	-.046686
#2	-.043276
#3	-.044557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3026.331	70535.93	16794.04	2073.246	4052.577
Stddev	16.190	598.25	127.11	11.962	23.518
%RSD	.5349644	.8481488	.7568651	.5769518	.5803273
#1	3009.700	70094.89	16935.20	2065.367	4038.678
#2	3042.040	71216.90	16758.28	2087.010	4079.730
#3	3027.252	70296.00	16688.65	2067.361	4039.321

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV06 Acquired: 11/19/2024 17:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.266167	5.299796	5.239455	5.309398	5.275207	10.48806	10.40381
Stddev	.019674	.104175	.012258	.020388	.011566	.02954	.08910
%RSD	.3735830	1.965633	.2339586	.3839951	.2192448	.2816555	.8564229
#1	5.288834	5.419688	5.246341	5.327160	5.288095	10.51831	10.50056
#2	5.256139	5.231374	5.225302	5.287137	5.265733	10.45928	10.32513
#3	5.253528	5.248327	5.246722	5.313898	5.271791	10.48658	10.38572

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2605391	2.606454	25.75202	1.058079	2.601618	1.328597	5.191708
Stddev	.0006345	.005004	.10829	.000659	.005397	.003647	.026354
%RSD	.2435454	.1919876	.4205134	.0622610	.2074488	.2744754	.5076240
#1	.2611969	2.608125	25.83953	1.058008	2.605526	1.332789	5.221018
#2	.2599308	2.600828	25.63091	1.058770	2.595460	1.326158	5.184142
#3	.2604897	2.610408	25.78562	1.057459	2.603868	1.326844	5.169964

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.544765	25.79341	2.610836	1.309004	25.85270	2.598481	2.675314
Stddev	.018204	.09852	.004983	.002614	.18627	.003531	.004119
%RSD	.7153595	.3819740	.1908591	.1996853	.7205067	.1358901	.1539581
#1	2.565774	25.82736	2.613880	1.311040	26.01200	2.601844	2.673884
#2	2.533652	25.68240	2.605086	1.306056	25.89821	2.594803	2.672101
#3	2.534869	25.87047	2.613543	1.309915	25.64790	2.598797	2.679957

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.92972	5.228620	5.321310	5.236835	5.137782	5.168560	5.482556
Stddev	.07172	.025907	.014315	.020687	.021172	.025494	.065615
%RSD	.2765965	.4954809	.2690154	.3950341	.4120856	.4932480	1.196788
#1	25.97420	5.258072	5.337829	5.256480	5.161892	5.141040	5.558195
#2	25.96797	5.209353	5.312535	5.215243	5.129229	5.173270	5.448511
#3	25.84698	5.218436	5.313566	5.238782	5.122224	5.191371	5.440961

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV06 Acquired: 11/19/2024 17:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.119305	5.082187	5.222871
Stddev	.040810	.053261	.065759
%RSD	.7971706	1.047998	1.259062
#1	5.162081	5.131982	5.294480
#2	5.080797	5.088548	5.208939
#3	5.115038	5.026031	5.165194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2496.702	57714.34	13746.37	1736.771	4068.455
Stddev	4.395	154.02	76.82	6.443	4.286
%RSD	.1760369	.2668651	.5588315	.3709691	.1053575
#1	2492.574	57548.69	13661.67	1741.970	4063.565
#2	2496.210	57853.22	13811.54	1738.780	4071.567
#3	2501.323	57741.09	13765.90	1729.563	4070.232

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB06 Acquired: 11/19/2024 17:24:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005051	.0019218	.0010899	.0013875	.0016161	.0302180
Stddev	.0004315	.0006365	.0004832	.0009181	.0011296	.0150766
%RSD	85.44040	33.12084	44.33867	66.17024	69.89610	49.89280
#1	.0005435	.0019521	.0011536	.0009136	.0015082	.0470089
#2	.0000556	.0025427	.0015381	.0024458	.0027958	.0258045
#3	.0009161	.0012707	.0005779	.0008032	.0005443	.0178407

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219732	.0001033	.0001017	.0598054	.0004557	-.000052
Stddev	.0164010	.0000734	.0000441	.0500340	.0005143	.000149
%RSD	74.64100	71.03494	43.29780	83.66144	112.8661	286.1044
#1	.0397242	.0001617	.0000675	.1159098	.0002974	-.000145
#2	.0188135	.0001272	.0000863	.0436958	.0010305	-.000130
#3	.0073819	.0000210	.0001514	.0198106	.0000391	.000119

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000159	.0101402	.0065111	.0621765	-.000197	-.000090
Stddev	.000193	.0056720	.0040884	.0360996	.000137	.000290
%RSD	121.3237	55.93595	62.79201	58.05996	69.24647	321.6950
#1	.000019	.0166028	.0108412	.0987436	-.000076	.000243
#2	-.000132	.0078298	.0059749	.0612227	-.000345	-.000222
#3	-.000364	.0059880	.0027172	.0265632	-.000171	-.000291

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253564	.0055595	.0011518	.0773000	.0099897	.0006680
Stddev	.0308998	.0038001	.0004709	.0166851	.0008321	.0002441
%RSD	121.8621	68.35299	40.88098	21.58491	8.329764	36.54112
#1	.0600816	.0099201	.0016443	.0959809	.0105522	.0008632
#2	.0150940	.0038031	.0011051	.0720419	.0103830	.0007464
#3	.0008934	.0029554	.0007061	.0638774	.0090338	.0003943

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB06 Acquired: 11/19/2024 17:24:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003656	.0137524	.0377672	.0010183	-.003312	.0078177
Stddev	.000657	.0074289	.0179290	.0009319	.001740	.0065387
%RSD	17.97291	54.01876	47.47250	91.51570	52.53553	83.63989
#1	-.002962	.0216411	.0576021	-.000020	-.004965	.0142479
#2	-.004269	.0127259	.0329858	.001291	-.001496	.0080296
#3	-.003736	.0068901	.0227135	.001783	-.003476	.0011756

Elem	Sr4077
Units	ppm
Avg	F .0124164
Stddev	.0085813
%RSD	69.11260
#1	.0216719
#2	.0108530
#3	.0047243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2625.535	60376.30	13920.74	1803.774	4623.671
Stddev	2.820	167.18	53.22	3.681	1.360
%RSD	.1073967	.2769038	.3823004	.2040790	.0294220
#1	2626.230	60198.73	13859.51	1800.623	4623.196
#2	2622.433	60530.68	13955.86	1807.820	4622.612
#3	2627.942	60399.49	13946.84	1802.878	4625.205

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165047BL Acquired: 11/19/2024 17:28:30 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000539	-.000417	.0002028	.0002932	.0005838	.0063623	-.000875
Stddev	.0022990	.000947	.0010471	.0010084	.0005066	.0021096	.000348
%RSD	4267.831	227.1255	516.3167	343.9311	86.78472	33.15766	39.74992
#1	-.002473	-.001444	.0005287	.0004773	.0006179	.0063536	-.001276
#2	.000612	.000423	.0010482	.0011968	.0010725	.0042571	-.000680
#3	.002022	-.000230	-.000968	-.000795	.0000609	.0084763	-.000668

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000039	.0000169	.0091653	.0002216	-.000074	-.000206	-.004289
Stddev	.000068	.0000592	.0009497	.0003441	.000290	.000081	.002844
%RSD	176.3647	348.9878	10.36249	155.2892	390.4183	39.38771	66.29992
#1	.000035	.0000842	.0102612	.0005956	-.000212	-.000132	-.001552
#2	-.000052	-.000027	.0086525	-.000082	-.000269	-.000193	-.004087
#3	-.000099	-.000006	.0085822	.000151	.000259	-.000293	-.007228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001755	-.007774	.0000295	-.000139	-.016119	-.000489	.0005342
Stddev	.0001404	.005117	.0002098	.000161	.007870	.001016	.0002626
%RSD	79.98661	65.81961	711.1816	115.7665	48.82510	207.7225	49.15860
#1	.0003308	-.003785	.0002692	-.000306	-.021594	-.001083	.0005016
#2	.0001380	-.013543	-.000060	.000015	-.019662	.000684	.0002894
#3	.0000576	-.005993	-.000121	-.000127	-.007100	-.001068	.0008115

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346690	.0052955	-.000169	-.003740	.0003260	.0048383	-.000297
Stddev	.0203547	.0005193	.000131	.000511	.0005846	.0044331	.001539
%RSD	58.71158	9.806236	77.20006	13.67074	179.3144	91.62526	517.5627
#1	.0157864	.0058221	-.000266	-.004172	.0008751	.0034327	.001387
#2	.0319901	.0052805	-.000021	-.003176	-.000289	.0012784	-.000648
#3	.0562305	.0047839	-.000221	-.003874	.000392	.0098037	-.001630

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165047BL Acquired: 11/19/2024 17:28:30 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002756	-.000610	-.000059
Stddev	.002765	.001402	.000034
%RSD	100.3041	229.8557	57.08691
#1	-.001621	-.000496	-.000098
#2	-.005908	.000731	-.000036
#3	-.000740	-.002065	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2685.589	61264.28	13809.81	1876.562	4669.027
Stddev	1.039	107.38	3.03	3.620	1.602
%RSD	.0386890	.1752779	.0219689	.1928798	.0343194
#1	2684.857	61223.39	13806.41	1872.886	4667.613
#2	2685.132	61183.34	13810.74	1876.679	4668.700
#3	2686.779	61386.10	13812.26	1880.122	4670.767

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165047BS Acquired: 11/19/2024 17:32:51 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8295257	2.250458	1.053349	2.087089	.8107741	2.118107
Stddev	.0051940	.025422	.001710	.006942	.0012342	.018204
%RSD	.6261414	1.129633	.1623037	.3326224	.1522245	.8594580
#1	.8346526	2.266413	1.055007	2.094290	.8118969	2.103353
#2	.8242671	2.221141	1.053449	2.080439	.8094526	2.112518
#3	.8296575	2.263819	1.051592	2.086537	.8109728	2.138451

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2167987	.2244786	.2106587	1.125897	.4306755	.2117401
Stddev	.0010628	.0018093	.0003841	.014477	.0010435	.0003821
%RSD	.4902235	.8059828	.1823333	1.285823	.2422933	.1804628
#1	.2160983	.2224366	.2105460	1.118353	.4300694	.2112997
#2	.2162761	.2251175	.2103435	1.116749	.4300767	.2119833
#3	.2180216	.2258818	.2110865	1.142588	.4318804	.2119373

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3298824	3.082929	.2225739	2.142875	.5317538	.0786257
Stddev	.0003738	.020880	.0013408	.023211	.0008283	.0003050
%RSD	.1133227	.6772762	.6024099	1.083155	.1557630	.3878865
#1	.3300394	3.063555	.2211039	2.118728	.5314802	.0783449
#2	.3301521	3.080188	.2228882	2.144878	.5310970	.0789501
#3	.3294556	3.105044	.2237298	2.165019	.5326843	.0785822

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.850131	.3254542	.2212399	9.811735	.3372268	.4320248
Stddev	.019009	.0025656	.0011726	.063182	.0021908	.0006194
%RSD	.6669654	.7883100	.5300262	.6439468	.6496641	.1433618
#1	2.851417	.3226037	.2225936	9.872315	.3347258	.4323384
#2	2.830512	.3261810	.2205875	9.746238	.3381476	.4313114
#3	2.868465	.3275780	.2205385	9.816652	.3388070	.4324248

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: PB165047BS Acquired: 11/19/2024 17:32:51 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7305443	.2125809	F .7320324	6.380269	F -.010693	.2009792
Stddev	.0011638	.0018497	.0136390	.018333	.001472	.0008306
%RSD	.1593088	.8701086	1.863164	.2873356	13.76815	.4132676
#1	.7318447	.2112296	.7271362	6.398906	-.009000	.2010287
#2	.7301879	.2118242	.7215175	6.362256	-.011410	.2001249
#3	.7296004	.2146890	.7474437	6.379643	-.011671	.2017838

Elem	Sr4077
Units	ppm
Avg	.2214556
Stddev	.0014958
%RSD	.6754561
#1	.2204287
#2	.2207663
#3	.2231718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2678.847	61873.05	13482.05	1894.788	4528.284
Stddev	4.905	263.76	63.40	16.007	4.319
%RSD	.1831009	.4262977	.4702680	.8448142	.0953753
#1	2676.548	61611.18	13543.25	1879.065	4529.809
#2	2675.513	62138.67	13486.24	1911.066	4523.409
#3	2684.479	61869.30	13416.65	1894.232	4531.633

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LR1 Acquired: 11/19/2024 17:51:22 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397976	-.028747	.0066392	-.328647	-.014771	1976.940	.0338811
Stddev	.0129222	.002166	.0098264	.013389	.006039	8.922	.0079794
%RSD	32.46976	7.533433	148.0065	4.073872	40.88501	.4512940	23.55119
#1	.0377974	-.026278	-.002031	-.318971	-.011080	1972.718	.0430905
#2	.0279922	-.030322	.017313	-.323043	-.021740	1970.913	.0295234
#3	.0536033	-.029642	.004636	-.343927	-.011492	1987.189	.0290294

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114262	.1651057	1760.683	.0000859	.0512683	.1300035	1067.942
Stddev	.0002071	.0024073	3.199	.0001408	.0007589	.0116298	4.765
%RSD	1.812293	1.458068	.1816633	163.8635	1.480146	8.945736	.4461945
#1	.0115925	.1678845	1757.169	-.000008	.0520426	.1363011	1062.669
#2	.0114920	.1637815	1761.454	.000018	.0505260	.1371263	1069.219
#3	.0111943	.1636512	1763.425	.000248	.0512363	.1165830	1071.939

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.129609	1911.416	.0222814	-.042749	2060.327	.0878589	.3486346
Stddev	.004132	4.609	.0014215	.001380	11.897	.0005616	.0046399
%RSD	3.188004	.2411412	6.379874	3.228986	.5774098	.6392452	1.330883
#1	-.124861	1908.212	.0217679	-.044061	2074.020	.0876488	.3433057
#2	-.132389	1916.698	.0238883	-.042876	2052.528	.0874326	.3517791
#3	-.131578	1909.337	.0211880	-.041309	2054.435	.0884953	.3508192

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1333.962	.3625430	-.015153	.0105338	-.038970	.1617722	.1066153
Stddev	9.875	.0042583	.001459	.0020662	.000685	.0072481	.0062997
%RSD	.7402505	1.174561	9.627534	19.61475	1.758768	4.480457	5.908823
#1	1335.763	.3580409	-.016480	.0095210	-.039183	.1539155	.1134217
#2	1342.813	.3665062	-.013591	.0091694	-.039524	.1632026	.1009892
#3	1323.312	.3630819	-.015388	.0129110	-.038204	.1681985	.1054350

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LR1 Acquired: 11/19/2024 17:51:22 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.195736	.6180572	-1.05385
Stddev	.013406	.0061945	.00482
%RSD	6.849206	1.002257	.4569619
#1	-.180260	.6144470	-1.04851
#2	-.203771	.6145148	-1.05517
#3	-.203178	.6252099	-1.05787

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1518.922	36775.08	10234.82	1062.723	2149.082
Stddev	9.987	50.49	28.22	6.049	12.623
%RSD	.6574804	.1372991	.2757476	.5692320	.5873711
#1	1507.516	36764.24	10234.83	1066.447	2134.584
#2	1523.157	36730.90	10263.04	1055.743	2155.027
#3	1526.093	36830.12	10206.60	1065.979	2157.636

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LR2 Acquired: 11/19/2024 17:56:20 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096753	-.041582	241.1496	.0059750	-.000615	2.996840	^F *****
Stddev	.0029509	.001525	1.0490	.0012601	.001834	1.932082	-----
%RSD	30.49891	3.668579	.4349839	21.09003	298.1757	64.47064	-----
#1	.0105183	-.040448	242.0966	.0050508	-.001386	5.105186	^ -----
#2	.0121129	-.043316	241.3301	.0074104	.001478	2.574409	^ -----
#3	.0063947	-.040983	240.0221	.0054637	-.001938	1.310925	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003347	-.006398	3.124756	.0114296	-.018207	241.2186	1.733472
Stddev	.000018	.000234	2.133240	.0002688	.000291	1.8662	1.153686
%RSD	.5293583	3.660078	68.26900	2.352161	1.598051	.7736739	66.55347
#1	-.003367	-.006585	5.500563	.0116980	-.017915	242.9363	2.990234
#2	-.003338	-.006474	2.500210	.0114305	-.018497	239.2328	1.487717
#3	-.003336	-.006136	1.373497	.0111603	-.018211	241.4867	.722465

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.90412	2.904660	47.60555	.0018063	2.280257	-.019525	32.22652
Stddev	.15643	2.161554	.20995	.0003842	1.601286	.000556	.25297
%RSD	.3407682	74.41679	.4410233	21.27227	70.22391	2.848340	.7849807
#1	45.86171	5.300625	47.79277	.0022491	4.099020	-.020016	32.44789
#2	46.07738	2.312342	47.64532	.0016087	1.659311	-.019637	32.28088
#3	45.77327	1.101012	47.37855	.0015610	1.082442	-.018921	31.95079

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.256810	-.000507	-.006375	-.003182	-.045711	.0001422	3.725247
Stddev	.758146	.001711	.000285	.000919	.000283	.0018426	.067671
%RSD	60.32309	337.2479	4.472676	28.87404	.6187244	1296.148	1.816542
#1	2.120749	.001265	-.006661	-.004147	-.045540	.0012642	3.776956
#2	.947283	-.000637	-.006090	-.002319	-.046038	.0011466	3.750127
#3	.702397	-.002150	-.006375	-.003079	-.045557	-.001984	3.648658

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: LR2 Acquired: 11/19/2024 17:56:20 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.025668	.0002717	.0006249
Stddev	.007383	.0017330	.0011661
%RSD	28.76506	637.8862	186.6157
#1	-.026052	.0022127	-.000642
#2	-.018100	-.000277	.000863
#3	-.032852	-.001120	.001654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2243.283	60696.32	13707.23	1753.542	4255.662
Stddev	17.196	54.93	101.16	4.533	24.278
%RSD	.7665681	.0904949	.7380404	.2585191	.5704968
#1	2224.827	60634.03	13590.43	1754.007	4228.171
#2	2258.854	60737.82	13767.45	1757.825	4274.167
#3	2246.167	60717.10	13763.80	1748.795	4264.647

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV07 Acquired: 11/19/2024 18:01:12 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	5.065827	4.937236	5.019439	5.096101	5.079452	10.25340	10.56510
Stddev	.018729	.039579	.031152	.018865	.017095	.03163	.34168
%RSD	.3697116	.8016424	.6206366	.3701777	.3365555	.3084992	3.234002
#1	5.086869	4.979828	5.050574	5.117249	5.099161	10.26106	10.92571
#2	5.050982	4.930291	5.019474	5.081004	5.068638	10.28050	10.52341
#3	5.059630	4.901589	4.988269	5.090051	5.070558	10.21864	10.24619

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2557015	2.485292	25.07741	1.020604	2.487304	1.293530	4.986168
Stddev	.0013347	.015721	.08013	.004691	.016786	.006983	.009026
%RSD	.5219622	.6325585	.3195288	.4596348	.6748867	.5398049	.1810227
#1	.2569406	2.500739	25.03697	1.026006	2.503985	1.301343	4.996578
#2	.2558754	2.485825	25.16971	1.018254	2.487514	1.291348	4.981393
#3	.2542884	2.469311	25.02557	1.017553	2.470414	1.287899	4.980532

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.601531	25.11179	2.498052	1.265786	25.55142	2.544088	2.478544
Stddev	.108724	.11122	.014522	.002736	.16821	.006556	.010110
%RSD	4.179244	.4428966	.5813269	.2161815	.6583104	.2577031	.4078937
#1	2.721821	25.01027	2.512124	1.268851	25.74391	2.540590	2.471121
#2	2.572510	25.23067	2.498912	1.263589	25.47766	2.551651	2.474452
#3	2.510262	25.09443	2.483119	1.264918	25.43269	2.540022	2.490058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.17355	5.151639	5.087718	4.990683	5.033914	4.945669	5.162757
Stddev	.10483	.021399	.021517	.035295	.020312	.027474	.068584
%RSD	.4164196	.4153780	.4229262	.7072140	.4035058	.5555260	1.328435
#1	25.26523	5.166340	5.111683	5.024388	5.048772	4.916791	5.224497
#2	25.19616	5.161488	5.081416	4.993672	5.042202	4.971482	5.174840
#3	25.05926	5.127089	5.070056	4.953989	5.010769	4.948733	5.088935

