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

DATA PACKAGE

METALS

PROJECT NAME : MACKENNA PARCELS

LABELLA ASSOCIATES P.C.

300 State Street

Suite 201

Rochester, NY - 14614

Phone No: 585-454-6110

ORDER ID : O3645

ATTENTION : Andrew T. Benkleman

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for O3645

1) METALS DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) Sample Data 15

- 9.1) SB-02-(3-5) 16
- 9.2) SB-04-(1-5) 17
- 9.3) SB-07-(1-3) 18
- 9.4) SB-08-(0.5-2.0) 19
- 9.5) SB-09-(2.0-4.0) 20
- 9.6) SB-10-(0.5-2.0) 21
- 9.7) DUP 22
- 9.8) RINSATE-BLANK 23

10) METALS CALIBRATION DATA 24

- 10.1) Initial and Continuing Calibration Verification 25
- 10.2) CRDL Standard For AA & ICP 41
- 10.3) Initial and Continuing Calibration Blank Summary 42
- 10.4) Preparation Blank Summary 54
- 10.5) Interference Check Sample 56

11) METALS QC DATA 58

- 11.1) Matrix Spike Summary 59
- 11.2) Post Digest Spike Summary 63
- 11.3) Duplicate Sample Summary 65
- 11.4) Laboratory Control Sample Summary 69
- 11.5) ICP Serial Dilutions 73

12) METALS PREPARATION & INSTRUMENT DATA 75

- 12.1) ICP Interelement Correction Factors 76

13) PREPARATION & ANALYTICAL SUMMARY 81

- 13.1) Sample Preparation Summary 82
- 13.2) Analysis Run Log 86

14) METALS RAW DATA 91

14.1) METALS RAW DATA - ANALYTICAL 92
14.2) LB126517 92
14.3) LB126674 357
14.4) LB126505 536
14.5) LB126507 538
14.6) METALS RAW DATA - PREP 541
14.6.1) PB154230 541
14.6.2) PB154232 544
14.6.3) PB154278 547
14.6.4) PB154279 550
15) Percent Solid 553
16) Analytical Runlogs 569
17) Standard Prep Logs 587
18) Shipping Document 796
18.1) Chain Of Custody 797
18.2) ROC 798
18.3) Lab Certificate 800
18.4) Internal COC 801

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Cover Page

Order ID : O3645

Project ID : Mackenna Parcels

Client : LaBella Associates P.C.

Lab Sample Number	Client Sample Number
O3645-01	SB-02-(3-5)
O3645-02	SB-04-(1-5)
O3645-03	SB-07-(1-3)
O3645-04	SB-08-(0.5-2.0)
O3645-05	SB-09-(2.0-4.0)
O3645-06	SB-10-(0.5-2.0)
O3645-07	DUP
O3645-08	RINSATE-BLANK
O3645-09	SB-04-(1-5)MS
O3645-10	SB-04-(1-5)MSD

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: 7/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: Mercury,Metals Group5

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals Group5, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for Mercury,Metals Group5.

C. Analytical Techniques:
The analysis of Metals Group5 was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
Sample SB-04-(1-5) was diluted due to high concentrations for Mercury & Sample SB-08-(0.5-2.0) was diluted due to high concentrations for Mercury & Sample SB-10-(0.5-2.0) was diluted due to high concentrations for Mercury.
The Blank Spike met requirements for all samples.
The Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Copper due to sample matrix interference.
The Matrix Spike (A508MS) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike (SB-04-(1-5)MS) analysis met criteria for all samples except for Beryllium and Chromium due to sample matrix interference.
The Matrix Spike Duplicate (A508MSD) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Barium, Beryllium, Chromium and Copper due to sample matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (SB-04-(1-5)L) met criteria for all samples except for Manganese and Zinc due to sample matrix interference.

E. Additional Comments:

The temperature of the samples at the time of receipt was 24.3°C.

Sample O3645-06 was reported with 'OR' qualifier for Zinc Parameter.

This Data Package has been revised due to Parameter List Change as per Client Request.

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

Signature_____

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

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: O3645 MATRIX: Solid, Water

METHOD: 6010D,7470A,7471B

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.		✓	
	The Serial Dilution (SB-04-(1-5)L) met criteria for all samples except for Manganese and Zinc due to sample matrix interference.			
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike (A508MS) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike (SB-04-(1-5)MS) analysis met criteria for all samples except for Beryllium and Chromium due to sample matrix interference. The Matrix Spike Duplicate (A508MSD) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Barium, Beryllium, Chromium and Copper due to sample matrix interference.			
7.	Sample Duplicate Analysis Met QC Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Copper due to sample matrix interference.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The temperature of the samples at the time of receipt was 24.3°C.

Sample O3645-06 was reported with OR qualifier for Zinc Parameter.

This Data Package has been revised due to Parameter List Change as per Client Request.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O3645

	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	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 07/31/2024

2nd Level QA Review Signature: _____ **Date:** _____

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LAB CHRONICLE

OrderID:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			Mercury	7470A		07/18/23	07/19/23	
			Metals Group5	6010D		07/17/23	07/31/23	

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-02-(3-5)								
O3645-01	SB-02-(3-5)	SOIL	Arsenic	1.27		0.33	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Barium	32.2		0.73	5.68	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Beryllium	0.28	J	0.014	0.34	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Cadmium	1.74		0.018	0.34	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Chromium	5.23		0.061	0.57	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Copper	14.1		0.53	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Lead	49.9		0.17	0.68	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Manganese	480		0.081	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Mercury	0.081		0.0060	0.014	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Nickel	10.6		0.10	2.27	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Zinc	347		0.13	2.27	mg/Kg
Client ID : SB-04-(1-5)								
O3645-02	SB-04-(1-5)	SOIL	Arsenic	1.15		0.26	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Barium	27.7		0.57	4.49	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Beryllium	0.23	J	0.011	0.27	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Cadmium	1.81		0.014	0.27	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Chromium	4.23		0.048	0.45	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Copper	15.6		0.42	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Lead	84.4		0.14	0.54	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Manganese	483		0.064	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Mercury	6.05	D	0.061	0.14	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Nickel	9.56		0.081	1.80	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Zinc	314		0.099	1.80	mg/Kg
Client ID : SB-07-(1-3)								
O3645-03	SB-07-(1-3)	SOIL	Arsenic	1.49		0.31	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Barium	88.9		0.68	5.33	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Beryllium	0.71		0.013	0.32	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Cadmium	1.68		0.017	0.32	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Chromium	14.6		0.058	0.53	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Copper	11.6		0.50	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Lead	25.9		0.16	0.64	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Manganese	248		0.076	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Mercury	0.079		0.0070	0.015	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Nickel	20.9		0.096	2.13	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Zinc	366		0.12	2.13	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-08-(0.5-2.0)								
O3645-04	SB-08-(0.5-2.0)	SOIL	Arsenic	97.6		0.36	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Barium	247		0.80	6.26	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Beryllium	1.18		0.015	0.38	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Cadmium	3.49		0.020	0.38	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Chromium	93.0		0.068	0.63	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Copper	765		0.59	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Lead	8860		0.19	0.75	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Manganese	340		0.089	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Mercury	1.91	D	0.041	0.090	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Nickel	44.0		0.11	2.51	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Zinc	509		0.14	2.51	mg/Kg
Client ID : SB-09-(2.0-4.0)								
O3645-05	SB-09-(2.0-4.0)	SOIL	Arsenic	0.96	J	0.32	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Barium	74.0		0.70	5.43	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Beryllium	0.64		0.013	0.33	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Cadmium	0.90		0.017	0.33	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Chromium	11.2		0.059	0.54	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Copper	12.4		0.51	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Lead	33.8		0.16	0.65	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Manganese	204		0.077	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Mercury	0.28		0.0080	0.018	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Nickel	18.4		0.098	2.17	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Zinc	104		0.12	2.17	mg/Kg
Client ID : SB-10-(0.5-2.0)								
O3645-06	SB-10-(0.5-2.0)	SOIL	Arsenic	12.3		0.29	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Barium	480		0.64	4.96	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Beryllium	1.53		0.012	0.30	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Cadmium	22.7		0.016	0.30	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Chromium	50.0		0.054	0.50	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Copper	3200		0.47	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Lead	3400		0.15	0.60	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Manganese	1060		0.070	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Mercury	248	D	7.25	15.9	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Nickel	103		0.089	1.98	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Zinc	1850	OR	0.11	1.98	mg/Kg
Client ID : DUP								
O3645-07	DUP	SOIL	Arsenic	1.13		0.31	1.07	mg/Kg
O3645-07	DUP	SOIL	Barium	26.8		0.68	5.33	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O3645-07	DUP	SOIL	Beryllium	0.27	J	0.013	0.32	mg/Kg
O3645-07	DUP	SOIL	Cadmium	1.56		0.017	0.32	mg/Kg
O3645-07	DUP	SOIL	Chromium	5.26		0.058	0.53	mg/Kg
O3645-07	DUP	SOIL	Copper	13.4		0.50	1.07	mg/Kg
O3645-07	DUP	SOIL	Lead	37.1		0.16	0.64	mg/Kg
O3645-07	DUP	SOIL	Manganese	492		0.076	1.07	mg/Kg
O3645-07	DUP	SOIL	Mercury	0.051		0.0070	0.016	mg/Kg
O3645-07	DUP	SOIL	Nickel	10.6		0.096	2.13	mg/Kg
O3645-07	DUP	SOIL	Zinc	325		0.12	2.13	mg/Kg
Client ID : RINSATE-BLANK								
O3645-08	RINSATE-BLANK	Water	Chromium	12.1		0.50	5.00	ug/L
O3645-08	RINSATE-BLANK	Water	Manganese	9.55	J	1.46	10.0	ug/L
O3645-08	RINSATE-BLANK	Water	Zinc	5.30	J	1.75	20.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.27		1	0.33	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-39-3	Barium	32.2	N	1	0.73	5.68	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-41-7	Beryllium	0.28	JN	1	0.014	0.34	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-43-9	Cadmium	1.74		1	0.018	0.34	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-47-3	Chromium	5.23	N	1	0.061	0.57	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-50-8	Copper	14.1	N*	1	0.53	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-92-1	Lead	49.9		1	0.17	0.68	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-96-5	Manganese	480		1	0.081	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-97-6	Mercury	0.081		1	0.0060	0.014	mg/Kg	07/18/23 13:30	07/19/23 13:08	SW7471B	
7440-02-0	Nickel	10.6		1	0.10	2.27	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7782-49-2	Selenium	1.14	U	1	0.38	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-22-4	Silver	0.57	U	1	0.059	0.57	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-66-6	Zinc	347		1	0.13	2.27	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.15		1	0.26	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-39-3	Barium	27.7	N	1	0.57	4.49	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-41-7	Beryllium	0.23	JN	1	0.011	0.27	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-43-9	Cadmium	1.81		1	0.014	0.27	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-47-3	Chromium	4.23	N	1	0.048	0.45	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-50-8	Copper	15.6	N*	1	0.42	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-92-1	Lead	84.4		1	0.14	0.54	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-96-5	Manganese	483		1	0.064	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-97-6	Mercury	6.05	D	10	0.061	0.14	mg/Kg	07/18/23 13:30	07/19/23 14:20	SW7471B	
7440-02-0	Nickel	9.56		1	0.081	1.80	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7782-49-2	Selenium	0.90	U	1	0.30	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-22-4	Silver	0.45	U	1	0.047	0.45	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-66-6	Zinc	314		1	0.099	1.80	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.49		1	0.31	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-39-3	Barium	88.9	N	1	0.68	5.33	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-41-7	Beryllium	0.71	N	1	0.013	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-43-9	Cadmium	1.68		1	0.017	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-47-3	Chromium	14.6	N	1	0.058	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-50-8	Copper	11.6	N*	1	0.50	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-92-1	Lead	25.9		1	0.16	0.64	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-96-5	Manganese	248		1	0.076	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-97-6	Mercury	0.079		1	0.0070	0.015	mg/Kg	07/18/23 13:30	07/19/23 13:14	SW7471B	
7440-02-0	Nickel	20.9		1	0.096	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7782-49-2	Selenium	1.07	U	1	0.35	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-22-4	Silver	0.53	U	1	0.055	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-66-6	Zinc	366		1	0.12	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	97.6		1	0.36	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-39-3	Barium	247	N	1	0.80	6.26	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-41-7	Beryllium	1.18	N	1	0.015	0.38	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-43-9	Cadmium	3.49		1	0.020	0.38	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-47-3	Chromium	93.0	N	1	0.068	0.63	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-50-8	Copper	765	N*	1	0.59	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-92-1	Lead	8860		1	0.19	0.75	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-96-5	Manganese	340		1	0.089	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-97-6	Mercury	1.91	D	5	0.041	0.090	mg/Kg	07/18/23 13:30	07/19/23 14:47	SW7471B	
7440-02-0	Nickel	44.0		1	0.11	2.51	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7782-49-2	Selenium	1.25	U	1	0.41	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-22-4	Silver	0.63	U	1	0.065	0.63	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-66-6	Zinc	509		1	0.14	2.51	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	0.96	J	1	0.32	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-39-3	Barium	74.0	N	1	0.70	5.43	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-41-7	Beryllium	0.64	N	1	0.013	0.33	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-43-9	Cadmium	0.90		1	0.017	0.33	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-47-3	Chromium	11.2	N	1	0.059	0.54	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-50-8	Copper	12.4	N*	1	0.51	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-92-1	Lead	33.8		1	0.16	0.65	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-96-5	Manganese	204		1	0.077	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-97-6	Mercury	0.28		1	0.0080	0.018	mg/Kg	07/18/23 13:30	07/19/23 13:23	SW7471B	
7440-02-0	Nickel	18.4		1	0.098	2.17	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7782-49-2	Selenium	1.09	U	1	0.36	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-22-4	Silver	0.54	U	1	0.056	0.54	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-66-6	Zinc	104		1	0.12	2.17	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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.
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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	12.3		1	0.29	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-39-3	Barium	480	N	1	0.64	4.96	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-41-7	Beryllium	1.53	N	1	0.012	0.30	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-43-9	Cadmium	22.7		1	0.016	0.30	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-47-3	Chromium	50.0	N	1	0.054	0.50	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-50-8	Copper	3200	N*	1	0.47	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-92-1	Lead	3400		1	0.15	0.60	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-96-5	Manganese	1060		1	0.070	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-97-6	Mercury	248	D	100(	7.25	15.9	mg/Kg	07/18/23 13:30	07/19/23 14:57	SW7471B	
7440-02-0	Nickel	103		1	0.089	1.98	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7782-49-2	Selenium	0.99	U	1	0.33	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-22-4	Silver	0.50	U	1	0.052	0.50	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-66-6	Zinc	1850	OR	1	0.11	1.98	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.13		1	0.31	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-39-3	Barium	26.8	N	1	0.68	5.33	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-41-7	Beryllium	0.27	JN	1	0.013	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-43-9	Cadmium	1.56		1	0.017	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-47-3	Chromium	5.26	N	1	0.058	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-50-8	Copper	13.4	N*	1	0.50	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-92-1	Lead	37.1		1	0.16	0.64	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-96-5	Manganese	492		1	0.076	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-97-6	Mercury	0.051		1	0.0070	0.016	mg/Kg	07/18/23 13:30	07/19/23 13:28	SW7471B	
7440-02-0	Nickel	10.6		1	0.096	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7782-49-2	Selenium	1.07	U	1	0.35	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-22-4	Silver	0.53	U	1	0.055	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-66-6	Zinc	325		1	0.12	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	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.
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-39-3	Barium	50.0	UN	1	6.28	50.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.094	3.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-47-3	Chromium	12.1		1	0.50	5.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-96-5	Manganese	9.55	J	1	1.46	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	07/18/23 15:40	07/19/23 10:20	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.58	5.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-66-6	Zinc	5.30	JN	1	1.75	20.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010

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

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: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV75	Mercury	4.24	4.0	106	90 - 110	CV	07/19/2023	09:50	LB126505

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV61	Mercury	4.87	5.0	97	90 - 110	CV	07/19/2023	09:55	LB126505
CCV62	Mercury	4.87	5.0	98	90 - 110	CV	07/19/2023	10:22	LB126505
CCV63	Mercury	4.90	5.0	98	90 - 110	CV	07/19/2023	10:31	LB126505

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
ICV76	Mercury	4.14	4.0	104	90 - 110	CV	07/19/2023	11:49	LB126507

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	4.84	5.0	97	90 - 110	CV	07/19/2023	11:53	LB126507
CCV65	Mercury	4.86	5.0	97	90 - 110	CV	07/19/2023	12:23	LB126507
CCV66	Mercury	4.88	5.0	98	90 - 110	CV	07/19/2023	12:50	LB126507
CCV67	Mercury	4.91	5.0	98	90 - 110	CV	07/19/2023	13:17	LB126507
CCV68	Mercury	4.96	5.0	99	90 - 110	CV	07/19/2023	13:44	LB126507
CCV69	Mercury	5.03	5.0	101	90 - 110	CV	07/19/2023	14:07	LB126507
CCV70	Mercury	4.93	5.0	99	90 - 110	CV	07/19/2023	14:42	LB126507
CCV71	Mercury	5.05	5.0	101	90 - 110	CV	07/19/2023	14:59	LB126507

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1030	1000	103	90 - 110	P	07/19/2023	13:05	LB126517
	Barium	502	520	96	90 - 110	P	07/19/2023	13:05	LB126517
	Beryllium	486	510	95	90 - 110	P	07/19/2023	13:05	LB126517
	Cadmium	503	510	99	90 - 110	P	07/19/2023	13:05	LB126517
	Chromium	504	520	97	90 - 110	P	07/19/2023	13:05	LB126517
	Copper	499	510	98	90 - 110	P	07/19/2023	13:05	LB126517
	Lead	991	1000	99	90 - 110	P	07/19/2023	13:05	LB126517
	Manganese	506	520	97	90 - 110	P	07/19/2023	13:05	LB126517
	Nickel	490	530	92	90 - 110	P	07/19/2023	13:05	LB126517
	Selenium	1030	1000	103	90 - 110	P	07/19/2023	13:05	LB126517
	Silver	248	250	99	90 - 110	P	07/19/2023	13:05	LB126517
	Zinc	991	1000	99	90 - 110	P	07/19/2023	13:05	LB126517

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5010	5000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Barium	10000	10000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	13:37	LB126517
	Cadmium	2430	2500	97	90 - 110	P	07/19/2023	13:37	LB126517
	Chromium	988	1000	99	90 - 110	P	07/19/2023	13:37	LB126517
	Copper	1210	1250	97	90 - 110	P	07/19/2023	13:37	LB126517
	Lead	4910	5000	98	90 - 110	P	07/19/2023	13:37	LB126517
	Manganese	2440	2500	98	90 - 110	P	07/19/2023	13:37	LB126517
	Nickel	2450	2500	98	90 - 110	P	07/19/2023	13:37	LB126517
	Selenium	5000	5000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Silver	1270	1250	102	90 - 110	P	07/19/2023	13:37	LB126517
	Zinc	2500	2500	100	90 - 110	P	07/19/2023	13:37	LB126517

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
LLCCV01	Arsenic	20.1	20.0	100	80 - 120	P	07/19/2023	13:45	LB126517
	Barium	104	100	104	80 - 120	P	07/19/2023	13:45	LB126517
	Beryllium	6.35	6.0	106	80 - 120	P	07/19/2023	13:45	LB126517
	Cadmium	6.59	6.0	110	80 - 120	P	07/19/2023	13:45	LB126517
	Chromium	10.4	10.0	104	80 - 120	P	07/19/2023	13:45	LB126517
	Copper	23.2	20.0	116	80 - 120	P	07/19/2023	13:45	LB126517
	Lead	11.3	12.0	94	80 - 120	P	07/19/2023	13:45	LB126517
	Manganese	21.3	20.0	106	80 - 120	P	07/19/2023	13:45	LB126517
	Nickel	40.2	40.0	101	80 - 120	P	07/19/2023	13:45	LB126517
	Selenium	20.3	20.0	102	80 - 120	P	07/19/2023	13:45	LB126517
	Silver	11.1	10.0	111	80 - 120	P	07/19/2023	13:45	LB126517
	Zinc	43.2	40.0	108	80 - 120	P	07/19/2023	13:45	LB126517

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Arsenic	5080	5000	102	90 - 110	P	07/19/2023	14:54	LB126517
	Barium	10200	10000	102	90 - 110	P	07/19/2023	14:54	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	14:54	LB126517
	Cadmium	2430	2500	97	90 - 110	P	07/19/2023	14:54	LB126517
	Chromium	991	1000	99	90 - 110	P	07/19/2023	14:54	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	14:54	LB126517
	Lead	4930	5000	99	90 - 110	P	07/19/2023	14:54	LB126517
	Manganese	2450	2500	98	90 - 110	P	07/19/2023	14:54	LB126517
	Nickel	2460	2500	98	90 - 110	P	07/19/2023	14:54	LB126517
	Selenium	5040	5000	101	90 - 110	P	07/19/2023	14:54	LB126517
	Silver	1280	1250	102	90 - 110	P	07/19/2023	14:54	LB126517
	Zinc	2510	2500	100	90 - 110	P	07/19/2023	14:54	LB126517
CCV03	Arsenic	5120	5000	102	90 - 110	P	07/19/2023	16:03	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	16:03	LB126517
	Beryllium	236	250	94	90 - 110	P	07/19/2023	16:03	LB126517
	Cadmium	2400	2500	96	90 - 110	P	07/19/2023	16:03	LB126517
	Chromium	984	1000	98	90 - 110	P	07/19/2023	16:03	LB126517
	Copper	1270	1250	102	90 - 110	P	07/19/2023	16:03	LB126517
	Lead	4910	5000	98	90 - 110	P	07/19/2023	16:03	LB126517
	Manganese	2460	2500	98	90 - 110	P	07/19/2023	16:03	LB126517
	Nickel	2450	2500	98	90 - 110	P	07/19/2023	16:03	LB126517
	Selenium	5090	5000	102	90 - 110	P	07/19/2023	16:03	LB126517
	Silver	1270	1250	102	90 - 110	P	07/19/2023	16:03	LB126517
	Zinc	2510	2500	100	90 - 110	P	07/19/2023	16:03	LB126517
CCV04	Arsenic	5160	5000	103	90 - 110	P	07/19/2023	16:51	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	16:51	LB126517
	Beryllium	236	250	95	90 - 110	P	07/19/2023	16:51	LB126517
	Cadmium	2420	2500	97	90 - 110	P	07/19/2023	16:51	LB126517
	Chromium	989	1000	99	90 - 110	P	07/19/2023	16:51	LB126517
	Copper	1270	1250	102	90 - 110	P	07/19/2023	16:51	LB126517
	Lead	4930	5000	99	90 - 110	P	07/19/2023	16:51	LB126517
	Manganese	2460	2500	99	90 - 110	P	07/19/2023	16:51	LB126517
	Nickel	2460	2500	98	90 - 110	P	07/19/2023	16:51	LB126517
	Selenium	5140	5000	103	90 - 110	P	07/19/2023	16:51	LB126517

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Silver	1270	1250	101	90 - 110	P	07/19/2023	16:51	LB126517
	Zinc	2520	2500	101	90 - 110	P	07/19/2023	16:51	LB126517
CCV05	Arsenic	5200	5000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Barium	10400	10000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	17:44	LB126517
	Cadmium	2420	2500	97	90 - 110	P	07/19/2023	17:44	LB126517
	Chromium	984	1000	98	90 - 110	P	07/19/2023	17:44	LB126517
	Copper	1280	1250	102	90 - 110	P	07/19/2023	17:44	LB126517
	Lead	4950	5000	99	90 - 110	P	07/19/2023	17:44	LB126517
	Manganese	2450	2500	98	90 - 110	P	07/19/2023	17:44	LB126517
	Nickel	2480	2500	99	90 - 110	P	07/19/2023	17:44	LB126517
	Selenium	5180	5000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Silver	1260	1250	101	90 - 110	P	07/19/2023	17:44	LB126517
	Zinc	2570	2500	103	90 - 110	P	07/19/2023	17:44	LB126517
CCV06	Arsenic	5050	5000	101	90 - 110	P	07/19/2023	18:39	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	18:39	LB126517
	Beryllium	235	250	94	90 - 110	P	07/19/2023	18:39	LB126517
	Cadmium	2360	2500	94	90 - 110	P	07/19/2023	18:39	LB126517
	Chromium	978	1000	98	90 - 110	P	07/19/2023	18:39	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	18:39	LB126517
	Lead	4830	5000	96	90 - 110	P	07/19/2023	18:39	LB126517
	Manganese	2420	2500	97	90 - 110	P	07/19/2023	18:39	LB126517
	Nickel	2420	2500	97	90 - 110	P	07/19/2023	18:39	LB126517
	Selenium	5050	5000	101	90 - 110	P	07/19/2023	18:39	LB126517
	Silver	1270	1250	101	90 - 110	P	07/19/2023	18:39	LB126517
	Zinc	2530	2500	101	90 - 110	P	07/19/2023	18:39	LB126517
CCV07	Arsenic	5030	5000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Barium	10100	10000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Beryllium	233	250	93	90 - 110	P	07/19/2023	19:26	LB126517
	Cadmium	2360	2500	94	90 - 110	P	07/19/2023	19:26	LB126517
	Chromium	960	1000	96	90 - 110	P	07/19/2023	19:26	LB126517
	Copper	1220	1250	98	90 - 110	P	07/19/2023	19:26	LB126517
	Lead	4840	5000	97	90 - 110	P	07/19/2023	19:26	LB126517
	Manganese	2390	2500	96	90 - 110	P	07/19/2023	19:26	LB126517

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Nickel	2410	2500	97	90 - 110	P	07/19/2023	19:26	LB126517
	Selenium	5030	5000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Silver	1240	1250	100	90 - 110	P	07/19/2023	19:26	LB126517
	Zinc	2480	2500	99	90 - 110	P	07/19/2023	19:26	LB126517
CCV08	Arsenic	5020	5000	100	90 - 110	P	07/19/2023	20:14	LB126517
	Barium	10000	10000	100	90 - 110	P	07/19/2023	20:14	LB126517
	Beryllium	233	250	93	90 - 110	P	07/19/2023	20:14	LB126517
	Cadmium	2380	2500	95	90 - 110	P	07/19/2023	20:14	LB126517
	Chromium	966	1000	97	90 - 110	P	07/19/2023	20:14	LB126517
	Copper	1210	1250	97	90 - 110	P	07/19/2023	20:14	LB126517
	Lead	4840	5000	97	90 - 110	P	07/19/2023	20:14	LB126517
	Manganese	2370	2500	95	90 - 110	P	07/19/2023	20:14	LB126517
	Nickel	2430	2500	97	90 - 110	P	07/19/2023	20:14	LB126517
	Selenium	5030	5000	101	90 - 110	P	07/19/2023	20:14	LB126517
	Silver	1250	1250	100	90 - 110	P	07/19/2023	20:14	LB126517
	Zinc	2500	2500	100	90 - 110	P	07/19/2023	20:14	LB126517
CCV09	Arsenic	5170	5000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Beryllium	244	250	98	90 - 110	P	07/19/2023	21:03	LB126517
	Cadmium	2480	2500	99	90 - 110	P	07/19/2023	21:03	LB126517
	Chromium	1010	1000	100	90 - 110	P	07/19/2023	21:03	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	21:03	LB126517
	Lead	5040	5000	101	90 - 110	P	07/19/2023	21:03	LB126517
	Manganese	2460	2500	98	90 - 110	P	07/19/2023	21:03	LB126517
	Nickel	2510	2500	101	90 - 110	P	07/19/2023	21:03	LB126517
	Selenium	5170	5000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Silver	1310	1250	104	90 - 110	P	07/19/2023	21:03	LB126517
	Zinc	2560	2500	102	90 - 110	P	07/19/2023	21:03	LB126517
CCV10	Arsenic	5270	5000	105	90 - 110	P	07/19/2023	21:19	LB126517
	Barium	10400	10000	104	90 - 110	P	07/19/2023	21:19	LB126517
	Beryllium	249	250	100	90 - 110	P	07/19/2023	21:19	LB126517
	Cadmium	2510	2500	100	90 - 110	P	07/19/2023	21:19	LB126517
	Chromium	1020	1000	102	90 - 110	P	07/19/2023	21:19	LB126517
	Copper	1260	1250	101	90 - 110	P	07/19/2023	21:19	LB126517

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Lead	5110	5000	102	90 - 110	P	07/19/2023	21:19	LB126517
	Manganese	2500	2500	100	90 - 110	P	07/19/2023	21:19	LB126517
	Nickel	2550	2500	102	90 - 110	P	07/19/2023	21:19	LB126517
	Selenium	5260	5000	105	90 - 110	P	07/19/2023	21:19	LB126517
	Silver	1320	1250	106	90 - 110	P	07/19/2023	21:19	LB126517
	Zinc	2600	2500	104	90 - 110	P	07/19/2023	21:19	LB126517

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1080	1000	108	90 - 110	P	07/31/2023	13:25	LB126674
	Barium	530	520	102	90 - 110	P	07/31/2023	13:25	LB126674
	Beryllium	525	510	103	90 - 110	P	07/31/2023	13:25	LB126674
	Cadmium	541	510	106	90 - 110	P	07/31/2023	13:25	LB126674
	Chromium	537	520	103	90 - 110	P	07/31/2023	13:25	LB126674
	Copper	530	510	104	90 - 110	P	07/31/2023	13:25	LB126674
	Lead	1060	1000	106	90 - 110	P	07/31/2023	13:25	LB126674
	Manganese	533	520	102	90 - 110	P	07/31/2023	13:25	LB126674
	Nickel	525	530	99	90 - 110	P	07/31/2023	13:25	LB126674
	Selenium	1090	1000	109	90 - 110	P	07/31/2023	13:25	LB126674
	Silver	259	250	104	90 - 110	P	07/31/2023	13:25	LB126674
	Zinc	1050	1000	105	90 - 110	P	07/31/2023	13:25	LB126674

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
LLCCV01	Arsenic	17.2	20.0	86	80 - 120	P	07/31/2023	13:42	LB126674
	Barium	82.3	100	82	80 - 120	P	07/31/2023	13:42	LB126674
	Beryllium	5.13	6.0	86	80 - 120	P	07/31/2023	13:42	LB126674
	Cadmium	5.33	6.0	89	80 - 120	P	07/31/2023	13:42	LB126674
	Chromium	8.53	10.0	85	80 - 120	P	07/31/2023	13:42	LB126674
	Copper	16.1	20.0	80	80 - 120	P	07/31/2023	13:42	LB126674
	Lead	10.7	12.0	90	80 - 120	P	07/31/2023	13:42	LB126674
	Manganese	17.5	20.0	88	80 - 120	P	07/31/2023	13:42	LB126674
	Nickel	32.2	40.0	80	80 - 120	P	07/31/2023	13:42	LB126674
	Selenium	16.8	20.0	84	80 - 120	P	07/31/2023	13:42	LB126674
	Silver	8.41	10.0	84	80 - 120	P	07/31/2023	13:42	LB126674
	Zinc	34.9	40.0	87	80 - 120	P	07/31/2023	13:42	LB126674

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5150	5000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Barium	10300	10000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Beryllium	246	250	98	90 - 110	P	07/31/2023	14:03	LB126674
	Cadmium	2500	2500	100	90 - 110	P	07/31/2023	14:03	LB126674
	Chromium	1010	1000	101	90 - 110	P	07/31/2023	14:03	LB126674
	Copper	1230	1250	98	90 - 110	P	07/31/2023	14:03	LB126674
	Lead	5050	5000	101	90 - 110	P	07/31/2023	14:03	LB126674
	Manganese	2500	2500	100	90 - 110	P	07/31/2023	14:03	LB126674
	Nickel	2520	2500	101	90 - 110	P	07/31/2023	14:03	LB126674
	Selenium	5170	5000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Silver	1290	1250	103	90 - 110	P	07/31/2023	14:03	LB126674
	Zinc	2580	2500	103	90 - 110	P	07/31/2023	14:03	LB126674
CCV02	Arsenic	5100	5000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Barium	10100	10000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Beryllium	232	250	93	90 - 110	P	07/31/2023	16:21	LB126674
	Cadmium	2410	2500	96	90 - 110	P	07/31/2023	16:21	LB126674
	Chromium	972	1000	97	90 - 110	P	07/31/2023	16:21	LB126674
	Copper	1210	1250	97	90 - 110	P	07/31/2023	16:21	LB126674
	Lead	4910	5000	98	90 - 110	P	07/31/2023	16:21	LB126674
	Manganese	2420	2500	97	90 - 110	P	07/31/2023	16:21	LB126674
	Nickel	2450	2500	98	90 - 110	P	07/31/2023	16:21	LB126674
	Selenium	5090	5000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Silver	1240	1250	100	90 - 110	P	07/31/2023	16:21	LB126674
	Zinc	2520	2500	101	90 - 110	P	07/31/2023	16:21	LB126674
CCV03	Arsenic	5220	5000	104	90 - 110	P	07/31/2023	17:09	LB126674
	Barium	10500	10000	105	90 - 110	P	07/31/2023	17:09	LB126674
	Beryllium	243	250	97	90 - 110	P	07/31/2023	17:09	LB126674
	Cadmium	2480	2500	99	90 - 110	P	07/31/2023	17:09	LB126674
	Chromium	1000	1000	100	90 - 110	P	07/31/2023	17:09	LB126674
	Copper	1240	1250	100	90 - 110	P	07/31/2023	17:09	LB126674
	Lead	5030	5000	101	90 - 110	P	07/31/2023	17:09	LB126674
	Manganese	2520	2500	101	90 - 110	P	07/31/2023	17:09	LB126674
	Nickel	2500	2500	100	90 - 110	P	07/31/2023	17:09	LB126674
	Selenium	5190	5000	104	90 - 110	P	07/31/2023	17:09	LB126674

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV03	Silver	1280	1250	102	90 - 110	P	07/31/2023	17:09	LB126674
	Zinc	2560	2500	102	90 - 110	P	07/31/2023	17:09	LB126674
CCV04	Arsenic	4980	5000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Barium	10000	10000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Beryllium	231	250	92	90 - 110	P	07/31/2023	17:57	LB126674
	Cadmium	2360	2500	94	90 - 110	P	07/31/2023	17:57	LB126674
	Chromium	955	1000	96	90 - 110	P	07/31/2023	17:57	LB126674
	Copper	1190	1250	95	90 - 110	P	07/31/2023	17:57	LB126674
	Lead	4780	5000	96	90 - 110	P	07/31/2023	17:57	LB126674
	Manganese	2400	2500	96	90 - 110	P	07/31/2023	17:57	LB126674
	Nickel	2370	2500	95	90 - 110	P	07/31/2023	17:57	LB126674
	Selenium	4980	5000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Silver	1230	1250	98	90 - 110	P	07/31/2023	17:57	LB126674
	Zinc	2450	2500	98	90 - 110	P	07/31/2023	17:57	LB126674
CCV05	Arsenic	5070	5000	101	90 - 110	P	07/31/2023	18:44	LB126674
	Barium	10100	10000	101	90 - 110	P	07/31/2023	18:44	LB126674
	Beryllium	239	250	96	90 - 110	P	07/31/2023	18:44	LB126674
	Cadmium	2410	2500	97	90 - 110	P	07/31/2023	18:44	LB126674
	Chromium	970	1000	97	90 - 110	P	07/31/2023	18:44	LB126674
	Copper	1210	1250	97	90 - 110	P	07/31/2023	18:44	LB126674
	Lead	4890	5000	98	90 - 110	P	07/31/2023	18:44	LB126674
	Manganese	2430	2500	97	90 - 110	P	07/31/2023	18:44	LB126674
	Nickel	2440	2500	98	90 - 110	P	07/31/2023	18:44	LB126674
	Selenium	5090	5000	102	90 - 110	P	07/31/2023	18:44	LB126674
	Silver	1240	1250	99	90 - 110	P	07/31/2023	18:44	LB126674
	Zinc	2500	2500	100	90 - 110	P	07/31/2023	18:44	LB126674
CCV06	Arsenic	4990	5000	100	90 - 110	P	07/31/2023	19:27	LB126674
	Barium	9800	10000	98	90 - 110	P	07/31/2023	19:27	LB126674
	Beryllium	231	250	92	90 - 110	P	07/31/2023	19:27	LB126674
	Cadmium	2370	2500	95	90 - 110	P	07/31/2023	19:27	LB126674
	Chromium	957	1000	96	90 - 110	P	07/31/2023	19:27	LB126674
	Copper	1160	1250	93	90 - 110	P	07/31/2023	19:27	LB126674
	Lead	4810	5000	96	90 - 110	P	07/31/2023	19:27	LB126674
	Manganese	2370	2500	95	90 - 110	P	07/31/2023	19:27	LB126674

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV06	Nickel	2400	2500	96	90 - 110	P	07/31/2023	19:27	LB126674
	Selenium	5010	5000	100	90 - 110	P	07/31/2023	19:27	LB126674
	Silver	1250	1250	100	90 - 110	P	07/31/2023	19:27	LB126674
	Zinc	2470	2500	99	90 - 110	P	07/31/2023	19:27	LB126674