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCV07 Acquired: 11/19/2024 18:01:12 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	4.864697	5.015318	5.139707
Stddev	.031504	.039677	.025642
%RSD	.6475970	.7911069	.4989064
#1	4.895403	5.059187	5.129801
#2	4.866236	5.004825	5.168824
#3	4.832452	4.981943	5.120495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2553.955	59030.34	13781.20	1771.313	4177.188
Stddev	8.909	227.17	77.55	4.371	20.944
%RSD	.3488172	.3848439	.5627216	.2467680	.5013845
#1	2543.701	58768.58	13705.22	1768.583	4154.298
#2	2558.368	59146.47	13778.14	1776.355	4181.876
#3	2559.795	59175.98	13860.23	1769.003	4195.391

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB07 Acquired: 11/19/2024 18:05:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	.0014847	.0014597	.0022453	.0026075	.0037128	.0413156
Stddev	.0023719	.0017664	.0007808	.0019232	.0010470	.0166911
%RSD	159.7598	121.0083	34.77666	73.75729	28.19999	40.39904
#1	-.000944	.0026353	.0031436	.0026760	.0048423	.0588222
#2	.001603	.0023153	.0018631	.0044955	.0027747	.0395433
#3	.003795	-.000572	.0017292	.0006509	.0035215	.0255814

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258050	.0001143	.0006212	.0818416	.0006109	.0005590
Stddev	.0181333	.0000552	.0000661	.0421101	.0003622	.0001312
%RSD	70.27059	48.34199	10.63419	51.45319	59.28611	23.47378
#1	.0453397	.0001770	.0006559	.1247257	.0009549	.0006899
#2	.0225656	.0000730	.0005450	.0802483	.0006450	.0004275
#3	.0095097	.0000928	.0006626	.0405507	.0002329	.0005594

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019142	.0169101	.0076839	.0761709	.0005180	.0001079
Stddev	.0003935	.0076120	.0043825	.0354160	.0004825	.0001649
%RSD	20.55739	45.01428	57.03434	46.49545	93.16073	152.7660
#1	.0016876	.0247895	.0123680	.1125449	.0007082	.0002617
#2	.0023686	.0163436	.0070003	.0741700	-.000031	.0001284
#3	.0016864	.0095972	.0036834	.0417978	.000876	-.000066

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2900565	.0063430	.0014606	.2324288	.0041265	.0015637
Stddev	.0362717	.0047256	.0000506	.0165252	.0002943	.0003690
%RSD	12.50506	74.50152	3.464674	7.109775	7.132645	23.60039
#1	.3306313	.0105709	.0015190	.2514704	.0043681	.0016713
#2	.2787637	.0072164	.0014316	.2239784	.0037987	.0011528
#3	.2607745	.0012416	.0014312	.2218377	.0042127	.0018670

Reviewed By:Jaswal
On:11/20/2024
11:38:44 AM
Inst Id :P4
LB :LB133524

Sample Name: CCB07 Acquired: 11/19/2024 18:05:24 Type: Unk
Method: NON EPA-6010-200.7(v2475) 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	-.002788	.0152080	.0294282	.0018736	-.000001	F .0104251
Stddev	.000573	.0082754	.0148630	.0015233	.001825	.0074443
%RSD	20.54861	54.41460	50.50588	81.30559	321066.3	71.40716
#1	-.002750	.0239849	.0459130	.0028645	-.001221	.0186900
#2	-.003379	.0140918	.0253210	.0001195	-.000878	.0083386
#3	-.002235	.0075474	.0170508	.0026368	.002098	.0042467

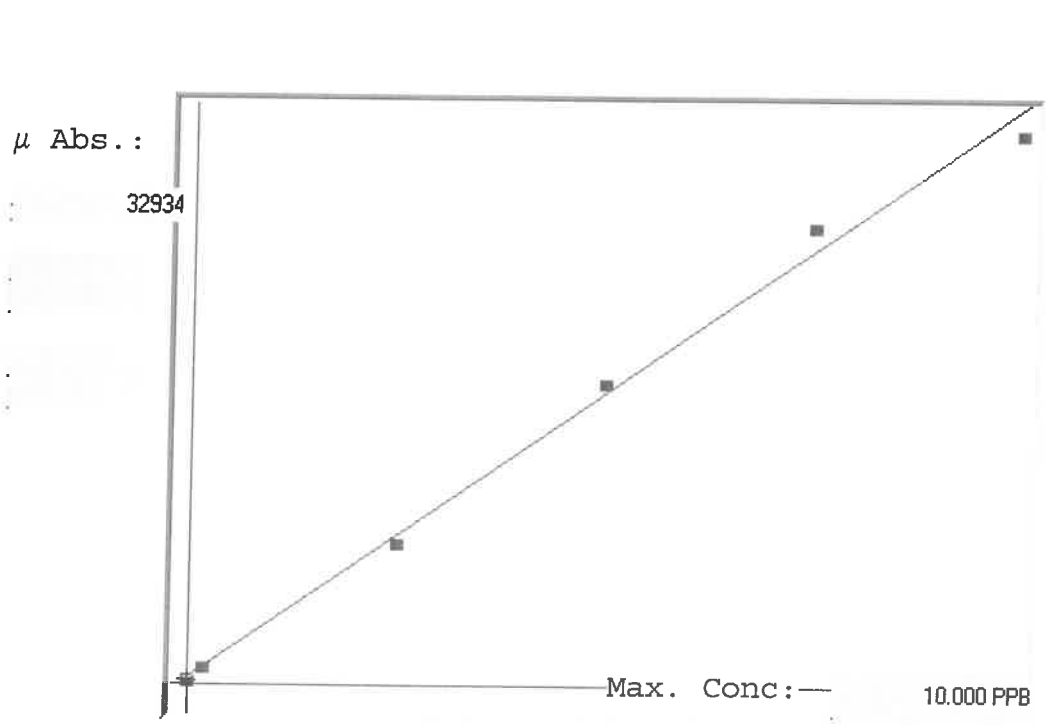
Elem	Sr4077
Units	ppm
Avg	F .0141954
Stddev	.0092296
%RSD	65.01807
#1	.0241437
#2	.0125316
#3	.0059109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2650.543	62802.55	13891.81	1866.712	4694.042
Stddev	10.701	304.57	46.47	11.273	12.535
%RSD	.4037444	.4849614	.3345138	.6038749	.2670370
#1	2641.907	62655.10	13838.71	1857.914	4682.991
#2	2647.206	62599.77	13911.64	1862.802	4691.472
#3	2662.515	63152.78	13925.08	1879.419	4707.663

Reviewed By:mohan
On:11/11/2024 9:32:23 PM
Inst Id :CV1
LB :LB133392

LB133392

7470A INSTRUMENT ID : CV1



A= 0.0000e+000
B= 2.9413e-004
C= -1.1964e-001
Rho= 0.9973132
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	-0.050	-0.050	237	0.000	237	0				=
0.2	0.200	0.196	-0.004	1072	0.0 %	1072					-2
2.5	2.500	2.363	-0.137	8439	0.0 %	8439					-5
5.0	5.000	5.180	0.180	18018	0.0 %	18018					4
7.5	7.500	7.944	0.444	27416	0.0 %	27416					6
10.0	10.000	9.567	-0.433	32934	0.0 %	32934					-4

Reviewed By:mohan
On:11/11/2024 9:32:23 PM
Inst Id :CV1
LB :LB133392

L133392 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 11 Nov 2024 13:25:25

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	237	-	0.00000	7470A	PPB	11 Nov 2024 13:36:48	S	Std
0.2 - 1	S0-2	1072	-	0.20000	7470A	PPB	11 Nov 2024 13:41:52	S	Std
2.5 - 1	S2.5	8439	-	2.50000	7470A	PPB	11 Nov 2024 13:44:09	S	Std
5.0 - 1	S5	18018	-	5.00000	7470A	PPB	11 Nov 2024 13:46:26	S	Std
7.5 - 1	S7.5	27416	-	7.50000	7470A	PPB	11 Nov 2024 13:53:38	S	Std
10.0 - 1	S10	32934	-	10.00000	7470A	PPB	11 Nov 2024 13:55:55	S	Std
ICV80 - 1	ICV80	14302	4.0871		-7470A	PPB	11 Nov 2024 13:58:50	U	SMPL
ICB80 - 1	ICB80	282	-0.0367		-7470A	PPB	11 Nov 2024 14:01:05	U	SMPL
CCV64 - 1	CCV64	17943	5.1580		-7470A	PPB	11 Nov 2024 14:03:21	U	SMPL
CCB64 - 1	CCB64	250	-0.0461		-7470A	PPB	11 Nov 2024 14:05:36	U	SMPL
CRA - 1	CRA	1106	0.2057		-7470A	PPB	11 Nov 2024 14:10:47	U	SMPL
HighStd - 1	HighStd	32302	9.3815		-7470A	PPB	11 Nov 2024 14:13:01	U	SMPL
ChkStd - 1	ChkStd	24651	7.1310		-7470A	PPB	11 Nov 2024 14:15:16	U	SMPL
PB164872BL - 1	PBW	275	-0.0388		-7470A	PPB	11 Nov 2024 14:20:09	U	SMPL
PB164872BS - 1	LCSW	12697	3.6150		-7470A	PPB	11 Nov 2024 14:22:24	U	SMPL
P4718-04 - 1	WB-307-SW	-57	-0.1364		-7470A	PPB	11 Nov 2024 14:24:40	U	SMPL
P4736-02 - 1	COMP	295	-0.0329		-7470A	PPB	11 Nov 2024 14:26:58	U	SMPL
P4791-02 - 1	HINCHMAN-OILY-WATER	-25	-0.1270		-7470A	PPB	11 Nov 2024 14:29:14	U	SMPL
P4791-02DUP - 1	HINCHMAN-OILY-WATERDUP	15	-0.1152		-7470A	PPB	11 Nov 2024 14:31:31	U	SMPL
P4791-02MS - 1	HINCHMAN-OILY-WATERMS	10827	3.0649		-7470A	PPB	11 Nov 2024 14:33:45	U	SMPL
CCV65 - 1	CCV65	16902	4.8518		-7470A	PPB	11 Nov 2024 14:36:01	U	SMPL
CCB65 - 1	CCB65	265	-0.0417		-7470A	PPB	11 Nov 2024 14:41:02	U	SMPL
P4791-02MSD - 1	HINCHMAN-OILY-WATERMSD	11003	3.1167		-7470A	PPB	11 Nov 2024 14:43:16	U	SMPL
P4792-04 - 1	MANHOLE-WASTE-DRUMS	2123	0.5048		-7470A	PPB	11 Nov 2024 14:45:31	U	SMPL
P4797-01 - 1	2885	7550	2.1011		-7470A	PPB	11 Nov 2024 14:47:49	U	SMPL
P4791-02LX5 - 1		-612	-0.2997		-7470A	PPB	11 Nov 2024 14:50:07	U	SMPL
P4791-02A - 1		14217	4.0621		-7470A	PPB	11 Nov 2024 14:52:26	U	SMPL
CCV66 - 1	CCV66	17178	4.9330		-7470A	PPB	11 Nov 2024 14:54:42	U	SMPL
CCB66 - 1	CCB66	192	-0.0632		-7470A	PPB	11 Nov 2024 14:57:00	U	SMPL

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164759

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/07/2024 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/07/2024 **Time :** 15:45 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6116
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 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24 16:00	JSP / Met dig	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164759

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4718-04	WB-307-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
P4718-04DUP	WB-307-SWDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
P4718-04MS	WB-307-SWMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	25
P4718-04MSD	WB-307-SWMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	26
P4736-02	COMP	<2	50	25	White	Colorless	Clear	Cloudy	N/A	27
PB164759BL	PBW759	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
PB164759BS	LCS759	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	29

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164759 **WorkList ID :** 185213 **Department :** Digestion **Date :** 11-07-2024 11:52:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-04	WB-307-SW	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	L21	11/04/2024	6010D
P4736-02	COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ARAM01	L11	11/06/2024	6010D

Date/Time 11/7/24 11:55

Raw Sample Received by: Jap (Met dig)

Raw Sample Relinquished by: CL

Date/Time 11/7/24 12:30

Raw Sample Received by: CL

Raw Sample Relinquished by: Jap (Met dig)

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	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

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

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

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Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

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-PT-BL	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-PT-BL	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

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

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	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	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	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

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Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4762-02A	EFF-WWA	PS	11/08/24 17:39	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
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	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

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Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

70	P4739-13A	TP-11A	PS	11/08/24 18:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	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	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	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
77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	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

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

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
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	NOT USE	Kareem	Not Ok
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14	NOT USE	Kareem	Not 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

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

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 125x 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
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,
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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133392

Review By	jaswal	Review On	11/11/2024 9:30:43 PM
Supervise By	mohan	Supervise On	11/11/2024 9:32:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP83192,MP83193,MP83194,MP83195,MP83196,MP831MP831MP831MP831MP831MP8317
ICV Standard	MP83198
CCV Standard	MP83200
ICSA Standard	
CRI Standard	MP83202
LCS Standard	
Chk Standard	MP83199,MP83201,MP83203,MP83205

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/11/24 13:36		Ayul	OK
2	S0.2	S0.2	CAL2	11/11/24 13:41		Ayul	OK
3	S2.5	S2.5	CAL3	11/11/24 13:44		Ayul	OK
4	S5	S5	CAL4	11/11/24 13:46		Ayul	OK
5	S7.5	S7.5	CAL5	11/11/24 13:53		Ayul	OK
6	S10	S10	CAL6	11/11/24 13:55		Ayul	OK
7	ICV80	ICV80	ICV	11/11/24 13:58		Ayul	OK
8	ICB80	ICB80	ICB	11/11/24 14:01		Ayul	OK
9	CCV64	CCV64	CCV	11/11/24 14:03		Ayul	OK
10	CCB64	CCB64	CCB	11/11/24 14:05		Ayul	OK
11	CRA	CRA	CRDL	11/11/24 14:10		Ayul	OK
12	HighStd	HighStd	HIGH STD	11/11/24 14:13		Ayul	OK
13	ChkStd	ChkStd	SAM	11/11/24 14:15		Ayul	OK
14	PB164872BL	PB164872BL	MB	11/11/24 14:20		Ayul	OK
15	PB164872BS	PB164872BS	LCS	11/11/24 14:22		Ayul	OK
16	P4718-04	WB-307-SW	SAM	11/11/24 14:24		Ayul	OK
17	P4736-02	COMP	SAM	11/11/24 14:26		Ayul	OK
18	P4791-02	HINCHMAN-OILY-WA	SAM	11/11/24 14:29		Ayul	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133392

Review By	jaswal	Review On	11/11/2024 9:30:43 PM
Supervise By	mohan	Supervise On	11/11/2024 9:32:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP83192,MP83193,MP83194,MP83195,MP83196,MP831MP831MP831MP831MP831MP8317
ICV Standard	MP83198
CCV Standard	MP83200
ICSA Standard	
CRI Standard	MP83202
LCS Standard	
Chk Standard	MP83199,MP83201,MP83203,MP83205

19	P4791-02DUP	HINCHMAN-OILY-WA	DUP	11/11/24 14:31		Ayul	OK
20	P4791-02MS	HINCHMAN-OILY-WA	MS	11/11/24 14:33		Ayul	OK
21	CCV65	CCV65	CCV	11/11/24 14:36		Ayul	OK
22	CCB65	CCB65	CCB	11/11/24 14:41		Ayul	OK
23	P4791-02MSD	HINCHMAN-OILY-WA	MSD	11/11/24 14:43		Ayul	OK
24	P4792-04	MANHOLE-WASTE-D	SAM	11/11/24 14:45		Ayul	OK
25	P4797-01	2885	SAM	11/11/24 14:47		Ayul	OK
26	P4791-02L	HINCHMAN-OILY-WA	SD	11/11/24 14:50		Ayul	OK
27	P4791-02A	HINCHMAN-OILY-WA	PS	11/11/24 14:52		Ayul	OK
28	CCV66	CCV66	CCV	11/11/24 14:54		Ayul	OK
29	CCB66	CCB66	CCB	11/11/24 14:57		Ayul	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 10:55		Kareem	OK
2	S1	S1	CAL2	11/19/24 11:00		Kareem	OK
3	S2	S2	CAL3	11/19/24 11:04		Kareem	OK
4	S3	S3	CAL4	11/19/24 11:08		Kareem	OK
5	S4	S4	CAL5	11/19/24 11:13		Kareem	OK
6	S5	S5	CAL6	11/19/24 11:17		Kareem	OK
7	ICV01	ICV01	ICV	11/19/24 11:25		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/19/24 11:34		Kareem	OK
9	ICB01	ICB01	ICB	11/19/24 11:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/19/24 11:43		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/19/24 11:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/24 11:51		Kareem	OK
13	CCV01	CCV01	CCV	11/19/24 12:43		Kareem	OK
14	CCB01	CCB01	CCB	11/19/24 12:48		Kareem	OK
15	PB165067BL	PB165067BL	MB	11/19/24 12:52		Kareem	OK
16	PB165067BS	PB165067BS	LCS	11/19/24 12:56	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
17	PB164759BL	PB164759BL	MB	11/19/24 13:00		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

18	PB164759BS	PB164759BS	LCS	11/19/24 13:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
19	PB164645BL	PB164645BL	MB	11/19/24 13:09		Kareem	OK
20	PB164645BS	PB164645BS	LCS	11/19/24 13:13	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
21	PB164944TB	PB164944TB	MB	11/19/24 13:17		Kareem	OK
22	P4892-01	WB-310-TOP	SAM	11/19/24 13:22	Cr high	Kareem	Dilution
23	P4892-02	WB-310-BOT	SAM	11/19/24 13:26		Kareem	OK
24	P4893-01	MH-763	SAM	11/19/24 13:30		Kareem	OK
25	CCV02	CCV02	CCV	11/19/24 13:34		Kareem	OK
26	CCB02	CCB02	CCB	11/19/24 13:38		Kareem	OK
27	P4893-05	MH-762	SAM	11/19/24 13:42		Kareem	OK
28	P4908-01	SP-1	SAM	11/19/24 13:46		Kareem	OK
29	P4908-03	SP-2	SAM	11/19/24 13:51		Kareem	OK
30	P4909-01	BU-02-111824	SAM	11/19/24 13:55		Kareem	OK
31	P4909-01DUP	BU-02-111824DUP	DUP	11/19/24 13:59		Kareem	OK
32	P4909-01L	BU-02-111824L	SD	11/19/24 14:03		Kareem	OK
33	P4909-01MS	BU-02-111824MS	MS	11/19/24 14:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	P4909-01MSD	BU-02-111824MSD	MSD	11/19/24 14:12	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

35	P4909-01A	BU-02-111824A	PS	11/19/24 14:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
36	P4890-01	#3711	SAM	11/19/24 14:20		Kareem	OK
37	CCV03	CCV03	CCV	11/19/24 14:24		Kareem	OK
38	CCB03	CCB03	CCB	11/19/24 14:28		Kareem	OK
39	P4890-02	D3617	SAM	11/19/24 14:37		Kareem	OK
40	P4890-03	D3690	SAM	11/19/24 14:41		Kareem	OK
41	P4849-02	RR-1	SAM	11/19/24 14:56		Kareem	OK
42	PB165019TB	PB165019TB	MB	11/19/24 15:00		Kareem	OK
43	P4870-13	TP-1	SAM	11/19/24 15:05		Kareem	OK
44	P4870-14	MH-735	SAM	11/19/24 15:09		Kareem	OK
45	P4870-15	MH-736	SAM	11/19/24 15:13		Kareem	OK
46	P4870-16	TP-15	SAM	11/19/24 15:18		Kareem	OK
47	P4887-02	MH-739	SAM	11/19/24 15:22		Kareem	OK
48	P4887-06	MH-760	SAM	11/19/24 15:27		Kareem	OK
49	CCV04	CCV04	CCV	11/19/24 15:31		Kareem	OK
50	CCB04	CCB04	CCB	11/19/24 15:36		Kareem	OK
51	PB164986TB	PB164986TB	MB	11/19/24 15:40	fail for Cr	Kareem	Not Ok
52	PB165049BL	PB165049BL	MB	11/19/24 15:44		Kareem	OK

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CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

53	PB165049BS	PB165049BS	LCS	11/19/24 15:49	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
54	P4892-01DL	WB-310-TOPDL	SAM	11/19/24 15:53	5x for Cr	Kareem	Confirms
55	P4341-02	10324-0	SAM	11/19/24 15:57		Kareem	OK
56	P4860-01	DUP-01	SAM	11/19/24 16:01		Kareem	OK
57	P4860-02	PH2-BOT-001	SAM	11/19/24 16:06		Kareem	OK
58	P4860-03	PH2-BOT-002	SAM	11/19/24 16:10		Kareem	OK
59	P4860-04	PH2-BOT-003	SAM	11/19/24 16:14		Kareem	OK
60	CCV05	CCV05	CCV	11/19/24 16:18		Kareem	OK
61	CCB05	CCB05	CCB	11/19/24 16:22		Kareem	OK
62	P4860-05	PH2-BOT-004	SAM	11/19/24 16:27		Kareem	OK
63	P4860-06	PH2-BOT-009	SAM	11/19/24 16:31		Kareem	OK
64	P4860-07	PH2-BOT-008	SAM	11/19/24 16:35		Kareem	OK
65	P4860-08	PH2-BOT-007	SAM	11/19/24 16:39		Kareem	OK
66	P4860-09	PH2-BOT-006	SAM	11/19/24 16:44		Kareem	OK
67	P4860-10	PH2-BOT-005	SAM	11/19/24 16:48		Kareem	OK
68	P4870-01	TP-1	SAM	11/19/24 16:52		Kareem	OK
69	P4870-04	MH-735	SAM	11/19/24 16:57		Kareem	OK
70	P4870-07	MH-736	SAM	11/19/24 17:01		Kareem	OK
71	P4870-10	TP-15	SAM	11/19/24 17:05		Kareem	OK

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Instrument ID: P4

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Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

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CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

72	CCV06	CCV06	CCV	11/19/24 17:19		Kareem	OK
73	CCB06	CCB06	CCB	11/19/24 17:24		Kareem	OK
74	PB165047BL	PB165047BL	MB	11/19/24 17:28		Kareem	OK
75	PB165047BS	PB165047BS	LCS	11/19/24 17:32		Kareem	OK
76	LR1	LR1	HIGH STD	11/19/24 17:51		Kareem	OK
77	LR2	LR2	HIGH STD	11/19/24 17:56		Kareem	OK
78	CCV07	CCV07	CCV	11/19/24 18:01		Kareem	OK
79	CCB07	CCB07	CCB	11/19/24 18:05		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : P4736

Test : Mercury,Metals ICP-Group1

Prepbatch ID : PB164759,PB164872,

Sequence ID/Qc Batch ID: LB133365,LB133365,LB133392,LB133524,

Standard ID :

MP73080,MP82127,MP83078,MP83079,MP83080,MP83081,MP83082,MP83083,MP83084,MP83085,MP83086,MP830
87,MP83088,MP83091,MP83092,MP83191,MP83192,MP83193,MP83194,MP83195,MP83196,MP83198,MP83199,MP
831MP831MP831MP831MP831MP8317,MP83200,MP83201,MP83202,MP83203,MP83205,

Chemical ID :

M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5394,M5404,M5429,M5467,M5498,M5515,M5658
,M5697,M5698,M5747,M5748,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5814,M5815,M5816,M5817,M581
8,M5819,M5820,M5875,M5882,M5953,M5962,M5970,M5978,M5982,M5984,M5985,M6000,M6009,M6021,M6023,M60
28,M6030,M6033,M6040,M6111,M6116,M6117,M6118,M6119,W2606,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP73080	12/27/2022	01/08/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/28/2022

FROM 200.00000ml of M5404 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP82127	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1250.00000ml of M6040 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83078	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP83079	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

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 MP83078 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP83080	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 50.00000ml of MP83078 + 50.00000ml of MP83079 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP83081	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 25.00000ml of MP83079 + 75.00000ml of MP83078 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP83082	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 16.00000ml of MP83079 + 184.00000ml of MP83078 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP83083	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 2.00000ml of M5816 + 2.00000ml of M5818 + 77.68000ml of MP83078 = Final Quantity: 100.000 ml

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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	MP83084	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 2.00000ml of MP83083 + 98.00000ml of MP83078 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP83085	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.25000ml of M5218 + 0.25000ml of M5982 + 10.00000ml of M5295 + 89.77500ml of MP83078 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83086	11/06/2024	11/19/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP83078 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP83087	11/06/2024	11/19/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5296 + 0.10000ml of M5970 + 1.00000ml of M5982 + 10.00000ml of M5130 + 10.00000ml of M5223 + 79.50000ml of MP83078 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP83088	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 50.00000ml of MP83078 + 50.00000ml of MP83079 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83091	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6117 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83092	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 200.00000ml of M6117 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83191	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 1.00000ml of M6119 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83192	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83193	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 247.30000ml of W3112 + 0.20000ml of MP83191 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP83194	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 245.00000ml of W3112 + 2.50000ml of MP83191 = 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	MP83195	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 242.50000ml of W3112 + 5.00000ml of MP83191 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP83196	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 240.00000ml of W3112 + 7.50000ml of MP83191 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP83198	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6119 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83199	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83200	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 485.00000ml of W3112 + 10.00000ml of MP83191 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83201	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6119 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP83202	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 247.30000ml of W3112 + 0.20000ml of MP83191 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP83203	11/11/2024	11/12/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 11/11/2024

FROM 2.50000ml of M6119 + 240.50000ml of W3112 + 7.00000ml of MP83191 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP83205	11/11/2024	11/12/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6118 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	11/19/2024	05/20/2024 /	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	02/20/2020 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	11/28/2022 / bin	09/19/2022 / bin	M5394

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22C0462001	06/12/2023	12/20/2022 / Al-Terek	02/11/2022 / Al-Terek	M5404

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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

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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

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

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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 #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/30/2026	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6000

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	01/25/2019 / Jaswal	M6028

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 /	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6118

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6119

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

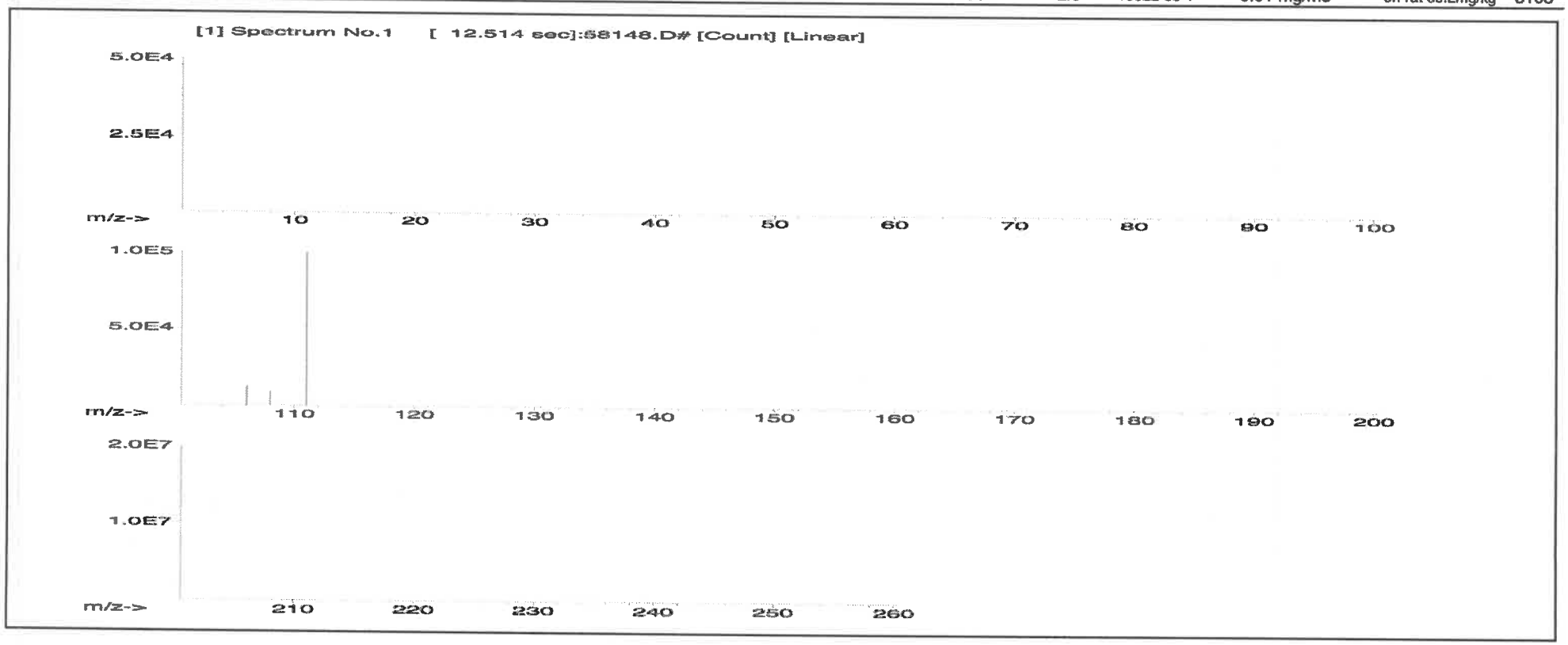
CERTIFIED WEIGHT REPORT:

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

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

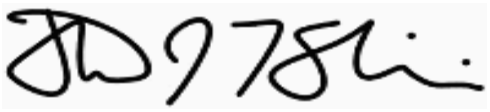
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- 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

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

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

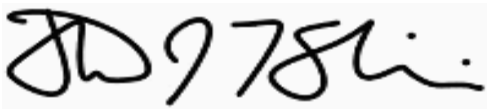
- Sealed TCT Bag Open Date: _____

- 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



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Certificate of Analysis

RD:05/14/2024

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1.0 ACCREDITATION / REGISTRATION

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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

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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



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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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:

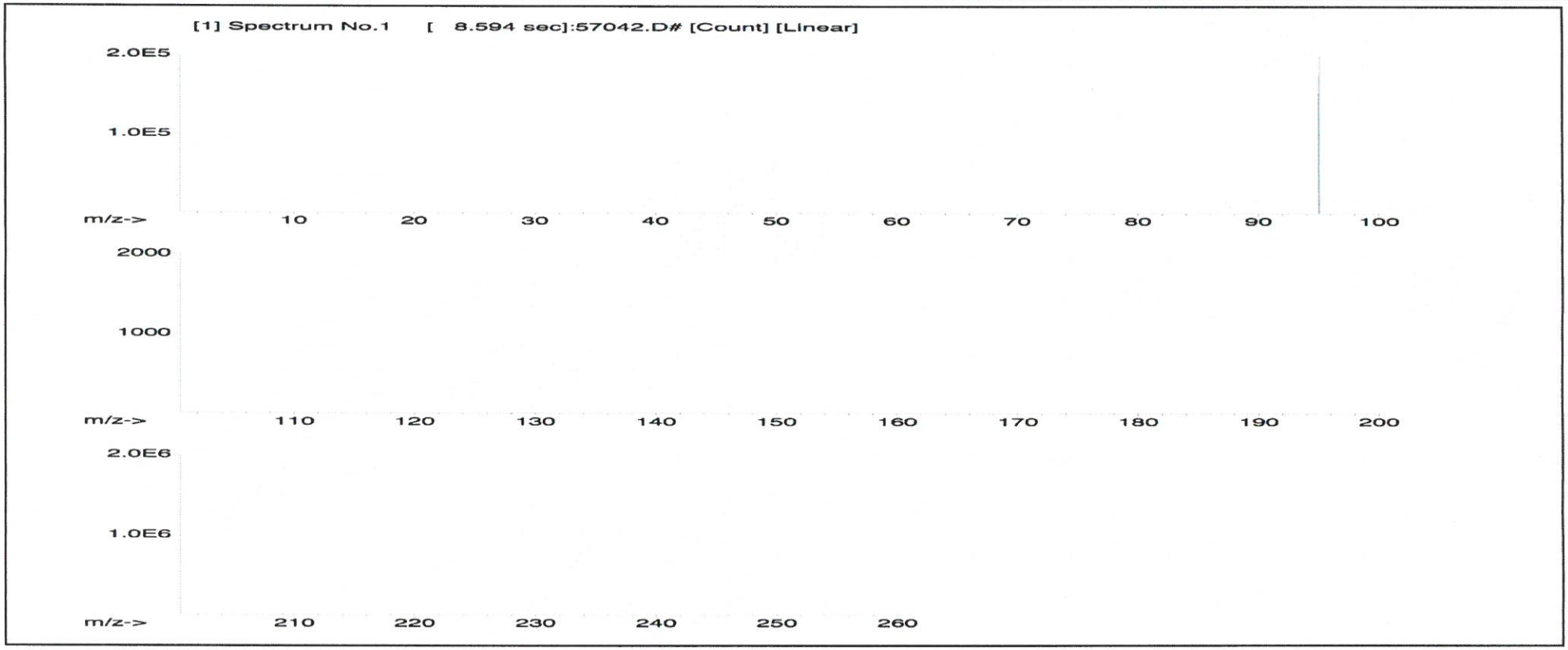
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	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)

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CERTIFIED WEIGHT REPORT:

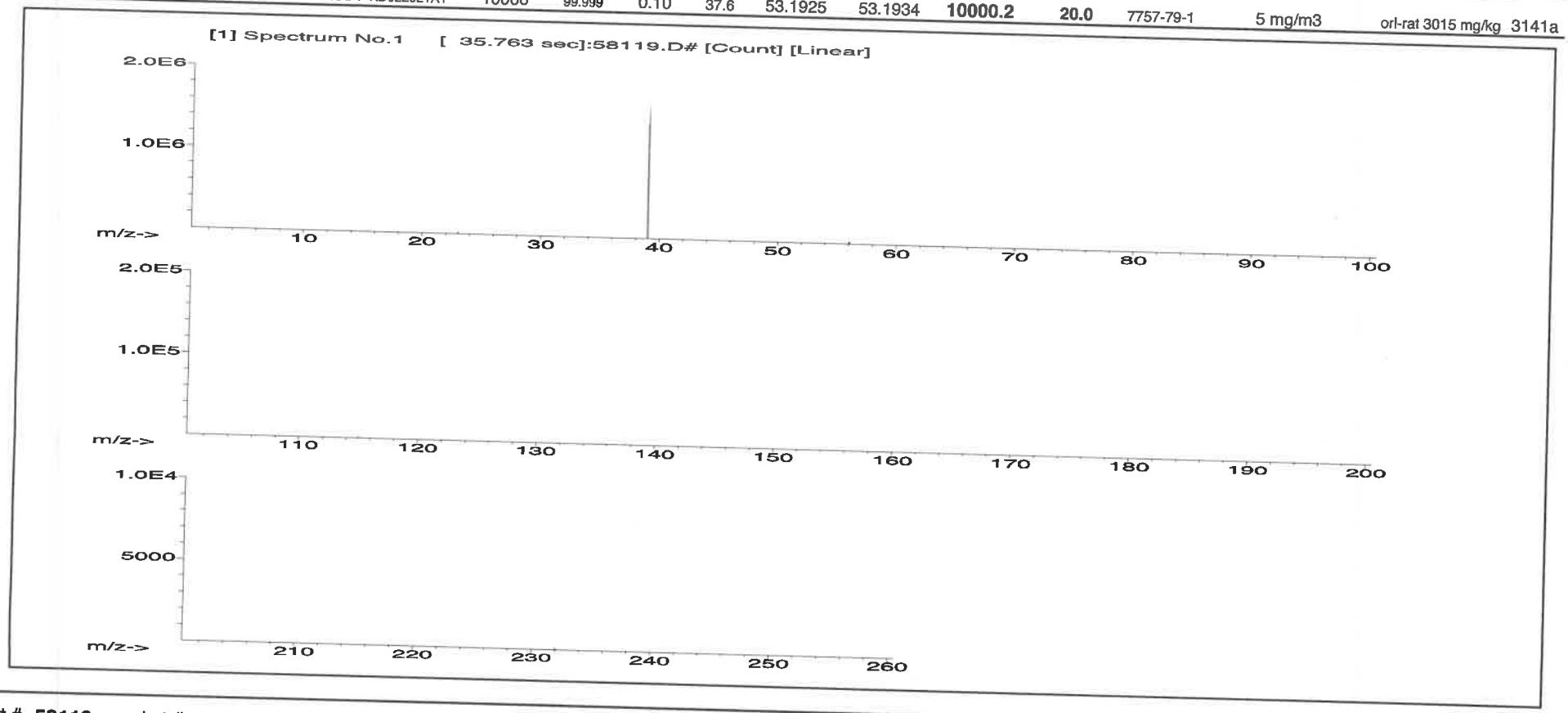
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

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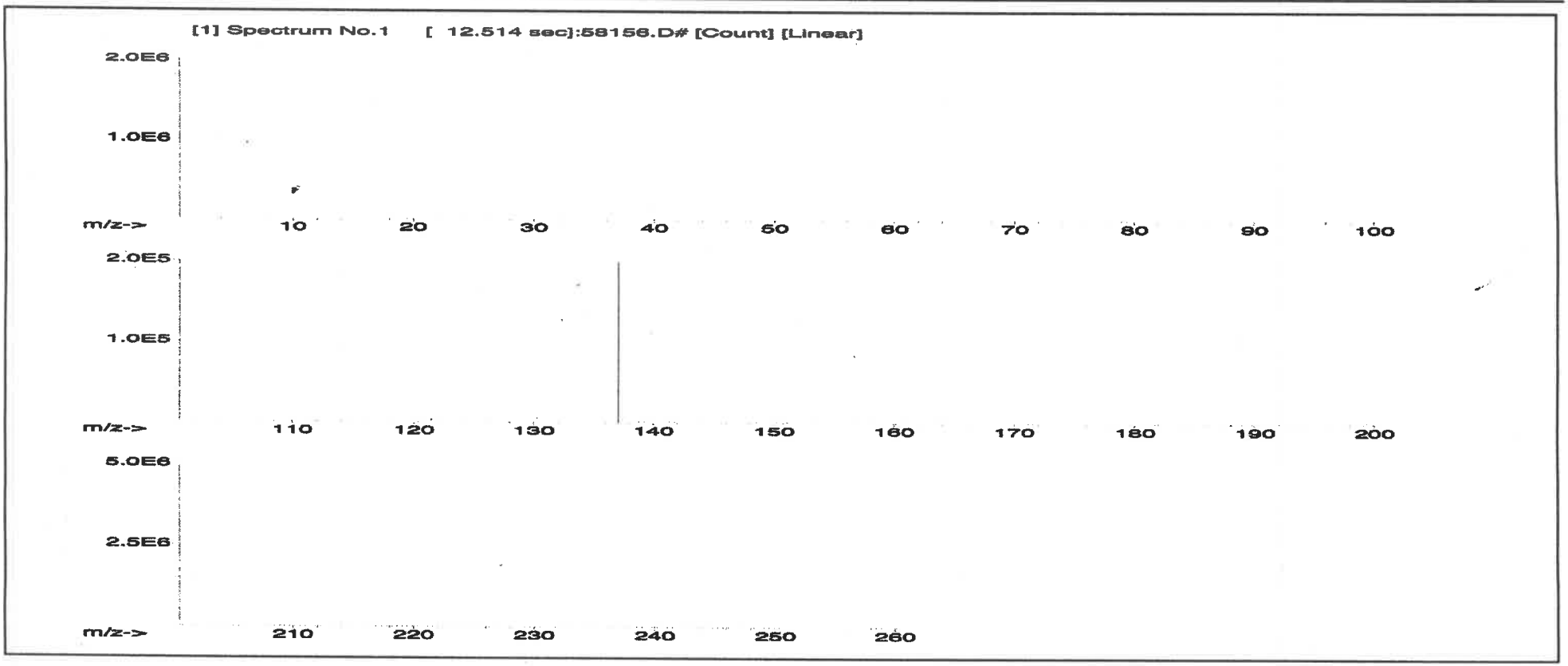
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Nitric Acid
CMOS