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	98	40 - 160	CV	07/19/2023	09:59	LB126505
CRA	Mercury	0.17	0.2	87	40 - 160	CV	07/19/2023	11:58	LB126507
CRI01	Arsenic	15.7	20.0	78	40 - 160	P	07/19/2023	13:17	LB126517
	Barium	93.7	100	94	40 - 160	P	07/19/2023	13:17	LB126517
	Beryllium	5.81	6.0	97	40 - 160	P	07/19/2023	13:17	LB126517
	Cadmium	6.03	6.0	100	40 - 160	P	07/19/2023	13:17	LB126517
	Chromium	8.98	10.0	90	40 - 160	P	07/19/2023	13:17	LB126517
	Copper	20.5	20.0	103	40 - 160	P	07/19/2023	13:17	LB126517
	Lead	13.6	12.0	113	40 - 160	P	07/19/2023	13:17	LB126517
	Manganese	20.4	20.0	102	40 - 160	P	07/19/2023	13:17	LB126517
	Nickel	36.2	40.0	91	40 - 160	P	07/19/2023	13:17	LB126517
	Selenium	20.2	20.0	101	40 - 160	P	07/19/2023	13:17	LB126517
	Silver	10.1	10.0	102	40 - 160	P	07/19/2023	13:17	LB126517
	Zinc	39.4	40.0	99	40 - 160	P	07/19/2023	13:17	LB126517
CRI01	Arsenic	22.1	20.0	110	40 - 160	P	07/31/2023	13:51	LB126674
	Barium	96.4	100	96	40 - 160	P	07/31/2023	13:51	LB126674
	Beryllium	5.86	6.0	98	40 - 160	P	07/31/2023	13:51	LB126674
	Cadmium	6.25	6.0	104	40 - 160	P	07/31/2023	13:51	LB126674
	Chromium	9.68	10.0	97	40 - 160	P	07/31/2023	13:51	LB126674
	Copper	20.1	20.0	101	40 - 160	P	07/31/2023	13:51	LB126674
	Lead	11.9	12.0	100	40 - 160	P	07/31/2023	13:51	LB126674
	Manganese	20.3	20.0	102	40 - 160	P	07/31/2023	13:51	LB126674
	Nickel	37.9	40.0	95	40 - 160	P	07/31/2023	13:51	LB126674
	Selenium	24.4	20.0	122	40 - 160	P	07/31/2023	13:51	LB126674
	Silver	10.4	10.0	104	40 - 160	P	07/31/2023	13:51	LB126674
	Zinc	40.8	40.0	102	40 - 160	P	07/31/2023	13:51	LB126674

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	09:52	LB126505

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB61	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	09:57	LB126505
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	10:24	LB126505
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	10:33	LB126505

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB76	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	11:51	LB126507

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	07/19/2023	11:55	LB126507
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	12:25	LB126507
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	12:53	LB126507
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	13:19	LB126507
CCB68	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	13:47	LB126507
CCB69	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	14:09	LB126507
CCB70	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	14:44	LB126507
CCB71	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	15:02	LB126507

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	13:13	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:13	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:13	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	13:13	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	13:13	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	13:13	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	13:13	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	13:13	LB126517

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	13:50	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:50	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:50	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	13:50	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	13:50	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	13:50	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	13:50	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	13:50	LB126517
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	14:58	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	14:58	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	14:58	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	14:58	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	14:58	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	14:58	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	14:58	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	14:58	LB126517
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	16:07	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:07	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:07	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	16:07	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	16:07	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	16:07	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	16:07	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	16:07	LB126517
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	16:55	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:55	LB126517

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:55	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	16:55	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	16:55	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	16:55	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	16:55	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	16:55	LB126517
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	17:48	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	17:48	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	17:48	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	17:48	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	17:48	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	17:48	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	17:48	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	17:48	LB126517
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	18:43	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	18:43	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	18:43	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	18:43	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	18:43	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	18:43	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	18:43	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	18:43	LB126517
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	19:30	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	19:30	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	19:30	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	19:30	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	19:30	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	19:30	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	19:30	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	19:30	LB126517
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	20:18	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	20:18	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	20:18	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	20:18	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	20:18	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	20:18	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	20:18	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	20:18	LB126517
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	21:07	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:07	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:07	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	21:07	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	21:07	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	21:07	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	21:07	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	21:07	LB126517
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	21:22	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:22	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:22	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	21:22	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	21:22	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	21:22	LB126517

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	21:22	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	21:22	LB126517

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	13:47	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	13:47	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	13:47	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	13:47	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	13:47	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	13:47	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	13:47	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	13:47	LB126674

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	14:07	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	14:07	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	14:07	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	14:07	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	14:07	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	14:07	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	14:07	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	14:07	LB126674
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	16:25	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	16:25	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	16:25	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	16:25	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	16:25	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	16:25	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	16:25	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	16:25	LB126674
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	17:13	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	17:13	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	17:13	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	17:13	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	17:13	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	17:13	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	17:13	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	17:13	LB126674
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	18:01	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:01	LB126674

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:01	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	18:01	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	18:01	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	18:01	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	18:01	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	18:01	LB126674
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	18:48	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:48	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:48	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	18:48	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	18:48	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	18:48	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	18:48	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	18:48	LB126674
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	19:31	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	19:31	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	19:31	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	19:31	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	19:31	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	19:31	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	19:31	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	19:31	LB126674

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- 3b -
PREPARATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB154278BL		**SOLID**		**Batch Number:**	**PB154278**		**Prep Date:**	**07/18/2023**	
	Mercury	0.013	<0.013	U	0.013	CV	07/19/2023	13:04	LB126507

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB154279BL		**WATER**		**Batch Number:**	**PB154279**		**Prep Date:**	**07/18/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	07/19/2023	10:06	LB126505

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- 3b -
PREPARATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB154230BL		**WATER**		**Batch Number:**	**PB154230**		**Prep Date:**	**07/17/2023**	
	Arsenic	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Barium	50.0	<50.0	U	50.0	P	07/19/2023	15:17	LB126517
	Beryllium	3.00	<3.00	U	3.00	P	07/19/2023	15:17	LB126517
	Cadmium	3.00	<3.00	U	3.00	P	07/19/2023	15:17	LB126517
	Chromium	5.00	<5.00	U	5.00	P	07/19/2023	15:17	LB126517
	Copper	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Lead	6.00	<6.00	U	6.00	P	07/19/2023	15:17	LB126517
	Manganese	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Nickel	20.0	<20.0	U	20.0	P	07/19/2023	15:17	LB126517
	Selenium	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Silver	5.00	<5.00	U	5.00	P	07/19/2023	15:17	LB126517
	Zinc	20.0	<20.0	U	20.0	P	07/19/2023	15:17	LB126517

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB154232BL		**SOLID**		**Batch Number:**	**PB154232**		**Prep Date:**	**07/18/2023**	
	Arsenic	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Barium	4.55	<4.55	U	4.55	P	07/19/2023	16:11	LB126517
	Beryllium	0.27	<0.27	U	0.27	P	07/19/2023	16:11	LB126517
	Cadmium	0.27	<0.27	U	0.27	P	07/19/2023	16:11	LB126517
	Chromium	0.46	<0.46	U	0.46	P	07/19/2023	16:11	LB126517
	Copper	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Lead	0.55	<0.55	U	0.55	P	07/19/2023	16:11	LB126517
	Manganese	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Nickel	1.82	<1.82	U	1.82	P	07/19/2023	16:11	LB126517
	Selenium	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Silver	0.46	<0.46	U	0.46	P	07/19/2023	16:11	LB126517
	Zinc	1.82	<1.82	U	1.82	P	07/19/2023	16:11	LB126517

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-3.33			-20	20	07/19/2023	13:21	LB126517
	Barium	5.90	6.0	98	-94	106	07/19/2023	13:21	LB126517
	Beryllium	1.04			-6	6	07/19/2023	13:21	LB126517
	Cadmium	1.04	1.0	104	-5	7	07/19/2023	13:21	LB126517
	Chromium	48.5	52.0	93	42	62	07/19/2023	13:21	LB126517
	Copper	-2.10	2.0	105	-18	22	07/19/2023	13:21	LB126517
	Lead	-2.93			-12	12	07/19/2023	13:21	LB126517
	Manganese	15.9	7.0	227	-13	27	07/19/2023	13:21	LB126517
	Nickel	0.98	2.0	49	-38	42	07/19/2023	13:21	LB126517
	Selenium	-2.32			-20	20	07/19/2023	13:21	LB126517
	Silver	-2.78			-10	10	07/19/2023	13:21	LB126517
	Zinc	4.30			-40	40	07/19/2023	13:21	LB126517
ICSAB01	Arsenic	102	100	102	85	120	07/19/2023	13:25	LB126517
	Barium	537	540	99	440	640	07/19/2023	13:25	LB126517
	Beryllium	509	500	102	430	580	07/19/2023	13:25	LB126517
	Cadmium	1060	970	109	820	1100	07/19/2023	13:25	LB126517
	Chromium	562	540	104	460	620	07/19/2023	13:25	LB126517
	Copper	505	510	99	430	590	07/19/2023	13:25	LB126517
	Lead	56.7	49.0	116	37	61	07/19/2023	13:25	LB126517
	Manganese	525	510	103	430	590	07/19/2023	13:25	LB126517
	Nickel	1030	950	108	810	1100	07/19/2023	13:25	LB126517
	Selenium	44.6	46.0	97	26	66	07/19/2023	13:25	LB126517
	Silver	177	200	88	170	230	07/19/2023	13:25	LB126517
	Zinc	1060	950	112	810	1100	07/19/2023	13:25	LB126517
ICSA01	Arsenic	-19.9			-20	20	07/31/2023	13:55	LB126674
	Barium	5.67	6.0	94	-94	106	07/31/2023	13:55	LB126674
	Beryllium	0.96			-6	6	07/31/2023	13:55	LB126674
	Cadmium	1.09	1.0	109	-5	7	07/31/2023	13:55	LB126674
	Chromium	49.1	52.0	94	42	62	07/31/2023	13:55	LB126674
	Copper	6.72	2.0	336	-18	22	07/31/2023	13:55	LB126674
	Lead	-1.35			-12	12	07/31/2023	13:55	LB126674
	Manganese	12.2	7.0	174	-13	27	07/31/2023	13:55	LB126674
	Nickel	0.53	2.0	26	-38	42	07/31/2023	13:55	LB126674
	Selenium	19.5			-20	20	07/31/2023	13:55	LB126674
	Silver	-2.56			-10	10	07/31/2023	13:55	LB126674
	Zinc	2.74			-40	40	07/31/2023	13:55	LB126674
ICSAB01	Arsenic	90.1	100	90	85	120	07/31/2023	13:59	LB126674
	Barium	524	540	97	440	640	07/31/2023	13:59	LB126674
	Beryllium	502	500	100	430	580	07/31/2023	13:59	LB126674
	Cadmium	1050	970	108	820	1100	07/31/2023	13:59	LB126674
	Chromium	560	540	104	460	620	07/31/2023	13:59	LB126674
	Copper	504	510	99	430	590	07/31/2023	13:59	LB126674

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Lead	53.6	49.0	109	37	61	07/31/2023	13:59	LB126674
	Manganese	511	510	100	430	590	07/31/2023	13:59	LB126674
	Nickel	1020	950	107	810	1100	07/31/2023	13:59	LB126674
	Selenium	60.4	46.0	131	26	66	07/31/2023	13:59	LB126674
	Silver	218	200	109	170	230	07/31/2023	13:59	LB126674
	Zinc	1060	950	112	810	1100	07/31/2023	13:59	LB126674

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Water **sample id:** O3637-01 **client id:** A508MS

Percent Solids for Sample: NA **Spiked ID:** O3637-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	436		13.2		400	106		P
Barium	ug/L	75 - 125	430		383		100	47	N	P
Beryllium	ug/L	75 - 125	91.3		0.64	J	100	91		P
Cadmium	ug/L	75 - 125	99.7		1.40	J	100	98		P
Chromium	ug/L	75 - 125	246		59.9		200	93		P
Copper	ug/L	75 - 125	198		58.4		150	93		P
Lead	ug/L	75 - 125	706		240		500	93		P
Manganese	ug/L	75 - 125	1090		1180		100	-89		P
Mercury	ug/L	75 - 125	6.37		2.93		4.0	86		CV
Nickel	ug/L	75 - 125	259		18.0	J	250	97		P
Selenium	ug/L	75 - 125	941		10.0	U	1000	94		P
Silver	ug/L	75 - 125	37.4		5.00	U	37.5	100		P
Zinc	ug/L	75 - 125	401		337		100	64	N	P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Water **sample id:** O3637-01 **client id:** A508MSD

Percent Solids for Sample: NA **Spiked ID:** O3637-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	430		13.2		400	104		P
Barium	ug/L	75 - 125	423		383		100	40	N	P
Beryllium	ug/L	75 - 125	90.9		0.64	J	100	90		P
Cadmium	ug/L	75 - 125	98.2		1.40	J	100	97		P
Chromium	ug/L	75 - 125	242		59.9		200	91		P
Copper	ug/L	75 - 125	195		58.4		150	91		P
Lead	ug/L	75 - 125	693		240		500	91		P
Manganese	ug/L	75 - 125	1070		1180		100	-108		P
Mercury	ug/L	75 - 125	6.40		2.93		4.0	87		CV
Nickel	ug/L	75 - 125	255		18.0	J	250	95		P
Selenium	ug/L	75 - 125	921		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.7		5.00	U	37.5	98		P
Zinc	ug/L	75 - 125	390		337		100	54	N	P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Solid **sample id:** O3645-02 **client id:** SB-04-(1-5)MS

Percent Solids for Sample: 91.3 **Spiked ID:** O3645-09 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.0		1.15		36.7	92		P
Barium	mg/Kg	75 - 125	35.4		27.7		9.2	84		P
Beryllium	mg/Kg	75 - 125	6.97		0.23	J	9.2	73	N	P
Cadmium	mg/Kg	75 - 125	10.6		1.81		9.2	96		P
Chromium	mg/Kg	75 - 125	17.4		4.23		18.3	72	N	P
Copper	mg/Kg	75 - 125	26.9		15.6		13.7	82		P
Lead	mg/Kg	75 - 125	133		84.4		45.8	105		P
Manganese	mg/Kg	75 - 125	490		483		9.2	76		P
Mercury	mg/Kg	80 - 120	6.41	D	6.05	D	0.27	135		CV
Nickel	mg/Kg	75 - 125	31.2		9.56		22.9	94		P
Selenium	mg/Kg	75 - 125	73.5		0.90	U	91.7	80		P
Silver	mg/Kg	75 - 125	2.83		0.45	U	3.4	82		P
Zinc	mg/Kg	75 - 125	330		314		9.2	171		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Solid **sample id:** O3645-02 **client id:** SB-04-(1-5)MSD

Percent Solids for Sample: 91.3 **Spiked ID:** O3645-10 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	34.0		1.15		36.2	91		P
Barium	mg/Kg	75 - 125	40.4		27.7		9.1	140	N	P
Beryllium	mg/Kg	75 - 125	6.81		0.23	J	9.1	73	N	P
Cadmium	mg/Kg	75 - 125	10.3		1.81		9.1	94		P
Chromium	mg/Kg	75 - 125	16.9		4.23		18.1	70	N	P
Copper	mg/Kg	75 - 125	34.0		15.6		13.6	136	N	P
Lead	mg/Kg	75 - 125	133		84.4		45.3	107		P
Manganese	mg/Kg	75 - 125	496		483		9.1	136		P
Mercury	mg/Kg	80 - 120	6.17	D	6.05	D	0.27	45		CV
Nickel	mg/Kg	75 - 125	29.2		9.56		22.6	87		P
Selenium	mg/Kg	75 - 125	72.2		0.90	U	90.5	80		P
Silver	mg/Kg	75 - 125	2.80		0.45	U	3.4	82		P
Zinc	mg/Kg	75 - 125	299		314		9.1	-167		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Level:** LOW **Client ID:** A508A

Sample ID: O3637-01 **Spiked ID:** O3637-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	476		383		100	93		P
Zinc	ug/L	75 - 125	435		337		100	98		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Level:** LOW **Client ID:** SB-04-(1-5)A

Sample ID: O3645-02 **Spiked ID:** O3645-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	mg/Kg	75 - 125	33.5		27.7		9.00	65		P
Beryllium	mg/Kg	75 - 125	6.60		0.23	J	9.00	71		P
Chromium	mg/Kg	75 - 125	16.3		4.23		18.0	67		P
Copper	mg/Kg	75 - 125	26.8		15.6		13.5	83		P

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Sample ID:** O3637-01 **Client ID:** A508DUP

Percent Solids for Sample: NA **Duplicate ID** O3637-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	13.2		15.4		15		P
Barium	ug/L	20	383		381		1		P
Beryllium	ug/L	20	0.64	J	0.62	J	4		P
Cadmium	ug/L	20	1.40	J	1.40	J	0		P
Chromium	ug/L	20	59.9		60.7		1		P
Copper	ug/L	20	58.4		59.1		1		P
Lead	ug/L	20	240		244		2		P
Manganese	ug/L	20	1180		1180		0		P
Mercury	ug/L	20	2.93		2.48		17		CV
Nickel	ug/L	20	18.0	J	18.1	J	1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Zinc	ug/L	20	337		342		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Sample ID:** O3637-01MS **Client ID:** A508MSD

Percent Solids for Sample: NA **Duplicate ID** O3637-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	436		430		1		P
Barium	ug/L	20	430		423		2		P
Beryllium	ug/L	20	91.3		90.9		0		P
Cadmium	ug/L	20	99.7		98.2		2		P
Chromium	ug/L	20	246		242		2		P
Copper	ug/L	20	198		195		2		P
Lead	ug/L	20	706		693		2		P
Manganese	ug/L	20	1090		1070		2		P
Mercury	ug/L	20	6.37		6.40		0		CV
Nickel	ug/L	20	259		255		2		P
Selenium	ug/L	20	941		921		2		P
Silver	ug/L	20	37.4		36.7		2		P
Zinc	ug/L	20	401		390		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Sample ID:** O3645-02 **Client ID:** SB-04-(1-5)DUP

Percent Solids for Sample: 91.3 **Duplicate ID** O3645-02DUP **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	1.15		0.98		16		P
Barium	mg/Kg	20	27.7		27.2		2		P
Beryllium	mg/Kg	20	0.23	J	0.23	J	2		P
Cadmium	mg/Kg	20	1.81		1.81		0		P
Chromium	mg/Kg	20	4.23		4.28		1		P
Copper	mg/Kg	20	15.6		15.3		2		P
Lead	mg/Kg	20	84.4		84.7		0		P
Manganese	mg/Kg	20	483		472		2		P
Mercury	mg/Kg	20	6.05	D	6.66	D	10		CV
Nickel	mg/Kg	20	9.56		9.59		0		P
Selenium	mg/Kg	20	0.90	U	0.90	U			P
Silver	mg/Kg	20	0.45	U	0.45	U			P
Zinc	mg/Kg	20	314		318		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Sample ID:** O3645-09 **Client ID:** SB-04-(1-5)MSD

Percent Solids for Sample: 91.3 **Duplicate ID** O3645-10 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	35.0		34.0		3		P
Barium	mg/Kg	20	35.4		40.4		13		P
Beryllium	mg/Kg	20	6.97		6.81		2		P
Cadmium	mg/Kg	20	10.6		10.3		3		P
Chromium	mg/Kg	20	17.4		16.9		3		P
Copper	mg/Kg	20	26.9		34.0		23	*	P
Lead	mg/Kg	20	133		133		0		P
Manganese	mg/Kg	20	490		496		1		P
Mercury	mg/Kg	20	6.41	D	6.17	D	4		CV
Nickel	mg/Kg	20	31.2		29.2		7		P
Selenium	mg/Kg	20	73.5		72.2		2		P
Silver	mg/Kg	20	2.83		2.80		1		P
Zinc	mg/Kg	20	330		299		10		P

"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: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154230BS							
Arsenic	ug/L	400	414		104	80 - 120	P
Barium	ug/L	100	100		100	80 - 120	P
Beryllium	ug/L	100	94.8		95	80 - 120	P
Cadmium	ug/L	100	98.2		98	80 - 120	P
Chromium	ug/L	200	197		98	80 - 120	P
Copper	ug/L	150	154		103	80 - 120	P
Lead	ug/L	500	490		98	80 - 120	P
Manganese	ug/L	100	100		100	80 - 120	P
Nickel	ug/L	250	240		96	80 - 120	P
Selenium	ug/L	1000	1010		101	80 - 120	P
Silver	ug/L	37.5	37.4		100	80 - 120	P
Zinc	ug/L	100	102		102	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154232BS							
Arsenic	mg/Kg	36.7	38.4		105	80 - 120	P
Barium	mg/Kg	9.2	9.13		99	80 - 120	P
Beryllium	mg/Kg	9.2	8.60		94	80 - 120	P
Cadmium	mg/Kg	9.2	8.88		96	80 - 120	P
Chromium	mg/Kg	18.3	18.0		98	80 - 120	P
Copper	mg/Kg	13.8	14.2		103	80 - 120	P
Lead	mg/Kg	45.9	44.4		97	80 - 120	P
Manganese	mg/Kg	9.2	8.94		97	80 - 120	P
Nickel	mg/Kg	22.9	21.9		96	80 - 120	P
Selenium	mg/Kg	91.7	93.3		102	80 - 120	P
Silver	mg/Kg	3.4	3.41		100	80 - 120	P
Zinc	mg/Kg	9.2	9.36		102	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154278BS							
Mercury	mg/Kg	0.25	0.23		92	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154279BS							
Mercury	ug/L	4.0	3.58		90	80 - 120	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

A508L

Lab Name: Chemtech Consulting Group **Contract:** LABE01

Lab Code: CHEM **Lb No.:** lb126517 **Lab Sample ID :** O3637-01L **SDG No.:** O3645

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	13.2		19.2	J	45		P
Barium	383		393		3		P
Beryllium	0.64	J	0.70	J	9		P
Cadmium	1.40	J	1.22	J	13		P
Chromium	59.9		64.6		8		P
Copper	58.4		67.4		15		P
Lead	240		241		1		P
Manganese	1180		1250		6		P
Mercury	2.93		2.39		18		CV
Nickel	18.0	J	18.1	J	1		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Zinc	337		351		4		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

SB-04-(1-5)L

Lab Name: Chemtech Consulting Group **Contract:** LABE01

Lab Code: CHEM **Lb No.:** lb126517 **Lab Sample ID :** O3645-02L **SDG No.:** O3645

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	1.15		1.96	J	71		P
Barium	27.7		32.3		16		P
Beryllium	0.23	J	0.28	J	20		P
Cadmium	1.81		1.74		4		P
Chromium	4.23		5.50		30		P
Copper	15.6		17.9		15		P
Lead	84.4		85.9		2		P
Manganese	483		593		23		P
Mercury	6.05	D	6.12	D	1		CV
Nickel	9.56		9.69		1		P
Selenium	0.90	U	4.49	U			P
Silver	0.45	U	2.24	U			P
Zinc	314		382		22		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	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
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	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
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	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
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	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
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154230**						
O3637-01DUP	A508DUP	DUP	WATER	07/17/2023	50.0	25.0	
O3637-01MS	A508MS	MS	WATER	07/17/2023	50.0	25.0	
O3637-01MSD	A508MSD	MSD	WATER	07/17/2023	50.0	25.0	
O3645-08	RINSATE-BLANK	SAM	WATER	07/17/2023	50.0	25.0	
PB154230BL	PB154230BL	MB	WATER	07/17/2023	50.0	25.0	
PB154230BS	PB154230BS	LCS	WATER	07/17/2023	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154232**						
O3645-01	SB-02-(3-5)	SAM	SOLID	07/18/2023	2.04	100.0	86.30
O3645-02	SB-04-(1-5)	SAM	SOLID	07/18/2023	2.44	100.0	91.30
O3645-02DUP	SB-04-(1-5)DUP	DUP	SOLID	07/18/2023	2.43	100.0	91.30
O3645-03	SB-07-(1-3)	SAM	SOLID	07/18/2023	2.36	100.0	79.50
O3645-04	SB-08-(0.5-2.0)	SAM	SOLID	07/18/2023	2.14	100.0	74.60
O3645-05	SB-09-(2.0-4.0)	SAM	SOLID	07/18/2023	2.32	100.0	79.40
O3645-06	SB-10-(0.5-2.0)	SAM	SOLID	07/18/2023	2.42	100.0	83.30
O3645-07	DUP	SAM	SOLID	07/18/2023	2.32	100.0	80.80
O3645-09	SB-04-(1-5)MS	MS	SOLID	07/18/2023	2.39	100.0	91.30
O3645-10	SB-04-(1-5)MSD	MSD	SOLID	07/18/2023	2.42	100.0	91.30
PB154232BL	PB154232BL	MB	SOLID	07/18/2023	2.20	100.0	100.00
PB154232BS	PB154232BS	LCS	SOLID	07/18/2023	2.18	100.0	100.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154278**						
O3645-01	SB-02-(3-5)	SAM	SOLID	07/18/2023	0.58	35.0	86.30
O3645-02	SB-04-(1-5)	SAM	SOLID	07/18/2023	0.57	35.0	91.30
O3645-02DUP	SB-04-(1-5)DUP	DUP	SOLID	07/18/2023	0.56	35.0	91.30
O3645-03	SB-07-(1-3)	SAM	SOLID	07/18/2023	0.59	35.0	79.50
O3645-04	SB-08-(0.5-2.0)	SAM	SOLID	07/18/2023	0.52	35.0	74.60
O3645-05	SB-09-(2.0-4.0)	SAM	SOLID	07/18/2023	0.50	35.0	79.40
O3645-06	SB-10-(0.5-2.0)	SAM	SOLID	07/18/2023	0.53	35.0	83.30
O3645-07	DUP	SAM	SOLID	07/18/2023	0.54	35.0	80.80
O3645-09	SB-04-(1-5)MS	MS	SOLID	07/18/2023	0.56	35.0	91.30
O3645-10	SB-04-(1-5)MSD	MSD	SOLID	07/18/2023	0.56	35.0	91.30
PB154278BL	PB154278BL	MB	SOLID	07/18/2023	0.52	35.0	100.00
PB154278BS	PB154278BS	LCS	SOLID	07/18/2023	0.56	35.0	100.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154279**						
O3637-01DUP	A508DUP	DUP	WATER	07/18/2023	30.0	30.0	
O3637-01MS	A508MS	MS	WATER	07/18/2023	30.0	30.0	
O3637-01MSD	A508MSD	MSD	WATER	07/18/2023	30.0	30.0	
O3645-08	RINSATE-BLANK	SAM	WATER	07/18/2023	30.0	30.0	
PB154279BL	PB154279BL	MB	WATER	07/18/2023	30.0	30.0	
PB154279BS	PB154279BS	LCS	WATER	07/18/2023	30.0	30.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126505

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0936	HG
S0.2	S0.2	1	0938	HG
S2.5	S2.5	1	0940	HG
S5	S5	1	0943	HG
S7.5	S7.5	1	0945	HG
S10	S10	1	0947	HG
ICV75	ICV75	1	0950	HG
ICB75	ICB75	1	0952	HG
CCV61	CCV61	1	0955	HG
CCB61	CCB61	1	0957	HG
CRA	CRA	1	0959	HG
PB154279BL	PB154279BL	1	1006	HG
PB154279BS	PB154279BS	1	1008	HG
O3637-01DUP	A508DUP	1	1013	HG
O3637-01MS	A508MS	1	1015	HG
O3637-01MSD	A508MSD	1	1017	HG
O3645-08	RINSATE-BLANK	1	1020	HG
CCV62	CCV62	1	1022	HG
CCB62	CCB62	1	1024	HG
O3637-01L	A508L	5	1027	HG
CCV63	CCV63	1	1031	HG
CCB63	CCB63	1	1033	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126507

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1132	HG
S0.2	S0.2	1	1134	HG
S2.5	S2.5	1	1136	HG
S5	S5	1	1139	HG
S7.5	S7.5	1	1144	HG
S10	S10	1	1146	HG
ICV76	ICV76	1	1149	HG
ICB76	ICB76	1	1151	HG
CCV64	CCV64	1	1153	HG
CCB64	CCB64	1	1155	HG
CRA	CRA	1	1158	HG
CCV65	CCV65	1	1223	HG
CCB65	CCB65	1	1225	HG
CCV66	CCV66	1	1250	HG
CCB66	CCB66	1	1253	HG
PB154278BL	PB154278BL	1	1304	HG
PB154278BS	PB154278BS	1	1306	HG
O3645-01	SB-02-(3-5)	1	1308	HG
O3645-03	SB-07-(1-3)	1	1314	HG
CCV67	CCV67	1	1317	HG
CCB67	CCB67	1	1319	HG
O3645-05	SB-09-(2.0-4.0)	1	1323	HG
O3645-07	DUP	1	1328	HG
CCV68	CCV68	1	1344	HG
CCB68	CCB68	1	1347	HG
CCV69	CCV69	1	1407	HG
CCB69	CCB69	1	1409	HG
O3645-02	SB-04-(1-5)	10	1420	HG
O3645-02DUP	SB-04-(1-5)DUP	10	1425	HG
O3645-09	SB-04-(1-5)MS	10	1427	HG
O3645-10	SB-04-(1-5)MSD	10	1430	HG
O3645-02L	SB-04-(1-5)L	50	1432	HG
CCV70	CCV70	1	1442	HG
CCB70	CCB70	1	1444	HG
O3645-04	SB-08-(0.5-2.0)	5	1447	HG
O3645-06	SB-10-(0.5-2.0)	100	1457	HG
CCV71	CCV71	1	1459	HG
CCB71	CCB71	1	1502	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126517

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1225	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1229	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1233	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1237	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1241	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1245	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1305	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1313	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1317	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1321	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1325	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1337	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLCCV01	LLCCV01	1	1345	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1350	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01DUP	A508DUP	1	1450	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1454	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1458	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01L	A508L	5	1502	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01MS	A508MS	1	1506	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01MSD	A508MSD	1	1510	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01A	A508A	1	1513	Ba,Zn
PB154230BL	PB154230BL	1	1517	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154230BS	PB154230BS	1	1521	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1603	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1607	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154232BL	PB154232BL	1	1611	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154232BS	PB154232BS	1	1615	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-01	SB-02-(3-5)	1	1635	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02	SB-04-(1-5)	1	1639	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02DUP	SB-04-(1-5)DUP	1	1643	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02L	SB-04-(1-5)L	5	1647	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1651	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1655	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-09	SB-04-(1-5)MS	1	1659	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-10	SB-04-(1-5)MSD	1	1703	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02A	SB-04-(1-5)A	1	1707	Ba,Be,Cr,Cu
O3645-03	SB-07-(1-3)	1	1711	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-04	SB-08-(0.5-2.0)	1	1715	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-05	SB-09-(2.0-4.0)	1	1719	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-06	SB-10-(0.5-2.0)	1	1723	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-07	DUP	1	1727	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126517

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV05	CCV05	1	1744	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1748	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1839	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1843	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV07	CCV07	1	1926	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB07	CCB07	1	1930	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV08	CCV08	1	2014	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB08	CCB08	1	2018	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV09	CCV09	1	2103	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB09	CCB09	1	2107	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV10	CCV10	1	2119	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB10	CCB10	1	2122	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

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Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

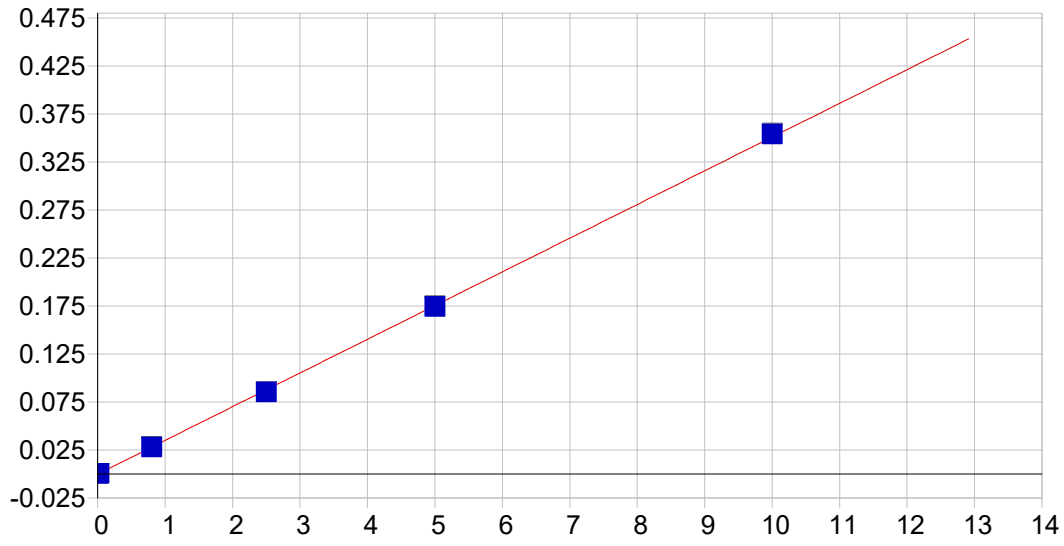
Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126674

Start date: 07/31/2023 **End date:** 07/31/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1301	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1306	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1310	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1314	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1317	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1321	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1325	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLCCV01	LLCCV01	1	1342	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1347	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1351	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1355	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1359	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1403	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1407	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1621	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1625	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1709	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1713	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-08	RINSATE-BLANK	1	1725	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1757	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1801	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV05	CCV05	1	1844	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1848	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1927	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1931	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

METAL
RAW DATA

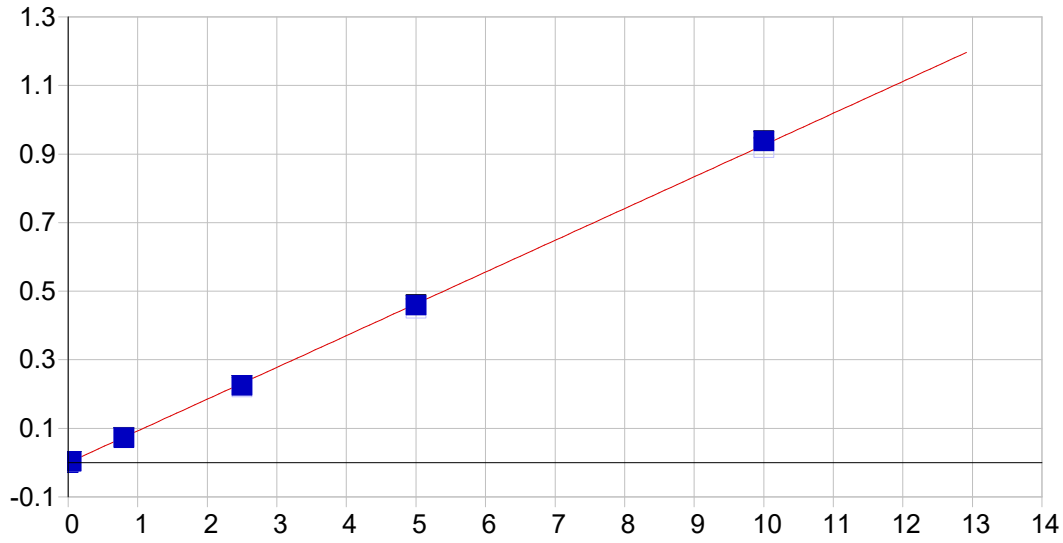


As 189.042 {479}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000139	Re-Slope:	1.000000
A1 (Gain):	0.035108	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.005978		
Predicted MQL:	0.019927		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00014	.000	1
S1	.02000	.02390	.004	19.5	.00071	.000	1
S3	2.5000	2.4373	-.063	-2.51	.08555	.000	1
S4	5.0000	4.9717	-.028	-.566	.17464	.000	1
S5	10.000	10.084	.084	.844	.35437	.001	1
S2	.80000	.80258	.003	.323	.02807	.000	1

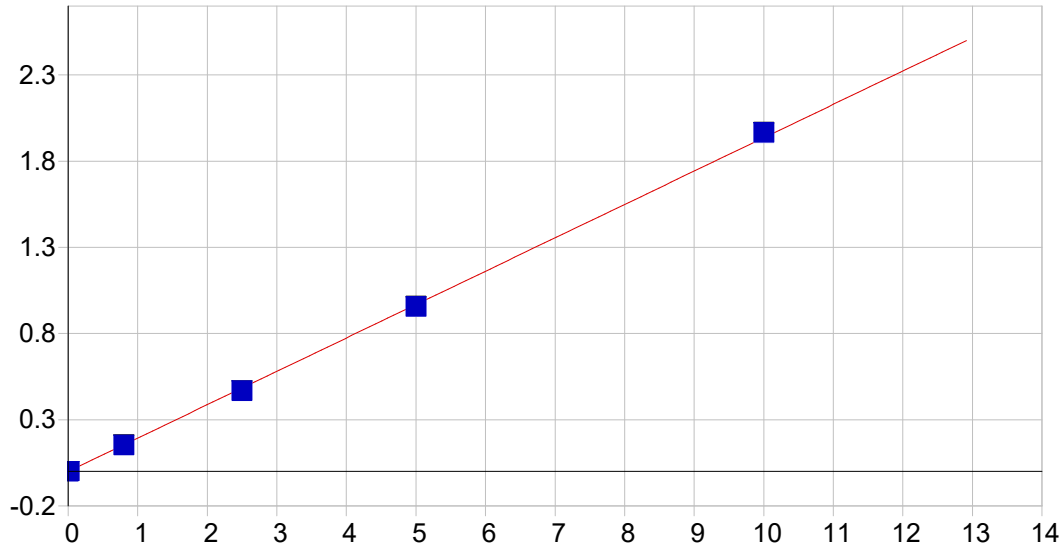


Tl 190.856 {477}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000149	Re-Slope:	1.000000
A1 (Gain):	0.092643	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999872	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.002327		
Predicted MQL:	0.007755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00015	.000	1
S1	.04000	.04343	.003	8.57	.00372	.000	1
S3	2.5000	2.4262	-.074	-2.95	.21978	.000	1
S4	5.0000	4.9576	-.042	-.849	.44946	.002	1
S5	10.000	10.124	.124	1.24	.91839	.001	1
S2	.80000	.78919	-.011	-1.35	.07142	.000	1