M5402 M5403 M5404
M5405 M5406 M5407

Material No.: 9606-03
Batch No.: 22C0462001
Manufactured Date: 2022-02-11
Retest Date: 2027-02-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.4 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	1.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	1.7 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 22C0462001

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	7 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	2 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 22C0462001

Test	Specification	Result

For Microelectronic Use
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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Certified Reference Material CRM

M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

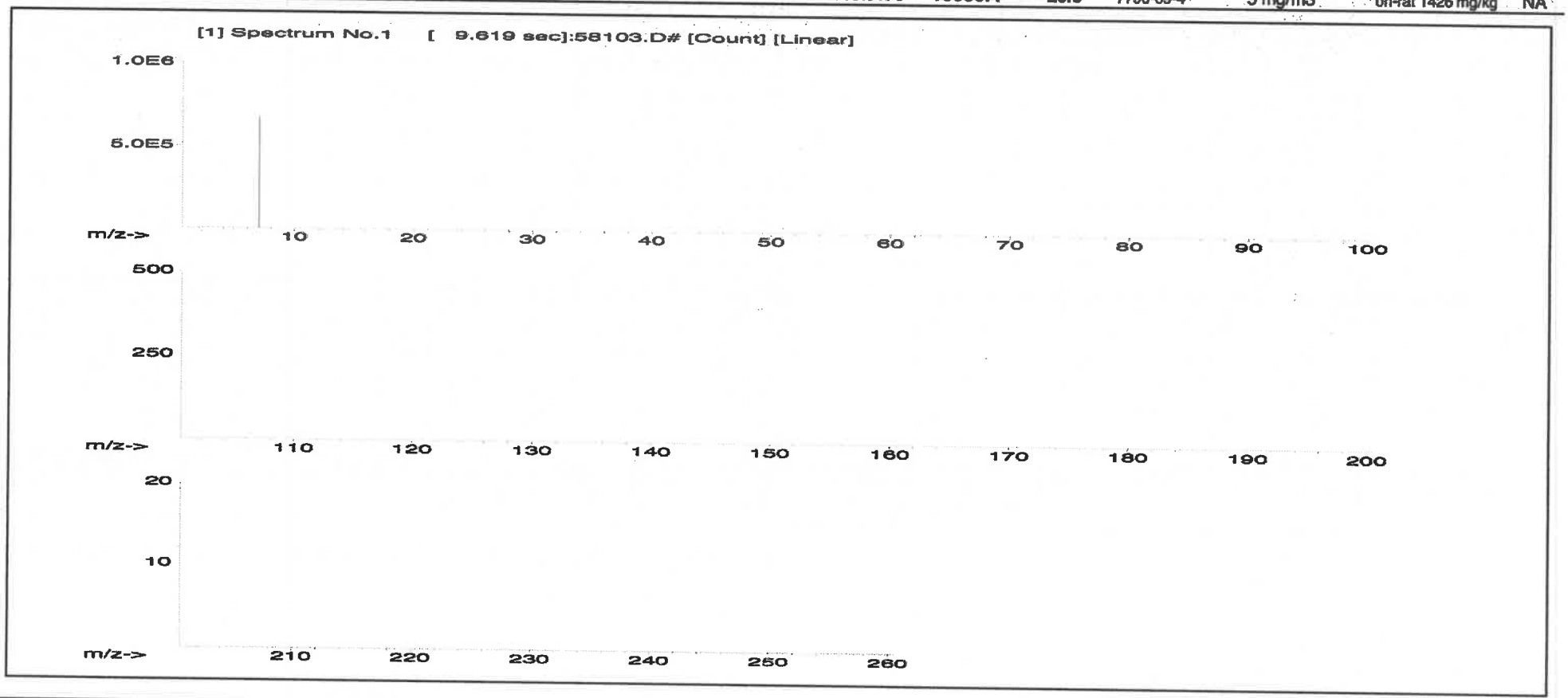
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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

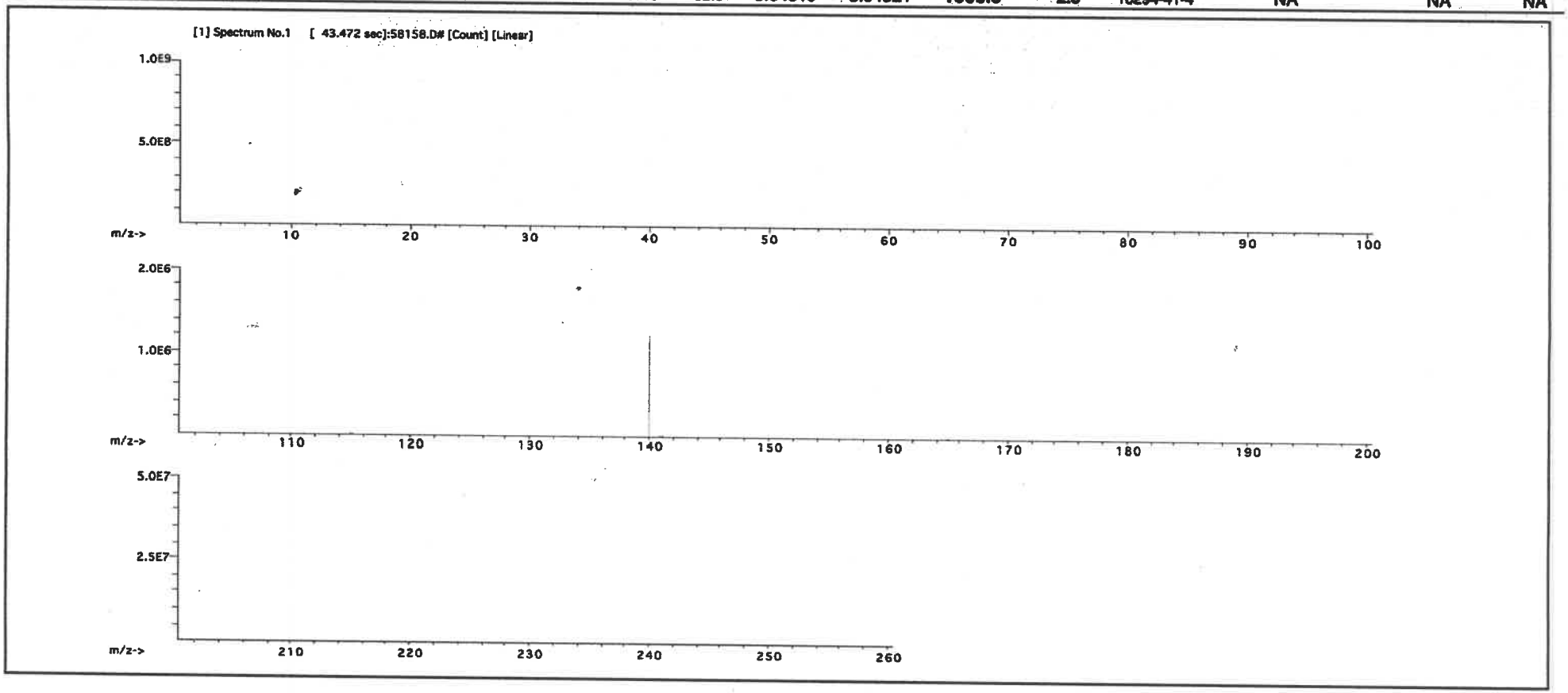
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

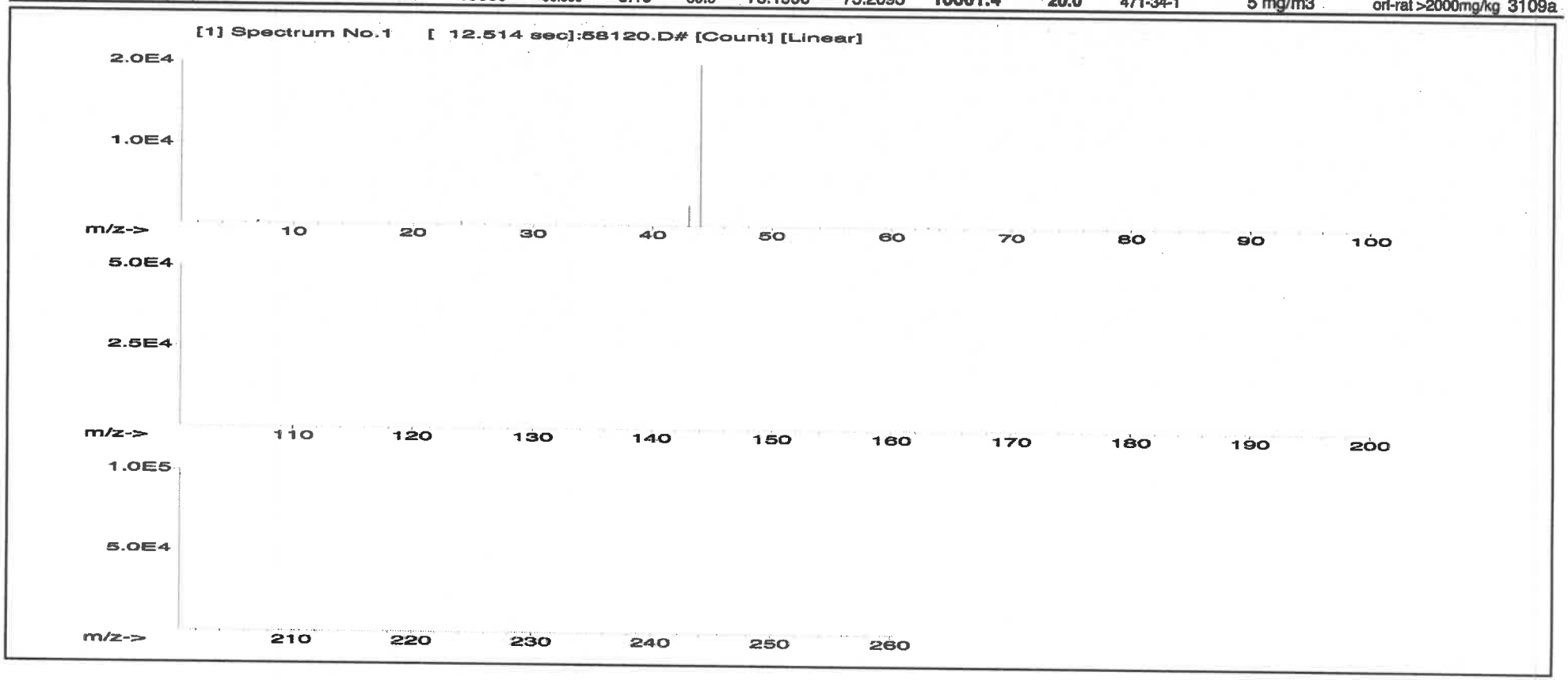
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5514 - M5515 R: 03/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

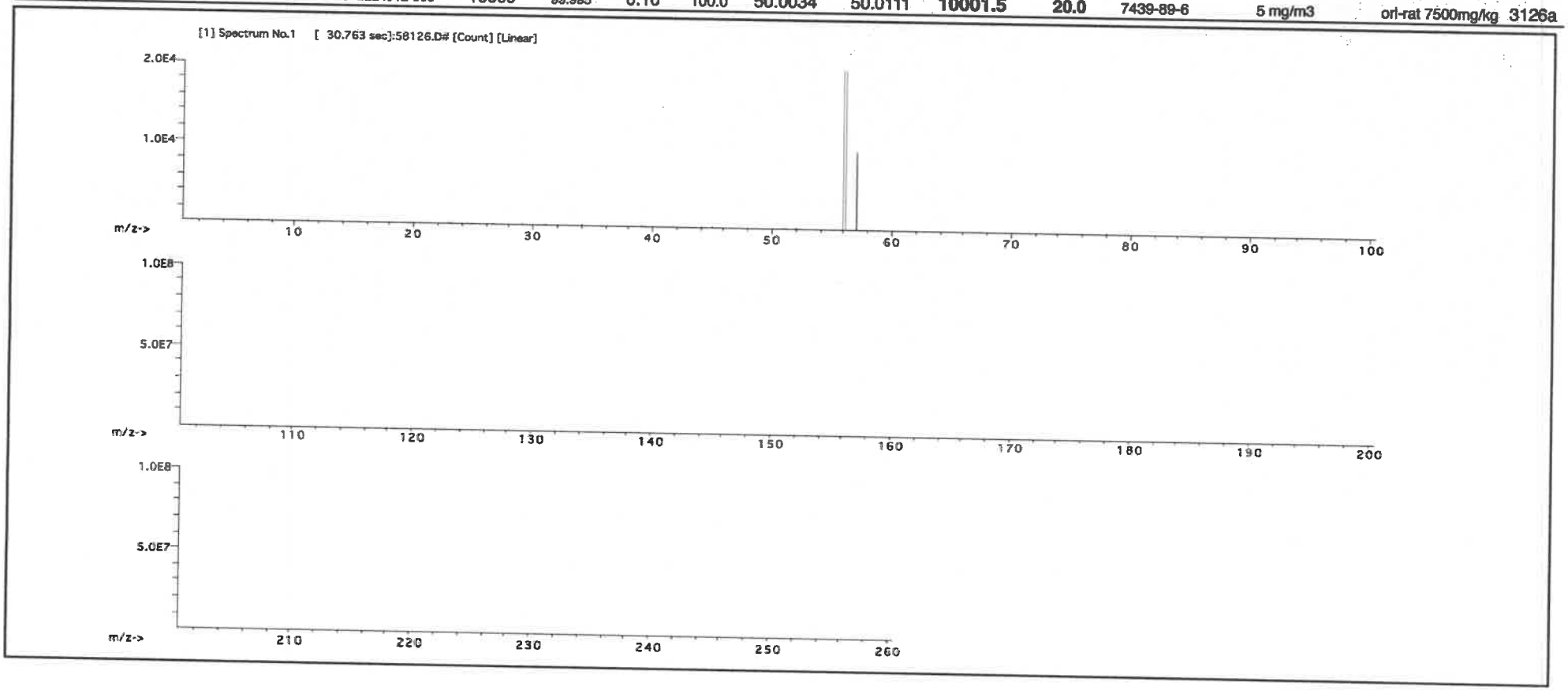
Giovanni Esposito

Formulated By: Giovanni Esposito 092122

Pedro Rentas

Reviewed By: Pedro L. Rentas 092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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M5658 R ! 8/25/23

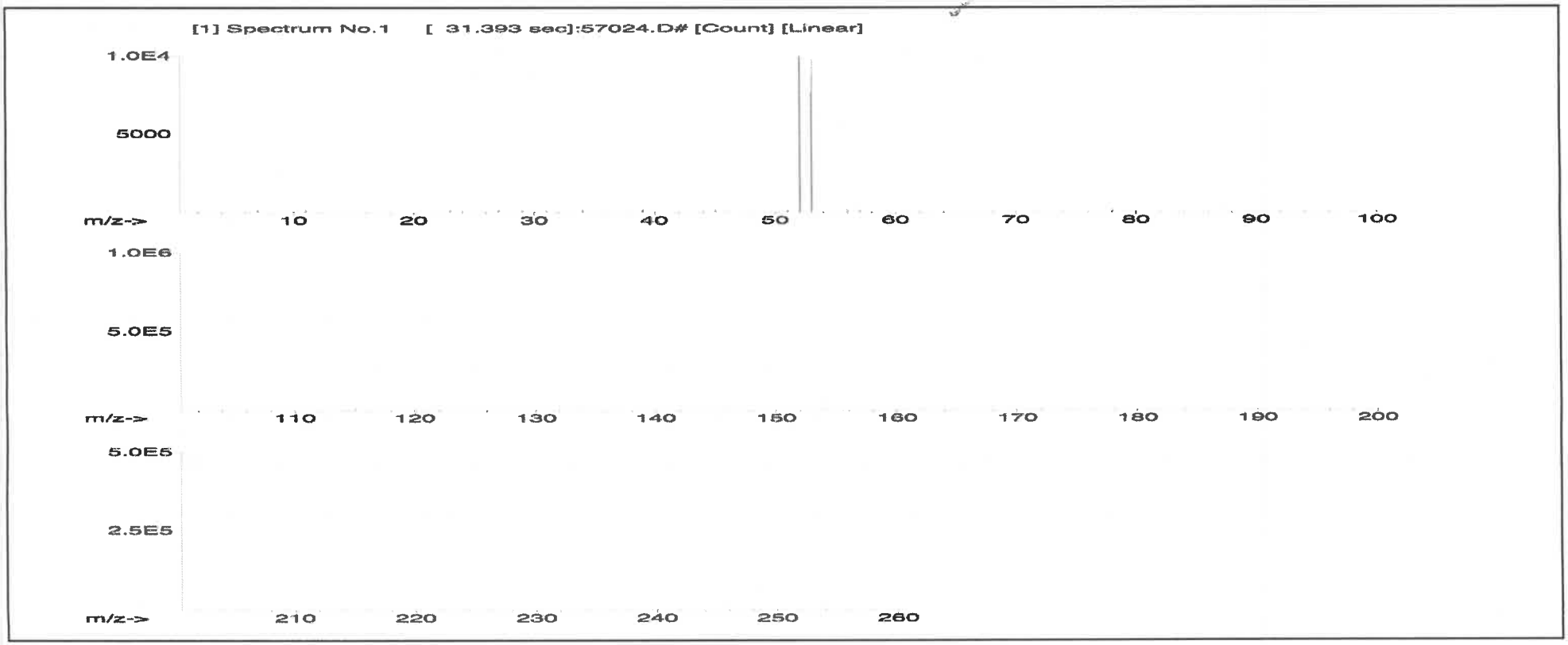
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5697 R: 10/27/23

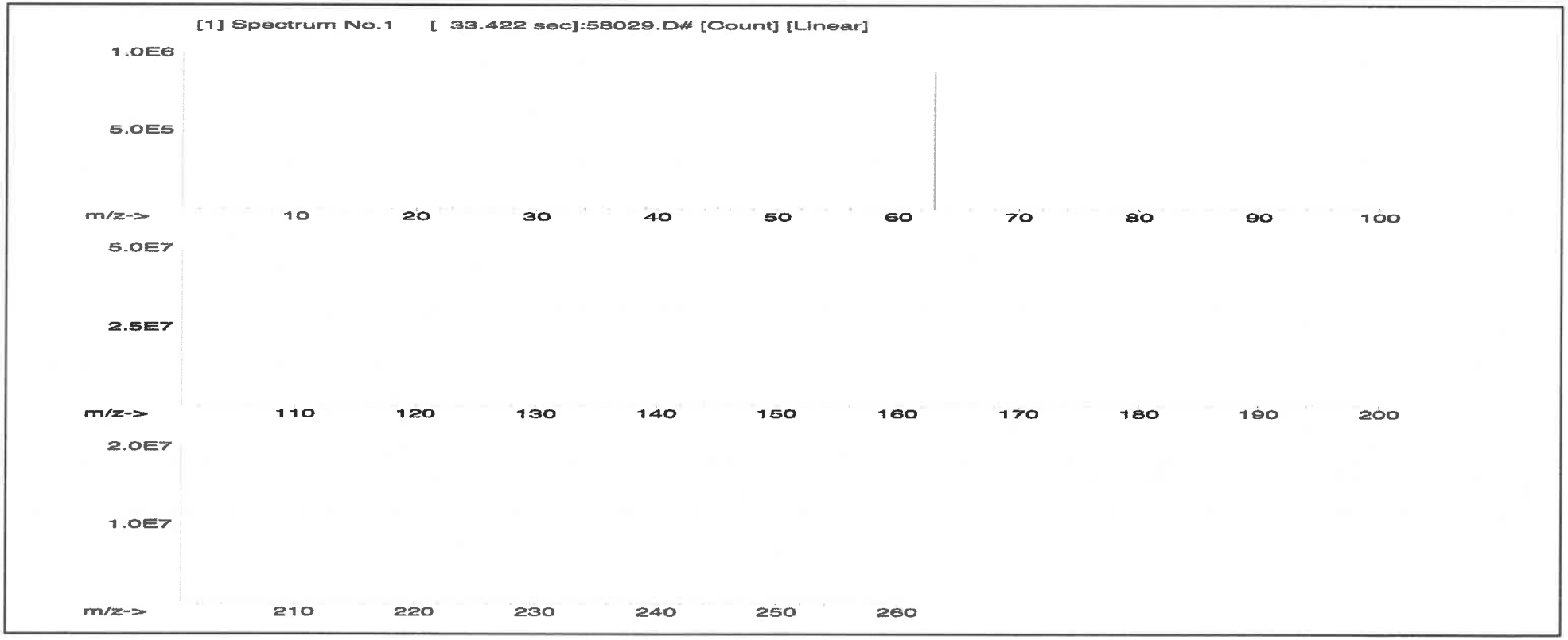
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5648 R: 10/27/23

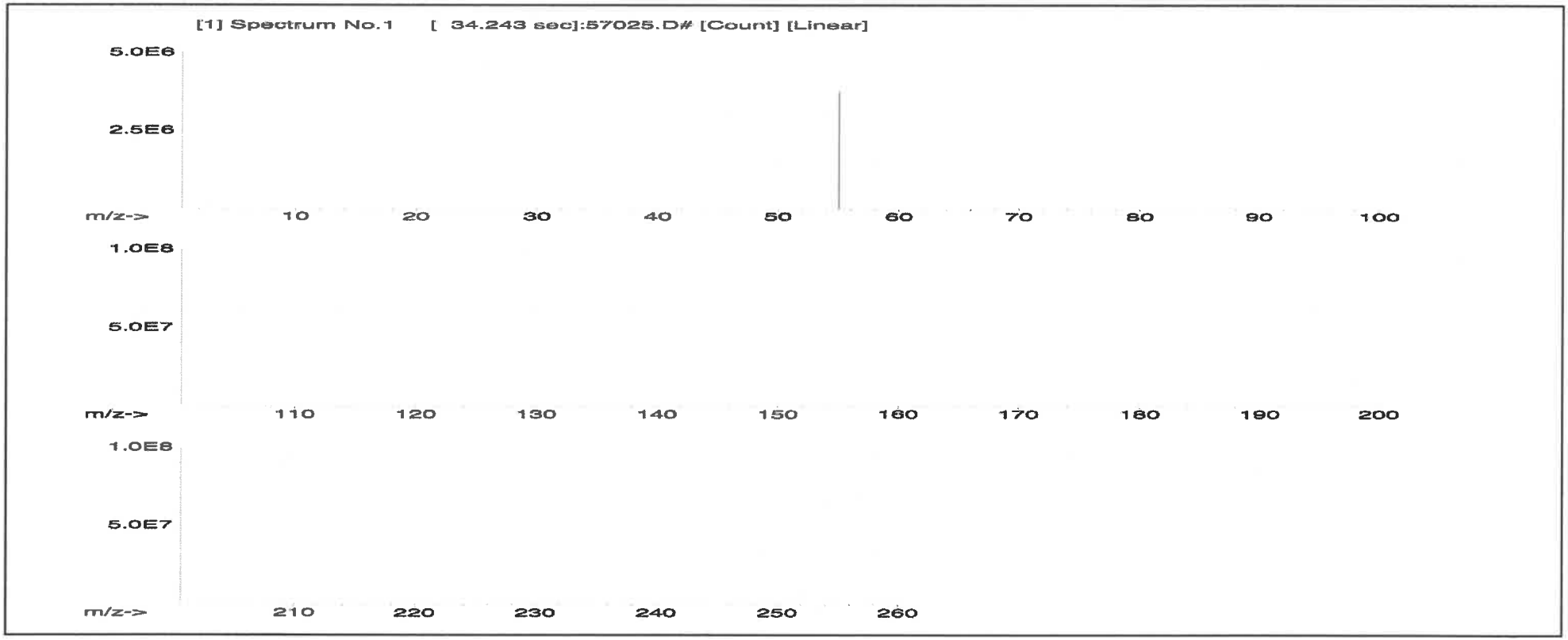
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

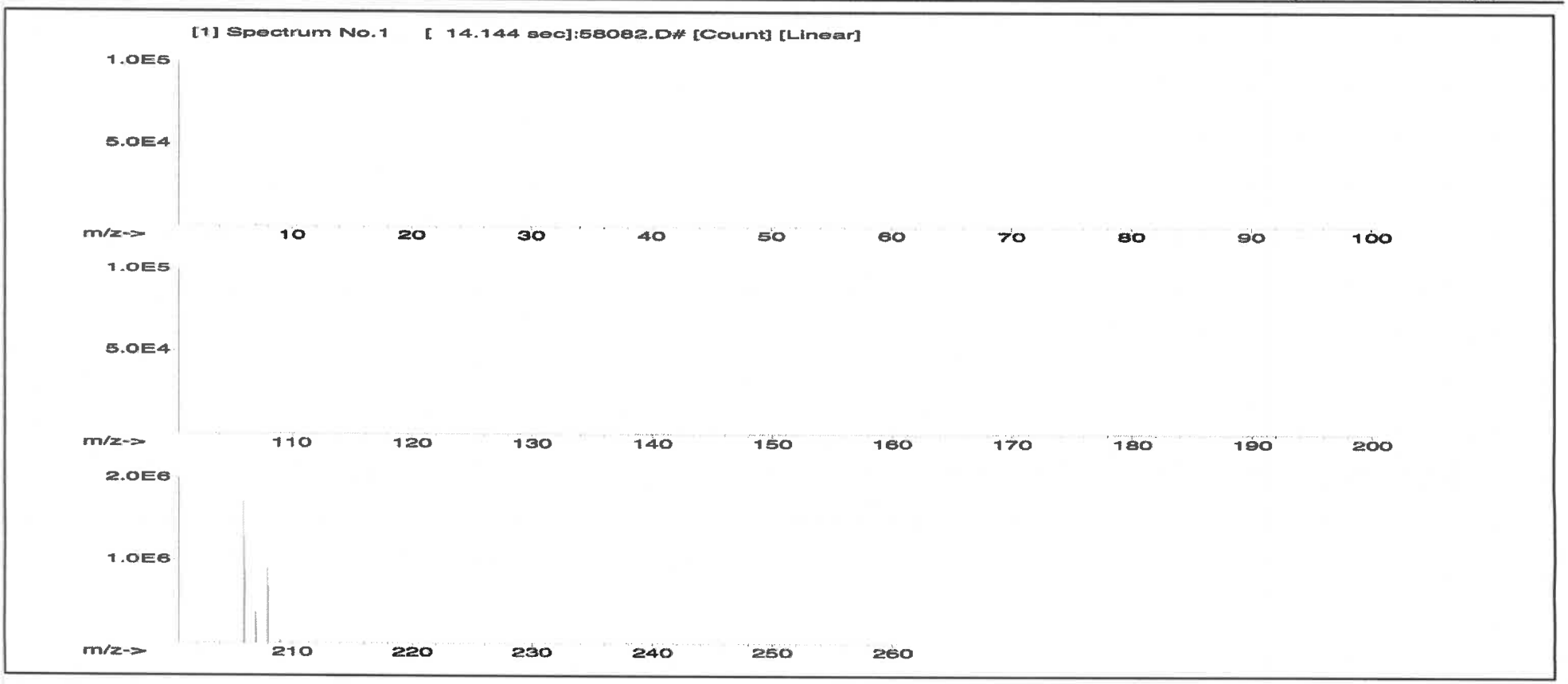
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5748

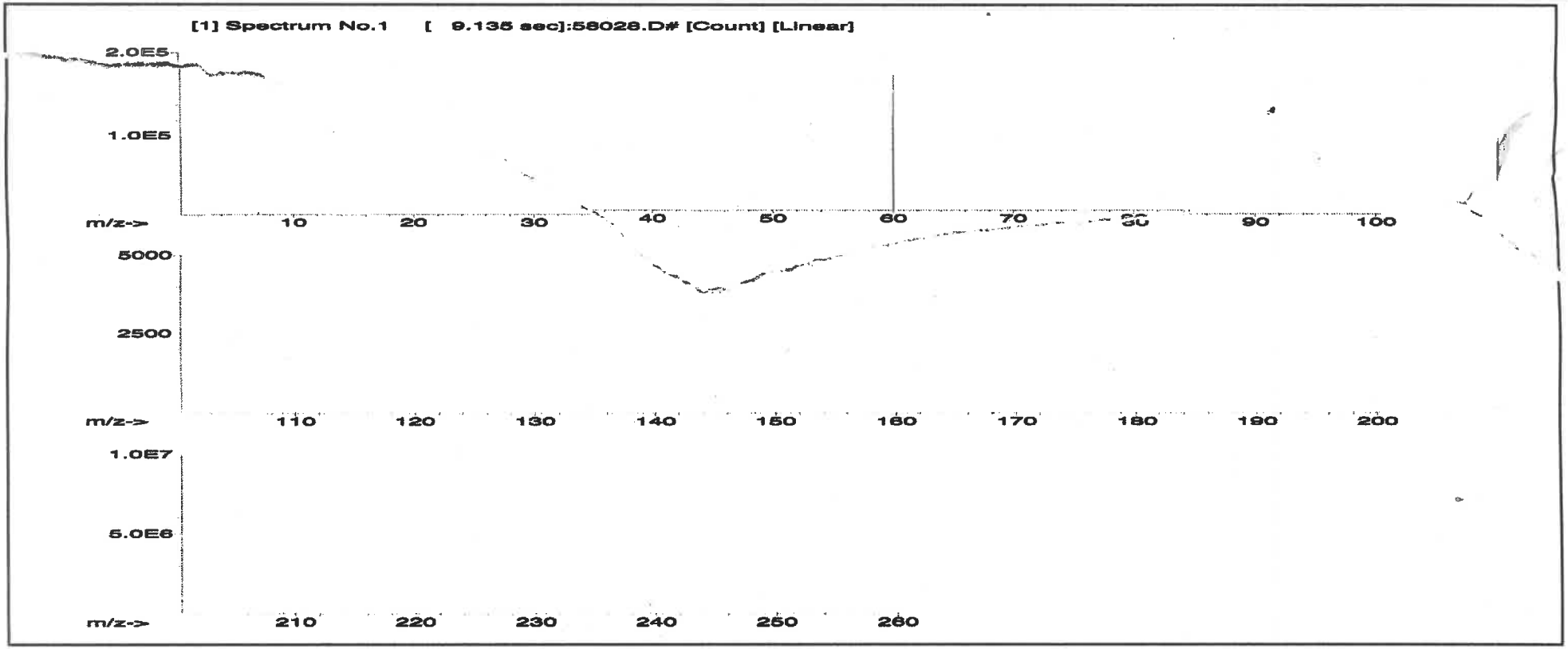
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

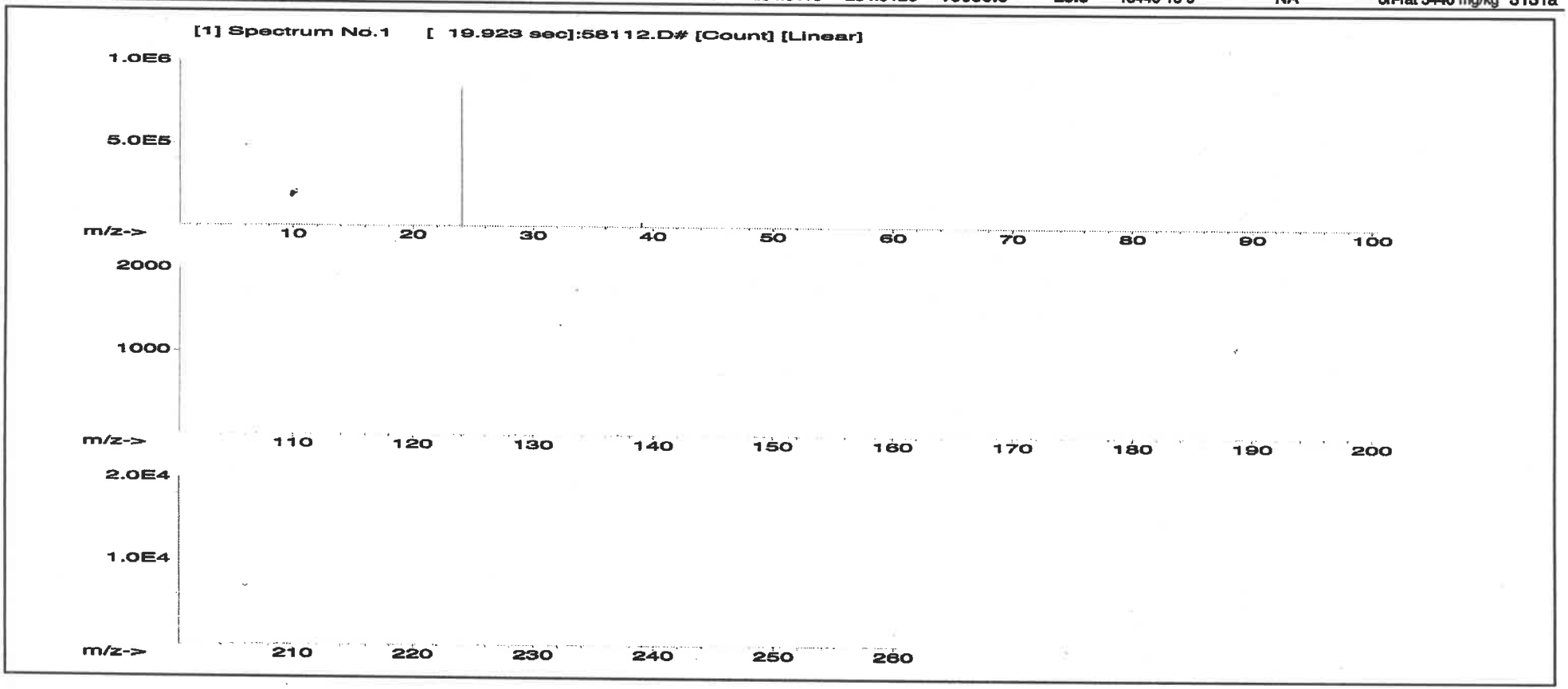
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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R: 02/09/24 M5798

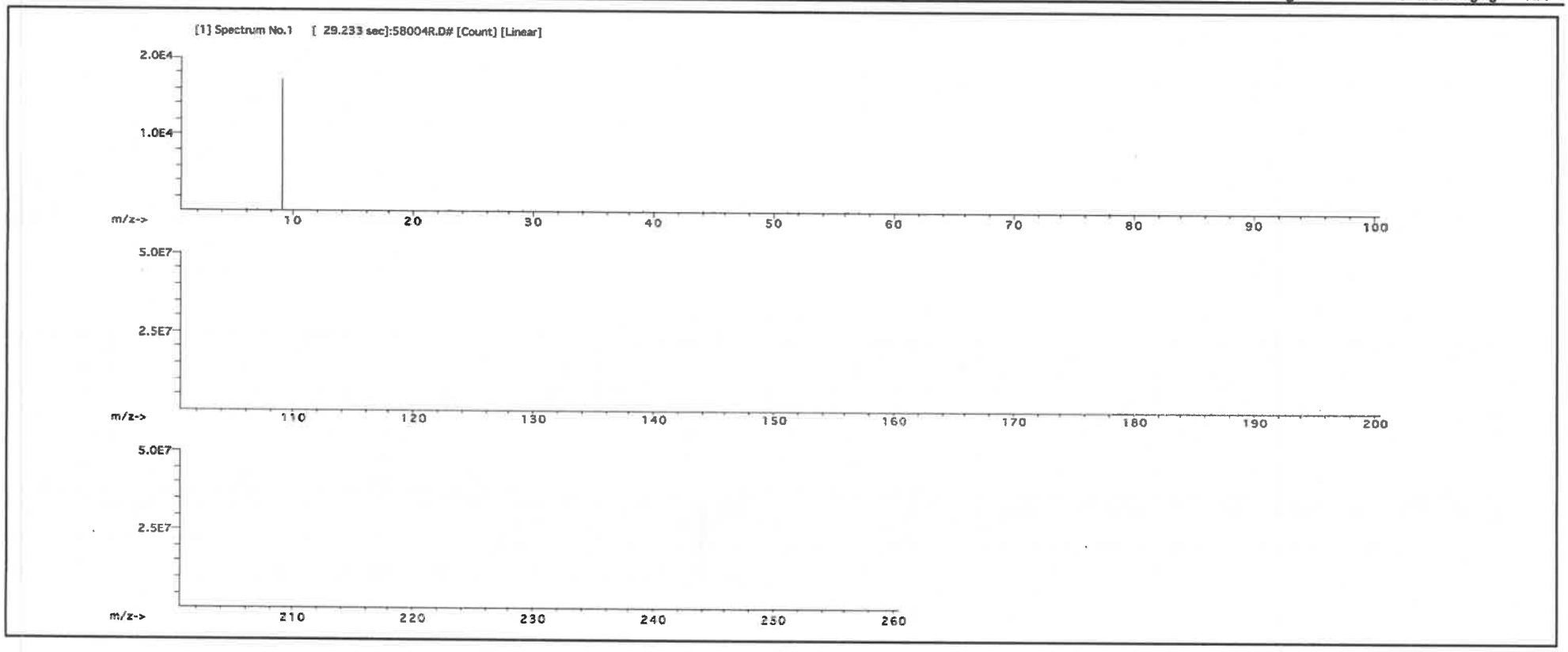
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

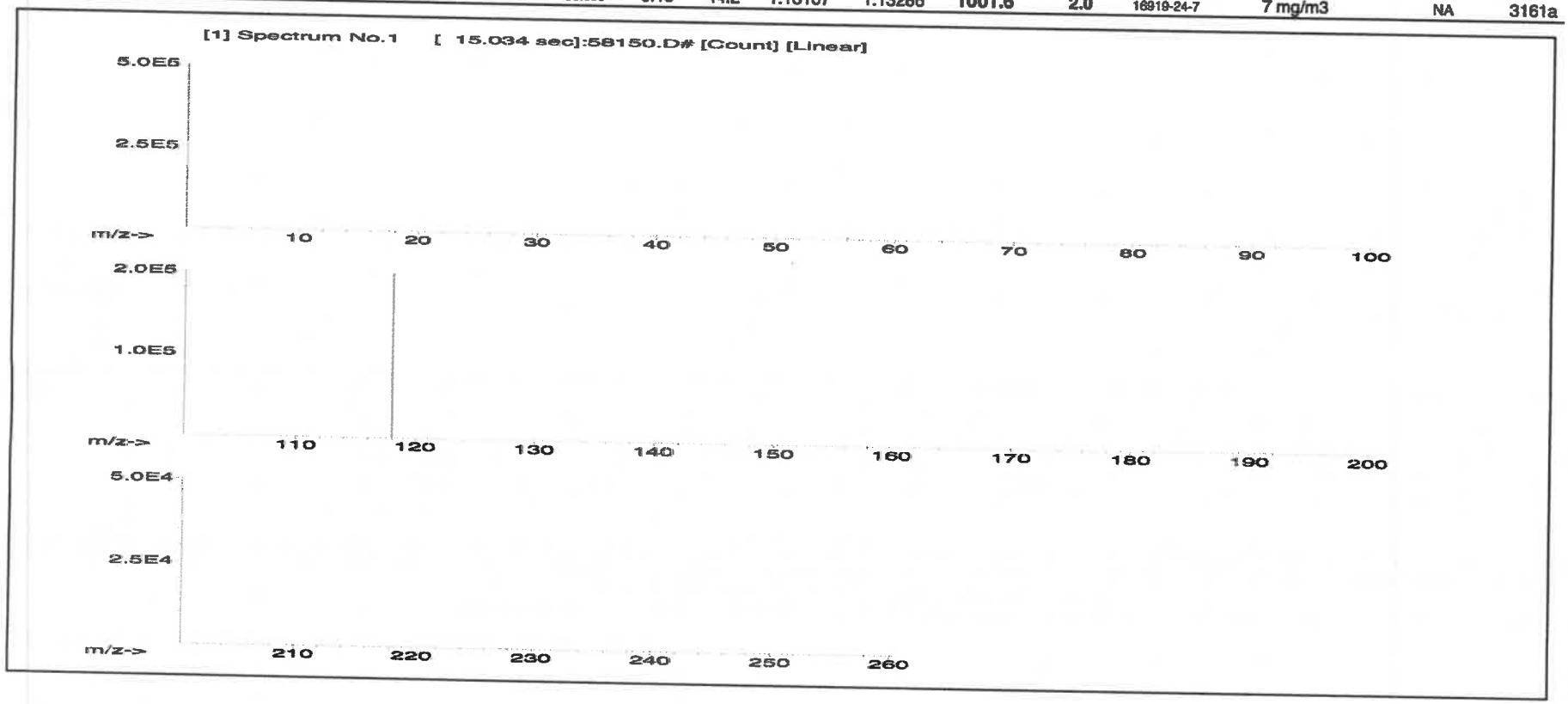
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 IM5800 BH