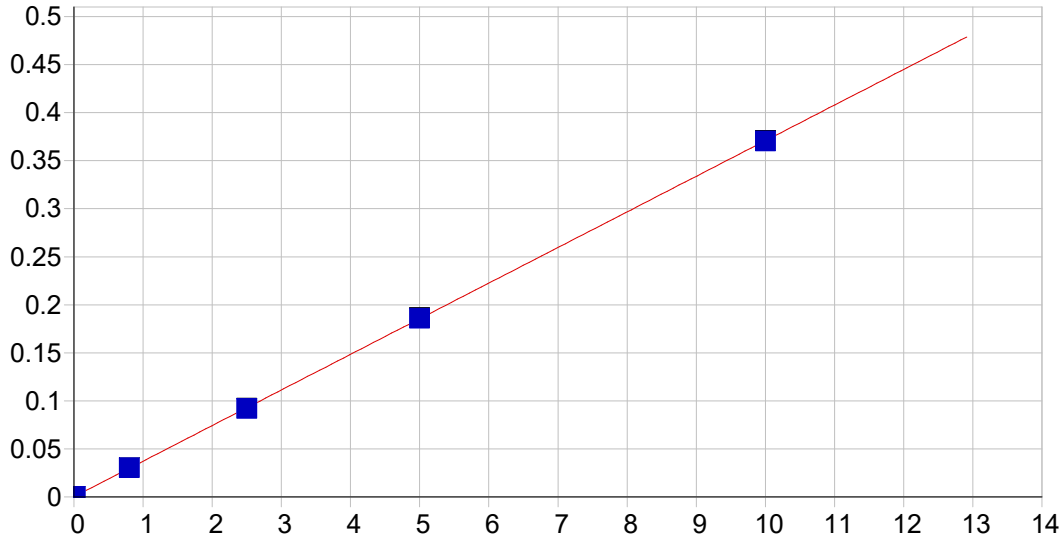


Pb 220.353 {453}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.193608	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999834	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.002222		
Predicted MQL:	0.007408		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.01200	.01172	-.000	-2.32	.00223	.000	1
S3	2.5000	2.4149	-.085	-3.41	.46686	.001	1
S4	5.0000	4.9405	-.060	-1.19	.95516	.003	1
S5	10.000	10.154	.154	1.54	1.9631	.002	1
S2	.80000	.79128	-.009	-1.09	.15299	.001	1

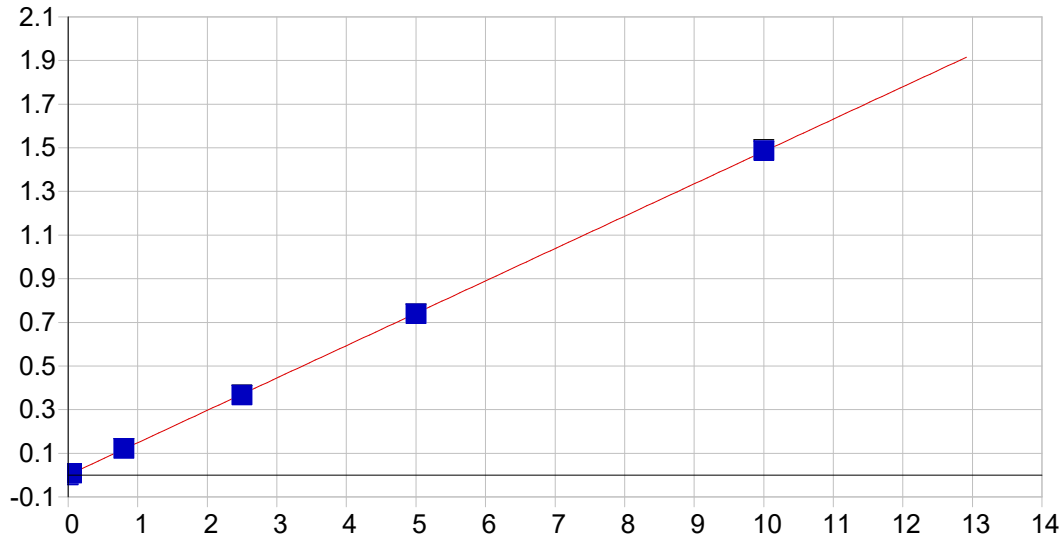


Se 196.090 {472}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.037071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.006266		
Predicted MQL:	0.020888		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.02000	.02368	.004	18.4	.00101	.000	1
S3	2.5000	2.4790	-.021	-.841	.09199	.000	1
S4	5.0000	5.0118	.012	.236	.18584	.001	1
S5	10.000	9.9881	-.012	-.119	.37023	.001	1
S2	.80000	.81748	.017	2.19	.03042	.000	1

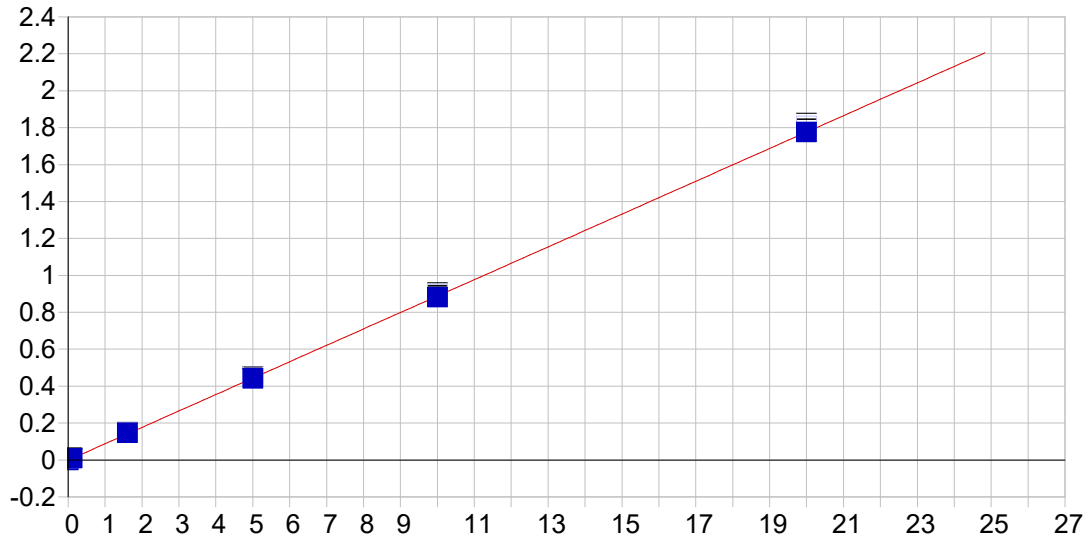


Sb 206.833 {463}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000136	Re-Slope:	1.000000
A1 (Gain):	0.148302	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.002102		
Predicted MQL:	0.007007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00014	.000	1
S1	.05000	.05381	.004	7.62	.00809	.000	1
S3	2.5000	2.4686	-.031	-1.25	.36620	.000	1
S4	5.0000	4.9781	-.022	-.438	.73832	.001	1
S5	10.000	10.029	.029	.293	1.4874	.004	1
S2	.80000	.82018	.020	2.52	.12176	.000	1

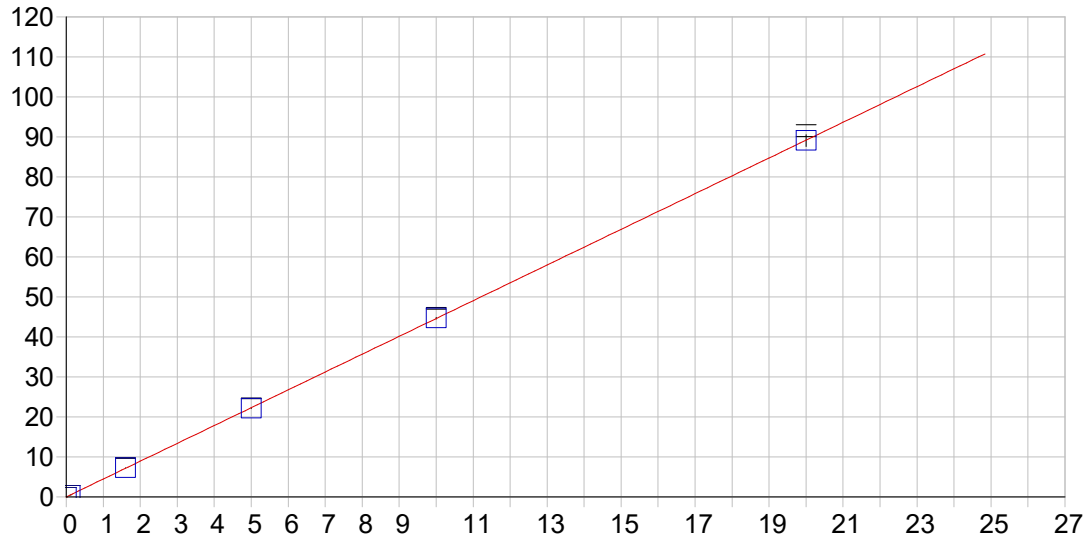


Al 396.152 { 85}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000908	Re-Slope:	1.000000
A1 (Gain):	0.088857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.009407		
Predicted MQL:	0.031356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00091	.000	1
S1	.10000	.11825	.018	18.2	.01026	.001	1
S3	5.0000	4.9815	-.019	-.370	.44999	.002	1
S4	10.000	9.9371	-.063	-.629	.89859	.006	1
S5	20.000	20.003	.003	.013	1.8095	.015	1
S2	1.6000	1.6596	.060	3.73	.14921	.001	1

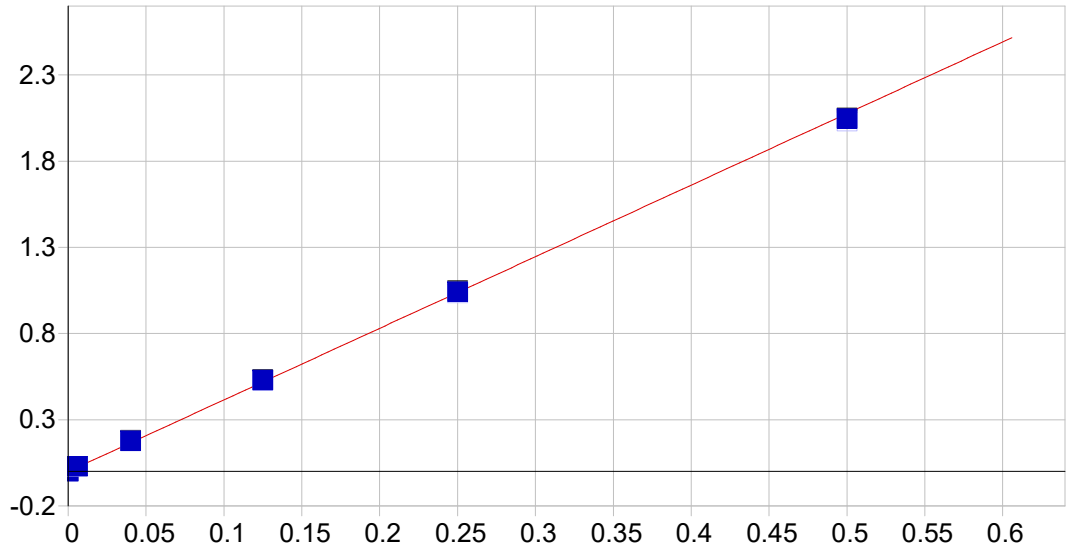


Ba 493.409 { 68}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005916	Re-Slope:	1.000000
A1 (Gain):	4.459211	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.002038		
Predicted MDL:	0.000381		
Predicted MQL:	0.001269		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00588	.000	1
S1	.10000	.10780	.008	7.80	.48663	.005	1
S3	5.0000	4.9667	-.033	-.666	22.154	.070	1
S4	10.000	10.022	.022	.216	44.695	.191	1
S5	20.000	19.976	-.024	-.120	89.083	1.49	1
S2	1.6000	1.6279	.028	1.74	7.2651	.030	1

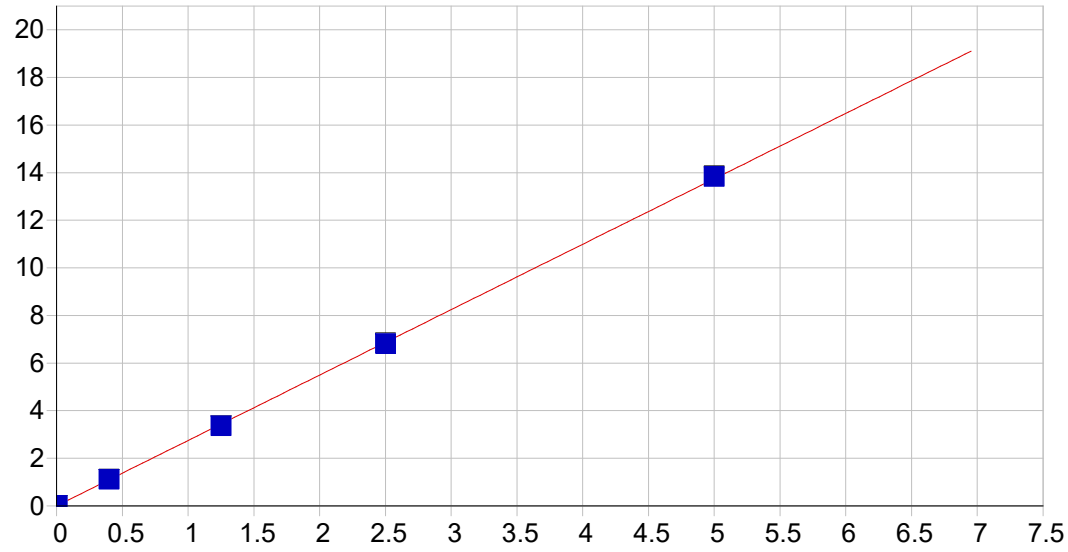


Be 234.861 {144}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000264	Re-Slope:	1.000000
A1 (Gain):	4.153651	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999683	Status:	OK.
Std Error of Est:	0.000299		
Predicted MDL:	0.000073		
Predicted MQL:	0.000243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00027	.000	1
S1	.00600	.00713	.001	18.8	.02905	.000	1
S3	.12500	.12755	.003	2.04	.52605	.002	1
S4	.25000	.25082	.001	.328	1.0346	.007	1
S5	.50000	.49267	-.007	-1.47	2.0321	.004	1
S2	.04000	.04284	.003	7.11	.17658	.002	1

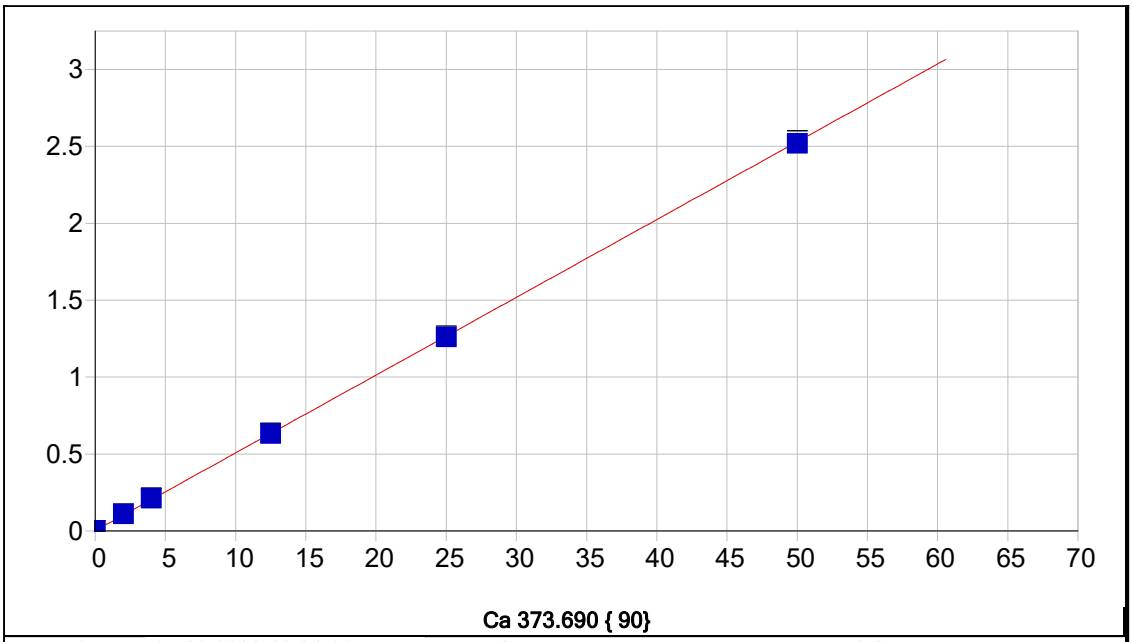


Cd 214.438 {457}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000610	Re-Slope:	1.000000
A1 (Gain):	2.748305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000285		
Predicted MDL:	0.000109		
Predicted MQL:	0.000365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00061	.000	1
S1	.00600	.00700	.001	16.6	.01985	.000	1
S3	1.2500	1.2244	-.026	-2.05	3.3658	.002	1
S4	2.5000	2.4820	-.018	-.722	6.8222	.017	1
S5	5.0000	5.0358	.036	.717	13.841	.018	1
S2	.40000	.40680	.007	1.70	1.1187	.001	1

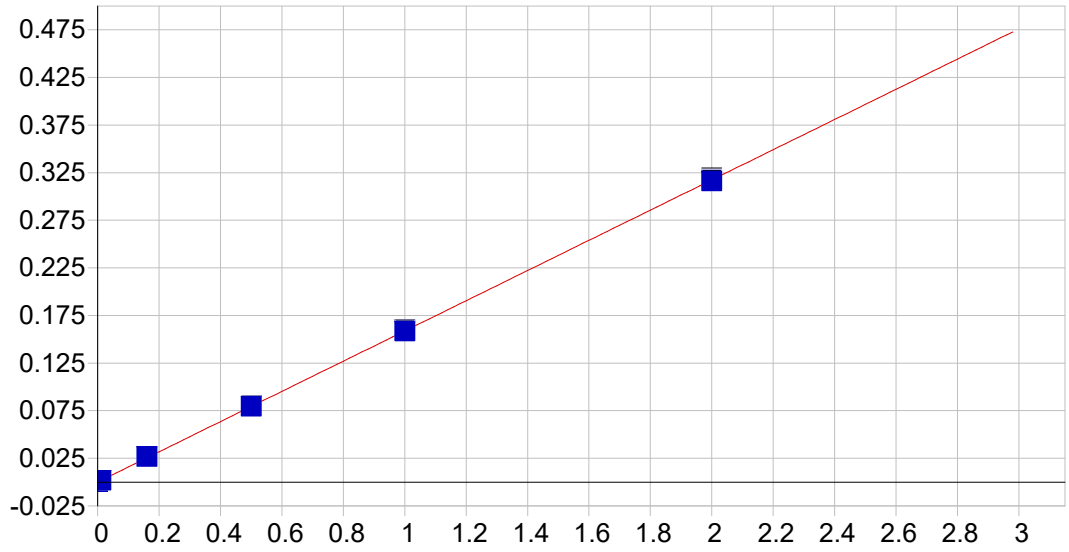


Ca 373.690 { 90}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001623	Re-Slope:	1.000000
A1 (Gain):	0.050569	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000371		
Predicted MDL:	0.011508		
Predicted MQL:	0.038359		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00021	-.000	.000	.00161	.000	1
S2	4.0000	4.1568	.157	3.92	.21174	.002	1
S3	12.500	12.477	-.023	-.185	.63231	.003	1
S4	25.000	24.907	-.093	-.370	1.2606	.006	1
S5	50.000	49.812	-.188	-.376	2.5195	.018	1
S1	2.0000	2.1467	.147	7.33	.11017	.001	1

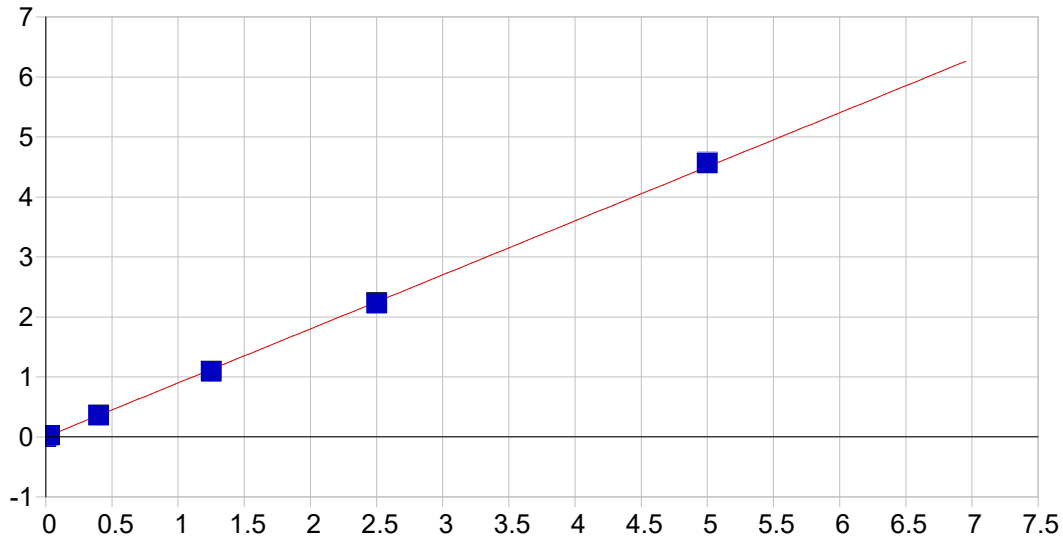


Cr 267.716 {126}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000079	Re-Slope:	1.000000
A1 (Gain):	0.158669	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.000475		
Predicted MQL:	0.001584		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.01000	.01088	.001	8.84	.00183	.000	1
S3	.50000	.50095	.001	.191	.08012	.000	1
S4	1.0000	.99956	-.000	-.044	.15980	.000	1
S5	2.0000	1.9912	-.009	-.439	.31826	.001	1
S2	.16000	.16739	.007	4.62	.02682	.000	1

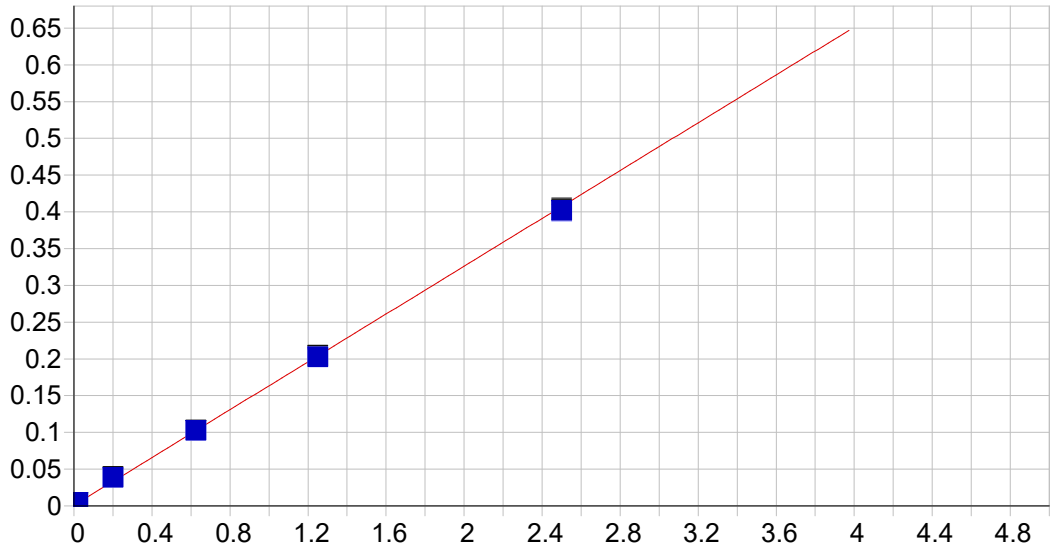


Co 228.616 {448}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000634	Re-Slope:	1.000000
A1 (Gain):	0.900483	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.000304		
Predicted MDL:	0.000336		
Predicted MQL:	0.001119		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00063	.000	1
S1	.03000	.03198	.002	6.59	.02807	.000	1
S3	1.2500	1.2114	-.039	-3.09	1.0925	.001	1
S4	2.5000	2.4709	-.029	-1.16	2.2291	.006	1
S5	5.0000	5.0663	.066	1.33	4.5709	.006	1
S2	.40000	.39941	-.001	-.147	.35978	.001	1

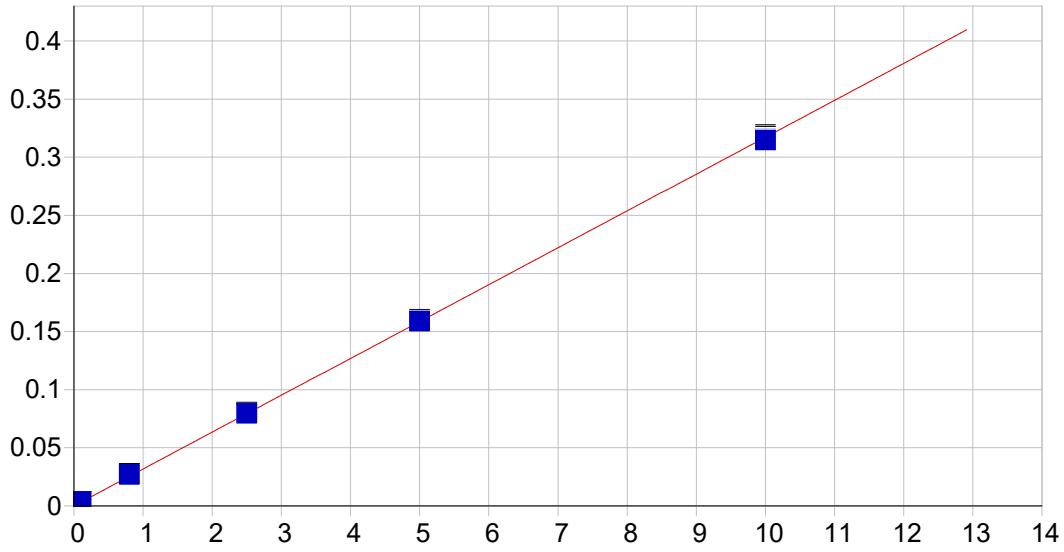


Cu 324.754 {104}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000766	Re-Slope:	1.000000
A1 (Gain):	0.162648	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999205	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.002973		
Predicted MQL:	0.009911		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00076	.000	1
S1	.02000	.02392	.004	19.6	.00466	.000	1
S3	.62500	.62811	.003	.498	.10246	.000	1
S4	1.2500	1.2423	-.008	-.617	.20189	.002	1
S5	2.5000	2.4662	-.034	-1.35	.40001	.003	1
S2	.20000	.23450	.034	17.2	.03876	.001	1

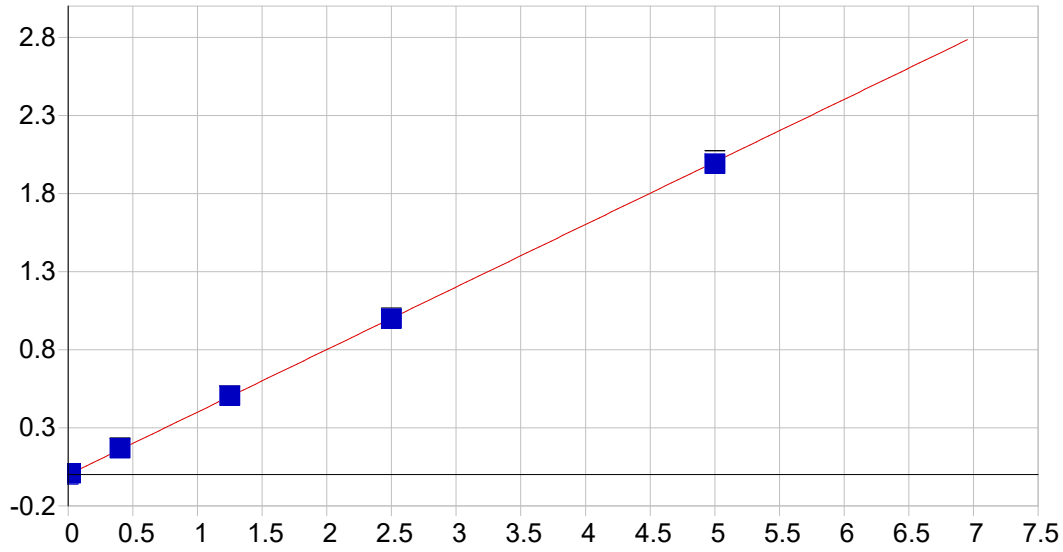


Fe 259.837 {130}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000065	Re-Slope:	1.000000
A1 (Gain):	0.031713	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.007721		
Predicted MQL:	0.025736		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00006	.000	1
S1	.10000	.11994	.020	19.9	.00388	.000	1
S3	2.5000	2.5055	.006	.222	.07991	.001	1
S4	5.0000	5.0088	.009	.175	.15968	.001	1
S5	10.000	9.9180	-.082	-.820	.31615	.003	1
S2	.80000	.84783	.048	5.98	.02708	.001	1

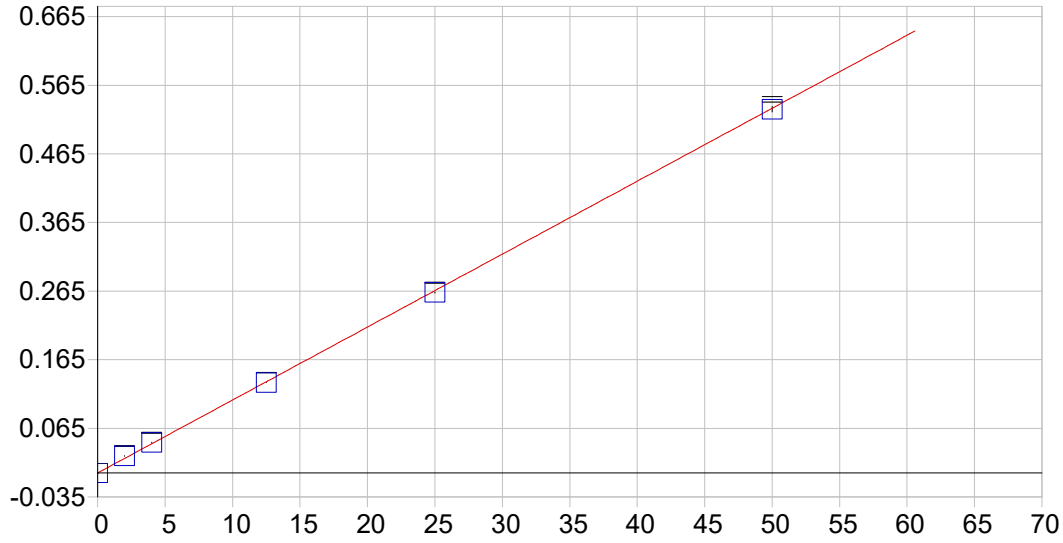


Mn 257.610 {131}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000139	Re-Slope:	1.000000
A1 (Gain):	0.400381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999885	Status:	OK.
Std Error of Est:	0.000101		
Predicted MDL:	0.000767		
Predicted MQL:	0.002556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00014	.000	1
S1	.02000	.02363	.004	18.2	.00960	.001	1
S3	1.2500	1.2601	.010	.812	.50477	.001	1
S4	2.5000	2.4928	-.007	-.287	.99840	.005	1
S5	5.0000	4.9715	-.028	-.569	1.9910	.020	1
S2	.40000	.42185	.022	5.46	.16907	.002	1

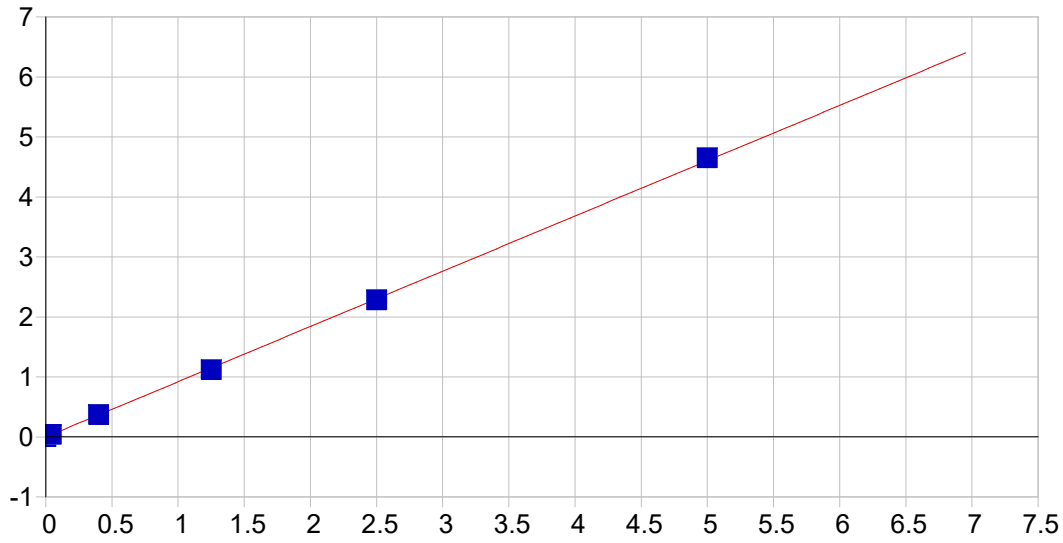


Mg 279.079 {121}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000124	Re-Slope:	1.000000
A1 (Gain):	0.010632	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999608	Status:	OK.
Std Error of Est:	0.000158		
Predicted MDL:	0.025776		
Predicted MQL:	0.085920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00039	-.000	.000	-.00013	.000	1
S2	4.0000	4.1623	.162	4.06	.04413	.001	1
S3	12.500	12.389	-.111	-.886	.13160	.000	1
S4	25.000	24.745	-.255	-1.02	.26297	.001	1
S5	50.000	49.850	-.150	-.301	.52988	.004	1
S1	2.0000	2.3539	.354	17.7	.02490	.000	1

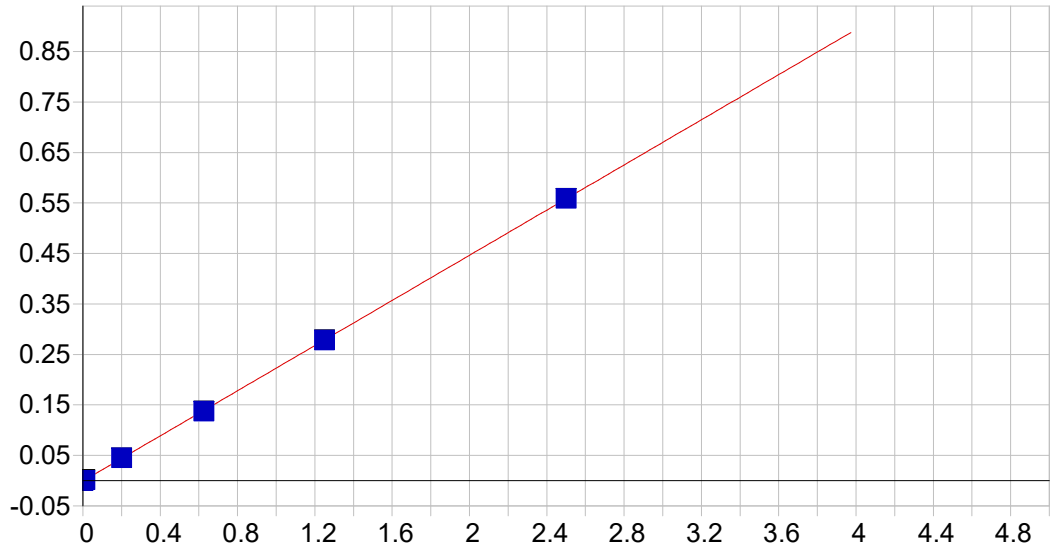


Ni 231.604 {446}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001162	Re-Slope:	1.000000
A1 (Gain):	0.920857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000286		
Predicted MDL:	0.000426		
Predicted MQL:	0.001420		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00116	.000	1
S1	.04000	.04188	.002	4.70	.03744	.000	1
S3	1.2500	1.2174	-.033	-2.61	1.1210	.002	1
S4	2.5000	2.4790	-.021	-.842	2.2838	.005	1
S5	5.0000	5.0487	.049	.974	4.6524	.004	1
S2	.40000	.40304	.003	.761	.37034	.001	1