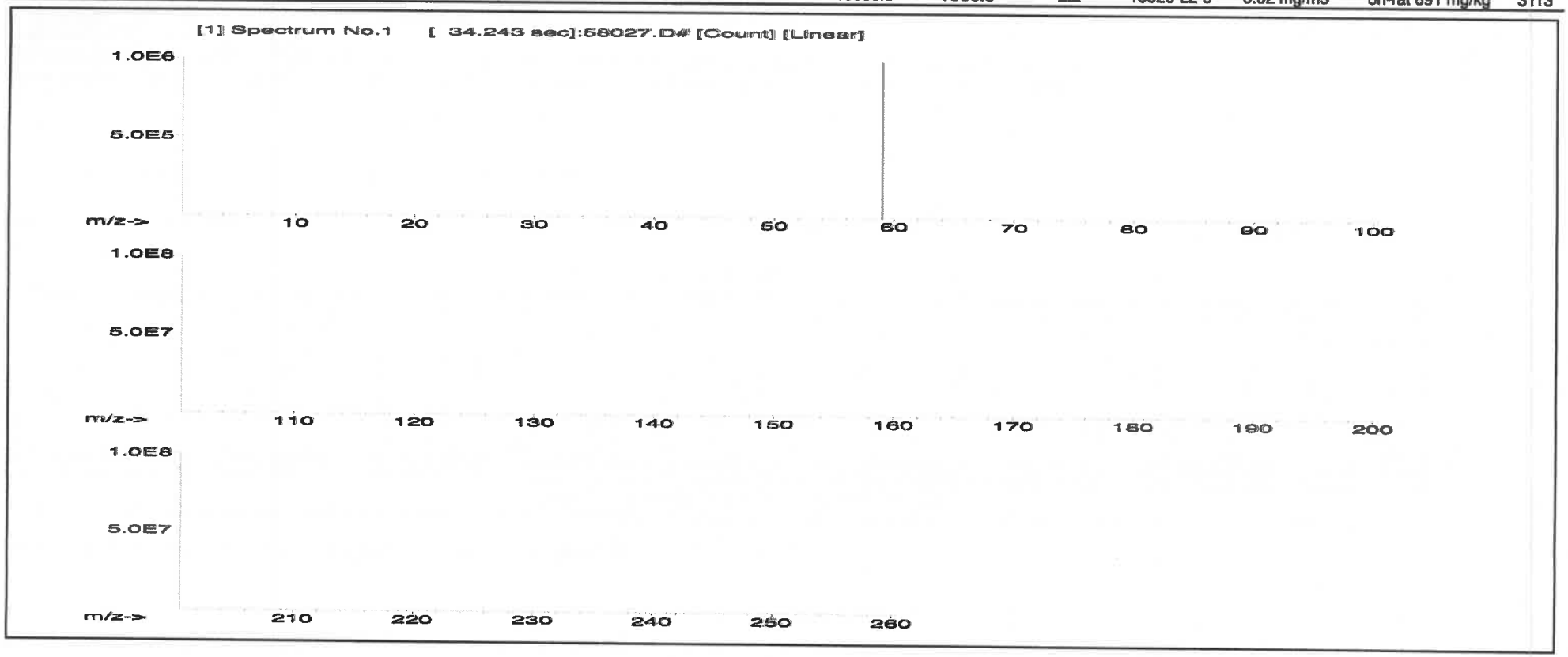
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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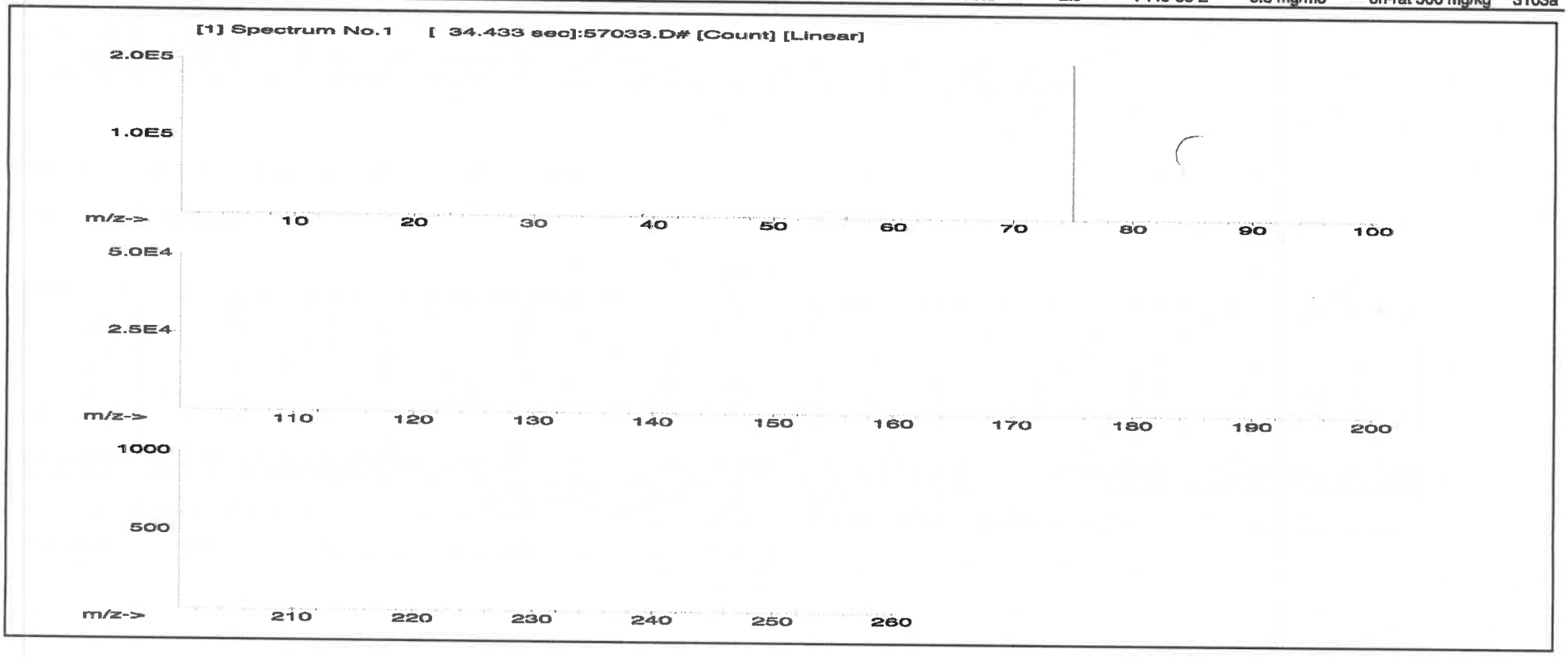
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AR-1539 Certificate Number
https://Absolutestandards.com

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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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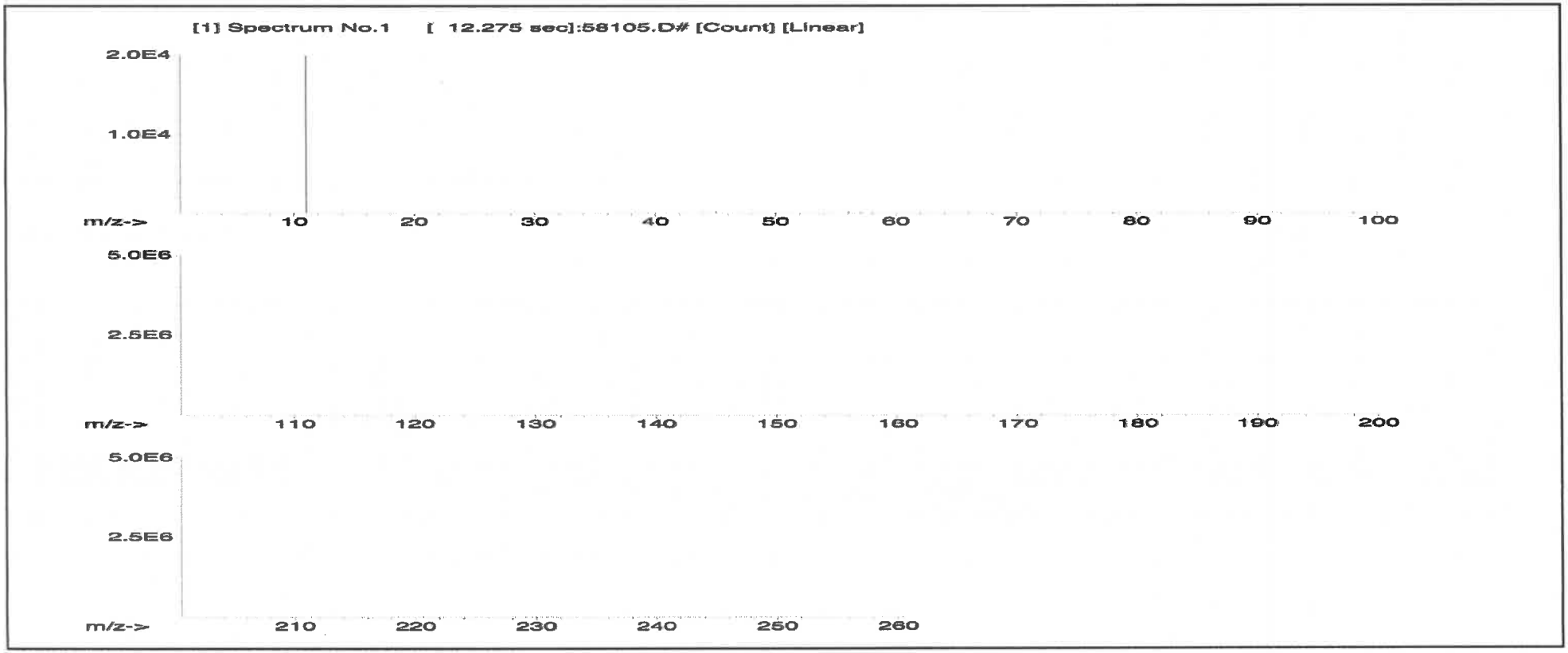
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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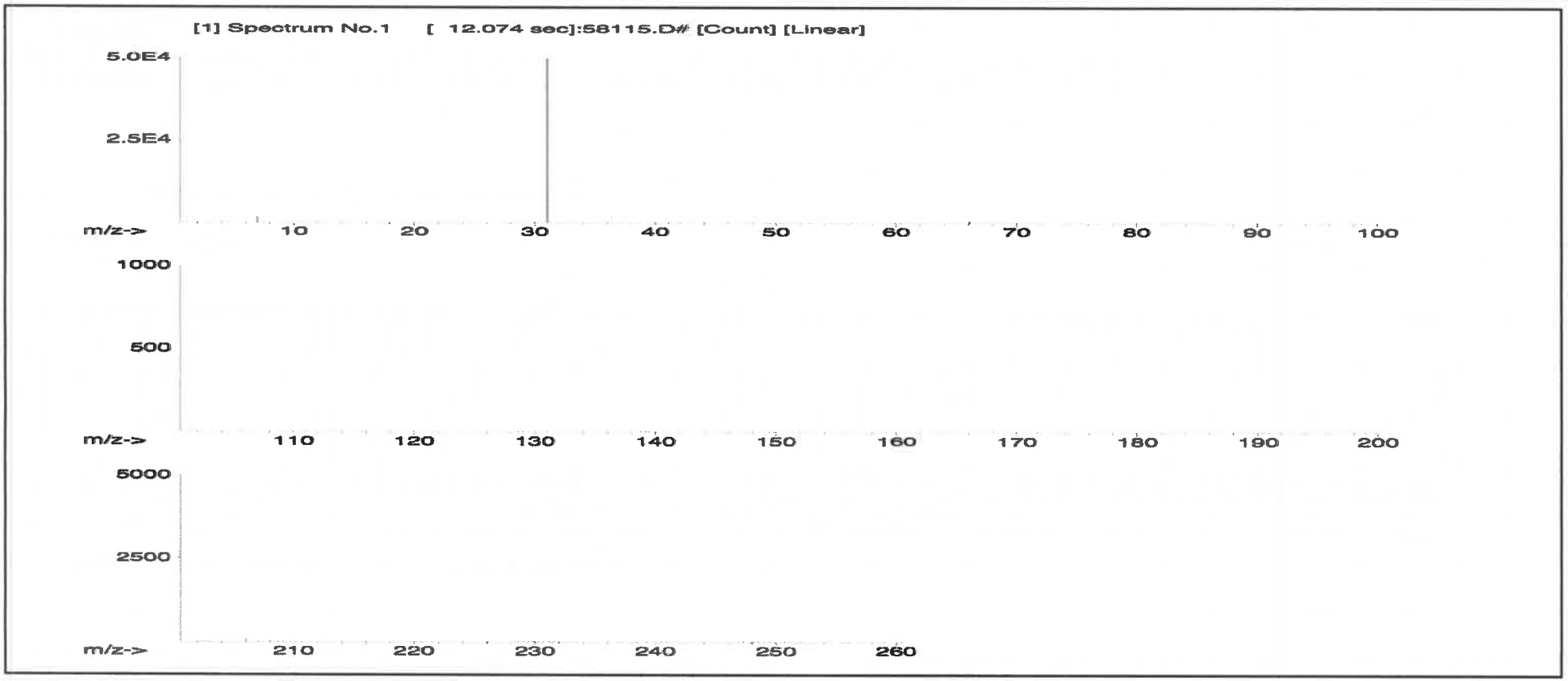
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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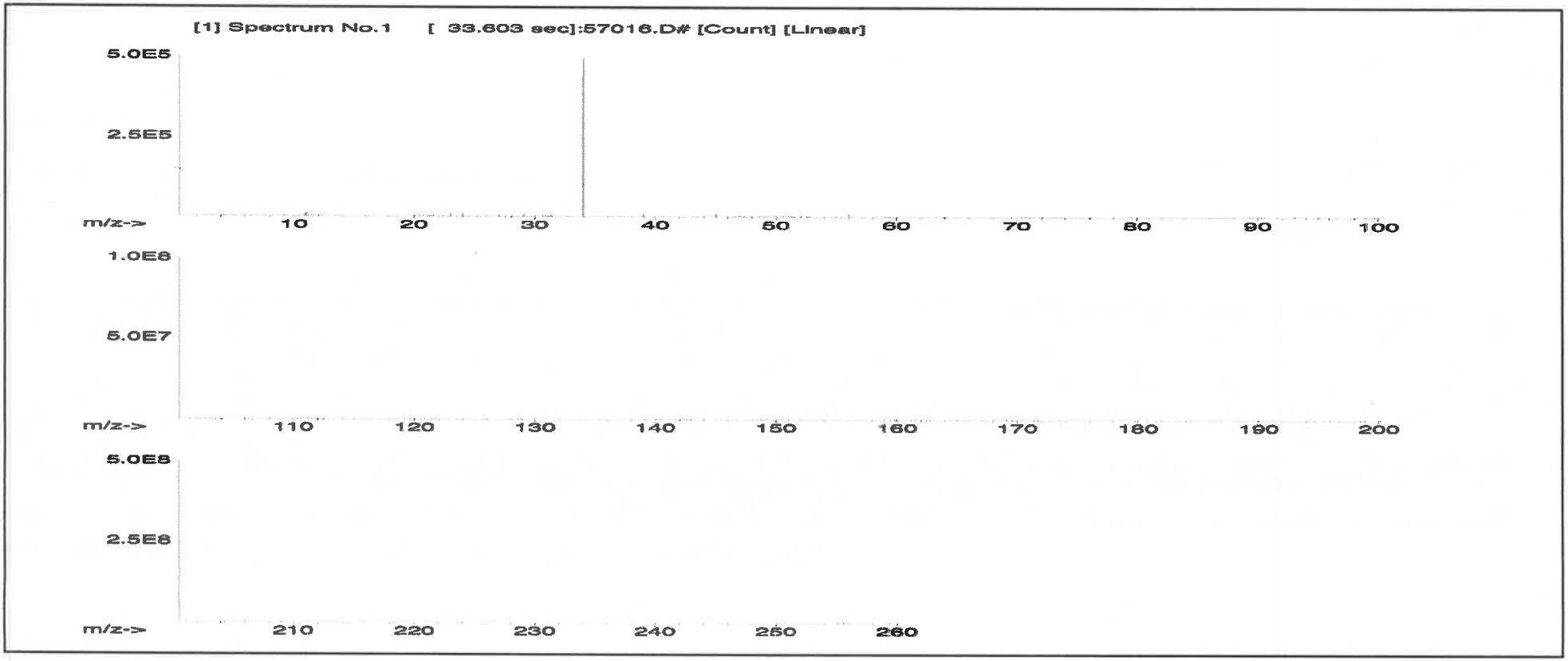
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

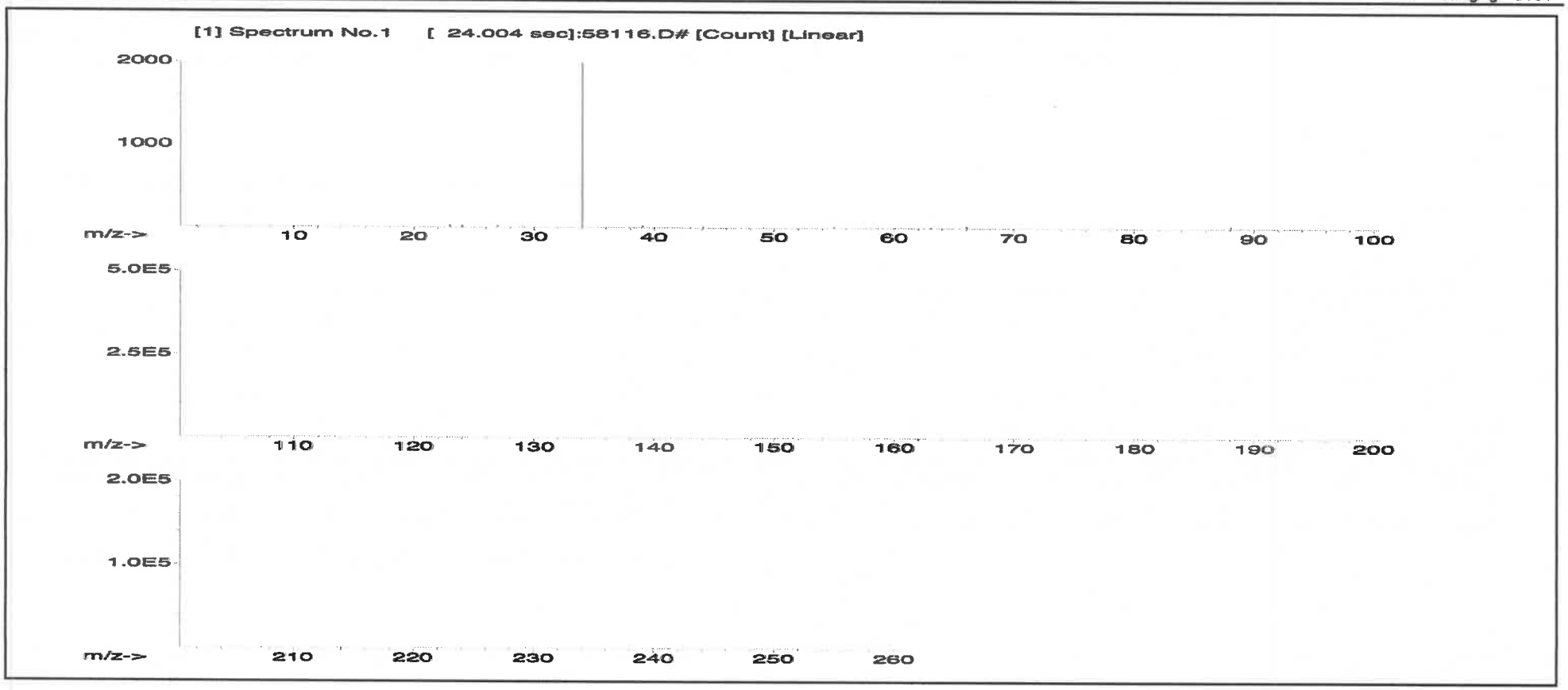
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 ± 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