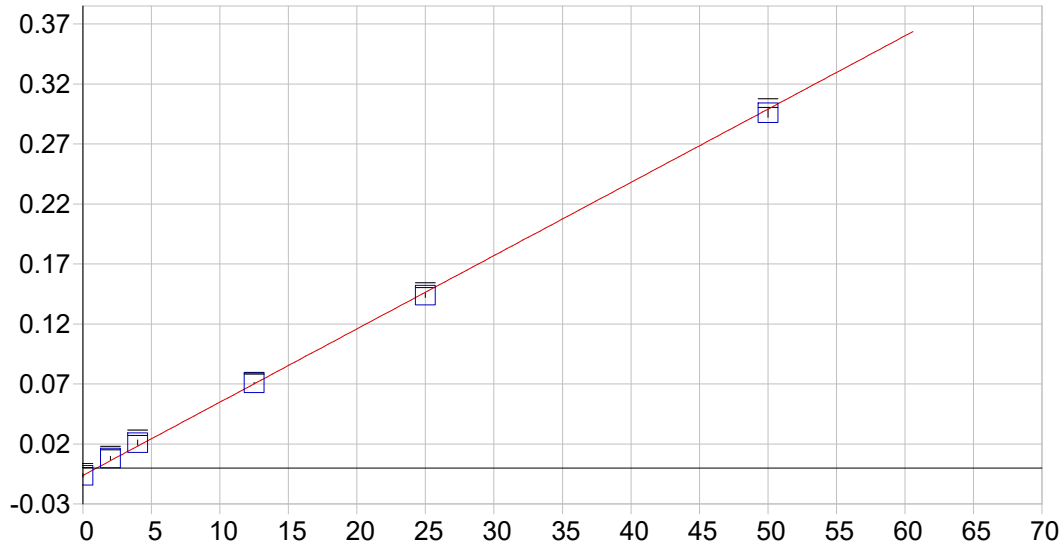


Ag 328.068 {103}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000798	Re-Slope:	1.000000
A1 (Gain):	0.223610	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.000508		
Predicted MQL:	0.001692		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00080	.000	1
S1	.01000	.01075	.001	7.46	.00160	.000	1
S3	.62500	.61761	-.007	-1.18	.13716	.000	1
S4	1.2500	1.2491	-.001	-.075	.27821	.000	1
S5	2.5000	2.5036	.004	.146	.55844	.000	1
S2	.20000	.20394	.004	1.97	.04476	.000	1

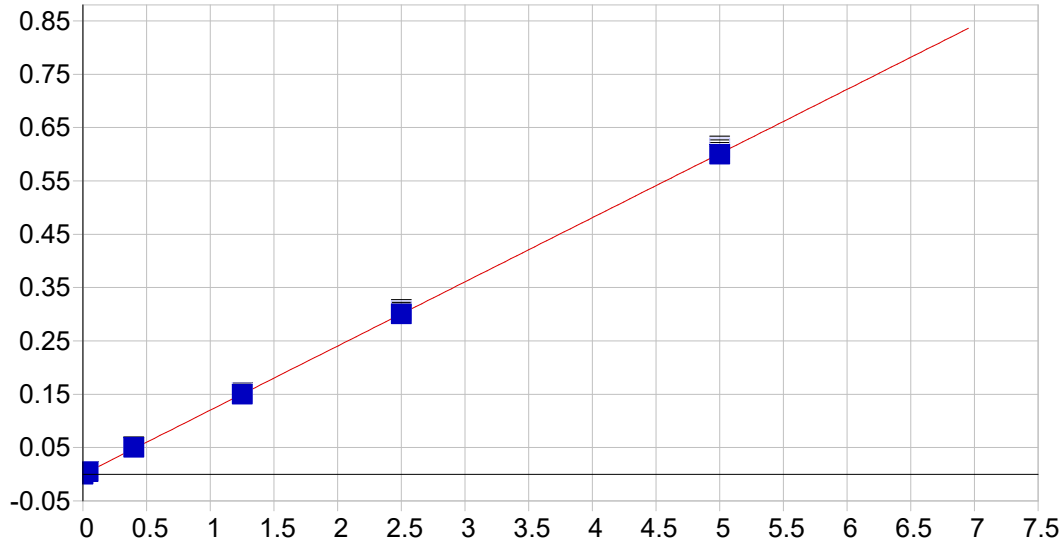


Na 818.326 { 41}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006220	Re-Slope:	1.000000
A1 (Gain):	0.006105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999288	Status:	OK.
Std Error of Est:	0.000122		
Predicted MDL:	0.238053		
Predicted MQL:	0.793510		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00056	-.001	.000	-.00622	.002	1
S2	4.0000	4.4708	.471	11.8	.02107	.002	1
S3	12.500	12.599	.099	.792	.07070	.001	1
S4	25.000	24.597	-.403	-1.61	.14394	.002	1
S5	50.000	49.473	-.527	-1.05	.29581	.004	1
S1	2.0000	2.3601	.360	18.0	.00819	.002	1

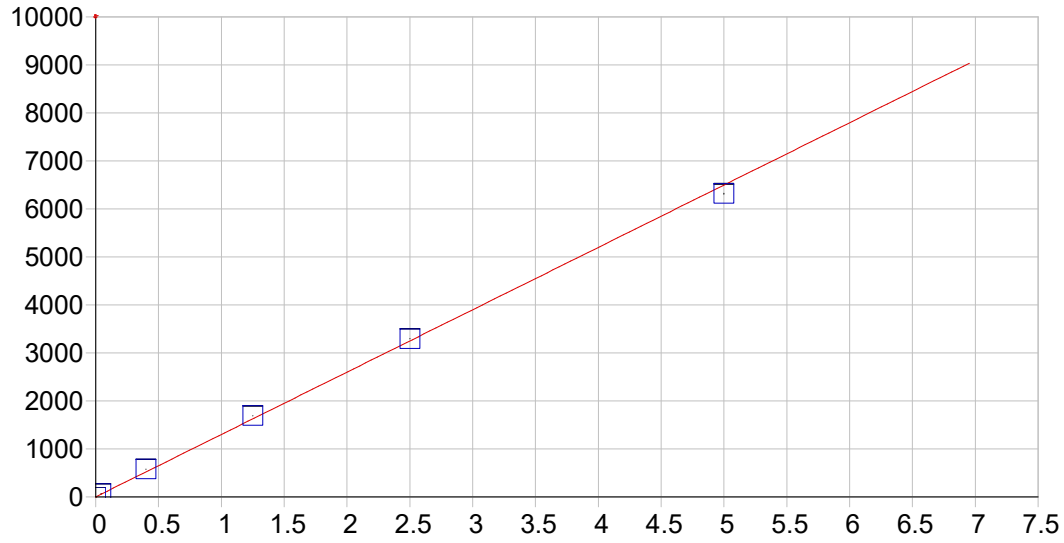


V 292.402 {115}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000167	Re-Slope:	1.000000
A1 (Gain):	0.120297	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.002667		
Predicted MQL:	0.008891		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.04000	.04167	.002	4.17	.00509	.000	1
S3	1.2500	1.2466	-.003	-.272	.15279	.000	1
S4	2.5000	2.4974	-.003	-.104	.30625	.002	1
S5	5.0000	4.9877	-.012	-.245	.61183	.004	1
S2	.40000	.41656	.017	4.14	.05090	.001	1

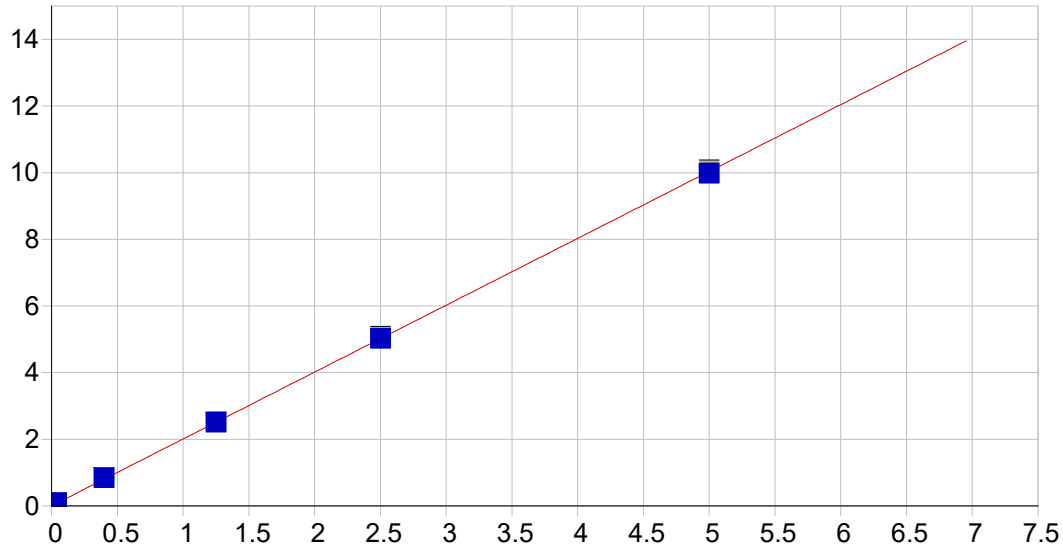


Zn 206.200 {464}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.496260	Re-Slope:	1.000000
A1 (Gain):	1299.183642	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999304	Status:	OK.
Std Error of Est:	1.138117		
Predicted MDL:	0.000368		
Predicted MQL:	0.001226		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	1.4786	.067	1
S1	.04000	.04819	.008	20.5	64.106	.392	1
S3	1.2500	1.3009	.051	4.08	1691.7	2.14	1
S4	2.5000	2.5363	.036	1.45	3296.6	6.10	1
S5	5.0000	4.8614	-.139	-2.77	6317.3	10.4	1
S2	.40000	.44325	.043	10.8	577.36	1.77	1

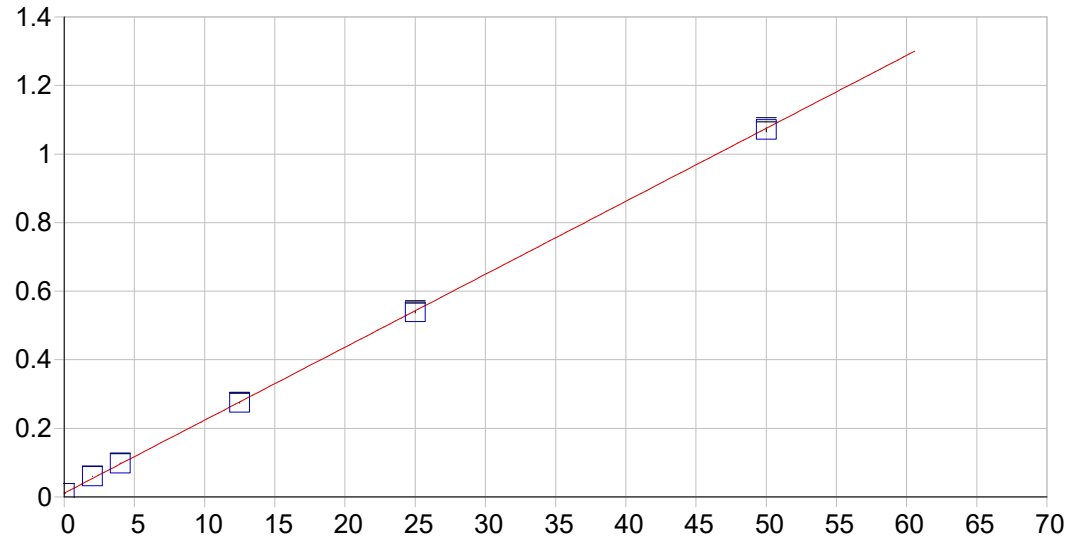


Zn 213.856 {158}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001218	Re-Slope:	1.000000
A1 (Gain):	2.007097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000661		
Predicted MDL:	0.000441		
Predicted MQL:	0.001471		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00120	.000	1
S1	.04000	.04532	.005	13.3	.09265	.001	1
S3	1.2500	1.2500	.000	.004	2.5243	.015	1
S4	2.5000	2.5034	.003	.137	5.0541	.032	1
S5	5.0000	4.9718	-.028	-.563	10.037	.047	1
S2	.40000	.41937	.019	4.84	.84745	.002	1

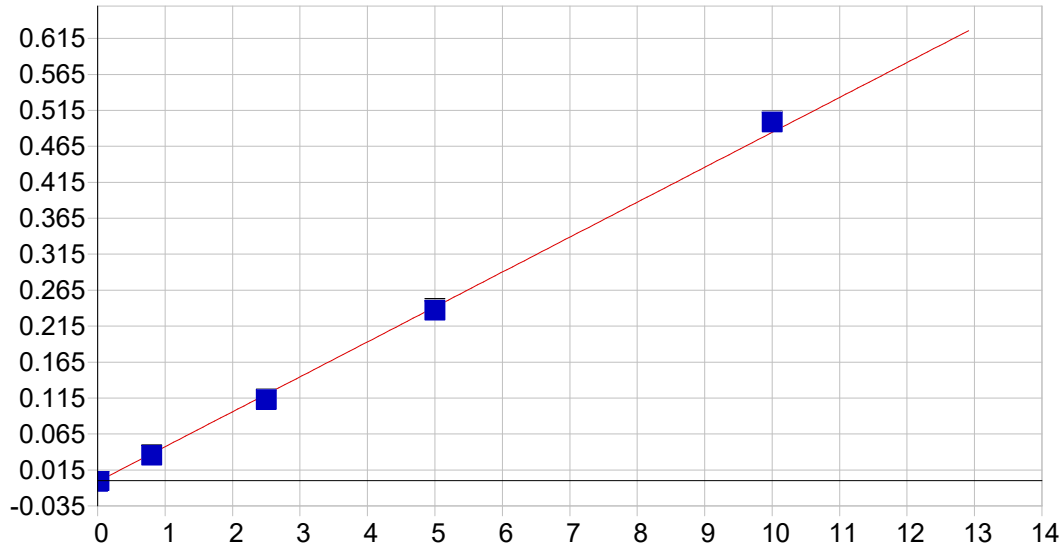


K 769.896 { 44}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011132	Re-Slope:	1.000000
A1 (Gain):	0.021275	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999707	Status:	OK.
Std Error of Est:	0.000272		
Predicted MDL:	0.063915		
Predicted MQL:	0.213049		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00033	-.000	.000	.01112	.000	1
S2	4.0000	4.0928	.093	2.32	.09820	.001	1
S3	12.500	12.405	-.095	-.756	.27505	.001	1
S4	25.000	24.856	-.144	-.577	.53993	.003	1
S5	50.000	49.828	-.172	-.343	1.0712	.006	1
S1	2.0000	2.3175	.317	15.9	.06043	.001	1

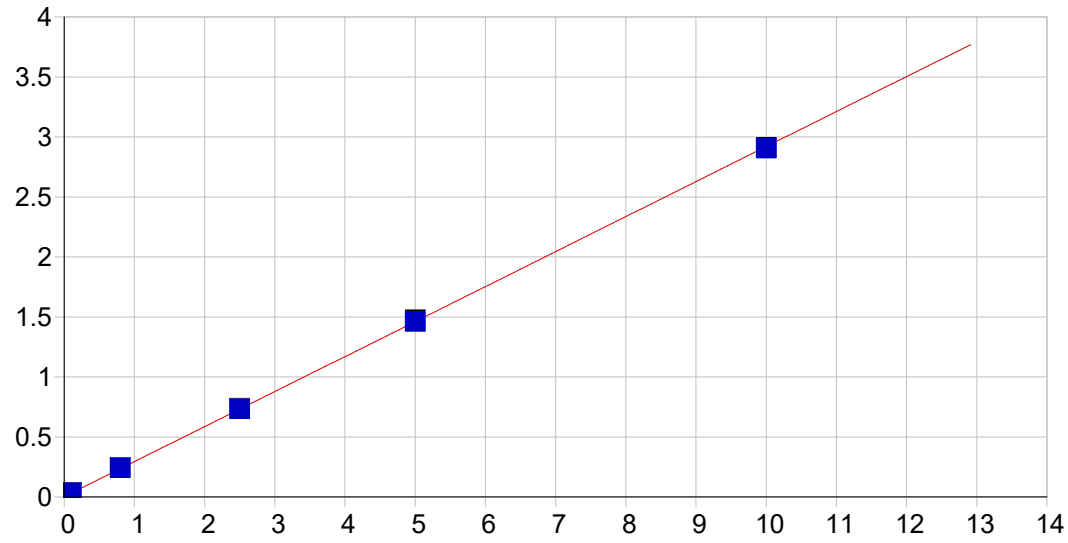


P 177.495 {490}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001248	Re-Slope:	1.000000
A1 (Gain):	0.048563	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999407	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003777		
Predicted MQL:	0.012590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00125	.000	1
S1	.02000	.02009	.000	.428	-.00026	.000	1
S3	2.5000	2.3499	-.150	-6.01	.11315	.000	1
S4	5.0000	4.9037	-.096	-1.93	.23745	.002	1
S5	10.000	10.291	.291	2.91	.49964	.001	1
S2	.80000	.75527	-.045	-5.59	.03552	.000	1

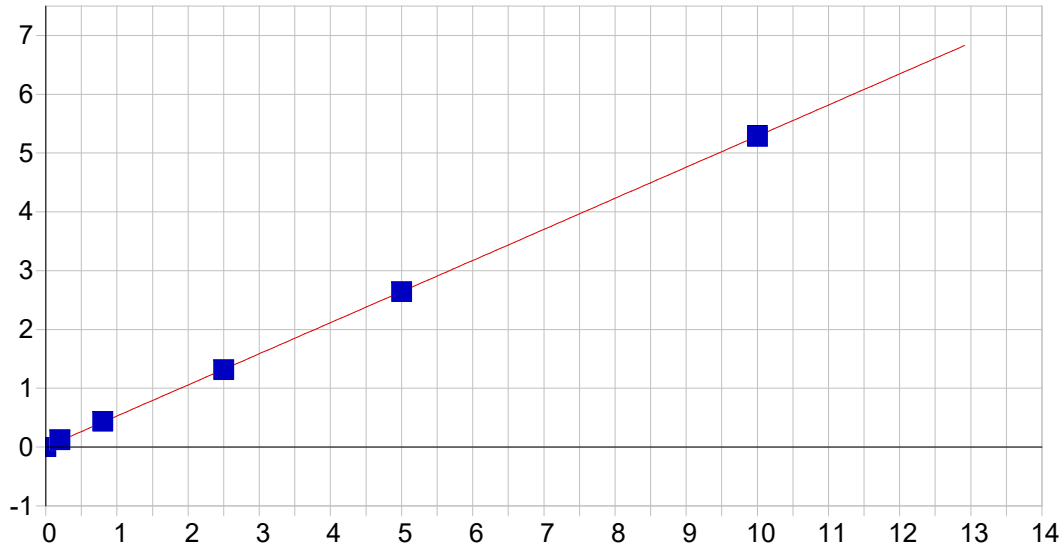


B 249.678 {135}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002267	Re-Slope:	1.000000
A1 (Gain):	0.291702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000155		
Predicted MDL:	0.001117		
Predicted MQL:	0.003723		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00226	.001	1
S1	.10000	.11024	.010	10.2	.03431	.000	1
S3	2.5000	2.5078	.008	.311	.73212	.004	1
S4	5.0000	5.0007	.001	.013	1.4576	.014	1
S5	10.000	9.9586	-.041	-.414	2.9005	.006	1
S2	.80000	.82276	.023	2.84	.24173	.001	1

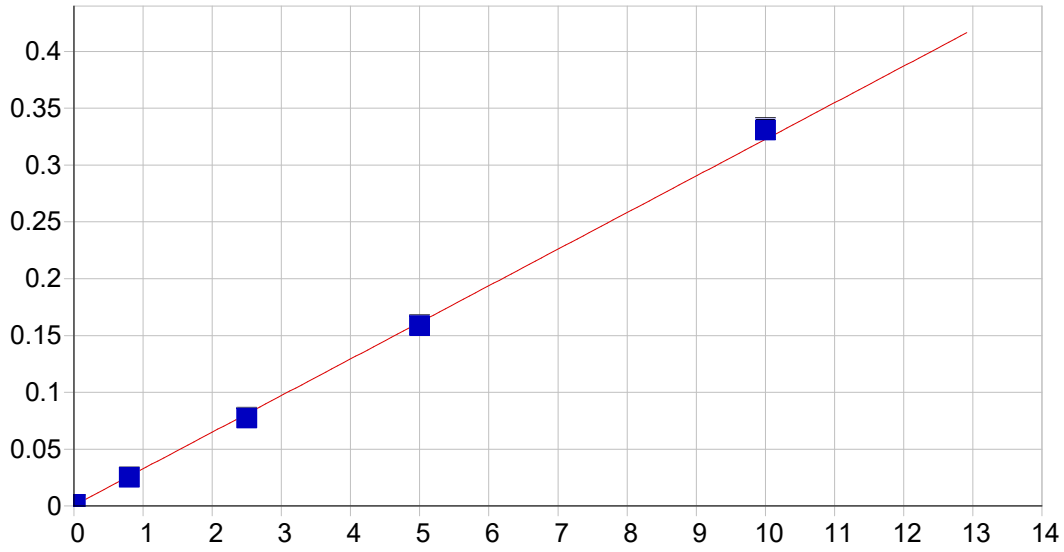


Mo 202.030 {467}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000108	Re-Slope:	1.000000
A1 (Gain):	0.528876	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000673		
Predicted MDL:	0.000461		
Predicted MQL:	0.001538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00013	.000	1
S1	.20000	.23004	.030	15.0	.12156	.000	1
S3	2.5000	2.4801	-.020	-.798	1.3118	.001	1
S4	5.0000	4.9881	-.012	-.239	2.6385	.007	1
S5	10.000	9.9791	-.021	-.209	5.2787	.017	1
S2	.80000	.82279	.023	2.85	.43514	.001	1

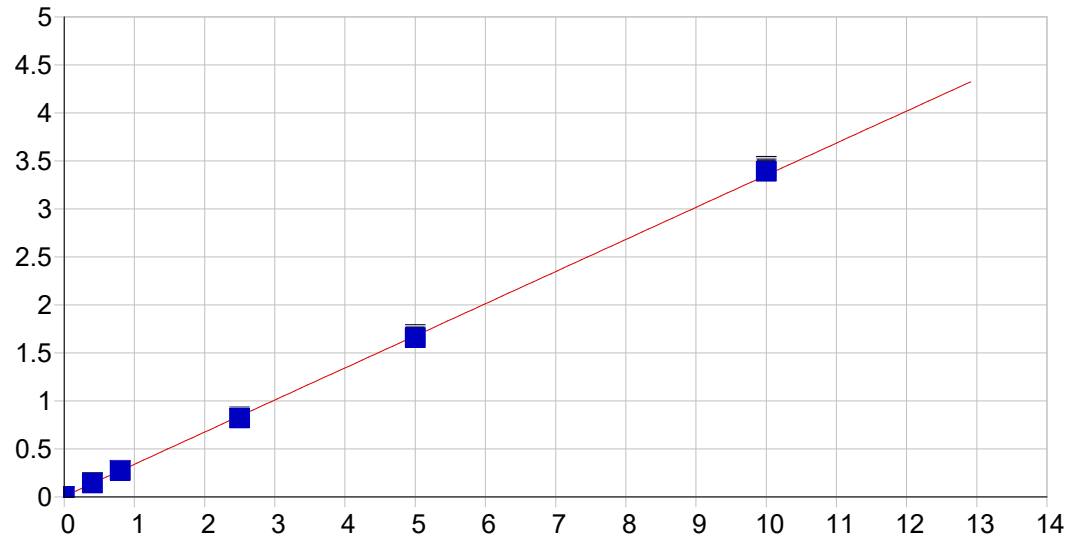


S 182.034 {485}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000467	Re-Slope:	1.000000
A1 (Gain):	0.032219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999589	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.006009		
Predicted MQL:	0.020030		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00047	.000	1
S1	.02000	.02051	.001	2.57	.00111	.000	1
S3	2.5000	2.3818	-.118	-4.73	.07760	.000	1
S4	5.0000	4.9045	-.096	-1.91	.15928	.000	1
S5	10.000	10.249	.249	2.49	.33227	.001	1
S2	.80000	.76435	-.036	-4.46	.02522	.000	1

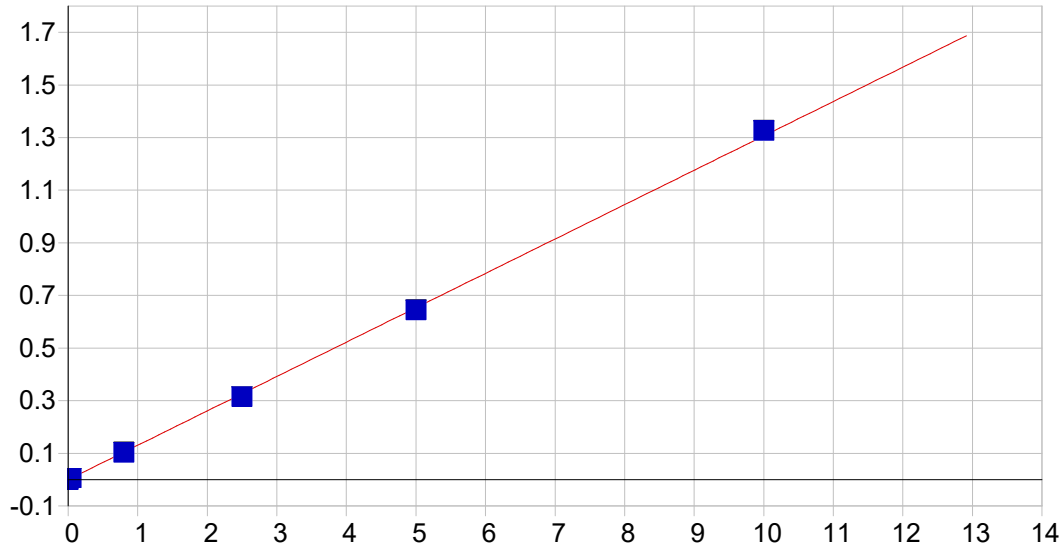


Si 251.611 {134}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005825	Re-Slope:	1.000000
A1 (Gain):	0.334455	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000540		
Predicted MDL:	0.001152		
Predicted MQL:	0.003840		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00582	.001	1
S1	.40000	.41346	.013	3.37	.14475	.002	1
S3	2.5000	2.4340	-.066	-2.64	.82973	.002	1
S4	5.0000	4.9371	-.063	-1.26	1.6768	.013	1
S5	10.000	10.117	.117	1.17	3.4288	.013	1
S2	.80000	.79878	-.001	-.153	.27613	.001	1

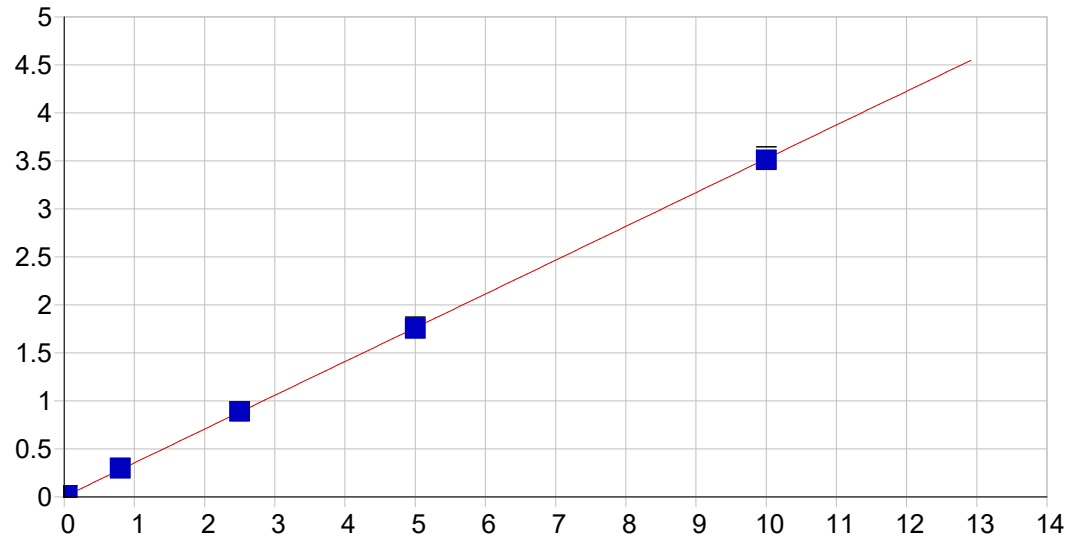


Sn 189.989 {478}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000090	Re-Slope:	1.000000
A1 (Gain):	0.130657	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999820	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.001461		
Predicted MQL:	0.004871		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00009	.000	1
S1	.04000	.04309	.003	7.73	.00554	.000	1
S3	2.5000	2.4129	-.087	-3.49	.31491	.000	1
S4	5.0000	4.9350	-.065	-1.30	.64419	.001	1
S5	10.000	10.155	.155	1.55	1.3257	.001	1
S2	.80000	.79383	-.006	-.771	.10355	.000	1

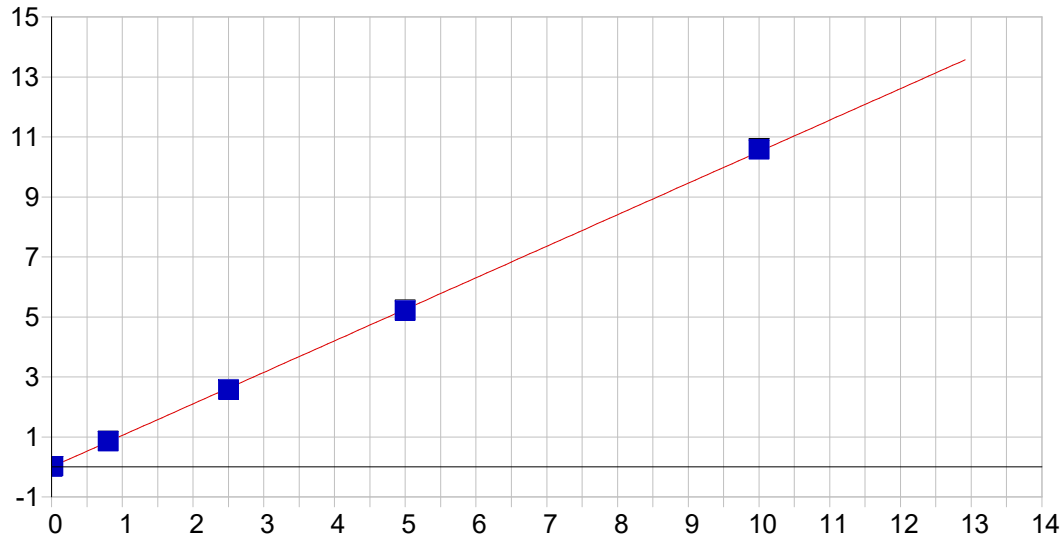


Ti 336.121 {100}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002562	Re-Slope:	1.000000
A1 (Gain):	0.351928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.001181		
Predicted MQL:	0.003936		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00256	.000	1
S1	.04000	.04454	.005	11.3	.01823	.001	1
S3	2.5000	2.5171	.017	.682	.88808	.001	1
S4	5.0000	4.9771	-.023	-.458	1.7535	.016	1
S5	10.000	9.9658	-.034	-.342	3.5086	.035	1
S2	.80000	.83548	.035	4.43	.29649	.004	1

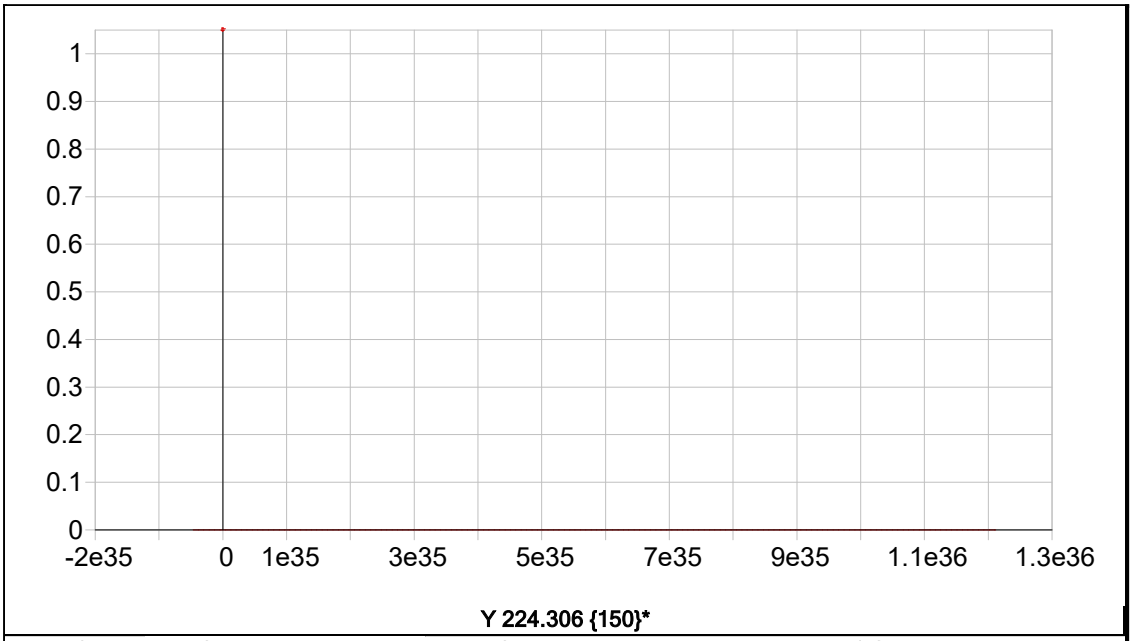


Li 670.784 { 50}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000854	Re-Slope:	1.000000
A1 (Gain):	1.050805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000246		
Predicted MDL:	0.001446		
Predicted MQL:	0.004819		

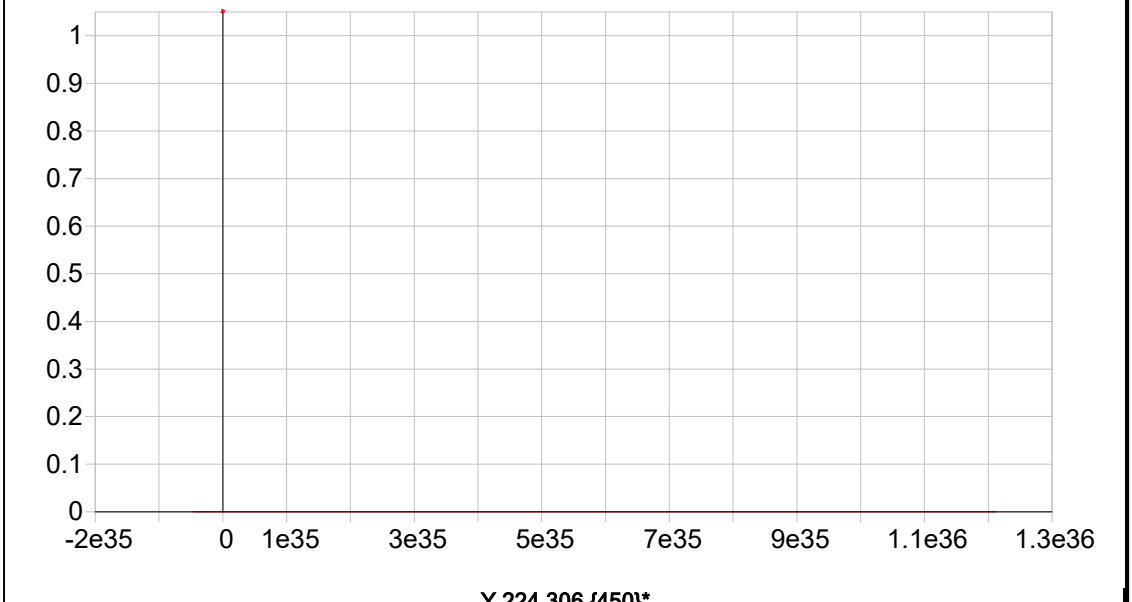
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00085	.000	1
S5	10.000	10.072	.072	.720	10.585	.029	1
S4	5.0000	4.9613	-.039	-.773	5.2136	.016	1
S3	2.5000	2.4544	-.046	-1.82	2.5787	.003	1
S1	.02000	.02025	.000	1.25	.02045	.001	1
S2	.80000	.81198	.012	1.50	.85254	.005	1



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

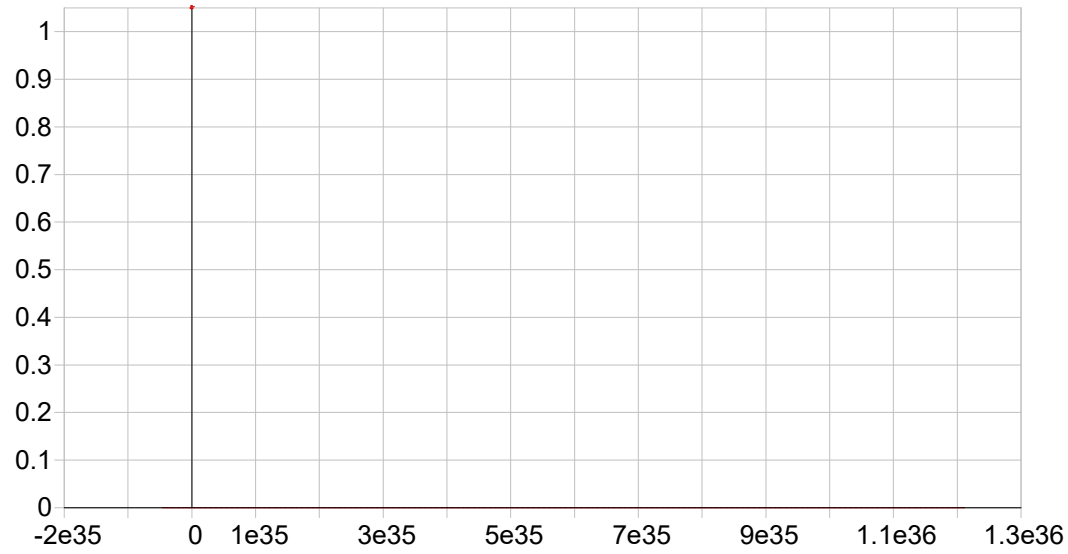


Y 224.306 {450}*

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

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

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

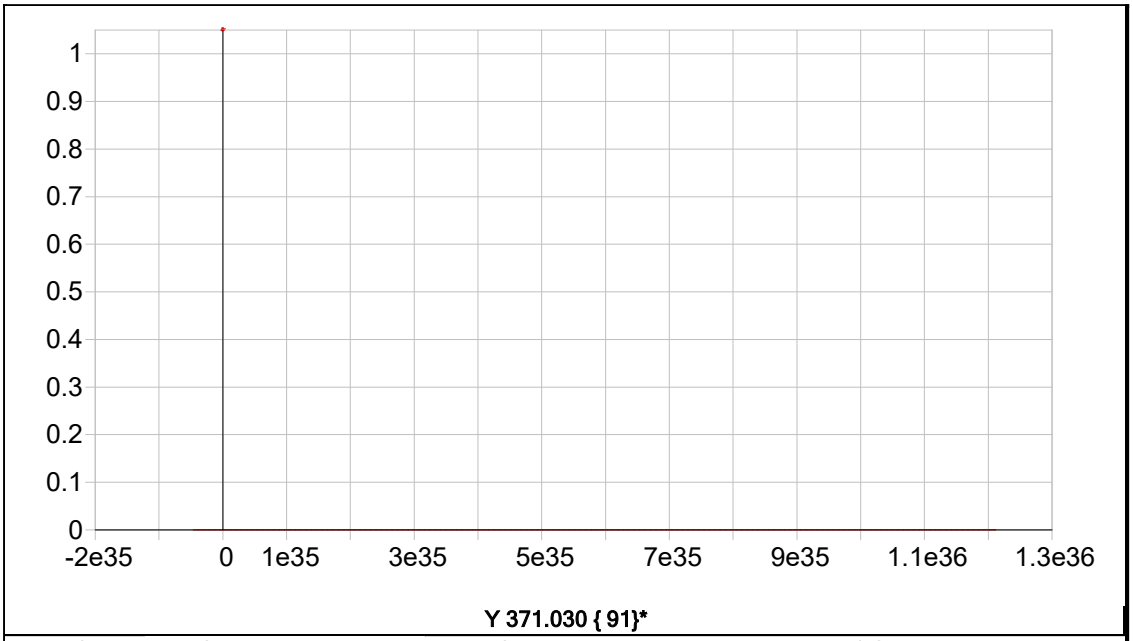


Y 360.073 { 94}*

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

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

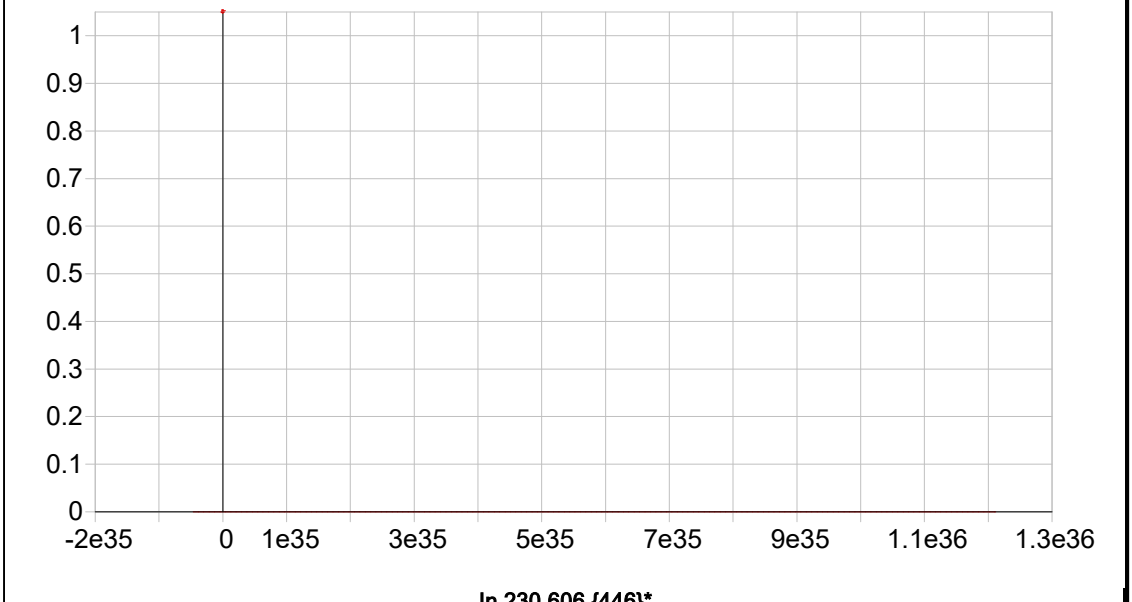


Y 371.030 { 91}*

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



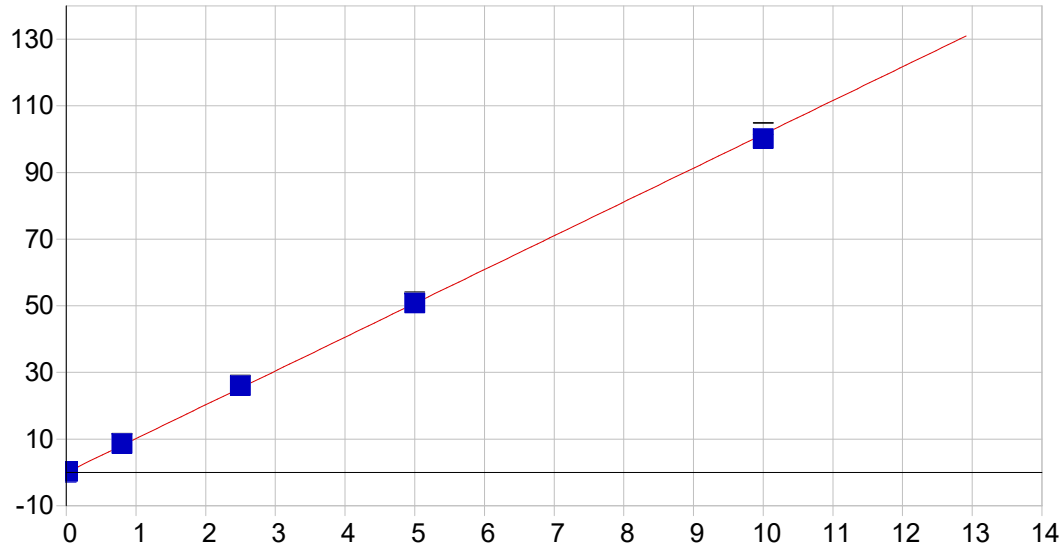
In 230.606 {446}*

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

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

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



Sr 407.771 { 83}

Date of Fit:	07/19/2023 16:21:09	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000407	Re-Slope:	1.000000
A1 (Gain):	10.144505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.004648		
Predicted MDL:	0.000070		
Predicted MQL:	0.000235		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.02000	.02267	.003	13.3	.23056	.003	1
S3	2.5000	2.5657	.066	2.63	26.053	.103	1
S4	5.0000	5.0088	.009	.177	50.863	.289	1
S5	10.000	9.8717	-.128	-1.28	100.24	1.76	1
S2	.80000	.85103	.051	6.38	8.6410	.105	1

Sample Name: S0 Acquired: 07/19/2023 12:25:20 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**-.00014**	**-.00015**	**.00001**	**.00013**	**.00014**	**-.00091**	**.00588**	**-.00027**
Stddev	.00009	.00005	.00037	.00011	.00039	.00017	.00035	.00007
%RSD	67.279	35.465	2932.6	81.396	287.52	18.880	6.0199	26.844
#1	-.00004	-.00012	-.00006	.00001	.00058	-.00083	.00551	-.00034
#2	-.00016	-.00021	.00042	.00023	-.00016	-.00079	.00622	-.00020
#3	-.00022	-.00012	-.00032	.00016	-.00002	-.00111	.00590	-.00028

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00061**	**.00161**	**.00008**	**-.00063**	**.00076**	**.00006**	**.00014**	**-.00013**
Stddev	.00027	.00038	.00008	.00034	.00028	.00005	.00040	.00007
%RSD	44.653	23.462	104.13	53.084	36.357	82.317	290.11	57.643
#1	.00049	.00158	.00001	-.00025	.00086	.00001	-.00024	-.00018
#2	.00092	.00201	.00017	-.00085	.00045	.00007	.00009	-.00017
#3	.00042	.00125	.00006	-.00081	.00099	.00012	.00055	-.00004

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00116**	**-.00080**	**-.00622**	**-.00017**	**.00120**	**.01112**	**-.00125**	**.00226**
Stddev	.00019	.00008	.00156	.00027	.00017	.00024	.00008	.00050
%RSD	16.161	10.392	25.007	162.87	13.768	2.1368	6.5274	22.164
#1	-.00136	-.00078	-.00518	-.00043	.00136	.01119	-.00115	.00275
#2	-.00114	-.00089	-.00548	-.00018	.00122	.01086	-.00130	.00175
#3	-.00099	-.00073	-.00801	.00011	.00103	.01133	-.00129	.00229

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00013**	**.00047**	**.00582**	**-.00009**	**.00256**	**-.00085**	**-.00045**
Stddev	.00008	.00021	.00056	.00007	.00015	.00019	.00012
%RSD	65.336	45.072	9.6124	72.521	5.6985	22.742	26.110
#1	-.00003	.00069	.00638	-.00010	.00273	-.00081	-.00045
#2	-.00015	.00027	.00526	-.00015	.00245	-.00107	-.00033
#3	-.00019	.00044	.00584	-.00002	.00250	-.00069	-.00057

Sample Name: S0 Acquired: 07/19/2023 12:25:20 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1355.1**	**1746.7**	**44906.**	**7185.4**	**1893.4**
Stddev	5.1	5.7	89.	34.7	6.7
%RSD	.37871	.32516	.19870	.48279	.35327
#1	1359.5	1740.4	44967.	7185.3	1886.2
#2	1349.5	1748.2	44804.	7150.8	1894.5
#3	1356.4	1751.4	44948.	7220.1	1899.4

Sample Name: S1 Acquired: 07/19/2023 12:29:22 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.00071**	**.00372**	**.00223**	**.00101**	**.00809**	**.01026**	**.48663**	**.02905**
Stddev	.00013	.00015	.00026	.00009	.00033	.00076	.00454	.00045
%RSD	18.632	4.0519	11.852	8.7394	4.0865	7.3664	.93250	1.5571
#1	.00065	.00361	.00249	.00091	.00839	.00971	.48320	.02853
#2	.00062	.00389	.00225	.00104	.00816	.00995	.49178	.02933
#3	.00086	.00367	.00196	.00108	.00773	.01112	.48493	.02930

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01985**	**.11017**	**.00183**	**.02807**	**.00466**	**.00388**	**.00960**	**.02490**
Stddev	.00033	.00065	.00001	.00034	.00033	.00009	.00053	.00050
%RSD	1.6451	.58598	.69302	1.2175	7.1396	2.2415	5.5210	1.9897
#1	.02014	.10958	.00184	.02776	.00450	.00378	.00929	.02433
#2	.01991	.11086	.00182	.02803	.00504	.00394	.01022	.02518
#3	.01950	.11006	.00182	.02843	.00443	.00391	.00930	.02520

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03744**	**.00160**	**.00819**	**.00509**	**.09265**	**.06043**	**-.00026**	**.03431**
Stddev	.00026	.00010	.00151	.00017	.00091	.00063	.00018	.00029
%RSD	.69892	6.3794	18.421	3.2447	.98668	1.0495	68.683	.84685
#1	.03762	.00162	.00943	.00494	.09217	.06023	-.00010	.03398
#2	.03714	.00169	.00863	.00506	.09370	.06115	-.00046	.03444
#3	.03755	.00149	.00651	.00526	.09207	.05993	-.00022	.03451

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12156**	**.00111**	**.14475**	**.00554**	**.01823**	**.02045**	**.23056**
Stddev	.00038	.00021	.00151	.00007	.00060	.00062	.00343
%RSD	.31660	19.322	1.0452	1.2166	3.3147	3.0448	1.4892
#1	.12130	.00092	.14509	.00559	.01889	.01973	.23215
#2	.12200	.00106	.14606	.00546	.01808	.02085	.23292
#3	.12139	.00135	.14310	.00558	.01771	.02075	.22662

Sample Name: S1 Acquired: 07/19/2023 12:29:22 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1360.5	1755.5	44858.	7213.5	1891.0
Stddev	5.5	4.9	105.	84.7	4.7
%RSD	.40500	.27882	.23470	1.1743	.24601
#1	1354.8	1753.3	44979.	7170.2	1885.7
#2	1365.8	1752.0	44794.	7159.2	1893.1
#3	1360.8	1761.1	44800.	7311.1	1894.3

Sample Name: S2 Acquired: 07/19/2023 12:33:25 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.02807**	**.07142**	**.15299**	**.03042**	**.12176**	**.14921**	**7.2651**	**.17658**
Stddev	.00003	.00032	.00085	.00028	.00021	.00055	.0299	.00236
%RSD	.10505	.44605	.55709	.92261	.16992	.36639	.41081	1.3356
#1	.02808	.07116	.15234	.03061	.12198	.14884	7.2313	.17841
#2	.02810	.07177	.15267	.03010	.12172	.14894	7.2877	.17740
#3	.02804	.07131	.15396	.03056	.12158	.14983	7.2762	.17392

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1187**	**.21174**	**.02682**	**.35978**	**.03876**	**.02708**	**.16907**	**.04413**
Stddev	.0008	.00208	.00011	.00055	.00067	.00082	.00182	.00074
%RSD	.07502	.98309	.41354	.15148	1.7185	3.0167	1.0761	1.6812
#1	1.1195	.20940	.02687	.36031	.03806	.02631	.16698	.04328
#2	1.1178	.21244	.02689	.35922	.03939	.02698	.16991	.04450
#3	1.1187	.21339	.02669	.35981	.03883	.02794	.17032	.04462

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.37034**	**.04476**	**.02107**	**.05090**	**.84745**	**.09820**	**.03552**	**.24173**
Stddev	.00059	.00034	.00236	.00057	.00226	.00088	.00010	.00106
%RSD	.15899	.76478	11.195	1.1279	.26669	.89870	.27069	.43778
#1	.37036	.04444	.01857	.05061	.84628	.09724	.03552	.24175
#2	.37092	.04470	.02141	.05053	.84602	.09839	.03542	.24278
#3	.36974	.04512	.02325	.05156	.85006	.09898	.03562	.24067

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.43514**	**.02522**	**.27613**	**.10355**	**.29649**	**.85254**	**8.6410**
Stddev	.00077	.00017	.00138	.00031	.00357	.00477	.1051
%RSD	.17732	.68660	.49955	.29661	1.2047	.55949	1.2158
#1	.43581	.02520	.27721	.10388	.29284	.84730	8.5276
#2	.43430	.02540	.27660	.10347	.29667	.85663	8.6605
#3	.43530	.02506	.27458	.10328	.29998	.85370	8.7350

Sample Name: S2 Acquired: 07/19/2023 12:33:25 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1350.2	1744.5	44631.	7269.0	1873.3
Stddev	6.3	6.3	96.	30.1	4.2
%RSD	.46314	.36081	.21491	.41428	.22257
#1	1351.3	1737.4	44647.	7247.4	1868.5
#2	1355.9	1746.4	44719.	7256.3	1876.0
#3	1343.5	1749.6	44529.	7303.4	1875.3

Sample Name: S3 Acquired: 07/19/2023 12:37:20 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.08555**	**.21978**	**.46686**	**.09199**	**.36620**	**.44999**	**22.154**	**.52605**
Stddev	.00045	.00018	.00068	.00015	.00029	.00157	.070	.00250
%RSD	.53136	.08071	.14579	.16342	.07812	.34804	.31619	.47506
#1	.08577	.21988	.46690	.09200	.36645	.44870	22.105	.52874
#2	.08585	.21958	.46616	.09213	.36589	.44954	22.121	.52559
#3	.08502	.21989	.46752	.09183	.36627	.45173	22.234	.52380

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3658**	**.63231**	**.08012**	**1.0925**	**.10246**	**.07991**	**.50477**	**.13160**
Stddev	.0020	.00315	.00019	.0012	.00029	.00085	.00110	.00029
%RSD	.05864	.49748	.23557	.10675	.27842	1.0578	.21717	.21783
#1	3.3636	.62998	.08012	1.0912	.10263	.07901	.50439	.13133
#2	3.3673	.63105	.08031	1.0931	.10262	.08002	.50391	.13190
#3	3.3666	.63588	.07993	1.0934	.10213	.08069	.50600	.13157

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1210**	**.13716**	**.07070**	**.15279**	**2.5243**	**.27505**	**.11315**	**.73212**
Stddev	.0017	.00049	.00074	.00028	.0153	.00114	.00043	.00428
%RSD	.14833	.35472	1.0438	.18150	.60440	.41536	.38383	.58409
#1	1.1229	.13696	.07016	.15278	2.5070	.27625	.11316	.73704
#2	1.1201	.13771	.07154	.15252	2.5359	.27397	.11271	.73008
#3	1.1200	.13680	.07040	.15308	2.5301	.27494	.11358	.72925

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3118**	**.07760**	**.82973**	**.31491**	**.88808**	**2.5787**	**26.053**
Stddev	.0008	.00046	.00248	.00047	.00122	.0031	.103
%RSD	.06468	.58819	.29947	.14993	.13759	.12125	.39521
#1	1.3110	.07755	.83259	.31439	.88741	2.5754	26.166
#2	1.3127	.07717	.82840	.31531	.88735	2.5792	26.030
#3	1.3118	.07808	.82819	.31503	.88949	2.5816	25.964

Sample Name: S3 Acquired: 07/19/2023 12:37:20 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1346.2	1730.3	44289.	7275.9	1825.1
Stddev	11.8	4.6	354.	64.6	1.3
%RSD	.87455	.26323	.79976	.88734	.06998
#1	1352.8	1729.0	44309.	7228.0	1824.0
#2	1332.6	1726.5	43925.	7250.4	1824.8
#3	1353.2	1735.3	44632.	7349.3	1826.5

Sample Name: S4 Acquired: 07/19/2023 12:41:10 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.17464**	**.44946**	**.95516**	**.18584**	**.73832**	**.89859**	**44.695**	**1.0346**
Stddev	.00036	.00159	.00262	.00059	.00094	.00647	.191	.0066
%RSD	.20855	.35411	.27397	.31507	.12721	.72010	.42803	.63322
#1	.17436	.44884	.95364	.18589	.73861	.89283	44.531	1.0421
#2	.17450	.44827	.95366	.18523	.73727	.89734	44.648	1.0301
#3	.17505	.45127	.95818	.18640	.73908	.90559	44.905	1.0315

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.8222**	**1.2606**	**.15980**	**2.2291**	**.20189**	**.15968**	**.99840**	**.26297**
Stddev	.0167	.0064	.00046	.0063	.00223	.00071	.00515	.00072
%RSD	.24405	.50624	.28918	.28257	1.1045	.44502	.51570	.27206
#1	6.8072	1.2564	.15987	2.2235	.19951	.15902	.99383	.26223
#2	6.8193	1.2575	.16022	2.2278	.20221	.15959	.99740	.26301
#3	6.8401	1.2680	.15930	2.2359	.20394	.16044	1.0040	.26366

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.2838**	**.27821**	**.14394**	**.30625**	**5.0541**	**.53993**	**.23745**	**1.4576**
Stddev	.0054	.00026	.00202	.00227	.0322	.00283	.00200	.0138
%RSD	.23835	.09451	1.4049	.73982	.63694	.52482	.84027	.94409
#1	2.2788	.27849	.14190	.30378	5.0661	.53689	.23534	1.4733
#2	2.2831	.27798	.14399	.30677	5.0177	.54040	.23771	1.4476
#3	2.2896	.27815	.14594	.30822	5.0786	.54250	.23931	1.4519

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.6385**	**.15928**	**1.6768**	**.64419**	**1.7535**	**5.2136**	**50.863**
Stddev	.0072	.00012	.0131	.00148	.0156	.0162	.289
%RSD	.27386	.07809	.78131	.22962	.88903	.31065	.56787
#1	2.6449	.15939	1.6919	.64249	1.7383	5.2050	51.195
#2	2.6307	.15931	1.6695	.64491	1.7529	5.2035	50.671
#3	2.6401	.15914	1.6689	.64517	1.7695	5.2323	50.721

Sample Name: S4 Acquired: 07/19/2023 12:41:10 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1309.5	1696.4	43377.	7300.5	1753.5
Stddev	10.0	6.5	133.	36.0	3.0
%RSD	.76297	.38505	.30573	.49374	.16854
#1	1310.5	1689.7	43509.	7268.0	1753.8
#2	1318.9	1702.8	43379.	7339.3	1756.2
#3	1299.0	1696.8	43244.	7294.4	1750.4

Sample Name: S5 Acquired: 07/19/2023 12:45:06 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.35437**	**.91839**	**1.9631**	**.37023**	**1.4874**	**1.8095**	**89.083**	**2.0321**
Stddev	.00078	.00133	.0019	.00070	.0040	.0154	1.488	.0036
%RSD	.21943	.14479	.09834	.18909	.26927	.85334	1.6704	.17685
#1	.35502	.91884	1.9649	.37000	1.4864	1.7923	87.471	2.0304
#2	.35351	.91690	1.9611	.36966	1.4839	1.8140	89.372	2.0298
#3	.35457	.91944	1.9633	.37101	1.4917	1.8222	90.405	2.0363

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.841**	**2.5195**	**.31826**	**4.5709**	**.40001**	**.31615**	**1.9910**	**.52988**
Stddev	.018	.0175	.00120	.0056	.00323	.00328	.0199	.00396
%RSD	.13008	.69590	.37809	.12269	.80749	1.0374	.99995	.74766
#1	13.861	2.4995	.31760	4.5772	.39729	.31297	1.9681	.52536
#2	13.827	2.5270	.31753	4.5692	.39916	.31594	2.0010	.53151
#3	13.836	2.5321	.31965	4.5663	.40358	.31952	2.0040	.53277

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.6524**	**.55844**	**.29581**	**.61183**	**10.037**	**1.0712**	**.49964**	**2.9005**
Stddev	.0041	.00023	.00365	.00356	.047	.0062	.00066	.0057
%RSD	.08857	.04062	1.2326	.58203	.47321	.57590	.13226	.19545
#1	4.6556	.55819	.29183	.60772	10.060	1.0641	.49953	2.8956
#2	4.6538	.55851	.29662	.61383	10.068	1.0755	.49904	2.8993
#3	4.6477	.55863	.29899	.61394	9.9821	1.0740	.50035	2.9067

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.2787**	**.33227**	**3.4288**	**1.3257**	**3.5086**	**10.585**	**100.24**
Stddev	.0175	.00077	.0130	.0010	.0350	.029	1.76
%RSD	.33100	.23116	.37834	.07792	.99848	.27700	1.7570
#1	5.2731	.33276	3.4168	1.3258	3.4694	10.551	98.221
#2	5.2648	.33138	3.4271	1.3247	3.5195	10.603	101.08
#3	5.2983	.33266	3.4425	1.3267	3.5369	10.601	101.43

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: S5 Acquired: 07/19/2023 12:45:06 Type: Cal
Method: NON EPA-6010-200.7(v145) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1277.8	1663.6	42772.	7299.7	1664.5
Stddev	7.4	3.5	76.	15.6	1.5
%RSD	.57853	.20901	.17681	.21311	.09227
#1	1276.1	1664.6	42843.	7316.9	1663.0
#2	1271.5	1666.5	42779.	7295.9	1664.6
#3	1285.9	1659.8	42693.	7286.5	1666.1

Sample Name: ICV01 Acquired: 07/19/2023 13:05:35 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.027327	1.002737	.9914534	1.029214	F .9468715	2.432892
Stddev	.005925	.005708	.0037803	.006568	.0022354	.018780
%RSD	.5767297	.5692553	.3812901	.6381828	.2360795	.7719130
#1	1.020640	1.004616	.9955888	1.036788	.9476789	2.418815
#2	1.029418	.996326	.9881756	1.025785	.9485911	2.425646
#3	1.031923	1.007268	.9905958	1.025071	.9443446	2.454216

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5020070	.4855934	.5031253	9.595795	.5036099	F .4871934
Stddev	.0015405	.0015599	.0015539	.091070	.0046887	.0013953
%RSD	.3068573	.3212291	.3088416	.9490628	.9310207	.2863888
#1	.5003028	.4846082	.5045432	9.507292	.5080138	.4875401
#2	.5024176	.4847803	.5014641	9.590861	.5041352	.4856574
#3	.5033005	.4873919	.5033685	9.689231	.4986806	.4883826

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4987237	9.778248	.5059775	F 5.658109	F .4896554	.2484612
Stddev	.0065103	.062190	.0031074	.018690	.0005568	.0021929
%RSD	1.305388	.6360020	.6141397	.3303291	.1137060	.8825712
#1	.4912116	9.706453	.5030797	5.641360	.4898039	.2492738
#2	.5022353	9.812857	.5055938	5.678271	.4890394	.2501318
#3	.5027243	9.815435	.5092589	5.654695	.4901228	.2459781

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.532968	F .4612432	.9908518	F 9.361400	F -.008165	F 2.369028
Stddev	.065864	.0048057	.0074565	.098833	.004824	.010252
%RSD	.6909024	1.041896	.7525350	1.055754	59.08003	.4327696
#1	9.525047	.4628015	.9974484	9.247355	-.006584	2.365045
#2	9.471423	.4558518	.9923454	9.414762	-.004330	2.361366
#3	9.602434	.4650764	.9827615	9.422082	-.013581	2.380675

Sample Name: ICV01 Acquired: 07/19/2023 13:05:35 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410601	F -.018854	2.503103	F 2.327721	2.406505	F -.003563
Stddev	.003009	.008966	.005100	.011024	.015749	.000851
%RSD	.1248318	47.55416	.2037631	.4735800	.6544385	23.89706
#1	2.412516	-.021735	2.506496	2.339810	2.391972	-.002640
#2	2.407132	-.008802	2.505576	2.318225	2.404303	-.003731
#3	2.412154	-.026026	2.497237	2.325127	2.423239	-.004318

Elem	Sr4077
Units	ppm
Avg	F -.008547
Stddev	.000151
%RSD	1.770833
#1	-.008381
#2	-.008679
#3	-.008580

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1298.273	1729.778	43240.39	7438.740	1824.942
Stddev	15.971	5.626	350.33	20.375	6.521
%RSD	1.230192	.3252242	.8101847	.2738986	.3573483
#1	1285.433	1723.367	43004.41	7440.492	1817.594
#2	1293.228	1733.889	43073.85	7458.182	1830.043
#3	1316.157	1732.079	43642.92	7417.546	1827.190

Sample Name: ICB01 Acquired: 07/19/2023 13:13:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.000854**	**.0018024**	**.0001621**	**.0037121**	**-.001023**	**.0170088**	**-.000484**
Stddev	.001765	.0014543	.0014313	.0084083	.001591	.0114284	.000212
%RSD	206.6151	80.68693	882.8416	226.5086	155.4337	67.19136	43.76768
#1	-.001200	.0031255	.0017645	.0127705	.000706	.0073625	-.000619
#2	.001058	.0020367	-.000289	-.003843	-.002424	.0296307	-.000593
#3	-.002421	.0002452	-.000989	.002209	-.001352	.0140332	-.000240

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000081**	**-.000053**	**.0166081**	**.0003297**	**.0002724**	**-.000299**	**-.002507**
Stddev	.0000382	.000109	.0086819	.0003224	.0001326	.001565	.001284
%RSD	468.3025	205.3285	52.27502	97.76887	48.68142	524.2239	51.22471
#1	.0000508	.000070	.0147710	.0002934	.0001224	.001456	-.001059
#2	-.000003	-.000137	.0260615	.0000271	.0003742	-.000800	-.002954
#3	-.000023	-.000092	.0089918	.0006687	.0003205	-.001552	-.003507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000580**	**-.000604**	**.0001045**	**.0000462**	**-.067562**	**-.002671**	**.0024726**
Stddev	.000212	.010485	.0004604	.0004120	.101268	.002254	.0004389
%RSD	36.54104	1735.400	440.4548	891.6247	149.8901	84.39229	17.75120
#1	-.000437	.010361	.0002861	.0003895	-.179335	-.004894	.0027904
#2	-.000823	-.001641	.0004464	-.000411	.018079	-.002733	.0026556
#3	-.000480	-.010532	-.000419	.000160	-.041429	-.000387	.0019718

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.042261**	**-.000568**	**-.000039**	**.0003314**	**-.011197**	**-.003372**	**.0016886**
Stddev	.048815	.002611	.001062	.0001095	.006511	.000495	.0009503
%RSD	115.5070	459.5008	2714.367	33.02872	58.14967	14.69402	56.27663
#1	-.003805	-.002919	.000703	.0004561	-.013096	-.003646	.0027354
#2	-.025800	-.001029	.000434	.0002511	-.016546	-.002800	.0008803
#3	-.097179	.002243	-.001255	.0002870	-.003947	-.003670	.0014501

Sample Name: ICB01 Acquired: 07/19/2023 13:13:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002133	-.000837	.0000436
Stddev	.0002136	.001188	.0000297
%RSD	100.1602	141.9339	68.23436
#1	-.000020	-.000562	.0000162
#2	.000400	.000189	.0000393
#3	.000260	-.002138	.0000753

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1316.142	1734.630	43625.28	7486.290	1841.037
Stddev	14.193	3.393	307.10	47.430	3.432
%RSD	1.078412	.1956286	.7039405	.6335555	.1864065
#1	1299.985	1730.912	43288.81	7431.530	1842.198
#2	1321.842	1737.562	43696.59	7514.440	1843.738
#3	1326.600	1735.415	43890.45	7512.900	1837.175

Sample Name: CRI01 Acquired: 07/19/2023 13:17:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0156916**	**.0396859**	**.0135857**	**.0201884**	**.0467341**	**.0967034**
Stddev	.0015020	.0022904	.0022222	.0043740	.0014885	.0057757
%RSD	9.571736	5.771314	16.35688	21.66571	3.185013	5.972540
#1	.0168100	.0390100	.0116004	.0210064	.0450223	.0978993
#2	.0139845	.0422381	.0131704	.0240956	.0474563	.0904234
#3	.0162804	.0378094	.0159862	.0154632	.0477236	.1017875

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0936595**	**.0058065**	**.0060269**	**1.802352**	**.0089768**	**.0275673**
Stddev	.0005194	.0000789	.0000721	.018454	.0005342	.0001380
%RSD	.5546049	1.358521	1.196403	1.023874	5.950654	.5006229
#1	.0931961	.0058732	.0060776	1.796676	.0095922	.0274972
#2	.0942210	.0058270	.0059444	1.822977	.0086332	.0277263
#3	.0935614	.0057194	.0060587	1.787403	.0087051	.0274784

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0205344**	**.0903297**	**.0204468**	**1.926937**	**.0362235**	**.0101468**
Stddev	.0007151	.0036176	.0003904	.045969	.0003951	.0002248
%RSD	3.482240	4.004917	1.909194	2.385588	1.090703	2.215086
#1	.0197087	.0864363	.0200001	1.917549	.0363130	.0101943
#2	.0209503	.0935874	.0207225	1.976876	.0365662	.0103439
#3	.0209441	.0909653	.0206177	1.886387	.0357914	.0099020

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.855752**	**.0351197**	**.0394303**	**1.800952**	**.0170400**	**.0926345**
Stddev	.186039	.0015540	.0006517	.062358	.0027619	.0020315
%RSD	10.02501	4.424746	1.652857	3.462487	16.20809	2.193044
#1	2.063677	.0338998	.0400919	1.774916	.0140318	.0937035
#2	1.705037	.0368692	.0394101	1.755831	.0194611	.0902917
#3	1.798541	.0345901	.0387889	1.872108	.0176269	.0939083

Sample Name: CRI01 Acquired: 07/19/2023 13:17:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1997040	F .0105040	.3493180	.0368711	.0375068	.0190400
Stddev	.0006391	.0040998	.0020055	.0018438	.0004882	.0004390
%RSD	.3200158	39.03092	.5741110	5.000660	1.301735	2.305646
#1	.1991375	.0092403	.3505279	.0389464	.0374258	.0186398
#2	.1995778	.0150868	.3470030	.0362449	.0370641	.0195096
#3	.2003968	.0071847	.3504229	.0354219	.0380304	.0189707

Elem	Sr4077
Units	ppm
Avg	.0177188
Stddev	.0001751
%RSD	.9884275
#1	.0176863
#2	.0175623
#3	.0179080

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1315.323	1741.812	43497.15	7493.407	1847.813
Stddev	6.721	4.918	124.52	56.413	3.554
%RSD	.5109871	.2823558	.2862607	.7528399	.1923521
#1	1310.645	1739.281	43605.55	7440.330	1845.284
#2	1312.300	1738.675	43361.15	7552.650	1846.277
#3	1323.025	1747.480	43524.75	7487.240	1851.876

Sample Name: ICSA01 Acquired: 07/19/2023 13:21:38 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003332**	**-.003098**	**-.002931**	**-.002324**	**.0045400**	**261.7969**
Stddev	.004747	.005515	.003689	.007134	.0034009	3.6474
%RSD	142.4466	178.0237	125.8452	306.9898	74.91036	1.393214
#1	-.000222	.000307	.000473	.001908	.0063483	257.7331
#2	-.008796	-.000140	-.006850	-.010561	.0066548	262.8709
#3	-.000979	-.009461	-.002417	.001681	.0006169	264.7867

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059028**	**.0010356**	**.0010398**	**246.8364**	**.0485194**	**-.001046**
Stddev	.0003039	.0001148	.0000696	3.0505	.0003222	.000248
%RSD	5.148447	11.08035	6.689479	1.235821	.6639903	23.70668
#1	.0055763	.0011090	.0009678	243.3791	.0481480	-.001325
#2	.0059544	.0009034	.0010448	247.9815	.0487232	-.000849
#3	.0061775	.0010945	.0011067	249.1487	.0486871	-.000965

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002098**	**96.57980**	**.0158790**	**260.1407**	**.0009814**	**-.002784**
Stddev	.001729	1.10676	.0003860	3.4872	.0003352	.000494
%RSD	82.44182	1.145955	2.430715	1.340503	34.15207	17.74562
#1	-.000418	95.30188	.0154412	256.1152	.0013581	-.002787
#2	-.003873	97.22902	.0161702	262.0666	.0007162	-.002288
#3	-.002002	97.20851	.0160256	262.2402	.0008699	-.003276

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.106868**	**.0014559**	**.0043002**	**-.096266**	**-.008619**	**-.046277**
Stddev	.059023	.0021571	.0004639	.002800	.004605	.001448
%RSD	55.22979	148.1599	10.78787	2.908780	53.42770	3.129835
#1	-.118373	-.000958	.0040190	-.098736	-.003567	-.046242
#2	-.042939	.003195	.0040460	-.093224	-.009709	-.044846
#3	-.159290	.002130	.0048357	-.096838	-.012582	-.047742

Sample Name: ICSA01 Acquired: 07/19/2023 13:21:38 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000739	F -.024113	-.007432	-.003002	-.001856	-.017751
Stddev	.000956	.006430	.001084	.001312	.000333	.000633
%RSD	129.4181	26.66595	14.58579	43.70245	17.93127	3.566417
#1	-.001820	-.018926	-.006559	-.001628	-.001968	-.017239
#2	-.000392	-.031307	-.007091	-.004242	-.001482	-.018458
#3	-.000005	-.022107	-.008645	-.003136	-.002118	-.017555

Elem	Sr4077
Units	ppm
Avg	.0014795
Stddev	.0000741
%RSD	5.010530
#1	.0014191
#2	.0014573
#3	.0015622

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1192.875	1592.932	39890.22	7255.993	1564.158
Stddev	7.635	2.915	257.36	33.233	1.904
%RSD	.6400424	.1829699	.6451764	.4580052	.1217094
#1	1191.074	1593.754	39775.80	7291.173	1566.231
#2	1201.250	1595.347	40184.95	7251.677	1563.755
#3	1186.302	1589.695	39709.90	7225.130	1562.488

Sample Name: ICSAB01 Acquired: 07/19/2023 13:25:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1023181	.1209349	.0566601	.0446313	.6270811	264.3591
Stddev	.0016393	.0007813	.0067264	.0020186	.0038935	1.7137
%RSD	1.602161	.6460246	11.87144	4.522944	.6208918	.6482552
#1	.1005283	.1207650	.0627893	.0460983	.6311208	262.5367
#2	.1026793	.1202525	.0494641	.0454665	.6267700	264.6024
#3	.1037467	.1217871	.0577269	.0423291	.6233524	265.9382

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5366984	.5087211	1.063780	249.6177	.5621442	.5199761
Stddev	.0025937	.0025559	.002217	1.3529	.0005195	.0007815
%RSD	.4832694	.5024103	.2084386	.5419968	.0924208	.1502926
#1	.5342946	.5115015	1.064710	248.2400	.5622120	.5196283
#2	.5363532	.5081878	1.061249	249.6686	.5615942	.5194290
#3	.5394474	.5064739	1.065381	250.9444	.5626266	.5208711