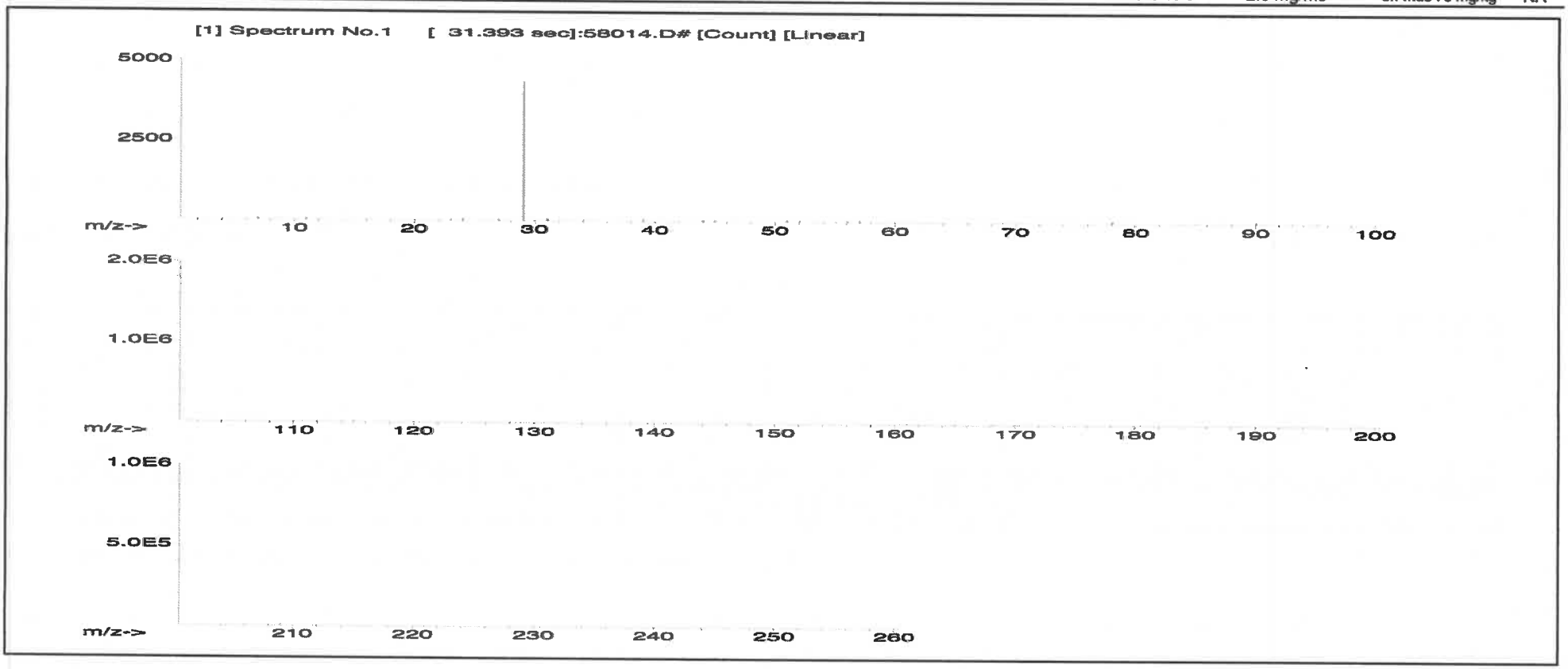
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 02/09/24 M5819

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

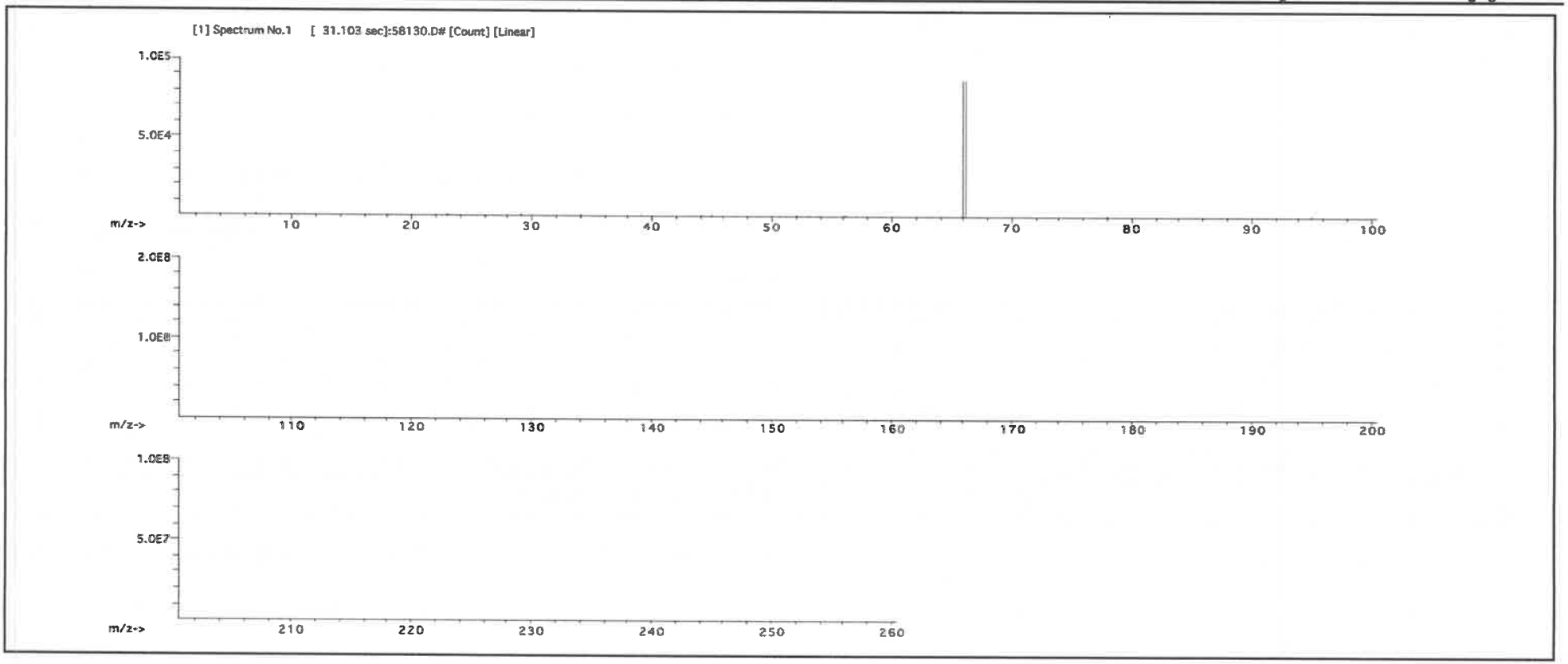
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #		
Solvent:	24002546	Nitric Acid		
	2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5820

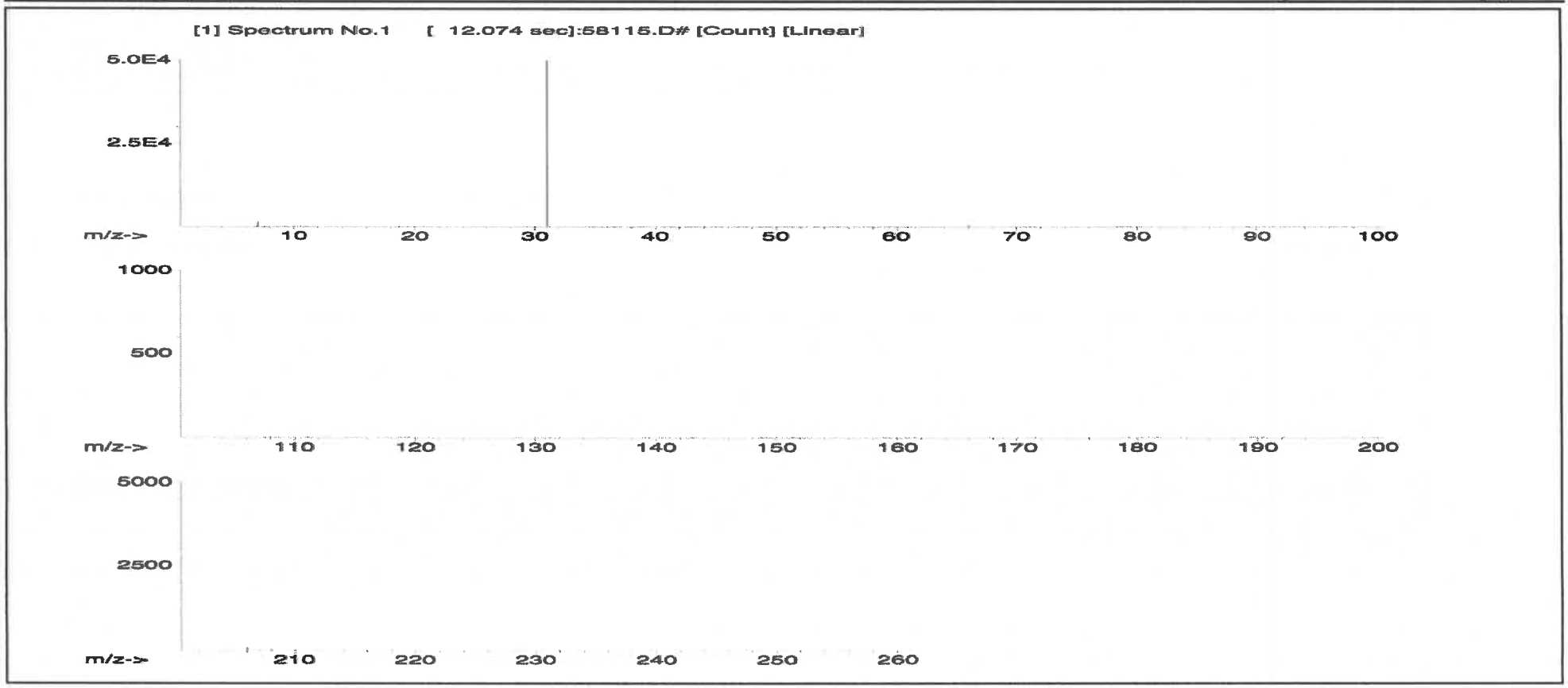
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

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Certified Reference Material CRM

M5962 R! 06/14/24.

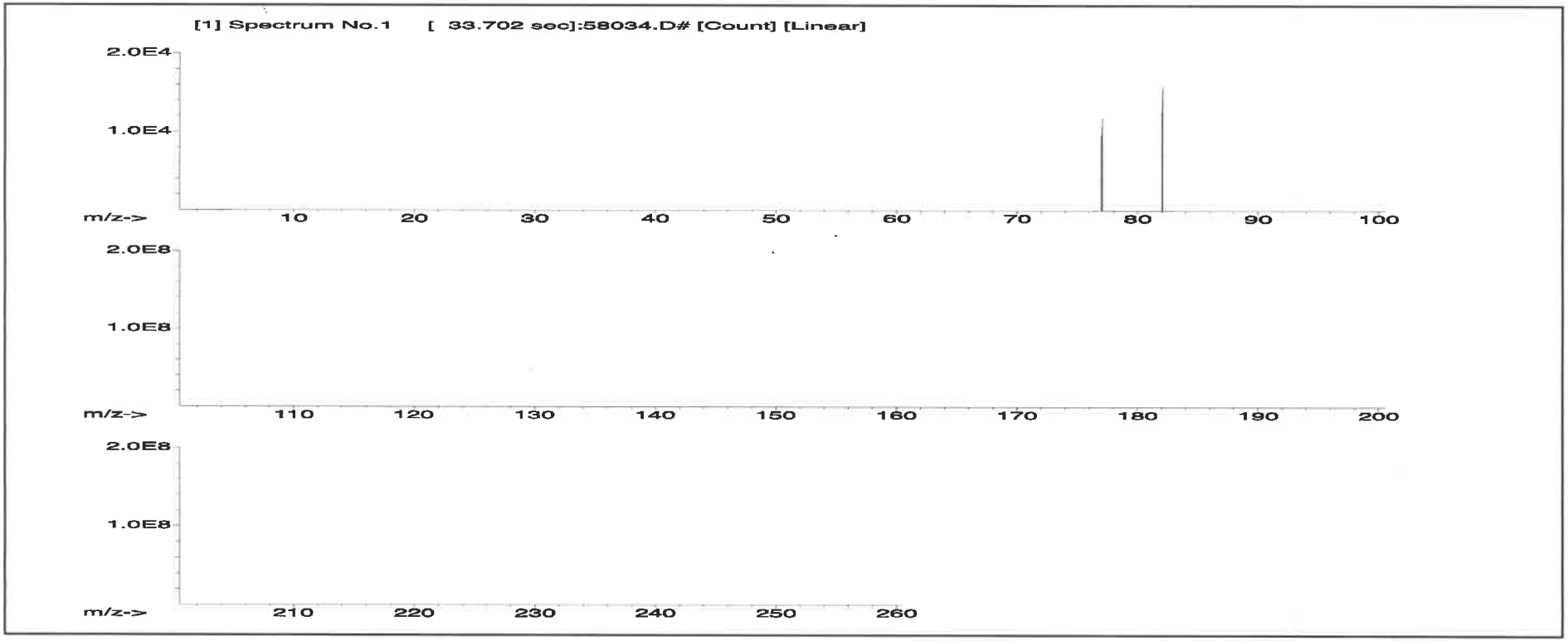
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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https://Absolutestandards.com

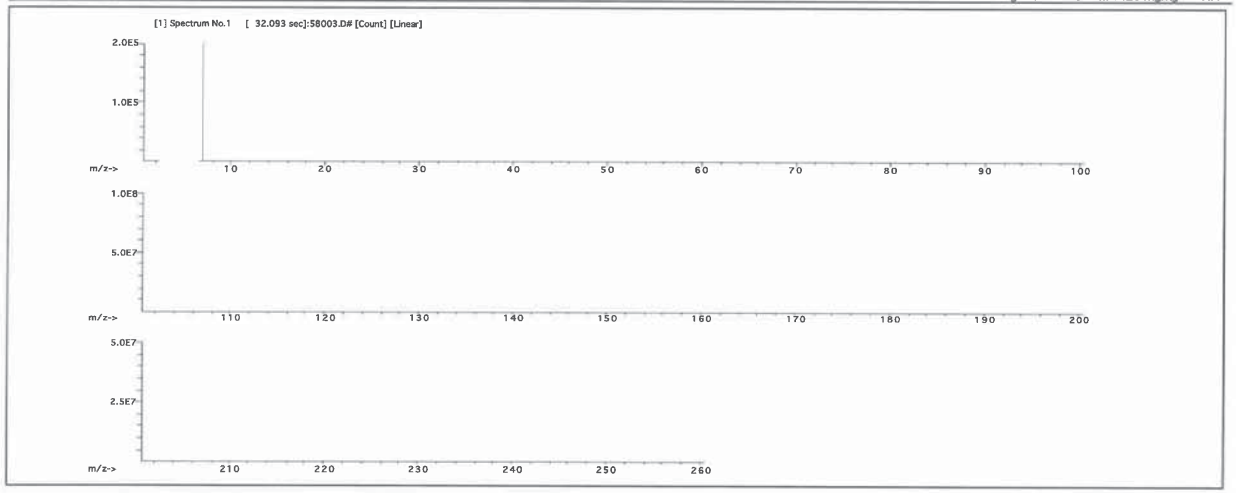
CERTIFIED WEIGHT REPORT:

		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.
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* 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

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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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

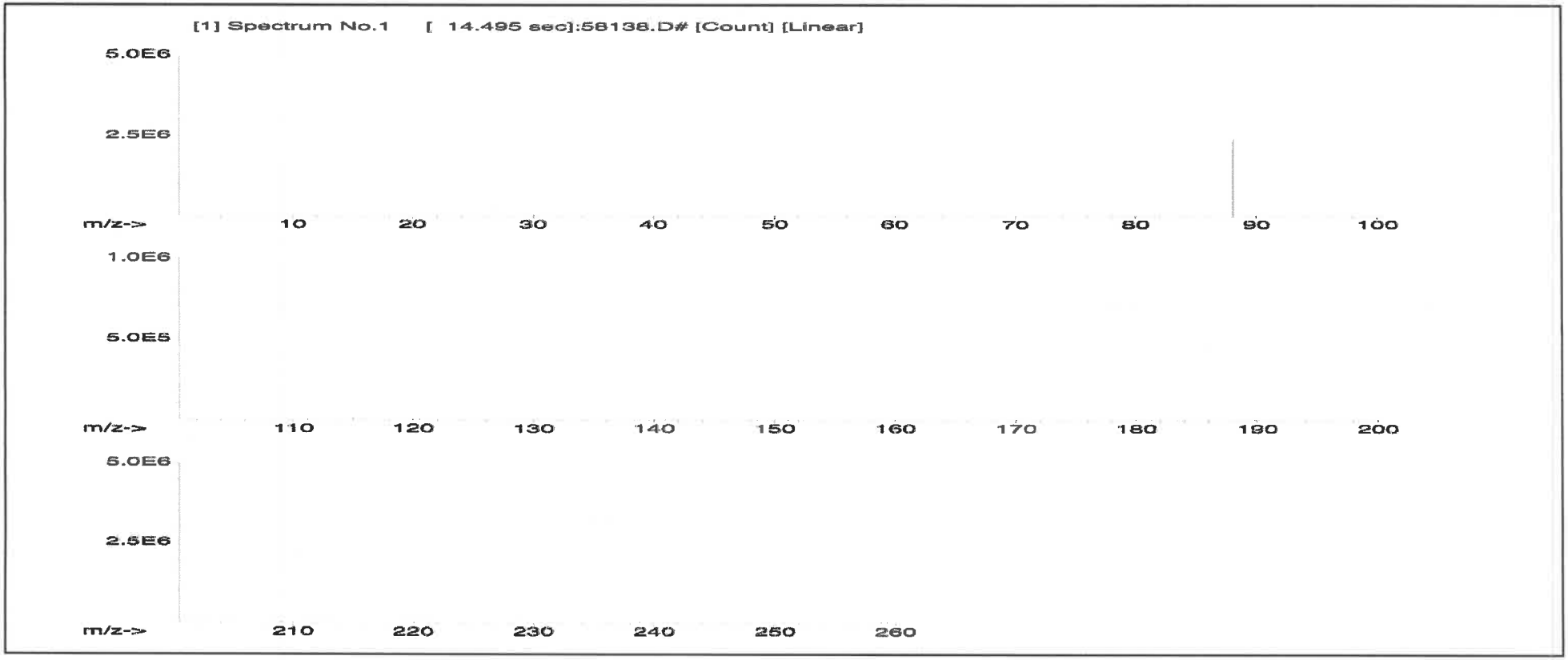
45982 R: 6/11/24

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).

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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MS985
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

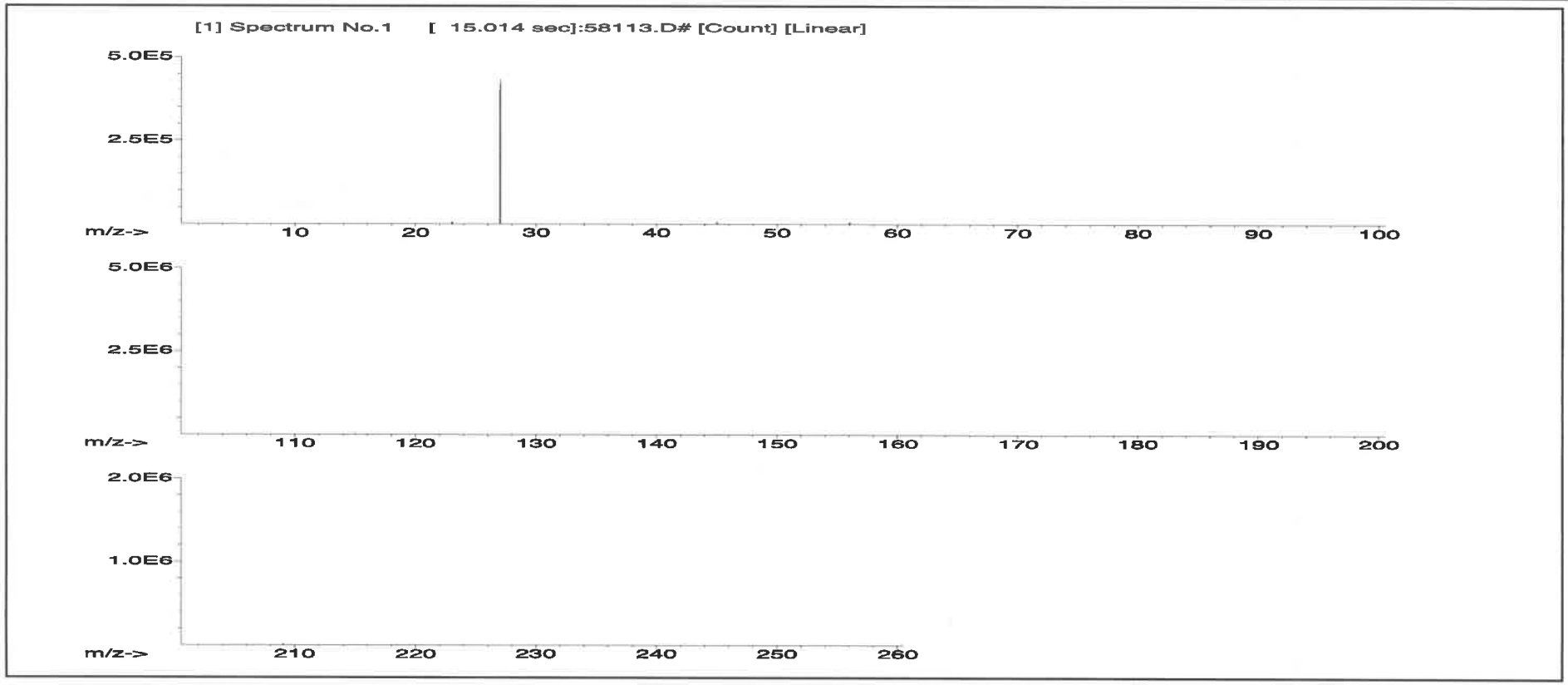
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Recieve → 10/9/24
Met dig

M6118

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

M6119

Recive -> 10/9/24
Met dig

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

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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

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R: 01/03/24 M5806, M5807

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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

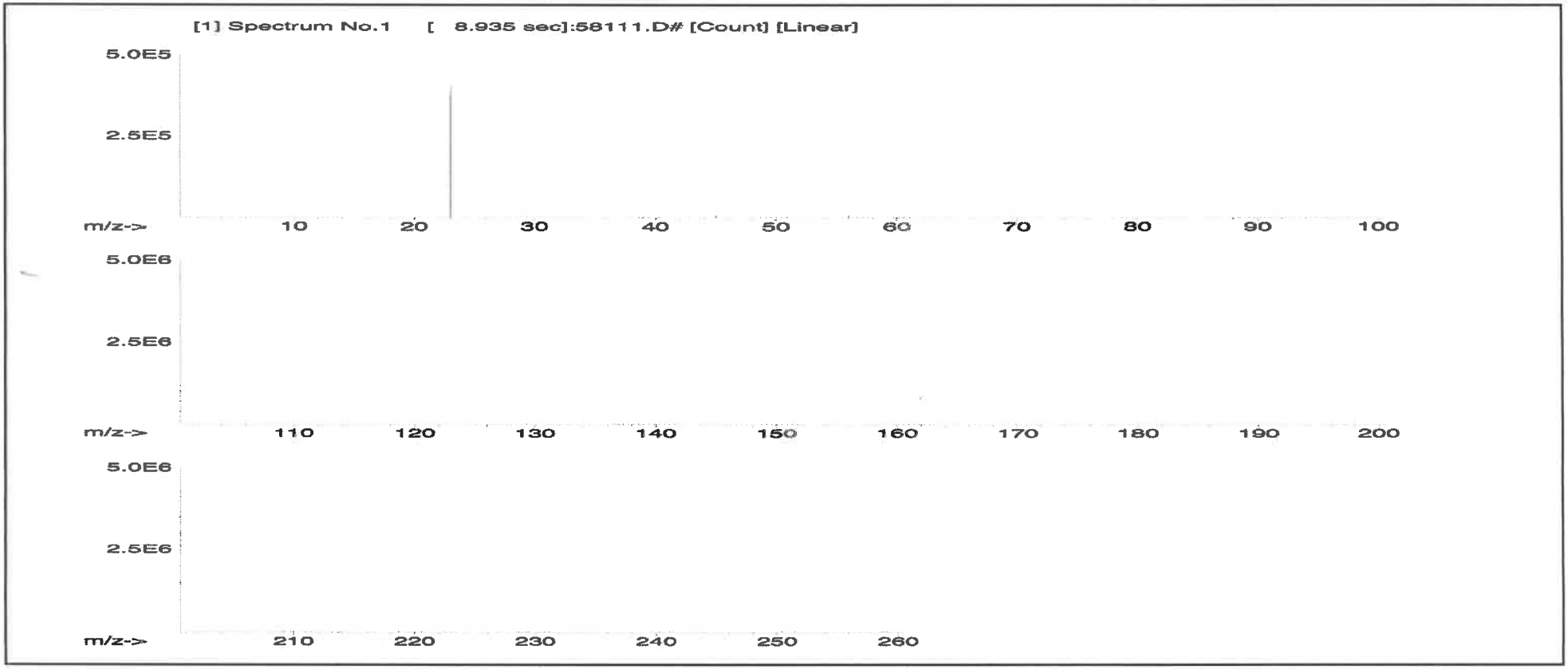
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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).

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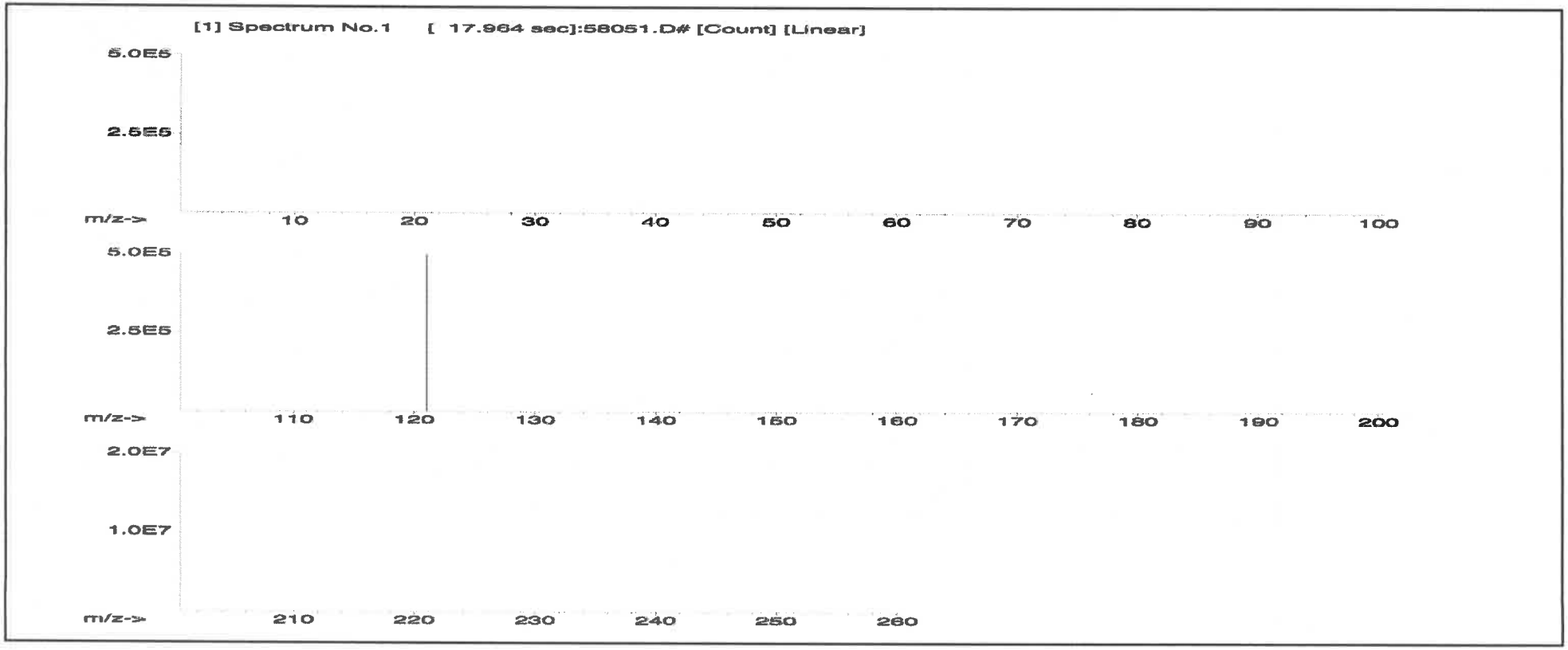
R: 01/03/24 M5802, M5803

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).

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M6030

R: 8/5/24

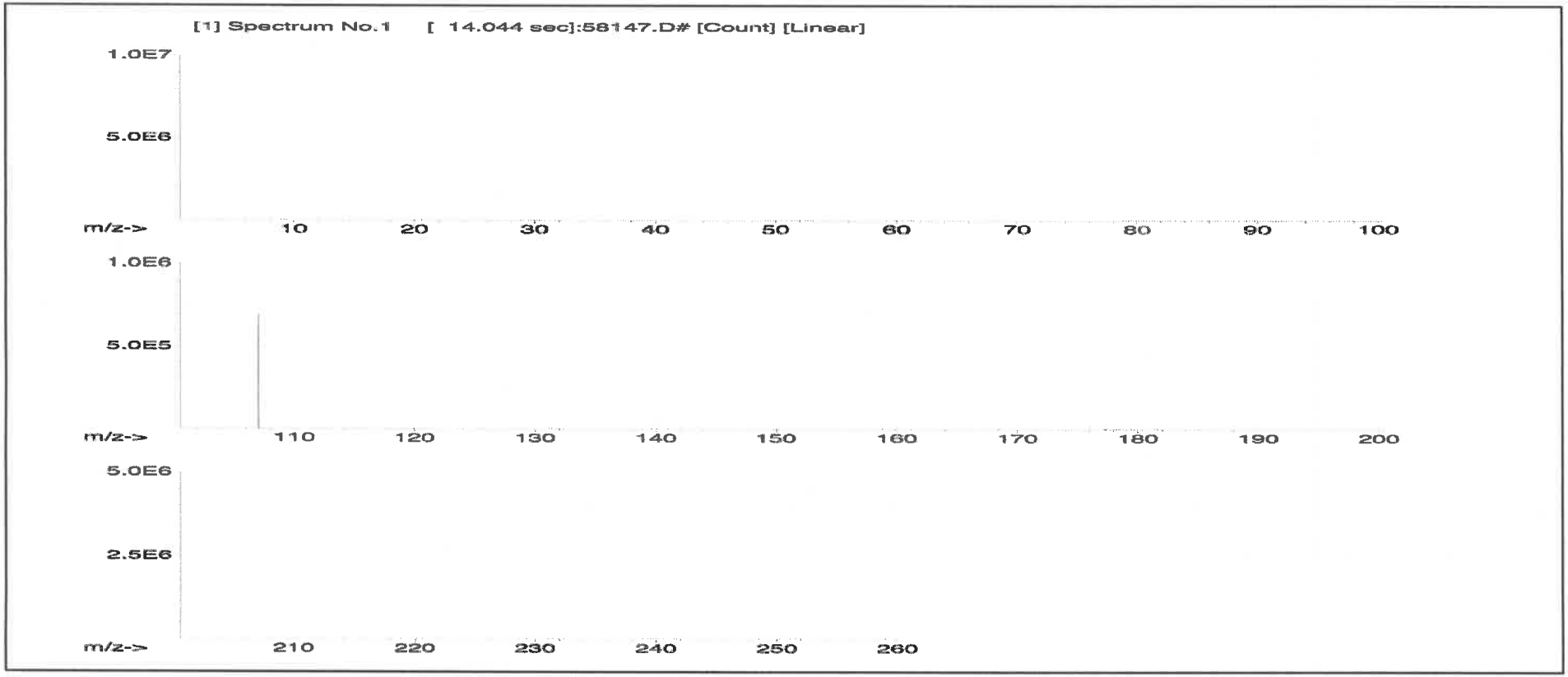
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CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R ! 8/5/24

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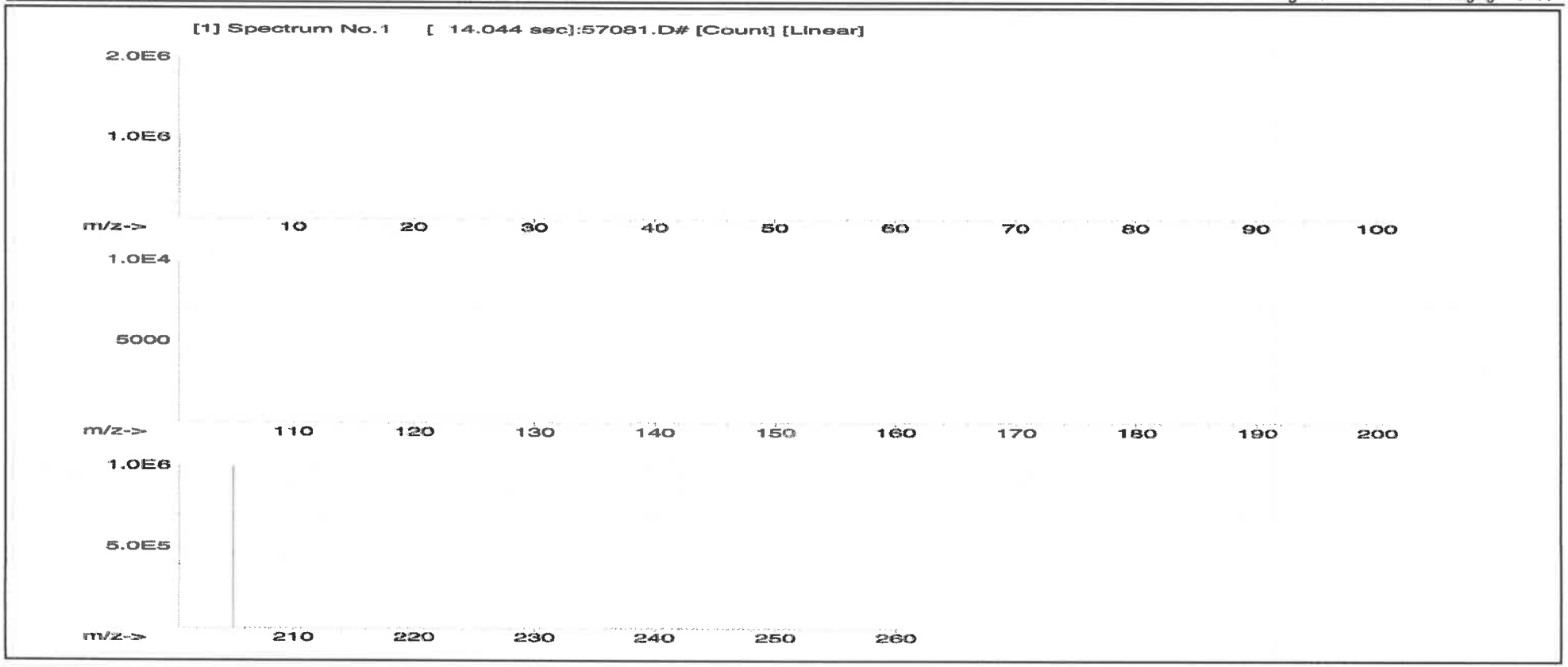
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
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	

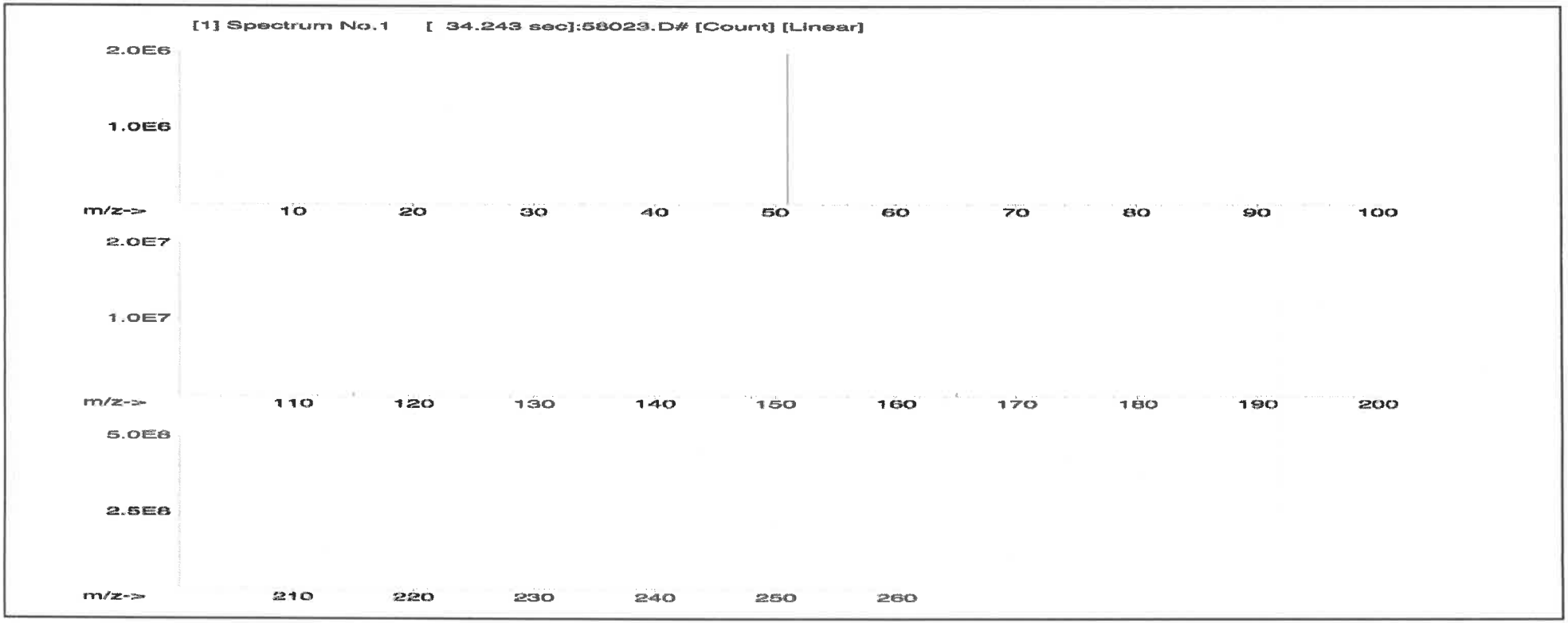
Aleah O'Brady

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:

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Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



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. P4736
QUOTE NO.
COC Number 2042211

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Aramark Uniforms
ADDRESS: 740 Frelinghuysen Ave
CITY Newark STATE: NJ ZIP: 07114
ATTENTION: Jarrod Mills
PHONE: 973-820-1601 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: monthly
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ 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 _____
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1 TPH 2 BOD5 3 TSS 4 Mercury Metals 5 Total Metals 6 7 8 9

PRESERVATIVES

C E E B

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.	Grab	W		X	11-6-24	1400	1	✓								
2.	Comp	W	✓		11-6-24	1404	3		✓	✓	✓					
3.																
4.																
5.																
6.																
7.																
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.	11-6-24 1405	1. 11-6-24 1405
2.	DATE/TIME:	2.
3.	DATE/TIME: 11-6-24 1445	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.4 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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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