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5049216	97.44696	.5246165	262.7704	1.028562	.1773715
Stddev	.0033889	.50983	.0049554	1.4578	.002139	.0006545
%RSD	.6711671	.5231858	.9445828	.5547783	.2079716	.3689696
#1	.5039967	97.07733	.5209483	261.5008	1.027621	.1766773
#2	.5086769	97.23497	.5226473	262.4482	1.027055	.1774598
#3	.5020912	98.02858	.5302538	264.3624	1.031011	.1779773

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0726798	.5036791	1.064268	-.174104	F -.019223	.9409799
Stddev	.2310829	.0047664	.008038	.013606	.004938	.0025545
%RSD	317.9467	.9463231	.7552941	7.814984	25.68902	.2714722
#1	.3380722	.4999531	1.062078	-.167650	-.023196	.9437943
#2	-.036049	.5020341	1.073174	-.189737	-.020779	.9388080
#3	-.083984	.5090502	1.057552	-.164927	-.013694	.9403375

Sample Name: ICSAB01 Acquired: 07/19/2023 13:25:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.029246	F -.035103	.8900427	1.044965	1.006061	F -.019108
Stddev	.002050	.004170	.0040205	.005679	.010008	.000910
%RSD	.1991540	11.88049	.4517222	.5434872	.9947662	4.763290
#1	1.031025	-.031556	.8915649	1.051209	.999035	-.020063
#2	1.029708	-.034056	.8930797	1.040107	1.001629	-.018251
#3	1.027005	-.039697	.8854833	1.043578	1.017520	-.019010

Elem	Sr4077
Units	ppm
Avg	F .0010290
Stddev	.0003269
%RSD	31.76824
#1	.0006932
#2	.0010477
#3	.0013461

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1186.495	1588.840	40037.84	7266.898	1556.471
Stddev	11.611	5.540	79.60	31.985	2.102
%RSD	.9785618	.3486832	.1988012	.4401448	.1350284
#1	1188.150	1583.327	40119.50	7243.901	1554.730
#2	1174.146	1588.788	39960.49	7253.368	1558.806
#3	1197.190	1594.406	40033.53	7303.424	1555.877

Sample Name: ICSADLX20 Acquired: 07/19/2023 13:29:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000972**	**.0000774**	**-.002108**	**.0015782**	**-.000932**	**12.41335**	**-.000278**
Stddev	.002837	.0023786	.000868	.0063413	.001204	.06010	.000310
%RSD	291.8680	3073.721	41.18518	401.8133	129.1824	.4841578	111.4162
#1	.002101	.0017077	-.001611	.0071802	-.000638	12.34911	-.000216
#2	-.003490	-.002652	-.001603	.0028608	-.002255	12.46821	-.000615
#3	-.001527	.001176	-.003111	-.005306	.000098	12.42273	-.000004

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000913**	**-.000059**	**12.43191**	**.0020656**	**-.000716**	**.0018649**	**5.125699**
Stddev	.0000272	.000029	.09758	.0004194	.000388	.0016289	.014991
%RSD	29.83054	48.92595	.7849210	20.30510	54.13552	87.34889	.2924736
#1	.0000698	-.000033	12.32732	.0020175	-.000895	.0010880	5.108475
#2	.0000822	-.000090	12.44789	.0025070	-.000272	.0007698	5.135810
#3	.0001219	-.000054	12.52051	.0016723	-.000983	.0037368	5.132811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0626034**	**12.66508**	**-.000031**	**-.000162**	**.3562623**	**-.001501**	**.0020064**
Stddev	.0040021	.09799	.000342	.000748	.2258776	.001541	.0000945
%RSD	6.392841	.7737376	1094.735	461.2448	63.40204	102.6504	4.710180
#1	.0588282	12.55193	-.000426	.000578	.3748333	-.000283	.0019753
#2	.0621827	12.72085	.000152	-.000148	.1216725	-.003234	.0019313
#3	.0667992	12.72245	.000180	-.000917	.5722810	-.000988	.0021125

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.178184**	**-.000593**	**-.001377**	**-.000450**	**.2644775**	**.0321277**	**.0022907**
Stddev	.047872	.002388	.000334	.000291	.0116180	.0135003	.0005594
%RSD	26.86654	402.7634	24.23502	64.73026	4.392794	42.02082	24.42122
#1	-.224338	-.002423	-.001661	-.000548	.2772111	.0467732	.0020561
#2	-.128762	.002108	-.001460	-.000680	.2544545	.0294303	.0029292
#3	-.181450	-.001464	-.001009	-.000123	.2617669	.0201798	.0018868

Sample Name: ICSADLX20 Acquired: 07/19/2023 13:29:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009853	-.002496	-.000098
Stddev	.0008692	.000996	.000037
%RSD	88.21613	39.89265	37.98487
#1	-.000018	-.003003	-.000056
#2	.001486	-.001349	-.000126
#3	.001488	-.003136	-.000112

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1305.672	1735.179	43472.05	7606.560	1825.344
Stddev	6.605	6.163	225.79	64.963	4.354
%RSD	.5058472	.3551647	.5193808	.8540368	.2385315
#1	1301.882	1729.713	43418.37	7536.380	1825.113
#2	1301.836	1733.966	43277.94	7664.590	1821.111
#3	1313.298	1741.858	43719.83	7618.710	1829.809

Sample Name: ICSABDLX20 Acquired: 07/19/2023 13:33:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003874**	**.0071667**	**.0021026**	**.0067363**	**.0315505**	**12.99968**	**.0266843**
Stddev	.0037003	.0020893	.0028968	.0020560	.0024874	.13501	.0004098
%RSD	955.0645	29.15314	137.7719	30.52080	7.883804	1.038545	1.535738
#1	.0040805	.0092309	.0052839	.0044589	.0331375	12.85858	.0264653
#2	-.003320	.0050532	.0014071	.0084557	.0328302	13.01282	.0264306
#3	.000402	.0072159	-.000383	.0072943	.0286838	13.12763	.0271571

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0265749**	**.0542387**	**12.84666**	**.0293788**	**.0255897**	**.0284311**	**5.254223**
Stddev	.0001348	.0001373	.12175	.0004376	.0002281	.0010694	.071627
%RSD	.5070709	.2530465	.9477379	1.489647	.8915011	3.761237	1.363233
#1	.0267076	.0543100	12.73505	.0298531	.0258268	.0273893	5.189735
#2	.0264382	.0543257	12.82843	.0289906	.0253718	.0283780	5.241619
#3	.0265790	.0540805	12.97650	.0292928	.0255704	.0295260	5.331316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0277751**	**12.93803**	**.0523940**	**.0092302**	**-.124927**	**.0247451**	**.0548776**
Stddev	.0001296	.12463	.0005675	.0002618	.060039	.0010568	.0002347
%RSD	.4666027	.9633059	1.083128	2.836611	48.05909	4.270765	.4277342
#1	.0277429	12.82758	.0526869	.0090754	-.065825	.0236249	.0546331
#2	.0279178	12.91336	.0517399	.0095325	-.185860	.0257244	.0551012
#3	.0276647	13.07316	.0527552	.0090828	-.123095	.0248858	.0548986

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.026482**	**-.002752**	**.0484522**	**.0527438**	**-.017348**	**.0428988**	**.0523779**
Stddev	.023545	.002884	.0004465	.0006653	.009753	.0018639	.0013256
%RSD	88.91228	104.8037	.9215950	1.261455	56.21798	4.344846	2.530866
#1	-.010173	-.004279	.0487720	.0520445	-.019977	.0450073	.0518224
#2	-.053475	.000575	.0486426	.0528178	-.006550	.0422184	.0538909
#3	-.015797	-.004550	.0479420	.0533690	-.025516	.0414706	.0514205

Sample Name: ICSABDLX20 Acquired: 07/19/2023 13:33:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0513115	-.000887	-.000167
Stddev	.0018625	.000319	.000074
%RSD	3.629783	35.98067	44.35326
#1	.0493687	-.000530	-.000082
#2	.0514840	-.000988	-.000201
#3	.0530817	-.001144	-.000217

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1309.356	1742.901	43389.62	7560.383	1822.982
Stddev	3.166	1.063	245.14	26.330	3.348
%RSD	.2418180	.0609707	.5649680	.3482571	.1836516
#1	1305.874	1741.811	43219.61	7581.020	1819.124
#2	1312.064	1742.958	43670.63	7569.400	1824.703
#3	1310.130	1743.934	43278.64	7530.730	1825.120

Sample Name: CCV01 Acquired: 07/19/2023 13:37:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.011018**	**5.004786**	**4.911058**	**4.996826**	**4.933661**	**9.618549**	**10.00310**
Stddev	.015314	.004371	.004012	.006596	.003666	.045766	.03428
%RSD	.3056146	.0873367	.0816912	.1319948	.0743016	.4758094	.3426460
#1	5.027340	5.007789	4.915332	5.004237	4.937671	9.567592	9.96617
#2	5.008751	4.999772	4.907374	4.994640	4.932830	9.631897	10.00924
#3	4.996964	5.006799	4.910467	4.991601	4.930482	9.656156	10.03389

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2384318**	**2.430780**	**24.04810**	**.9878570**	**2.449587**	**1.212260**	**4.792257**
Stddev	.0016676	.003811	.18702	.0032128	.004131	.005804	.037043
%RSD	.6994214	.1567918	.7776997	.3252323	.1686580	.4788070	.7729721
#1	.2367889	2.428905	23.83900	.9879546	2.447627	1.205901	4.749512
#2	.2401231	2.428269	24.10593	.9910199	2.446800	1.213605	4.814984
#3	.2383836	2.435165	24.19939	.9845965	2.454333	1.217273	4.812274

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.440072**	**23.61973**	**2.454019**	**1.274328**	**24.06996**	**2.411691**	**2.497303**
Stddev	.025868	.29946	.006764	.003793	.15468	.022641	.015124
%RSD	1.060118	1.267846	.2756362	.2976146	.6426216	.9388111	.6056099
#1	2.410874	23.30244	2.455601	1.276218	23.95632	2.389052	2.513053
#2	2.449216	23.89743	2.446604	1.276805	24.00744	2.411686	2.482895
#3	2.460125	23.65930	2.459852	1.269962	24.24611	2.434334	2.495961

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.07767**	**5.086067**	**4.798319**	**4.917014**	**4.780517**	**4.765936**	**4.846551**
Stddev	.08426	.016850	.027604	.008964	.007087	.033967	.003801
%RSD	.3499707	.3313068	.5752823	.1823003	.1482484	.7127030	.0784220
#1	23.99007	5.097925	4.781715	4.923828	4.786579	4.731077	4.850749
#2	24.08478	5.093497	4.830184	4.920354	4.782247	4.798934	4.843344
#3	24.15815	5.066778	4.783058	4.906860	4.772725	4.767797	4.845559

Sample Name: CCV01 Acquired: 07/19/2023 13:37:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.860236**	**4.980421**	**4.602743**
Stddev	.040133	.018664	.065735
%RSD	.8257456	.3747397	1.428164
#1	4.814153	4.959789	4.537171
#2	4.879045	4.985347	4.668639
#3	4.887510	4.996128	4.602419

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1264.780**	**1691.652**	**42218.75**	**7473.224**	**1722.283**
Stddev	7.451	5.133	176.06	38.554	1.964
%RSD	.5891386	.3034211	.4170078	.5158919	.1140519
#1	1256.515	1686.767	42057.86	7487.485	1720.684
#2	1270.983	1691.189	42191.59	7429.571	1724.476
#3	1266.841	1697.001	42406.81	7502.615	1721.689

Sample Name: LLCCV01 Acquired: 07/19/2023 13:45:56 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0201013**	**.0426616**	**.0112972**	**.0203297**	**.0520947**	**.1016679**
Stddev	.0059864	.0036885	.0015447	.0078134	.0021955	.0074992
%RSD	29.78098	8.645990	13.67355	38.43361	4.214452	7.376125
#1	.0269378	.0455255	.0108453	.0199156	.0501289	.1102740
#2	.0157981	.0384995	.0100288	.0283420	.0516914	.0965350
#3	.0175680	.0439598	.0130174	.0127316	.0544639	.0981948

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1037618**	**.0063490**	**.0065924**	**1.954531**	**.0103882**	**.0301287**
Stddev	.0007619	.0000913	.0001140	.020761	.0000590	.0001805
%RSD	.7343119	1.438445	1.729467	1.062184	.5675566	.5991406
#1	.1029737	.0062587	.0066941	1.932286	.0103299	.0303106
#2	.1038171	.0063469	.0064691	1.957915	.0104478	.0299496
#3	.1044945	.0064413	.0066138	1.973392	.0103868	.0301258

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0231875**	**.0998092**	**.0212528**	**2.060424**	**.0402271**	**.0111268**
Stddev	.0023087	.0078514	.0005665	.013237	.0004660	.0004088
%RSD	9.956730	7.866461	2.665391	.6424397	1.158313	3.673635
#1	.0241781	.1087040	.0206630	2.046728	.0406036	.0115864
#2	.0205488	.0938428	.0217926	2.073149	.0403717	.0109899
#3	.0248355	.0968808	.0213027	2.061394	.0397060	.0108040

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.907261**	**.0378898**	**.0432280**	**1.870161**	**.0188752**	**.1031989**
Stddev	.152115	.0012786	.0001321	.016049	.0015155	.0000361
%RSD	7.975576	3.374617	.3056389	.8581743	8.028823	.0349282
#1	1.737481	.0393164	.0430759	1.876228	.0179215	.1032403
#2	1.953164	.0368472	.0433147	1.882293	.0180814	.1031742
#3	2.031139	.0375058	.0432934	1.851963	.0206227	.1031823

Sample Name: LLCCV01 Acquired: 07/19/2023 13:45:56 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2198758	F .0129718	.3867321	.0410220	.0405098	.0194680
Stddev	.0014230	.0072103	.0040313	.0016957	.0004832	.0004395
%RSD	.6471606	55.58450	1.042398	4.133668	1.192680	2.257569
#1	.2209809	.0139032	.3883167	.0425158	.0402995	.0194400
#2	.2182702	.0053411	.3821493	.0391788	.0401674	.0190431
#3	.2203761	.0196711	.3897304	.0413714	.0410624	.0199208

Elem	Sr4077
Units	ppm
Avg	.0192924
Stddev	.0001219
%RSD	.6319701
#1	.0192275
#2	.0192167
#3	.0194331

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1312.201	1754.613	43722.90	7640.287	1858.793
Stddev	7.480	11.021	174.33	21.972	8.987
%RSD	.5700658	.6280973	.3987261	.2875839	.4835032
#1	1308.303	1743.034	43607.04	7617.390	1849.280
#2	1307.474	1764.975	43638.27	7661.200	1867.141
#3	1320.825	1755.829	43923.40	7642.270	1859.959

Sample Name: CCB01 Acquired: 07/19/2023 13:50:02 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000682**	**.0013036**	**-.000918**	**.0019582**	**.0001653**	**.0099666**	**-.000889**
Stddev	.002274	.0018898	.001307	.0031511	.0004874	.0048951	.000330
%RSD	333.2779	144.9736	142.2808	160.9176	294.9013	49.11543	37.18454
#1	.001757	-.000614	-.001341	-.001217	-.000204	.0085467	-.001194
#2	-.001061	.003164	-.001961	.002007	.000718	.0154147	-.000538
#3	-.002743	.001361	.000547	.005085	-.000018	.0059384	-.000933

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000077**	**-.000096**	**.0113533**	**-.000093**	**.0001842**	**.0011153**	**-.001536**
Stddev	.0000252	.000063	.0102327	.000279	.0003634	.0011482	.004650
%RSD	326.2316	65.53447	90.12985	298.8882	197.3165	102.9467	302.6895
#1	.0000366	-.000145	.0045763	-.000244	.0006022	.0022329	.001271
#2	-.000010	-.000025	.0063595	.000229	-.000056	-.000061	-.006904
#3	-.000003	-.000118	.0231241	-.000265	.000007	.001174	.001024

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000594**	**.0153880**	**-.000073**	**.0001425**	**.0047542**	**-.000269**	**.0007156**
Stddev	.000246	.0218613	.000232	.0002164	.2153534	.001259	.0004854
%RSD	41.40203	142.0675	318.3146	151.8352	4529.765	468.2304	67.83204
#1	-.000523	.0356728	-.000327	.0001416	-.014220	-.001667	.0003643
#2	-.000867	.0182575	.000128	-.000073	-.200484	.000775	.0012695
#3	-.000391	-.007766	-.000020	.000359	.228967	.000085	.0005131

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.076846**	**.0006277**	**.0009139**	**.0002776**	**-.007431**	**-.004859**	**.0024755**
Stddev	.061454	.0008866	.0005933	.0002064	.000682	.000601	.0008213
%RSD	79.97117	141.2502	64.92090	74.35523	9.181909	12.36029	33.17535
#1	-.010958	.0014264	.0015869	.0001497	-.008158	-.005153	.0033906
#2	-.086970	.0007831	.0006882	.0001674	-.007332	-.004168	.0018024
#3	-.132609	-.000326	.0004665	.0005157	-.006804	-.005257	.0022335

Sample Name: CCB01 Acquired: 07/19/2023 13:50:02 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003951	-.001911	.0000116
Stddev	.0002280	.000560	.0000595
%RSD	57.69389	29.32215	511.1552
#1	.0001333	-.002305	-.000030
#2	.0005492	-.002159	.000080
#3	.0005029	-.001269	-.000015

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1294.260	1727.988	43033.33	7528.027	1829.857
Stddev	4.319	1.878	82.94	18.207	.691
%RSD	.3336868	.1086864	.1927378	.2418539	.0377839
#1	1290.702	1727.500	43098.50	7549.050	1829.979
#2	1299.065	1730.063	43061.54	7517.570	1829.113
#3	1293.014	1726.403	42939.97	7517.460	1830.479

Sample Name: O3596-01DLX10 Acquired: 07/19/2023 13:54:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001274**	**.0000030**	**.0031788**	**.0011568**	**-.000509**	**.1500133**	**.0115508**
Stddev	.006486	.0006629	.0015899	.0062252	.001389	.0129471	.0004045
%RSD	509.0782	22265.27	50.01600	538.1364	272.6169	8.630669	3.501945
#1	-.007151	.0007012	.0040120	.0059543	-.001439	.1398936	.0114894
#2	-.002355	-.000618	.0041788	-.005878	-.001176	.1646032	.0119824
#3	.005684	-.000075	.0013454	.003394	.001087	.1455431	.0111804

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000201**	**.0000381**	**14.36864**	**.0003175**	**-.000226**	**.0050980**	**2.850846**
Stddev	.0000058	.0000837	.03980	.0002305	.000234	.0025980	.026742
%RSD	28.73468	219.3872	.2769809	72.59850	103.7448	50.96086	.9380343
#1	.0000223	-.000029	14.40926	.0001325	-.000397	.0021160	2.855174
#2	.0000136	.000012	14.36695	.0002443	-.000322	.0068725	2.822204
#3	.0000245	.000132	14.32972	.0005757	.000041	.0063055	2.875160

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0739007**	**1.120555**	**.0014101**	**.0003158**	**3.417366**	**-.000007**	**.0561034**
Stddev	.0013251	.013656	.0002787	.0001966	.037412	.001998	.0007265
%RSD	1.793037	1.218640	19.76130	62.23589	1.094748	30331.26	1.294939
#1	.0742704	1.110111	.0012833	.0001093	3.453887	-.002164	.0568574
#2	.0750016	1.136008	.0012174	.0005005	3.379124	.000365	.0560450
#3	.0724300	1.115547	.0017296	.0003376	3.419086	.001780	.0554079

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.524682**	**.3209103**	**.0102236**	**.0007955**	**.5164846**	**1.469074**	**.0000950**
Stddev	.013623	.0008939	.0002365	.0003608	.0008911	.012247	.0008187
%RSD	.8935087	.2785613	2.313203	45.35536	.1725315	.8336450	861.6601
#1	1.534938	.3214416	.0102402	.0003803	.5174703	1.475244	-.000770
#2	1.529884	.3214111	.0104513	.0010324	.5157360	1.454969	.000858
#3	1.509224	.3198782	.0099792	.0009737	.5162476	1.477008	.000197

Sample Name: O3596-01DLX10 Acquired: 07/19/2023 13:54:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0057827	.0006196	.0418797
Stddev	.0007596	.0011151	.0003558
%RSD	13.13636	179.9581	.8494481
#1	.0049557	-.000356	.0419757
#2	.0059428	.001835	.0421776
#3	.0064494	.000379	.0414858

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1321.047	1746.459	43727.42	7604.583	1850.932
Stddev	2.445	1.319	107.25	50.694	1.345
%RSD	.1850746	.0755447	.2452592	.6666188	.0726453
#1	1319.506	1744.951	43653.50	7546.780	1850.220
#2	1319.769	1747.030	43678.33	7641.480	1850.093
#3	1323.866	1747.397	43850.42	7625.490	1852.483

Sample Name: O3596-01DUPDLX10 Acquired: 07/19/2023 13:58:12 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000666**	**-.000161**	**.0018391**	**.0022519**	**-.000813**	**.1505651**	**.0117385**
Stddev	.007762	.001666	.0002151	.0047035	.001375	.0116046	.0001600
%RSD	1165.197	1032.179	11.69835	208.8704	169.1694	7.707392	1.363135
#1	-.002524	-.001588	.0018655	.0009036	-.002312	.1527971	.0115573
#2	.007856	.001670	.0020398	.0074823	.000389	.1380066	.0117979
#3	-.007330	-.000567	.0016120	-.001630	-.000515	.1608916	.0118604

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000890**	**-.000020**	**14.51239**	**.0004090**	**-.000386**	**.0035878**	**2.890832**
Stddev	.0000857	.000038	.11015	.0001405	.000304	.0032052	.020281
%RSD	96.25581	184.0160	.7590064	34.33696	78.81085	89.33704	.7015700
#1	.0001160	-.000058	14.38972	.0003778	-.000047	.0028330	2.867495
#2	.0001580	-.000021	14.54460	.0002868	-.000474	.0071031	2.900806
#3	-.000007	.000017	14.60284	.0005625	-.000635	.0008273	2.904195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0752180**	**1.109291**	**.0010002**	**-.000083**	**3.389154**	**-.000327**	**.0574095**
Stddev	.0006571	.013774	.0001612	.000504	.035371	.002530	.0004660
%RSD	.8735465	1.241665	16.11377	606.8155	1.043657	774.4532	.8116251
#1	.0757780	1.097503	.0011847	.000499	3.358919	-.000263	.0568738
#2	.0753812	1.124431	.0009285	-.000358	3.380491	.002171	.0576339
#3	.0744947	1.105937	.0008873	-.000391	3.428052	-.002888	.0577209

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.585194**	**.3303468**	**.0091421**	**.0004745**	**.5307864**	**1.478885**	**.0004707**
Stddev	.056410	.0049281	.0010191	.0004905	.0048226	.009043	.0007510
%RSD	3.558544	1.491805	11.14757	103.3549	.9085804	.6114722	159.5571
#1	1.520058	.3265603	.0085419	.0007923	.5320510	1.487975	-.000236
#2	1.617650	.3285614	.0085656	.0007217	.5254574	1.469890	.001259
#3	1.617875	.3359188	.0103188	-.000090	.5348506	1.478791	.000389

Sample Name: O3596-01DUPDLX10 Acquired: 07/19/2023 13:58:12 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0060978	.0020608	.0421047
Stddev	.0002647	.0008231	.0001601
%RSD	4.341222	39.94015	.3802961
#1	.0064027	.0012751	.0420099
#2	.0059637	.0019906	.0422896
#3	.0059269	.0029167	.0420146

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1306.284	1735.459	43475.79	7645.847	1843.754
Stddev	12.133	5.184	311.14	47.040	3.384
%RSD	.9288532	.2987349	.7156731	.6152355	.1835324
#1	1299.900	1729.486	43244.44	7591.960	1839.941
#2	1298.675	1738.798	43353.40	7666.880	1844.921
#3	1320.277	1738.092	43829.51	7678.700	1846.401

Sample Name: O3596-01LDLX50 Acquired: 07/19/2023 14:02:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004940**	**.0008713**	**.0007686**	**-.001643**	**.0010133**	**.0372207**	**.0016186**
Stddev	.000339	.0006026	.0022715	.002684	.0012590	.0040397	.0003930
%RSD	6.857017	69.15878	295.5334	163.3355	124.2523	10.85337	24.28098
#1	-.005158	.0007765	-.001828	-.000775	.0004615	.0416160	.0013386
#2	-.005112	.0003218	.001748	.000499	.0024540	.0363758	.0014493
#3	-.004550	.0015158	.002386	-.004654	.0001244	.0336702	.0020679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000885**	**-.000056**	**2.910346**	**-.000244**	**-.000101**	**.0012751**	**.5760327**
Stddev	.0000246	.000075	.032123	.000191	.000370	.0011868	.0087740
%RSD	27.76582	134.8290	1.103762	78.15688	364.7493	93.07862	1.523172
#1	.0000811	-.000039	2.883785	-.000029	.000114	.0013249	.5678949
#2	.0000685	-.000138	2.901203	-.000311	-.000529	.0024362	.5748753
#3	.0001159	.000010	2.946049	-.000393	.000110	.0000641	.5853280

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0145790**	**.2266841**	**-.000054**	**.0005564**	**.7747362**	**-.000681**	**.0114429**
Stddev	.0005310	.0120063	.000122	.0001725	.3022771	.002152	.0006792
%RSD	3.642387	5.296466	226.0023	31.01157	39.01678	316.1626	5.935819
#1	.0145822	.2377283	-.000023	.0003660	.5373957	.000740	.0121598
#2	.0140464	.2284195	-.000188	.0007025	.6717681	.000374	.0113598
#3	.0151085	.2139046	.000050	.0006006	1.115045	-.003156	.0108090

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2284439**	**.0622641**	**-.000284**	**.0003191**	**.0959384**	**.2964680**	**.0012992**
Stddev	.0576807	.0038898	.001311	.0002041	.0020531	.0017029	.0005690
%RSD	25.24938	6.247322	461.7111	63.97624	2.140032	.5744012	43.79975
#1	.2433984	.0639443	-.001725	.0004031	.0937397	.2959113	.0019181
#2	.1647587	.0650314	.000034	.0004677	.0962699	.2951130	.0007986
#3	.2771746	.0578166	.000839	.0000863	.0978056	.2983795	.0011808

Sample Name: O3596-01LDLX50 Acquired: 07/19/2023 14:02:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0018703	-.001787	.0084870
Stddev	.0005013	.000338	.0000631
%RSD	26.80434	18.90378	.7431609
#1	.0013050	-.001447	.0084315
#2	.0020448	-.002122	.0084738
#3	.0022610	-.001792	.0085556

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1318.203	1751.624	43678.36	7590.770	1853.445
Stddev	8.427	9.391	96.13	14.760	10.996
%RSD	.6392777	.5361176	.2200782	.1944438	.5932830
#1	1309.449	1744.804	43575.49	7604.220	1844.901
#2	1326.260	1747.734	43765.90	7574.980	1849.583
#3	1318.900	1762.335	43693.70	7593.110	1865.851

Sample Name: O3596-01MSDLX10 Acquired: 07/19/2023 14:06:14 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0815540**	**.1962497**	**.0988020**	**.2068203**	**.0791488**	**.3451120**	**.0306733**
Stddev	.0107152	.0026212	.0019278	.0032517	.0006705	.0079938	.0003799
%RSD	13.13883	1.335628	1.951212	1.572211	.8471374	2.316281	1.238626
#1	.0702277	.1953080	.0978591	.2105238	.0783760	.3393794	.0302606
#2	.0915303	.1942295	.0975272	.2044334	.0795757	.3417130	.0307509
#3	.0829039	.1992116	.1010198	.2055038	.0794947	.3542435	.0310085

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0191944**	**.0196475**	**14.03890**	**.0397169**	**.0187923**	**.0335991**	**3.071933**
Stddev	.0000927	.0000587	.17038	.0002790	.0003135	.0014299	.045528
%RSD	.4830383	.2985120	1.213615	.7024518	1.668187	4.255795	1.482067
#1	.0191058	.0196671	13.84363	.0398112	.0189031	.0325785	3.019507
#2	.0192907	.0195816	14.11574	.0394030	.0184385	.0352334	3.094755
#3	.0191866	.0196939	14.15732	.0399365	.0190354	.0329853	3.101535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0927505**	**1.246477**	**.0493600**	**.0078726**	**3.412518**	**.0304684**	**.0856023**
Stddev	.0006022	.021869	.0003423	.0002204	.087435	.0012436	.0010013
%RSD	.6493081	1.754493	.6935213	2.799112	2.562190	4.081581	1.169662
#1	.0920551	1.225628	.0494353	.0080910	3.350961	.0313360	.0862804
#2	.0931007	1.244562	.0489863	.0076503	3.373994	.0290437	.0844523
#3	.0930956	1.269241	.0496583	.0078764	3.512600	.0310256	.0860742

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.459557**	**.9185494**	**.0375658**	**.0395564**	**.4994874**	**1.507609**	**.0671415**
Stddev	.090148	.0034320	.0008521	.0008101	.0051854	.010173	.0017411
%RSD	3.665221	.3736300	2.268378	2.048005	1.038143	.6748091	2.593188
#1	2.355494	.9151677	.0379304	.0387287	.4970073	1.496256	.0651715
#2	2.513816	.9184509	.0365920	.0395928	.4960078	1.510671	.0677791
#3	2.509360	.9220295	.0381749	.0403477	.5054471	1.515899	.0684739

Sample Name: O3596-01MSDLX10 Acquired: 07/19/2023 14:06:14 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0253580	.0207620	.0585743
Stddev	.0014528	.0019604	.0003110
%RSD	5.729119	9.442212	.5309633
#1	.0264167	.0190487	.0582785
#2	.0237017	.0203375	.0588986
#3	.0259556	.0228999	.0585459

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1301.693	1734.933	43366.15	7638.543	1838.182
Stddev	6.529	4.587	48.66	11.955	5.121
%RSD	.5016124	.2644064	.1122075	.1565150	.2786110
#1	1294.168	1735.499	43315.78	7645.260	1837.538
#2	1305.056	1739.211	43412.90	7624.740	1843.594
#3	1305.855	1730.089	43369.78	7645.630	1833.412

Sample Name: O3596-01MSDDLX10 Acquired: 07/19/2023 14:10:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0802557**	**.1952534**	**.1010334**	**.2101624**	**.0780389**	**.3408408**	**.0314898**
Stddev	.0059226	.0002612	.0004503	.0047802	.0020264	.0074357	.0003389
%RSD	7.379595	.1337871	.4456539	2.274531	2.596709	2.181565	1.076187
#1	.0870149	.1955393	.1006070	.2144400	.0763230	.3494092	.0313484
#2	.0759754	.1950273	.1009892	.2050025	.0775192	.3370316	.0312445
#3	.0777769	.1951935	.1015042	.2110447	.0802746	.3360816	.0318765

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0195298**	**.0195478**	**14.15009**	**.0410290**	**.0184945**	**.0325589**	**3.089285**
Stddev	.0000691	.0001305	.11933	.0003562	.0004702	.0009700	.013026
%RSD	.3540009	.6678020	.8433191	.8680616	2.542153	2.979344	.4216576
#1	.0195240	.0196521	14.01381	.0413935	.0179874	.0320740	3.097390
#2	.0194638	.0194014	14.20059	.0406818	.0189160	.0336758	3.074259
#3	.0196017	.0195899	14.23586	.0410117	.0185800	.0319270	3.096205

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0932467**	**1.286201**	**.0491238**	**.0076804**	**3.541319**	**.0303111**	**.0865970**
Stddev	.0007811	.015255	.0004039	.0003146	.254260	.0017434	.0019729
%RSD	.8376142	1.186064	.8222341	4.096652	7.179799	5.751692	2.278242
#1	.0929349	1.298911	.0486735	.0073310	3.443980	.0321093	.0851267
#2	.0941354	1.269284	.0494542	.0079413	3.350110	.0301959	.0858252
#3	.0926696	1.290408	.0492437	.0077690	3.829867	.0286282	.0888391

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.512765**	**.9300530**	**.0381210**	**.0395119**	**.5002709**	**1.530840**	**.0659726**
Stddev	.066805	.0061798	.0009268	.0004234	.0037642	.002970	.0004930
%RSD	2.658610	.6644531	2.431143	1.071443	.7524432	.1940328	.7473268
#1	2.435631	.9343138	.0372547	.0394393	.4973869	1.527620	.0656112
#2	2.550525	.9328798	.0380102	.0399668	.4988966	1.531425	.0657725
#3	2.552138	.9229654	.0390983	.0391295	.5045292	1.533473	.0665343

Sample Name: O3596-01MSDDLX10 Acquired: 07/19/2023 14:10:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0249023	.0225824	.0590309
Stddev	.0007959	.0011307	.0003764
%RSD	3.196106	5.006999	.6376785
#1	.0239855	.0232825	.0586421
#2	.0253047	.0231867	.0590569
#3	.0254165	.0212779	.0593936

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1307.539	1755.443	43476.04	7634.663	1854.493
Stddev	9.838	4.292	254.40	33.037	8.213
%RSD	.7524244	.2444985	.5851589	.4327245	.4428821
#1	1318.731	1750.487	43423.40	7649.880	1846.624
#2	1303.625	1757.926	43752.64	7596.760	1853.843
#3	1300.259	1757.916	43252.07	7657.350	1863.012

Sample Name: O3596-01ADLX10 Acquired: 07/19/2023 14:14:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0945988**	**.2284946**	**.1161521**	**.2398257**	**.0893018**	**.3646961**	**.0337117**
Stddev	.0087423	.0007866	.0011722	.0068978	.0011159	.0043703	.0004886
%RSD	9.241490	.3442706	1.009154	2.876170	1.249544	1.198343	1.449464
#1	.1011681	.2282424	.1173880	.2320160	.0904945	.3642831	.0339339
#2	.0846763	.2278651	.1150563	.2423756	.0882833	.3605470	.0340499
#3	.0979522	.2293765	.1160121	.2450855	.0891275	.3692583	.0331515

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220965**	**.0225487**	**14.13929**	**.0463937**	**.0216310**	**.0400760**	**3.105406**
Stddev	.0001901	.0000332	.01210	.0004723	.0001288	.0014006	.011132
%RSD	.8603278	.1473870	.0855938	1.018001	.5954215	3.494967	.3584769
#1	.0223160	.0225204	14.13192	.0461778	.0216655	.0406582	3.101294
#2	.0219839	.0225404	14.13268	.0469353	.0214885	.0384782	3.096915
#3	.0219896	.0225853	14.15326	.0460680	.0217390	.0410916	3.118009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0961950**	**1.318454**	**.0565736**	**.0086947**	**3.808569**	**.0342243**	**.0787778**
Stddev	.0002039	.025968	.0008069	.0002057	.035464	.0005230	.0004328
%RSD	.2119267	1.969574	1.426346	2.365423	.9311530	1.528163	.5493655
#1	.0964244	1.291815	.0559546	.0085075	3.849428	.0336245	.0782993
#2	.0961260	1.319852	.0562799	.0089148	3.785788	.0345850	.0788922
#3	.0960346	1.343694	.0574862	.0086618	3.790489	.0344633	.0791419

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.590667**	**1.010692**	**.0420834**	**.0454009**	**.5153044**	**1.532764**	**.0761987**
Stddev	.004540	.003078	.0010090	.0004520	.0121648	.008576	.0010837
%RSD	.1752634	.3045846	2.397671	.9956453	2.360705	.5595056	1.422174
#1	2.589322	1.012781	.0419279	.0453582	.5290064	1.540884	.0774477
#2	2.595727	1.012138	.0411611	.0449717	.5057749	1.523795	.0755085
#3	2.586950	1.007157	.0431611	.0458728	.5111318	1.533613	.0756398

Sample Name: O3596-01ADLX10 Acquired: 07/19/2023 14:14:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0284824	.0245524	.0619556
Stddev	.0005894	.0003983	.0004588
%RSD	2.069275	1.622075	.7405926
#1	.0285046	.0241262	.0619268
#2	.0278822	.0246160	.0615119
#3	.0290603	.0249151	.0624282

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1298.613	1743.022	43451.55	7594.670	1842.178
Stddev	5.416	2.778	269.25	47.186	3.201
%RSD	.4170382	.1593985	.6196650	.6213081	.1737861
#1	1301.274	1739.868	43473.80	7540.200	1839.431
#2	1302.183	1744.091	43171.86	7623.050	1841.408
#3	1292.381	1745.107	43708.99	7620.760	1845.694

Sample Name: O3582-01 Acquired: 07/19/2023 14:18:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004802**	**.0007829**	**.0088637**	**.0021962**	**-.001201**	**.0389401**	**.0021154**
Stddev	.004385	.0014576	.0010487	.0047266	.000617	.0099002	.0003262
%RSD	91.31543	186.1788	11.83110	215.2221	51.38148	25.42426	15.41987
#1	-.001438	.0023049	.0076578	.0076538	-.001372	.0481523	.0017411
#2	-.009761	-.000600	.0093716	-.000491	-.001715	.0401963	.0023391
#3	-.003206	.000644	.0095617	-.000574	-.000516	.0284718	.0022659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000193**	**-.000079**	**.3556447**	**.0005560**	**.0001450**	**.0130381**	**.0599571**
Stddev	.0000306	.000009	.0035985	.0003646	.0003225	.0003108	.0024586
%RSD	158.1465	11.08740	1.011834	65.57600	222.4775	2.383751	4.100606
#1	.0000348	-.000071	.3597617	.0003536	.0002854	.0128240	.0574671
#2	-.000016	-.000076	.3540726	.0009769	-.000224	.0133946	.0623830
#3	.000039	-.000088	.3530996	.0003375	.000373	.0128958	.0600213

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0126122**	**.0455265**	**.0040678**	**.0003670**	**.1339105**	**.0002422**	**.1142019**
Stddev	.0003512	.0108694	.0001518	.0002160	.1216267	.0015179	.0006512
%RSD	2.784707	23.87490	3.731474	58.87487	90.82687	626.8094	.5702157
#1	.0127870	.0340473	.0039300	.0003142	.2599130	-.000963	.1141611
#2	.0128417	.0556610	.0042305	.0006045	.1246268	-.000258	.1135721
#3	.0122079	.0468712	.0040429	.0001822	.0171917	.001947	.1148726

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.221373**	**.0139867**	**-.003386**	**.0001705**	**.0344363**	**.0302573**	**.0027906**
Stddev	.025687	.0012863	.000300	.0001144	.0027677	.0007979	.0013602
%RSD	11.60341	9.196480	8.847968	67.10732	8.037171	2.637151	48.74155
#1	-.250575	.0125122	-.003732	.0002278	.0329398	.0298844	.0034697
#2	-.202270	.0145697	-.003220	.0000388	.0376301	.0297140	.0036775
#3	-.211275	.0148784	-.003206	.0002450	.0327391	.0311734	.0012246

Sample Name: O3582-01 Acquired: 07/19/2023 14:18:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003011	-.001673	.0006429
Stddev	.0005834	.000191	.0000271
%RSD	193.7514	11.39513	4.212461
#1	.0003689	-.001701	.0006227
#2	-.000313	-.001469	.0006323
#3	.000848	-.001847	.0006737

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1363.484	1797.383	45316.86	7873.107	1902.068
Stddev	3.963	4.494	131.63	13.172	4.078
%RSD	.2906302	.2500495	.2904674	.1673026	.2143801
#1	1359.135	1801.510	45213.49	7886.590	1906.406
#2	1366.891	1798.044	45272.06	7860.270	1901.483
#3	1364.425	1792.594	45465.05	7872.460	1898.314

Sample Name: O3582-02 Acquired: 07/19/2023 14:22:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003559**	**.0019261**	**.0544476**	**-.002497**	**-.001649**	**.0584891**	**.0004846**
Stddev	.004255	.0013399	.0023853	.003584	.001415	.0090099	.0002472
%RSD	119.5515	69.56146	4.380898	143.5282	85.81153	15.40446	51.01680
#1	-.007985	.0023876	.0521903	-.005634	-.002796	.0517742	.0003466
#2	.000501	.0004166	.0542094	.001409	-.002083	.0687285	.0003371
#3	-.003193	.0029743	.0569430	-.003267	-.000068	.0549644	.0007700

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000216**	**-.000177**	**.0483635**	**.0002806**	**.0001224**	**.0085325**	**.0286687**
Stddev	.0000393	.000039	.0034448	.0006085	.0001405	.0000657	.0027185
%RSD	181.8361	22.18889	7.122787	216.8650	114.8057	.7703721	9.482562
#1	-.000019	-.000219	.0485165	-.000379	-.000000	.0085979	.0317675
#2	.000025	-.000141	.0517294	.000400	.000092	.0084664	.0266852
#3	.000059	-.000172	.0448448	.000821	.000276	.0085332	.0275534

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020848**	**.0203657**	**.0006270**	**.0007361**	**-.126100**	**-.001101**	**.0480028**
Stddev	.0002167	.0200364	.0002909	.0000400	.139403	.000857	.0002583
%RSD	10.39246	98.38295	46.39792	5.437629	110.5495	77.89331	.5381797
#1	.0018550	.0045276	.0007531	.0007814	-.184094	-.001893	.0480537
#2	.0022853	.0428904	.0008337	.0007053	.032938	-.001218	.0477228
#3	.0021142	.0136793	.0002943	.0007217	-.227145	-.000191	.0482319

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.358939**	**.0093362**	**-.003398**	**.0001704**	**.0035722**	**.0218266**	**.0015603**
Stddev	.008473	.0034399	.000579	.0003219	.0052822	.0003594	.0009452
%RSD	2.360479	36.84505	17.03061	188.9243	147.8683	1.646617	60.57760
#1	-.351922	.0130801	-.002989	.0005294	.0006410	.0217851	.0005637
#2	-.368352	.0086133	-.003146	.0000744	.0004056	.0214898	.0016733
#3	-.356543	.0063152	-.004061	-.000093	.0096701	.0222050	.0024439

Sample Name: O3582-02 Acquired: 07/19/2023 14:22:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000095	-.002004	.0000527
Stddev	.000531	.000653	.0000064
%RSD	559.7819	32.56376	12.15337
#1	-.000636	-.001257	.0000550
#2	.000426	-.002292	.0000455
#3	-.000075	-.002463	.0000576

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1343.625	1783.145	44769.86	7863.583	1886.832
Stddev	7.784	2.158	109.47	80.776	.500
%RSD	.5793010	.1210197	.2445255	1.027221	.0264977
#1	1335.272	1784.042	44657.54	7949.530	1886.519
#2	1344.931	1784.709	44775.79	7851.990	1887.408
#3	1350.674	1780.683	44876.25	7789.230	1886.568

Sample Name: O3637-01 Acquired: 07/19/2023 14:46:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0263743**	**-.000171**	**.4799471**	**.0003319**	**.0068986**	**13.33104**
Stddev	.0040009	.002464	.0010494	.0071010	.0018796	.13704
%RSD	15.16957	1437.575	.2186428	2139.258	27.24568	1.027970
#1	.0234185	-.001766	.4787859	-.006371	.0090666	13.17432
#2	.0247774	.002666	.4802276	-.000407	.0057269	13.42836
#3	.0309270	-.001415	.4808276	.007773	.0059023	13.39043

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7653754**	**.0012882**	**.0027951**	**312.6511**	**.1197995**	**.0148703**
Stddev	.0043371	.0000438	.0001222	2.5235	.0006107	.0003578
%RSD	.5666683	3.403549	4.372803	.8071433	.5098123	2.406245
#1	.7605710	.0012927	.0027377	309.7445	.1202391	.0147067
#2	.7690020	.0012423	.0029355	313.9258	.1191021	.0146237
#3	.7665533	.0013296	.0027122	314.2830	.1200572	.0152807

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1167951**	**61.78558**	**2.362970**	**48.69760**	**.0359593**	**-.000282**
Stddev	.0007044	.34145	.017473	.40833	.0003947	.000281
%RSD	.6031153	.5526396	.7394640	.8384975	1.097600	99.51487
#1	.1176085	61.39362	2.343117	48.23869	.0355048	-.000023
#2	.1163849	62.01847	2.369779	48.83332	.0362150	-.000581
#3	.1163919	61.94467	2.376013	49.02078	.0361582	-.000244

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**496.2739**	**.0710815**	**.6731060**	**44.81164**	**.9717805**	**.2918391**
Stddev	4.6455	.0030934	.0052268	.32954	.0109263	.0005233
%RSD	.9360745	4.351855	.7765171	.7353798	1.124359	.1793251
#1	491.0580	.0686961	.6786843	44.53167	.9839284	.2912916
#2	499.9665	.0699719	.6683216	45.17480	.9627561	.2918916
#3	497.7972	.0745767	.6723120	44.72846	.9686571	.2923343

Sample Name: O3637-01 Acquired: 07/19/2023 14:46:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220312	F 16.88657	F 42.54517	.0167130	.4740849	.0553376
Stddev	.0009307	.09732	.05878	.0020411	.0027769	.0011279
%RSD	4.224628	.5763401	.1381540	12.21286	.5857275	2.038292
#1	.0216473	16.81441	42.55868	.0144589	.4711484	.0565708
#2	.0213538	16.84803	42.59602	.0184362	.4766683	.0550837
#3	.0230925	16.99726	42.48081	.0172439	.4744380	.0543582

Elem	Sr4077
Units	ppm
Avg	2.230278
Stddev	.021154
%RSD	.9484722
#1	2.209170
#2	2.251477
#3	2.230186

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1143.252	1565.107	38856.30	7155.278	1484.199
Stddev	8.332	5.295	145.84	27.727	3.644
%RSD	.7288073	.3382941	.3753359	.3875010	.2455234
#1	1133.904	1559.192	38695.61	7125.719	1480.036
#2	1149.895	1566.724	38893.04	7159.404	1486.812
#3	1145.958	1569.404	38980.26	7180.710	1485.749

Sample Name: O3637-01DUP Acquired: 07/19/2023 14:50:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508DUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0307232**	**-.000395**	**.4875239**	**-.001710**	**.0053670**	**13.27897**
Stddev	.0003614	.001333	.0047378	.005844	.0030938	.30626
%RSD	1.176325	337.4330	.9718108	341.7406	57.64477	2.306338
#1	.0306721	.001027	.4904643	-.008408	.0018150	12.93393
#2	.0311074	-.001617	.4900489	.000923	.0068127	13.38440
#3	.0303900	-.000595	.4820584	.002354	.0074732	13.51859

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7617993**	**.0012315**	**.0028042**	**311.9295**	**.1214309**	**.0151865**
Stddev	.0155307	.0000405	.0002410	7.5512	.0001679	.0002148
%RSD	2.038692	3.290035	8.595596	2.420797	.1382628	1.414359
#1	.7442606	.0012528	.0030320	303.2701	.1214360	.0149946
#2	.7673282	.0012570	.0028288	315.3749	.1215963	.0151464
#3	.7738090	.0011848	.0025518	317.1434	.1212606	.0154185

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1181360**	**61.76296**	**2.364411**	**48.68509**	**.0362748**	**-.000460**
Stddev	.0034379	1.11983	.052358	1.14032	.0005883	.000207
%RSD	2.910128	1.813110	2.214420	2.342227	1.621690	44.94276
#1	.1158340	60.47342	2.304024	47.38380	.0367932	-.000670
#2	.1164861	62.32504	2.392065	49.16167	.0363957	-.000451
#3	.1220879	62.49043	2.397143	49.50981	.0356355	-.000258

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**494.1165**	**.0717774**	**.6830084**	**44.63358**	**.9896985**	**.2906937**
Stddev	10.0549	.0020899	.0054036	.91111	.0069550	.0050688
%RSD	2.034933	2.911681	.7911535	2.041301	.7027350	1.743688
#1	482.7488	.0697043	.6773432	43.60414	.9863426	.2849081
#2	497.7555	.0738837	.6881056	44.96044	.9976951	.2943531
#3	501.8454	.0717441	.6835765	45.33618	.9850578	.2928199

Sample Name: O3637-01DUP Acquired: 07/19/2023 14:50:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508DUP Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224173	F 17.18765	F 42.49820	.0150068	.4747085	.0560443
Stddev	.0002160	.03497	.51861	.0009468	.0090347	.0010690
%RSD	.9637764	.2034505	1.220320	6.308900	1.903202	1.907355
#1	.0222793	17.14759	41.91293	.0147850	.4644380	.0548341
#2	.0223064	17.20324	42.90060	.0141906	.4782587	.0568599
#3	.0226663	17.21211	42.68109	.0160447	.4814289	.0564388

Elem	Sr4077
Units	ppm
Avg	2.212092
Stddev	.040396
%RSD	1.826141
#1	2.165959
#2	2.229187
#3	2.241129

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1150.184	1563.486	39055.96	7257.914	1479.327
Stddev	4.101	1.354	303.24	68.672	5.996
%RSD	.3565482	.0866139	.7764219	.9461631	.4053289
#1	1154.878	1562.815	38717.78	7337.046	1475.623
#2	1148.375	1562.598	39303.65	7213.932	1476.113
#3	1147.298	1565.045	39146.45	7222.766	1486.245

Sample Name: CCV02 Acquired: 07/19/2023 14:54:19 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.078664**	**5.068618**	**4.931913**	**5.041159**	**4.965346**	**9.705557**	**10.18404**
Stddev	.009548	.010669	.011485	.017086	.014818	.068494	.03839
%RSD	.1880055	.2104974	.2328805	.3389364	.2984300	.7057198	.3769803
#1	5.075662	5.056557	4.934344	5.021553	4.956884	9.658161	10.14366
#2	5.089352	5.076825	4.941989	5.049048	4.956698	9.674422	10.18836
#3	5.070978	5.072473	4.919407	5.052875	4.982456	9.784087	10.22008

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2382268**	**2.433208**	**24.17635**	**.9911539**	**2.461362**	**1.246943**	**4.804514**
Stddev	.0003373	.004932	.18936	.0004592	.005101	.019942	.016341
%RSD	.1415851	.2026889	.7832355	.0463294	.2072423	1.599299	.3401251
#1	.2378928	2.428476	23.99287	.9906281	2.456184	1.235949	4.798657
#2	.2382204	2.438318	24.16510	.9914764	2.466382	1.234917	4.791908
#3	.2385673	2.432830	24.37109	.9913570	2.461522	1.269963	4.822977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.453039**	**23.43079**	**2.461407**	**1.276721**	**24.14250**	**2.429450**	**2.513105**
Stddev	.017242	.24701	.004082	.003290	.28783	.019350	.005526
%RSD	.7028648	1.054221	.1658357	.2576656	1.192233	.7964586	.2198771
#1	2.434227	23.22069	2.456694	1.280463	24.09315	2.409004	2.519368
#2	2.456801	23.36879	2.463815	1.275412	23.88254	2.431871	2.511032
#3	2.468089	23.70290	2.463712	1.274287	24.45182	2.447475	2.508916

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.50495**	**5.244088**	**4.818690**	**4.941698**	**4.783922**	**4.847626**	**4.812590**
Stddev	.13244	.014235	.017685	.012535	.014217	.028030	.011740
%RSD	.5404664	.2714480	.3670019	.2536659	.2971766	.5782120	.2439488
#1	24.44154	5.227752	4.800896	4.930653	4.798127	4.821700	4.799571
#2	24.41613	5.253830	4.818911	4.939118	4.769694	4.843810	4.822373
#3	24.65717	5.250682	4.836263	4.955322	4.783944	4.877368	4.815825

Sample Name: CCV02 Acquired: 07/19/2023 14:54:19 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.860201**	**5.062002**	**4.687067**
Stddev	.036439	.017634	.037676
%RSD	.7497502	.3483555	.8038365
#1	4.835972	5.043220	4.673472
#2	4.842524	5.064583	4.658074
#3	4.902107	5.078203	4.729653

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1259.252**	**1687.313**	**42357.18**	**7486.052**	**1712.218**
Stddev	6.142	5.456	127.35	20.586	2.713
%RSD	.4877586	.3233710	.3006597	.2749853	.1584523
#1	1252.192	1692.195	42216.03	7494.975	1715.341
#2	1263.368	1688.322	42392.06	7500.670	1710.869
#3	1262.195	1681.423	42463.47	7462.510	1710.443

Sample Name: CCB02 Acquired: 07/19/2023 14:58:14 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003714**	**.0012999**	**-.000799**	**.0061712**	**-.001243**	**.0024314**	**-.000651**
Stddev	.003199	.0016873	.001671	.0063851	.000737	.0027224	.000302
%RSD	86.13865	129.8031	209.0610	103.4654	59.29926	111.9700	46.36592
#1	-.001428	.0032466	.001049	.0012029	-.000604	.0023287	-.000938
#2	-.007369	.0003972	-.001243	.0039377	-.002050	-.000238	-.000680
#3	-.002344	.0002560	-.002204	.0133730	-.001076	.005204	-.000336

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000350**	**-.000088**	**.0083660**	**-.000015**	**.0002080**	**-.001006**	**.0015480**
Stddev	.0000130	.000022	.0016763	.000128	.0003591	.000738	.0042350
%RSD	37.14992	24.85332	20.03678	849.4370	172.6594	73.30665	273.5794
#1	.0000220	-.000086	.0071854	-.000028	-.000202	-.001714	-.002558
#2	.0000480	-.000111	.0076281	-.000136	.000362	-.000242	.001300
#3	.0000350	-.000067	.0102847	.000119	.000464	-.001064	.005901

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000838**	**.0018747**	**-.000161**	**.0004547**	**-.006605**	**-.001321**	**-.000029**
Stddev	.000449	.0094721	.000651	.0001103	.099944	.001217	.000287
%RSD	53.55597	505.2523	404.7572	24.24815	1513.078	92.16973	1002.168
#1	-.001199	-.005222	-.000878	.0005797	.079213	-.000895	-.000326
#2	-.000335	-.001784	.000000	.0004133	-.116338	-.002693	.000246
#3	-.000980	.012631	.000395	.0003712	.017309	-.000373	-.000007

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.044337**	**-.004313**	**.0047415**	**.0014400**	**-.008698**	**.0006942**	**.0017010**
Stddev	.031336	.001548	.0008339	.0007423	.005469	.0009403	.0007902
%RSD	70.67806	35.88839	17.58751	51.55009	62.88257	135.4506	46.45603
#1	-.076125	-.004349	.0055723	.0018212	-.013413	-.000279	.0017041
#2	-.013472	-.002747	.0047475	.0019141	-.009979	.001598	.0024896
#3	-.043413	-.005842	.0039046	.0005845	-.002701	.000764	.0009092

Sample Name: CCB02 Acquired: 07/19/2023 14:58:14 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000250	-.000800	.0001921
Stddev	.000494	.000970	.0000800
%RSD	197.5763	121.3039	41.63003
#1	.000307	.000129	.0002606
#2	-.000424	-.001806	.0002116
#3	-.000633	-.000722	.0001042

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1279.227	1719.609	42679.88	7450.890	1812.325
Stddev	12.367	10.175	188.02	37.588	9.938
%RSD	.9667325	.5916857	.4405459	.5044794	.5483327
#1	1267.425	1715.551	42503.90	7424.580	1804.083
#2	1278.166	1712.088	42657.74	7434.150	1809.532
#3	1292.090	1731.186	42877.99	7493.940	1823.360

Sample Name: O3637-01LX5 Acquired: 07/19/2023 15:02:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076609**	**-.000125**	**.0965126**	**.0059739**	**.0002865**	**2.705354**	**.1570937**
Stddev	.0064569	.000778	.0020900	.0041123	.0002320	.023907	.0008865
%RSD	84.28382	620.5586	2.165526	68.83747	80.96664	.8836800	.5643164
#1	.0013176	.000021	.0981825	.0099560	.0004045	2.679251	.1561569
#2	.0142257	.000569	.0971865	.0062228	.0000193	2.710627	.1572048
#3	.0074395	-.000966	.0941688	.0017428	.0004357	2.726184	.1579194

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002809**	**.0004867**	**64.35485**	**.0258427**	**.0015640**	**.0269695**	**13.03717**
Stddev	.0000514	.0000569	.58972	.0005504	.0000242	.0016247	.11478
%RSD	18.27937	11.68868	.9163496	2.129967	1.549425	6.024019	.8803847
#1	.0003043	.0005267	63.67521	.0264373	.0015908	.0288145	12.90481
#2	.0003164	.0005117	64.65813	.0257399	.0015574	.0257529	13.09745
#3	.0002221	.0004216	64.73120	.0253509	.0015437	.0263412	13.10926

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5007297**	**10.13068**	**.0072363**	**.0005429**	**101.5245**	**.0152286**	**.1405081**
Stddev	.0050363	.08880	.0002723	.0002431	.7800	.0014500	.0006242
%RSD	1.005799	.8765798	3.763623	44.77376	.7682430	9.521279	.4442642
#1	.4950734	10.03094	.0074624	.0002626	100.7341	.0153521	.1408387
#2	.5023879	10.15991	.0069340	.0006963	101.5457	.0166128	.1397881
#3	.5047279	10.20118	.0073125	.0006696	102.2936	.0137208	.1408975

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.999221**	**.1850553**	**.0631767**	**.0047567**	**3.229807**	**9.047802**	**.0047962**
Stddev	.097352	.0071195	.0002556	.0005500	.014369	.061646	.0018820
%RSD	1.081780	3.847234	.4045035	11.56354	.4448730	.6813400	39.23859
#1	8.887238	.1932617	.0634572	.0041338	3.233576	9.111338	.0027967
#2	9.063709	.1813751	.0629571	.0049609	3.213929	9.043829	.0050589
#3	9.046717	.1805291	.0631160	.0051755	3.241915	8.988238	.0065330

Sample Name: O3637-01LX5 Acquired: 07/19/2023 15:02:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0968114	.0108672	.4484658
Stddev	.0001368	.0004200	.0030398
%RSD	.1412809	3.865333	.6778120
#1	.0966792	.0112886	.4450887
#2	.0969523	.0104485	.4493259
#3	.0968026	.0108644	.4509829

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1236.649	1668.197	41462.16	7371.631	1690.939
Stddev	8.831	2.205	129.81	60.542	1.001
%RSD	.7141256	.1321543	.3130879	.8212795	.0591691
#1	1226.639	1665.781	41339.63	7314.254	1690.025
#2	1243.338	1670.101	41448.65	7365.734	1690.785
#3	1239.970	1668.708	41598.20	7434.906	1692.008

Sample Name: O3637-01MS Acquired: 07/19/2023 15:06:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508MS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8718681**	**1.928815**	**1.412568**	**1.882620**	**.7786503**	**21.32447**
Stddev	.0051212	.003395	.001948	.009397	.0040537	.20482
%RSD	.5873867	.1760108	.1379093	.4991674	.5206102	.9605013
#1	.8757341	1.927365	1.414363	1.871965	.7819607	21.09683
#2	.8660598	1.926385	1.410496	1.886172	.7741291	21.49385
#3	.8738103	1.932694	1.412846	1.889724	.7798610	21.38273

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8593809**	**.1825350**	**.1993824**	**263.5671**	**.4926841**	**.2105346**
Stddev	.0079310	.0022926	.0004582	3.2535	.0023170	.0005661
%RSD	.9228717	1.255975	.2298189	1.234415	.4702796	.2688871
#1	.8502847	.1806837	.1992267	259.8118	.4916806	.2111840
#2	.8630098	.1850994	.1990224	265.5395	.4953337	.2101450
#3	.8648482	.1818218	.1998982	265.3499	.4910380	.2102748

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3963164**	**55.01067**	**2.185781**	**42.92519**	**.5185142**	**.0748360**
Stddev	.0059599	.64713	.027010	.72780	.0019831	.0003509
%RSD	1.503830	1.176369	1.235697	1.695514	.3824664	.4689340
#1	.3898713	54.26366	2.154629	42.08626	.5170565	.0745073
#2	.4016285	55.40021	2.200057	43.38753	.5177137	.0752056
#3	.3974495	55.36813	2.202656	43.30179	.5207725	.0747950

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**413.2408**	**.3600853**	**.8011569**	**48.29393**	**7.577541**	**.5231860**
Stddev	5.3122	.0045193	.0057149	.72593	.006154	.0086682
%RSD	1.285501	1.255076	.7133323	1.503151	.0812121	1.656816
#1	407.1433	.3551961	.8073172	47.45702	7.570459	.5137669
#2	415.7104	.3641099	.7960278	48.75318	7.580582	.5308280
#3	416.8687	.3609498	.8001257	48.67159	7.581583	.5249631

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: O3637-01MS Acquired: 07/19/2023 15:06:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508MS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4103143	F 14.01425	F 49.10247	.7080085	1.032067	.2569287
Stddev	.0009516	.04492	.53304	.0056087	.038917	.0013127
%RSD	.2319178	.3205294	1.085564	.7921800	3.770736	.5109289
#1	.4113706	13.97688	48.61950	.7018494	1.069167	.2571724
#2	.4100480	14.00178	49.67438	.7093541	.991558	.2555112
#3	.4095242	14.06408	49.01353	.7128220	1.035475	.2581025

Elem	Sr4077
Units	ppm
Avg	2.014229
Stddev	.029163
%RSD	1.447873
#1	1.980669
#2	2.028596
#3	2.033421

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1160.529	1576.292	39231.72	7171.130	1501.365
Stddev	10.675	2.731	313.06	47.670	2.135
%RSD	.9198533	.1732592	.7979892	.6647502	.1422281
#1	1151.394	1574.600	39010.61	7210.917	1498.977
#2	1172.264	1579.443	39589.94	7118.294	1503.090
#3	1157.929	1574.833	39094.59	7184.177	1502.030

Sample Name: O3637-01MSD Acquired: 07/19/2023 15:10:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508MSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8608056**	**1.895377**	**1.386558**	**1.842397**	**.7687358**	**21.04989**
Stddev	.0084960	.009193	.002053	.015741	.0020594	.53437
%RSD	.9869841	.4850029	.1480335	.8543938	.2678965	2.538609
#1	.8584747	1.892912	1.386282	1.849714	.7665664	21.66333
#2	.8537183	1.887669	1.384658	1.824329	.7706640	20.68547
#3	.8702237	1.905551	1.388735	1.853149	.7689770	20.80089

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8461037**	**.1818273**	**.1963628**	**258.5608**	**.4832851**	**.2060722**
Stddev	.0169121	.0049306	.0002929	4.5375	.0021745	.0007053
%RSD	1.998819	2.711714	.1491791	1.754893	.4499527	.3422348
#1	.8655329	.1874790	.1964201	263.7553	.4807743	.2061403
#2	.8346872	.1784054	.1966228	255.3707	.4845638	.2053353
#3	.8380910	.1795976	.1960454	256.5563	.4845172	.2067409

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3895399**	**54.15842**	**2.146758**	**42.19399**	**.5096258**	**.0734151**
Stddev	.0088347	1.00080	.039185	.67678	.0010463	.0008114
%RSD	2.267981	1.847922	1.825299	1.603967	.2053163	1.105234
#1	.3989689	55.31378	2.191341	42.96491	.5085246	.0739040
#2	.3881977	53.60211	2.117781	41.69770	.5106069	.0738628
#3	.3814531	53.55936	2.131151	41.91935	.5097459	.0724784

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**407.9233**	**.3559120**	**.7803376**	**47.77586**	**7.427068**	**.5173091**
Stddev	7.7465	.0050004	.0075295	1.02914	.013085	.0147521
%RSD	1.899016	1.404955	.9648989	2.154096	.1761744	2.851693
#1	416.7204	.3616310	.7739579	48.95641	7.417548	.5341830
#2	402.1221	.3523638	.7784121	47.06790	7.441988	.5068528
#3	404.9275	.3537414	.7886429	47.30327	7.421667	.5108915

Sample Name: O3637-01MSD Acquired: 07/19/2023 15:10:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: A508MSD Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4020646	F 13.65140	F 48.08677	.6982654	1.038555	.2533913
Stddev	.0009720	.02729	1.52129	.0013704	.014270	.0056547
%RSD	.2417596	.1999169	3.163643	.1962625	1.373997	2.231604
#1	.4031823	13.66112	49.81839	.6983903	1.055005	.2597920
#2	.4015949	13.62058	46.96515	.6995691	1.031159	.2490733
#3	.4014166	13.67251	47.47675	.6968368	1.029502	.2513086

Elem	Sr4077
Units	ppm
Avg	1.992228
Stddev	.042267
%RSD	2.121613
#1	2.040951
#2	1.965398
#3	1.970335

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1178.970	1600.344	39945.94	7224.775	1528.391
Stddev	5.636	4.758	97.64	195.560	2.285
%RSD	.4780279	.2973262	.2444299	2.706802	.1494990
#1	1185.429	1594.911	40018.31	6998.963	1526.310
#2	1176.425	1602.356	39834.89	7336.961	1528.026
#3	1175.055	1603.766	39984.62	7338.402	1530.836

Sample Name: O3637-01A Acquired: 07/19/2023 15:13:59 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8795327**	**1.918163**	**1.474829**	**1.878200**	**.7724859**	**15.16253**
Stddev	.0051350	.004272	.004178	.005790	.0063048	.35546
%RSD	.5838290	.2226898	.2832963	.3082733	.8161676	2.344347
#1	.8752683	1.916108	1.476936	1.876637	.7797126	14.81175
#2	.8852327	1.923074	1.477534	1.884612	.7681101	15.15334
#3	.8780972	1.915307	1.470017	1.873353	.7696349	15.52249

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9515056**	**.1814786**	**.1996917**	**309.1377**	**.5052455**	**.2129716**
Stddev	.0167944	.0026586	.0000512	7.4662	.0077854	.0007654
%RSD	1.765030	1.464977	.0256392	2.415184	1.540906	.3593673
#1	.9338878	.1789199	.1997048	301.0665	.5142198	.2126057
#2	.9532958	.1812888	.1996352	310.5489	.5012147	.2138512
#3	.9673331	.1842270	.1997350	315.7976	.5003020	.2124578

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4100236**	**63.94420**	**2.528040**	**50.23775**	**.5231882**	**.0745412**
Stddev	.0102374	1.63628	.060110	1.42787	.0018596	.0012501
%RSD	2.496787	2.558913	2.377724	2.842218	.3554437	1.677106
#1	.4016715	62.19034	2.464151	48.82553	.5210902	.0755530
#2	.4069549	64.21255	2.536494	50.20696	.5246334	.0749269
#3	.4214444	65.42972	2.583475	51.68076	.5238410	.0731436

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**495.7650**	**.3617934**	**.8696932**	**54.38887**	**7.743235**	**.5607539**
Stddev	11.3714	.0105677	.0138620	1.32817	.000643	.0087016
%RSD	2.293705	2.920921	1.593892	2.441997	.0082985	1.551773
#1	484.0650	.3507966	.8845019	53.04616	7.743959	.5512449
#2	496.4534	.3627114	.8675503	54.41843	7.743013	.5626972
#3	506.7765	.3718721	.8570276	55.70201	7.742732	.5683195

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: O3637-01A Acquired: 07/19/2023 15:13:59 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4137184	F 16.70712	F 42.97966	.7024872	.6676175	.2619887
Stddev	.0009170	.02872	.68770	.0037618	.0149736	.0038491
%RSD	.2216460	.1719161	1.600047	.5355017	2.242842	1.469172
#1	.4143971	16.67408	42.38529	.7059643	.6507444	.2579004
#2	.4126752	16.72105	42.82082	.7030035	.6727857	.2625229
#3	.4140829	16.72621	43.73288	.6984939	.6793224	.2655427

Elem	Sr4077
Units	ppm
Avg	2.395747
Stddev	.055777
%RSD	2.328181
#1	2.340122
#2	2.395444
#3	2.451675

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1143.908	1560.671	38924.70	7222.920	1483.822
Stddev	22.117	4.086	631.24	109.619	.938
%RSD	1.933455	.2618361	1.621702	1.517653	.0632139
#1	1125.000	1556.079	38261.93	7335.926	1482.856
#2	1138.495	1562.025	38993.37	7215.797	1484.729
#3	1168.229	1563.908	39518.80	7117.036	1483.882

Sample Name: PB154230BL Acquired: 07/19/2023 15:17:49 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PBW Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001033**	**.0016382**	**-.000521**	**.0016203**	**-.000438**	**.0080799**	**-.000698**
Stddev	.005271	.0021216	.000764	.0006945	.000793	.0059324	.000225
%RSD	510.4397	129.5098	146.6997	42.85923	180.8972	73.42153	32.28239
#1	.003424	.0003933	-.000630	.0008220	.000402	.0045543	-.000947
#2	-.006851	.0040879	.000292	.0019546	-.001174	.0047563	-.000642
#3	.000329	.0004333	-.001225	.0020845	-.000543	.0149290	-.000507

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000088**	**.0232512**	**-.000345**	**.0001206**	**.0012128**	**.0034009**
Stddev	.000077	.000044	.0052477	.000173	.0001102	.0005135	.0016160
%RSD	426.7781	50.11979	22.56970	50.18477	91.38526	42.34113	47.51644
#1	-.000094	-.000139	.0174243	-.000253	.0000173	.0015385	.0050798
#2	.000060	-.000069	.0247247	-.000545	.0002366	.0006208	.0018561
#3	-.000021	-.000057	.0276047	-.000238	.0001078	.0014789	.0032669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003648**	**-.000362**	**-.000172**	**.0000570**	**-.148825**	**-.000917**	**-.000075**
Stddev	.0002594	.024828	.000584	.0001926	.145280	.000674	.000463
%RSD	71.10468	6865.312	340.2031	338.1028	97.61793	73.50669	615.4576
#1	.0005859	.025843	-.000307	-.000014	-.097553	-.001610	.000421
#2	.0000793	-.023533	.000468	-.000090	-.312790	-.000264	-.000152
#3	.0004291	-.003396	-.000675	.000275	-.036133	-.000875	-.000495

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.028733**	**-.000227**	**-.000608**	**.0001381**	**-.007011**	**.0166644**	**.0020159**
Stddev	.025661	.001423	.000313	.0002351	.008231	.0010794	.0005848
%RSD	89.30779	627.8830	51.58021	170.2191	117.4023	6.477257	29.01118
#1	-.000046	-.001505	-.000694	-.000108	-.009505	.0162487	.0019440
#2	-.036652	.001306	-.000260	.000162	-.013706	.0178899	.0014703
#3	-.049501	-.000481	-.000869	.000360	.002179	.0158548	.0026333

Sample Name: PB154230BL Acquired: 07/19/2023 15:17:49 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PBW Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001255	-.001152	.0000433
Stddev	.0012190	.001081	.0000390
%RSD	970.8870	93.78566	90.04827
#1	.0009481	-.000395	.0000860
#2	.0007034	-.002390	.0000341
#3	-.001275	-.000672	.0000097

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1291.550	1733.266	43383.10	7515.667	1827.700
Stddev	11.173	3.380	196.31	107.264	4.676
%RSD	.8650707	.1950033	.4524947	1.427202	.2558255
#1	1298.033	1734.865	43584.66	7409.580	1826.876
#2	1278.648	1729.383	43192.50	7624.070	1823.490
#3	1297.968	1735.549	43372.14	7513.350	1832.732

Sample Name: PB154230BS Acquired: 07/19/2023 15:21:54 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LCSW Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8276962**	**1.977826**	**.9790336**	**2.020620**	**.7723217**	**1.931748**
Stddev	.0111495	.000922	.0018949	.010995	.0017979	.006537
%RSD	1.347049	.0466235	.1935515	.5441287	.2327860	.3384152
#1	.8216646	1.978867	.9797817	2.033014	.7702577	1.924797
#2	.8405621	1.977113	.9768789	2.016805	.7735468	1.932674
#3	.8208618	1.977498	.9804404	2.012041	.7731606	1.937773

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2000492**	**.1895826**	**.1963046**	**1.033920**	**.3949226**	**.1914165**
Stddev	.0012535	.0005363	.0002013	.007672	.0013201	.0003566
%RSD	.6265902	.2828919	.1025282	.7420221	.3342686	.1862697
#1	.1986713	.1896913	.1961999	1.028029	.3958111	.1911586
#2	.2003545	.1890003	.1961772	1.031135	.3955510	.1918233
#3	.2011218	.1900563	.1965366	1.042595	.3934057	.1912675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3087746**	**2.914234**	**.1999031**	**1.862881**	**.4809969**	**.0748956**
Stddev	.0064503	.034304	.0006514	.018703	.0006071	.0006646
%RSD	2.088991	1.177107	.3258615	1.003976	.1262251	.8873243
#1	.3025658	2.883213	.1991545	1.846515	.4802959	.0744453
#2	.3083162	2.908412	.2003405	1.858860	.4813564	.0756589
#3	.3154419	2.951076	.2002143	1.883267	.4813383	.0745827

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.960276**	**.2980111**	**.2036795**	**9.728989**	**5.911716**	**.2833970**
Stddev	.143397	.0065499	.0013137	.073843	.024080	.0012195
%RSD	4.844024	2.197878	.6450038	.7590041	.4073202	.4303062
#1	2.921691	.2931553	.2049525	9.693516	5.894530	.2847941
#2	2.840120	.2954173	.2023285	9.679575	5.901380	.2825465
#3	3.119017	.3054607	.2037575	9.813875	5.939238	.2828503

Sample Name: PB154230BS Acquired: 07/19/2023 15:21:54 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LCSW Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3903166	F .0023194	.8497451	.6595735	.1950101	.2051665
Stddev	.0006205	.0053345	.0083359	.0018276	.0034043	.0016921
%RSD	.1589801	229.9909	.9809843	.2770800	1.745692	.8247444
#1	.3896001	-.002742	.8494442	.6600878	.1913244	.2034384
#2	.3906801	.001809	.8415637	.6575439	.1956696	.2052408
#3	.3906696	.007891	.8582273	.6610888	.1980364	.2068202

Elem	Sr4077
Units	ppm
Avg	.1826120
Stddev	.0018390
%RSD	1.007050
#1	.1804906
#2	.1835913
#3	.1837540

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1288.293	1719.701	43028.65	7499.965	1812.575
Stddev	6.531	1.869	184.87	8.908	2.162
%RSD	.5069829	.1086659	.4296347	.1187769	.1192930
#1	1284.259	1717.804	42926.47	7491.707	1811.005
#2	1284.791	1721.541	42917.42	7509.405	1815.041
#3	1295.828	1719.757	43242.05	7498.782	1811.678

Sample Name: O3616-01 Acquired: 07/19/2023 15:25:51 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: FRAC-TOTE-CO Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117810**	**.0481729**	**1.214654**	**-.055948**	**.0260666**	**366.7191**
Stddev	.0074523	.0032909	.001677	.015424	.0062770	7.2674
%RSD	63.25720	6.831373	.1380670	27.56831	24.08071	1.981730
#1	.0168180	.0444606	1.216120	-.046054	.0270389	360.4289
#2	.0153047	.0493265	1.215017	-.048070	.0193602	374.6746
#3	.0032203	.0507317	1.212825	-.073720	.0318008	365.0537

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.373985**	**.0081838**	**.0204337**	**785.0090**	**.4914319**	**1.876096**
Stddev	.021738	.0000905	.0006035	21.2606	.0011468	.004200
%RSD	1.582121	1.105636	2.953348	2.708332	.2333578	.2238886
#1	1.357937	.0080865	.0207035	760.6476	.4904331	1.874931
#2	1.398724	.0082654	.0197424	799.8178	.4911784	1.872601
#3	1.365295	.0081995	.0208553	794.5616	.4926842	1.880756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.632067**	**381.2125**	**6.127472**	**152.7283**	**.7553595**	**-.007407**
Stddev	.090587	7.3417	.111947	3.2065	.0012967	.000945
%RSD	1.955639	1.925872	1.826971	2.099497	.1716660	12.76400
#1	4.552646	374.8043	6.023194	149.6792	.7538839	-.008093
#2	4.730728	389.2230	6.245768	156.0719	.7558773	-.006329
#3	4.612826	379.6103	6.113453	152.4339	.7563173	-.007800

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1364.074**	**1.036881**	**5.593863**	**40.98703**	F **15.92502**	**.4681689**
Stddev	23.395	.025515	.018305	.72339	.02478	.0107669
%RSD	1.715098	2.460726	.3272247	1.764920	.1556042	2.299796
#1	1344.409	1.012940	5.604867	40.34317	15.94368	.4583717
#2	1389.947	1.063722	5.603989	41.76980	15.89690	.4796960
#3	1357.866	1.033982	5.572733	40.84813	15.93447	.4664391

Sample Name: O3616-01 Acquired: 07/19/2023 15:25:51 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: FRAC-TOTE-CO Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1189328	F 34.10480	F 115.4281	.0974865	F 36.11913	.1447571
Stddev	.0004662	.03866	1.6266	.0047316	.71908	.0025771
%RSD	.3919597	.1133537	1.409187	4.853577	1.990864	1.780285
#1	.1194259	34.09825	113.8835	.0970585	35.53451	.1430799
#2	.1184993	34.14631	117.1259	.1024175	36.92207	.1477244
#3	.1188730	34.06983	115.2751	.0929835	35.90080	.1434669

Elem	Sr4077
Units	ppm
Avg	3.187854
Stddev	.031621
%RSD	.9919248
#1	3.151427
#2	3.208235
#3	3.203899

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1269.815	1715.682	43417.01	8396.014	1213.171
Stddev	8.038	2.183	105.20	101.791	1.586
%RSD	.6330061	.1272175	.2422984	1.212370	.1307384
#1	1262.625	1716.093	43496.55	8477.635	1211.428
#2	1268.327	1717.630	43297.73	8281.959	1213.555
#3	1278.493	1713.323	43456.76	8428.450	1214.530

Sample Name: O3632-01DLX10 Acquired: 07/19/2023 15:29:57 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: RINSATE-BLAN Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0447791**	**-.009796**	**.8463598**	**-.021936**	**.0231695**	**5.771211**	**.1421043**
Stddev	.0062430	.002364	.0092047	.009102	.0003045	.037436	.0004994
%RSD	13.94169	24.13010	1.087564	41.49290	1.314262	.6486632	.3514428
#1	.0401295	-.010433	.8554828	-.011512	.0231463	5.808344	.1426793
#2	.0518747	-.011776	.8465212	-.028312	.0228773	5.733480	.1418543
#3	.0423330	-.007179	.8370755	-.025983	.0234850	5.771811	.1417792

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026864**	**.0052815**	**109.5135**	**.0509988**	**.0203805**	**.4074502**	**179.9596**
Stddev	.0000314	.0000855	.2676	.0010963	.0004094	.0033569	.6760
%RSD	1.166839	1.618660	.2443445	2.149627	2.008694	.8238785	.3756632
#1	.0026588	.0053723	109.4110	.0522645	.0206157	.4072895	180.0348
#2	.0027205	.0052699	109.3124	.0503472	.0206180	.4041765	179.2491
#3	.0026800	.0052025	109.8172	.0503847	.0199078	.4108845	180.5949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.617131**	**41.92072**	**.0830966**	**-.003012**	**.9773078**	**.0302549**	**.8224169**
Stddev	.005076	.14006	.0013141	.000250	.2013062	.0017346	.0180854
%RSD	.3138942	.3341186	1.581352	8.292663	20.59804	5.733308	2.199054
#1	1.611454	41.85869	.0845118	-.003236	1.152748	.0322167	.8425408
#2	1.618706	41.82237	.0828631	-.003056	1.021648	.0289239	.8171873
#3	1.621233	42.08109	.0819150	-.002743	.757528	.0296242	.8075225

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6285357**	**.6671718**	**-.092988**	**.0031221**	**3.179551**	**.2503202**	**.0702521**
Stddev	.0461907	.0030001	.005248	.0009815	.035204	.0072279	.0018285
%RSD	7.348932	.4496751	5.643694	31.43675	1.107204	2.887474	2.602806
#1	.6632488	.6701921	-.098958	.0042554	3.220114	.2560633	.0696165
#2	.5761103	.6641923	-.089100	.0025682	3.161564	.2526932	.0688262
#3	.6462482	.6671311	-.090907	.0025428	3.156973	.2422041	.0723136

Sample Name: O3632-01DLX10 Acquired: 07/19/2023 15:29:57 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: RINSATE-BLAN Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2712018	-.025180	-.062918
Stddev	.0021212	.000669	.000544
%RSD	.7821505	2.655733	.8645412
#1	.2722749	-.025916	-.062327
#2	.2687585	-.024610	-.063029
#3	.2725721	-.025013	-.063397

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1255.374	1685.775	42249.63	7526.285	1708.500
Stddev	26.171	17.197	800.01	38.760	16.166
%RSD	2.084740	1.020125	1.893533	.5149899	.9461822
#1	1225.892	1667.411	41333.64	7483.320	1691.711
#2	1264.366	1688.415	42811.28	7536.915	1709.829
#3	1275.865	1701.500	42603.96	7558.621	1723.960

Sample Name: LR CHECK 2 Acquired: 07/19/2023 15:59:00 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.015791**	**.0071716**	**258.4662**	**.0102580**	**-.019581**	**.1063929**	**97.35633**
Stddev	.004787	.0017832	.5840	.0012697	.000840	.0117649	1.51642
%RSD	30.31318	24.86536	.2259563	12.37801	4.291277	11.05793	1.557602
#1	-.010264	.0087851	258.3205	.0097649	-.018998	.1179930	95.60724
#2	-.018565	.0052570	257.9688	.0093088	-.019201	.1067156	98.15975
#3	-.018545	.0074726	259.1092	.0117003	-.020545	.0944700	98.30199

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002008**	**.0006834**	**.2635914**	**-.164488**	**-.004296**	**233.8680**	**-.421888**
Stddev	.000074	.0000851	.0181456	.001293	.000578	2.2995	.013997
%RSD	3.670665	12.45552	6.883976	.7859835	13.45316	.9832474	3.317797
#1	-.001926	.0005853	.2800198	-.163163	-.003633	231.3672	-.405743
#2	-.002029	.0007375	.2666397	-.164554	-.004694	234.3456	-.429314
#3	-.002069	.0007276	.2441148	-.165746	-.004561	235.8912	-.430608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.96878**	**.0529438**	**47.33414**	**.0031423**	**.7480391**	**-.018625**	**35.54423**
Stddev	.34118	.0149310	.10480	.0005050	.1345494	.002710	.09573
%RSD	.7586974	28.20165	.2214109	16.06994	17.98695	14.54951	.2693250
#1	44.57538	.0679059	47.36027	.0028307	.8828187	-.019501	35.44625
#2	45.14718	.0380440	47.21874	.0028712	.7475774	-.020790	35.54891
#3	45.18376	.0528817	47.42341	.0037249	.6137210	-.015586	35.63754

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1185171**	**-3.97002**	**-.003488**	**-.038592**	**-.666428**	**.0017321**	**.0013959**
Stddev	.0286005	.04610	.000762	.000474	.008528	.0006738	.0004705
%RSD	24.13194	1.161131	21.85399	1.228877	1.279663	38.90193	33.70295
#1	.0876872	-3.92122	-.003742	-.038199	-.656694	.0020792	.0018038
#2	.1441852	-4.01283	-.002631	-.038457	-.670003	.0021617	.0015026
#3	.1236790	-3.97601	-.004090	-.039119	-.672587	.0009555	.0008812

Sample Name: LR CHECK 2 Acquired: 07/19/2023 15:59:00 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.014234**	**-.001278**	**.0016740**
Stddev	.000659	.001441	.0000852
%RSD	4.631090	112.8035	5.087081
#1	-.013616	-.002719	.0015763
#2	-.014928	.000164	.0017127
#3	-.014158	-.001278	.0017328

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1273.556**	**1653.781**	**44141.95**	**7840.462**	**1797.229**
Stddev	6.882	6.176	73.65	21.593	2.925
%RSD	.5403789	.3734676	.1668558	.2754063	.1627346
#1	1279.908	1646.894	44212.35	7861.421	1795.419
#2	1274.516	1658.828	44148.07	7841.678	1800.603
#3	1266.245	1655.622	44065.43	7818.286	1795.664

Sample Name: CCV03 Acquired: 07/19/2023 16:03:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.122895**	**5.064700**	**4.909879**	**5.092881**	**4.987875**	**9.782705**	**10.30084**
Stddev	.033509	.006843	.016066	.011393	.023904	.036694	.01225
%RSD	.6541076	.1351191	.3272253	.2237076	.4792444	.3750925	.1189063
#1	5.118357	5.064228	4.908200	5.086345	4.981310	9.787816	10.28970
#2	5.091886	5.058105	4.894719	5.086261	4.967940	9.743724	10.29885
#3	5.158442	5.071767	4.926720	5.106036	5.014376	9.816576	10.31396

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2360928**	**2.403713**	**24.04102**	**.9835330**	**2.445074**	**1.271140**	**4.784582**
Stddev	.0023221	.006311	.11325	.0029951	.008056	.006525	.014569
%RSD	.9835328	.2625575	.4710563	.3045288	.3294709	.5133343	.3045063
#1	.2377438	2.400669	23.91973	.9826256	2.443702	1.276508	4.772513
#2	.2334377	2.399500	24.05935	.9868769	2.437792	1.263877	4.800766
#3	.2370970	2.410969	24.14399	.9810965	2.453727	1.273035	4.780466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.458056**	**23.34578**	**2.448994**	**1.268155**	**24.42338**	**2.433180**	**2.505470**
Stddev	.009750	.15923	.008500	.007146	.25766	.008517	.005734
%RSD	.3966466	.6820399	.3470882	.5634578	1.054968	.3500431	.2288511
#1	2.449764	23.18868	2.444339	1.271803	24.63586	2.432655	2.512049
#2	2.455609	23.34160	2.443838	1.272740	24.13679	2.424937	2.501538
#3	2.468797	23.50705	2.458805	1.259922	24.49749	2.441947	2.502823

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.92726**	**5.309113**	**4.809990**	**4.940652**	**4.786561**	**5.029613**	**4.763462**
Stddev	.09386	.014922	.044987	.025620	.021710	.045094	.026744
%RSD	.3765504	.2810545	.9352734	.5185533	.4535583	.8965684	.5614328
#1	24.95749	5.291889	4.845710	4.930522	4.781575	5.054255	4.738982
#2	24.82200	5.318122	4.759468	4.921646	4.767778	4.977567	4.759399
#3	25.00228	5.317327	4.824794	4.969788	4.810330	5.057017	4.792004

Sample Name: CCV03 Acquired: 07/19/2023 16:03:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.935617**	**5.127008**	**4.738211**
Stddev	.025364	.006954	.039495
%RSD	.5138892	.1356419	.8335427
#1	4.943680	5.120010	4.722484
#2	4.907203	5.127098	4.709002
#3	4.955970	5.133918	4.783147

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1271.464**	**1702.468**	**42914.20**	**7607.274**	**1736.850**
Stddev	6.104	8.486	246.25	54.349	6.358
%RSD	.4801054	.4984354	.5738260	.7144311	.3660923
#1	1266.994	1698.644	42830.18	7556.016	1731.384
#2	1268.979	1712.193	42720.95	7664.260	1743.829
#3	1278.419	1696.567	43191.46	7601.546	1735.338

Sample Name: CCB03 Acquired: 07/19/2023 16:07:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001813**	**.0014900**	**-.000516**	**.0054278**	**.0011427**	**.0081205**	**-.000379**
Stddev	.000197	.0014731	.001059	.0051763	.0018457	.0024784	.000280
%RSD	10.85433	98.86929	205.1835	95.36588	161.5293	30.52055	73.78136
#1	-.001664	.0021231	.000697	.0112313	-.000173	.0063409	-.000681
#2	-.001740	-.000194	-.000989	.0012878	.003253	.0109513	-.000128
#3	-.002036	.002541	-.001257	.0037642	.000348	.0070694	-.000330

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000013**	**-.000054**	**.0093173**	**-.000001**	**.0003358**	**.0000612**	**-.001054**
Stddev	.000091	.000048	.0028396	.000229	.0000471	.0029295	.005092
%RSD	716.1767	89.19507	30.47682	37204.60	14.03837	4786.219	482.9781
#1	-.000006	-.000089	.0125522	-.000132	.0003212	-.003061	.004658
#2	-.000107	-.000073	.0072363	.000264	.0002976	.002750	-.005118
#3	.000075	.000001	.0081633	-.000134	.0003884	.000495	-.002703

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002734**	**-.004908**	**-.000133**	**.0005405**	**-.044871**	**-.000193**	**.0009370**
Stddev	.0005428	.008982	.000222	.0002872	.235619	.000540	.0004902
%RSD	198.5366	183.0073	167.1684	53.14473	525.1038	279.7782	52.31951
#1	.0001941	-.005115	-.000369	.0002495	-.279341	-.000810	.0015019
#2	.0008515	.004176	-.000101	.0008238	-.047152	.000190	.0006856
#3	-.000225	-.013785	.000072	.0005481	.191880	.000041	.0006235

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2136363**	**-.002709**	**.0047240**	**.0011928**	**-.007272**	**.0036731**	**.0028162**
Stddev	.0559295	.006209	.0011022	.0001810	.003960	.0017803	.0009595
%RSD	26.17977	229.2291	23.33284	15.17685	54.45247	48.46689	34.07255
#1	.1593604	-.009456	.0042374	.0013465	-.007757	.0022739	.0038161
#2	.2104641	.002763	.0039488	.0009933	-.003092	.0056770	.0027295
#3	.2710843	-.001432	.0059858	.0012387	-.010967	.0030685	.0019029

Sample Name: CCB03 Acquired: 07/19/2023 16:07:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000303	-.000347	.0001828
Stddev	.000941	.000373	.0000413
%RSD	310.1176	107.3024	22.59681
#1	-.000273	-.000315	.0002153
#2	.000622	-.000735	.0001967
#3	-.001259	.000008	.0001363

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1289.935	1723.902	43401.28	7607.190	1820.534
Stddev	11.447	5.023	182.73	78.522	3.092
%RSD	.8873821	.2913500	.4210344	1.032205	.1698316
#1	1276.982	1718.988	43198.91	7696.860	1817.078
#2	1294.132	1729.026	43450.74	7573.980	1823.037
#3	1298.690	1723.694	43554.19	7550.730	1821.487

Sample Name: PB154232BL Acquired: 07/19/2023 16:11:24 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154232BL Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004694**	**.0006037**	**.0000789**	**.0026505**	**-.000724**	**.0115036**	**-.000809**
Stddev	.003901	.0025823	.0007554	.0081507	.001211	.0028236	.000279
%RSD	83.09457	427.7449	957.8295	307.5188	167.4100	24.54512	34.56071
#1	-.004667	.0010893	.0008823	-.004647	-.000831	.0124065	-.000506
#2	-.000807	-.002187	-.000029	.011446	.000538	.0137652	-.001057
#3	-.008608	.002909	-.000617	.001152	-.001878	.0083390	-.000863

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000181**	**-.000101**	**.0045578**	**-.000186**	**.0000860**	**.0011588**	**-.001420**
Stddev	.0000881	.000066	.0039851	.000067	.0001637	.0013224	.008383
%RSD	488.0763	65.44904	87.43316	36.16021	190.3821	114.1161	590.2275
#1	-.000075	-.000111	.0034114	-.000111	-.000087	.0017577	.006804
#2	.000100	-.000162	.0012716	-.000240	.000105	-.000357	-.009954
#3	.000030	-.000031	.0089904	-.000206	.000239	.002076	-.001110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000245**	**-.004591**	**-.000182**	**.0004576**	**-.061573**	**-.001953**	**.0002692**
Stddev	.000414	.012708	.000493	.0003564	.066608	.000238	.0005801
%RSD	169.4515	276.8297	271.7483	77.87618	108.1770	12.21319	215.4877
#1	.000227	.007835	-.000743	.0007886	-.035236	-.001908	-.000127
#2	-.000411	-.017564	.000185	.0000804	-.012161	-.001740	.000935
#3	-.000549	-.004042	.000013	.0005039	-.137323	-.002210	-.000001

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1345946**	**-.003772**	**.0000456**	**.0005533**	**-.007978**	**-.001566**	**.0046066**
Stddev	.0715424	.001577	.0004715	.0000690	.006198	.001176	.0007965
%RSD	53.15402	41.81842	1032.785	12.46605	77.68964	75.06176	17.28991
#1	.0908155	-.005202	.0005264	.0006263	-.009766	-.000229	.0051467
#2	.2171543	-.004034	-.000416	.0004893	-.013084	-.002033	.0036919
#3	.0958140	-.002080	.000027	.0005443	-.001082	-.002436	.0049814

Sample Name: PB154232BL Acquired: 07/19/2023 16:11:24 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154232BL Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000695	-.000174	.0000077
Stddev	.000238	.000486	.0000203
%RSD	34.18796	278.3329	263.9987
#1	-.000541	-.000725	-.000007
#2	-.000576	.000191	.000031
#3	-.000969	.000011	-.000001

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1318.162	1757.031	44241.70	7731.157	1856.381
Stddev	2.670	4.368	144.12	62.989	3.268
%RSD	.2025224	.2486077	.3257594	.8147479	.1760645
#1	1320.401	1752.336	44097.39	7689.130	1852.610
#2	1315.208	1757.782	44242.06	7700.760	1858.152
#3	1318.876	1760.975	44385.63	7803.580	1858.382

Sample Name: PB154232BS Acquired: 07/19/2023 16:15:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154232BS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8373232**	**1.976979**	**.9686964**	**2.034845**	**.7744520**	**1.914562**
Stddev	.0063276	.006752	.0002750	.011050	.0033604	.035810
%RSD	.7556901	.3415063	.0283866	.5430270	.4339046	1.870416
#1	.8423127	1.983746	.9684780	2.047494	.7780634	1.873212
#2	.8302060	1.976947	.9686060	2.027072	.7714172	1.934996
#3	.8394508	1.970243	.9690052	2.029969	.7738754	1.935476

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1989816**	**.1873918**	**.1936728**	**1.021155**	**.3918268**	**.1900786**
Stddev	.0027071	.0005040	.0000848	.017661	.0009516	.0003923
%RSD	1.360473	.2689373	.0437754	1.729505	.2428545	.2063738
#1	.1959860	.1868197	.1937562	1.000802	.3924332	.1899340
#2	.1997062	.1875854	.1935867	1.032447	.3907300	.1905227
#3	.2012527	.1877702	.1936755	1.030214	.3923170	.1897792

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3092379**	**2.916199**	**.1948463**	**1.805427**	**.4783173**	**.0743314**
Stddev	.0027255	.036966	.0028586	.047379	.0011436	.0001840
%RSD	.8813679	1.267597	1.467101	2.624259	.2390797	.2475601
#1	.3069102	2.873573	.1920552	1.763074	.4794816	.0741614
#2	.3085674	2.935584	.1947159	1.856594	.4771956	.0743059
#3	.3122361	2.939440	.1977679	1.796612	.4782746	.0745268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.214471**	**.2914734**	**.2039949**	**9.639586**	**5.991406**	**.2813777**
Stddev	.012938	.0022497	.0012732	.175941	.022526	.0014659
%RSD	.4024992	.7718387	.6241431	1.825189	.3759717	.5209670
#1	3.221424	.2908171	.2050505	9.436694	5.986503	.2796937
#2	3.199543	.2896249	.2025809	9.750055	6.015980	.2823678
#3	3.222446	.2939783	.2043534	9.732008	5.971736	.2820715

Sample Name: PB154232BS Acquired: 07/19/2023 16:15:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154232BS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3916900	F -.001029	.8347972	.6588600	.1942802	.2033322
Stddev	.0007145	.005114	.0052614	.0026282	.0016104	.0021077
%RSD	.1824132	497.2124	.6302572	.3988936	.8289079	1.036555
#1	.3925124	.004006	.8287404	.6558476	.1924319	.2008988
#2	.3913350	-.006219	.8374154	.6600478	.1950276	.2045172
#3	.3912224	-.000872	.8382358	.6606845	.1953811	.2045808

Elem	Sr4077
Units	ppm
Avg	.1803469
Stddev	.0035926
%RSD	1.992068
#1	.1761994
#2	.1824945
#3	.1823469

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1295.040	1725.113	43509.35	7603.885	1827.985
Stddev	6.018	4.902	92.61	29.769	4.511
%RSD	.4647092	.2841265	.2128609	.3914981	.2467806
#1	1291.242	1719.454	43468.10	7636.966	1823.040
#2	1301.979	1727.876	43615.43	7595.433	1829.040
#3	1291.900	1728.010	43444.54	7579.256	1831.876

Sample Name: O3641-01 Acquired: 07/19/2023 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1483886**	**-.022039**	**.6115329**	**-.058999**	**.0234734**	**157.5497**	**.5407782**
Stddev	.0068703	.001279	.0039049	.006590	.0009580	1.6599	.0044895
%RSD	4.629943	5.803700	.6385446	11.16940	4.081395	1.053595	.8301896
#1	.1454160	-.020861	.6088967	-.062264	.0238662	156.2421	.5384842
#2	.1562447	-.021857	.6096831	-.063319	.0223814	156.9899	.5378992
#3	.1435052	-.023400	.6160190	-.051415	.0241726	159.4172	.5459512

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0135146**	**.0117150**	**19.39464**	**.2721565**	**.0503205**	**.1331111**	**481.6637**
Stddev	.0000740	.0003273	.12425	.0022698	.0007270	.0012896	4.2439
%RSD	.5474983	2.793558	.6406217	.8340226	1.444787	.9688007	.8810946
#1	.0134750	.0114824	19.38851	.2747243	.0494882	.1318098	478.8713
#2	.0134688	.0120892	19.27358	.2713278	.0506410	.1331348	479.5724
#3	.0135999	.0115734	19.52184	.2704175	.0508321	.1343886	486.5474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7150755**	**14.90502**	**.0978141**	**-.009949**	**1.114261**	**.4970542**	**.6262087**
Stddev	.0063969	.19551	.0010381	.000772	.044028	.0049501	.0031911
%RSD	.8945819	1.311729	1.061300	7.759328	3.951357	.9958811	.5095876
#1	.7106594	14.72226	.0978932	-.010451	1.065319	.4928135	.6284353
#2	.7121557	14.88161	.0967387	-.010336	1.126815	.4958555	.6276380
#3	.7224113	15.11118	.0988103	-.009060	1.150650	.5024935	.6225528

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.87658**	**6.482785**	**-.274233**	**.0049367**	**2.468017**	**7.917907**	**.0270936**
Stddev	.13677	.069028	.007526	.0002038	.036776	.045569	.0021777
%RSD	1.151601	1.064796	2.744216	4.129003	1.490112	.5755213	8.037619
#1	11.72262	6.436746	-.282763	.0049653	2.451200	7.929657	.0294265
#2	11.92306	6.449456	-.271405	.0051248	2.442656	7.867614	.0251145
#3	11.98404	6.562154	-.268531	.0047201	2.510195	7.956451	.0267398

Sample Name: O3641-01 Acquired: 07/19/2023 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP13 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9028221	.0362164	-.386130
Stddev	.0104683	.0004025	.003260
%RSD	1.159510	1.111308	.8442660
#1	.8962156	.0366039	-.384176
#2	.8973589	.0362449	-.384321
#3	.9148918	.0358004	-.389893

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1435.014	1907.958	48518.11	8783.675	1752.883
Stddev	7.242	14.655	130.57	54.455	16.438
%RSD	.5046454	.7680976	.2691120	.6199566	.9377613
#1	1429.655	1916.184	48369.71	8749.232	1762.375
#2	1432.134	1916.651	48615.36	8846.455	1762.372
#3	1443.252	1891.038	48569.25	8755.337	1733.902

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: O3641-11 Acquired: 07/19/2023 16:23:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0893939**	**-.013705**	**.8909382**	**-.037590**	**.0134402**	**103.3334**	**.5269439**
Stddev	.0071973	.001685	.0059977	.007901	.0017600	.5786	.0029373
%RSD	8.051191	12.29607	.6731844	21.01851	13.09485	.5599714	.5574133
#1	.0956627	-.012677	.8919912	-.044629	.0152404	102.7736	.5237490
#2	.0909848	-.015650	.8844837	-.039096	.0117234	103.2974	.5275555
#3	.0815343	-.012789	.8963395	-.029044	.0133569	103.9291	.5295272

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099311**	**.0090482**	**10.94101**	**.1797760**	**.0559850**	**.1485925**	**369.8265**
Stddev	.0000134	.0002877	.08508	.0004210	.0003643	.0015870	1.7166
%RSD	.1348841	3.179842	.7776170	.2341559	.6507800	1.068004	.4641691
#1	.0099454	.0093735	10.85318	.1802198	.0562243	.1469557	368.1132
#2	.0099290	.0089440	10.94679	.1793824	.0555657	.1501244	369.8198
#3	.0099188	.0088271	11.02305	.1797257	.0561651	.1486974	371.5464

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.458755**	**10.40278**	**.0921756**	**-.006566**	**1.108461**	**.3664781**	**.6218126**
Stddev	.011404	.03425	.0010109	.000334	.072678	.0027608	.0008304
%RSD	.7817521	.3292709	1.096751	5.088138	6.556660	.7533186	.1335431
#1	1.449149	10.36545	.0931228	-.006876	1.158558	.3633977	.6225389
#2	1.455757	10.41011	.0922928	-.006611	1.025104	.3673074	.6209073
#3	1.471358	10.43276	.0911111	-.006212	1.141720	.3687291	.6219916

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.809814**	**4.357472**	**-.199123**	**.0054909**	**1.688202**	**8.126832**	**.8430292**
Stddev	.052272	.023155	.002393	.0003151	.011704	.022141	.0091100
%RSD	.6693073	.5313874	1.201649	5.739250	.6932525	.2724462	1.080628
#1	7.794452	4.380369	-.201810	.0051445	1.700076	8.151792	.8523281
#2	7.868045	4.334067	-.198334	.0055678	1.676677	8.119146	.8341206
#3	7.766945	4.357979	-.197224	.0057605	1.687853	8.109558	.8426391

Sample Name: O3641-11 Acquired: 07/19/2023 16:23:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP14 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8608189	.0222913	-.310282
Stddev	.0034941	.0004296	.001777
%RSD	.4059062	1.927058	.5726578
#1	.8581209	.0219174	-.308424
#2	.8595699	.0227605	-.310456
#3	.8647658	.0221959	-.311965

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1426.089	1912.889	48216.43	8614.678	1797.299
Stddev	4.191	18.565	77.57	30.447	14.846
%RSD	.2938578	.9705002	.1608855	.3534312	.8260094
#1	1426.765	1896.104	48202.91	8584.128	1784.822
#2	1429.900	1932.829	48299.88	8614.884	1813.718
#3	1421.601	1909.735	48146.51	8645.021	1793.358

Sample Name: O3641-21 Acquired: 07/19/2023 16:27:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0686904**	**.0013621**	**.1693915**	**-.009501**	**.0027915**	**95.37817**	**.6462775**
Stddev	.0055583	.0027593	.0034058	.010870	.0025869	2.44888	.0146303
%RSD	8.091832	202.5805	2.010627	114.4066	92.66892	2.567552	2.263776
#1	.0722462	.0044189	.1659292	-.021591	.0030973	93.82890	.6376524
#2	.0622852	.0006122	.1695074	-.000534	.0000653	98.20143	.6631698
#3	.0715398	-.000945	.1727379	-.006379	.0052119	94.10418	.6380103

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061977**	**.0022865**	**12.94629**	**.1782244**	**.0266059**	**.3835285**	**126.9436**
Stddev	.0000885	.0000665	.30157	.0012066	.0002885	.0079114	3.2972
%RSD	1.428127	2.908404	2.329396	.6770031	1.084231	2.062794	2.597357
#1	.0062221	.0023093	12.80196	.1768820	.0269388	.3772064	124.8656
#2	.0062714	.0023387	13.29291	.1792186	.0264285	.3924003	130.7454
#3	.0060995	.0022117	12.74402	.1785727	.0264505	.3809787	125.2198

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4837899**	**9.863629**	**.0424271**	**-.002421**	**.6462984**	**.2961170**	**.2184589**
Stddev	.0112429	.282411	.0002700	.000277	.0926256	.0051593	.0005685
%RSD	2.323913	2.863159	.6364576	11.42535	14.33170	1.742309	.2602318
#1	.4780393	9.684759	.0427353	-.002490	.6578759	.2932493	.2190650
#2	.4967449	10.18920	.0423145	-.002116	.7325910	.3020731	.2179375
#3	.4765855	9.71693	.0422317	-.002656	.5484284	.2930287	.2183742

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.71074**	**1.255151**	**-.059155**	**.0009891**	**.9065093**	**2.394060**	**.0090869**
Stddev	.22818	.006707	.001179	.0004304	.0022516	.055368	.0009941
%RSD	2.130400	.5343533	1.992618	43.51315	.2483862	2.312722	10.94012
#1	10.58919	1.255395	-.058493	.0014087	.9060066	2.371314	.0097855
#2	10.97396	1.261733	-.060516	.0010100	.9089698	2.457178	.0079488
#3	10.56905	1.248326	-.058455	.0005486	.9045515	2.353687	.0095265

Sample Name: O3641-21 Acquired: 07/19/2023 16:27:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP16 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4263076	.0318112	-.023766
Stddev	.0126544	.0006240	.000534
%RSD	2.968368	1.961580	2.248435
#1	.4191988	.0325317	-.024035
#2	.4409179	.0314599	-.024112
#3	.4188061	.0314421	-.023150

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1490.459	1990.775	49962.81	8859.906	1799.869
Stddev	3.069	3.121	23.37	187.748	.464
%RSD	.2059387	.1567624	.0467723	2.119075	.0257760
#1	1491.431	1993.944	49940.71	8922.768	1799.333
#2	1492.926	1990.675	49987.27	8648.793	1800.150
#3	1487.022	1987.705	49960.44	9008.157	1800.123

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: O3641-31 Acquired: 07/19/2023 16:31:15 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1714836**	**.0022606**	**.4146678**	**-.035614**	**.0102543**	**98.08482**	**.5068637**
Stddev	.0030717	.0029430	.0026944	.003931	.0008726	.51991	.0025193
%RSD	1.791241	130.1850	.6497822	11.03747	8.510105	.5300593	.4970338
#1	.1748463	-.000320	.4123433	-.031629	.0102350	97.71628	.5045716
#2	.1688252	.001635	.4140390	-.035724	.0111365	97.85868	.5064583
#3	.1707793	.005466	.4176210	-.039489	.0093915	98.67950	.5095610

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0127198**	**.0084812**	**11.59170**	**.3865458**	**.0435540**	**.1064796**	**300.7293**
Stddev	.0001975	.0000859	.04457	.0018425	.0004252	.0021500	1.3544
%RSD	1.552912	1.012470	.3844654	.4766506	.9762115	2.019163	.4503805
#1	.0128899	.0085792	11.54472	.3885504	.0435521	.1039971	299.4532
#2	.0127664	.0084452	11.59699	.3861606	.0439801	.1077008	300.5844
#3	.0125032	.0084192	11.63338	.3849263	.0431298	.1077408	302.1504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6949224**	**9.826948**	**.0760203**	**-.006257**	**.7423408**	**.7356663**	**.5499725**
Stddev	.0037411	.022086	.0007319	.000364	.0661946	.0051317	.0012096
%RSD	.5383421	.2247489	.9627441	5.819082	8.917006	.6975582	.2199324
#1	.6948397	9.837870	.0756315	-.006275	.7157990	.7341480	.5486587
#2	.6912234	9.801529	.0755649	-.006611	.6935363	.7314651	.5502190
#3	.6987041	9.841445	.0768645	-.005884	.8176873	.7413859	.5510399

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.335303**	**3.811420**	**-.161884**	**.0010854**	**.8907694**	**8.148803**	**.0395431**
Stddev	.081345	.003317	.004332	.0006017	.0064360	.045690	.0023274
%RSD	.8713680	.0870345	2.675972	55.44056	.7225180	.5607001	5.885695
#1	9.256030	3.813922	-.166876	.0015869	.8833428	8.200871	.0410065
#2	9.331306	3.807658	-.159104	.0004182	.8947183	8.115400	.0407636
#3	9.418573	3.812681	-.159673	.0012511	.8942471	8.130139	.0368594

Sample Name: O3641-31 Acquired: 07/19/2023 16:31:15 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP15 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7366816	.0119483	-.224702
Stddev	.0038604	.0006283	.001165
%RSD	.5240212	5.258427	.5184187
#1	.7328699	.0123879	-.223749
#2	.7365861	.0122284	-.224357
#3	.7405889	.0112287	-.226000

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1457.659	1948.859	49297.47	8828.539	1767.139
Stddev	4.828	4.348	150.53	46.968	4.857
%RSD	.3312477	.2231283	.3053408	.5320010	.2748345
#1	1461.683	1952.206	49207.03	8782.114	1768.734
#2	1458.990	1943.944	49471.24	8876.032	1761.685
#3	1452.305	1950.427	49214.15	8827.470	1770.997

Sample Name: O3645-01 Acquired: 07/19/2023 16:35:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-02-(3-5) Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0223233**	**.0017743**	**.8789934**	**-.010227**	**.0040919**	**81.06348**	**.5667395**
Stddev	.0133582	.0034002	.0135691	.003554	.0020318	.60950	.0039762
%RSD	59.83960	191.6360	1.543705	34.75053	49.65229	.7518783	.7015828
#1	.0338667	-.001831	.8869598	-.012531	.0046369	80.54752	.5630935
#2	.0076914	.002231	.8633259	-.006134	.0057957	80.90695	.5661460
#3	.0254120	.004923	.8866945	-.012015	.0018433	81.73598	.5709791

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048924**	**.0307012**	**1571.299**	**.0921376**	**.0894549**	**.2477705**	**153.8998**
Stddev	.0000520	.0001733	18.483	.0004232	.0004550	.0027875	.5945
%RSD	1.063709	.5645893	1.176263	.4592587	.5085979	1.125024	.3862700
#1	.0049510	.0308626	1550.130	.0926006	.0889317	.2450842	153.4978
#2	.0048516	.0305180	1579.536	.0917710	.0897578	.2475782	153.6190
#3	.0048745	.0307229	1584.231	.0920410	.0896751	.2506492	154.5827

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.453959**	**774.4490**	**.1871323**	**-.004480**	**1.919394**	**.1818278**	**6.111251**
Stddev	.044806	3.8206	.0007215	.000345	.057919	.0012888	.033009
%RSD	.5299962	.4933369	.3855414	7.694605	3.017590	.7088214	.5401402
#1	8.405038	770.8202	.1878757	-.004142	1.864857	.1823986	6.142469
#2	8.463837	774.0906	.1870864	-.004831	1.913137	.1803521	6.114582
#3	8.493001	778.4362	.1864349	-.004468	1.980188	.1827326	6.076703

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.58298**	**8.955488**	**-.057683**	**.0006894**	**2.150047**	**8.431374**	**.0020964**
Stddev	.08329	.022946	.002259	.0003341	.023987	.021792	.0014131
%RSD	.6132064	.2562261	3.915755	48.46379	1.115664	.2584581	67.40542
#1	13.49488	8.976986	-.055656	.0003462	2.167491	8.407127	.0034386
#2	13.59364	8.958152	-.057274	.0007082	2.159958	8.437672	.0022288
#3	13.66044	8.931326	-.060118	.0010136	2.122692	8.449324	.0006218

Sample Name: O3645-01 Acquired: 07/19/2023 16:35:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-02-(3-5) Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.106083	.1393226	.7530247
Stddev	.007926	.0013510	.0049411
%RSD	.7165803	.9696869	.6561655
#1	1.101490	.1379073	.7500294
#2	1.101524	.1405985	.7503169
#3	1.115235	.1394620	.7587278

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1238.393	1660.901	43205.17	8183.461	1289.139
Stddev	3.251	5.227	103.93	39.474	2.471
%RSD	.2625192	.3147345	.2405596	.4823646	.1916429
#1	1235.331	1655.209	43315.25	8225.344	1286.661
#2	1238.043	1662.008	43191.51	8146.945	1291.602
#3	1241.805	1665.487	43108.73	8178.093	1289.155

Sample Name: O3645-02 Acquired: 07/19/2023 16:39:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-04-(1-5) Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255460**	**-.002416**	**1.880520**	**-.022261**	**.0085766**	**88.33592**
Stddev	.0041583	.002710	.005684	.003737	.0015837	.67967
%RSD	16.27788	112.1675	.3022633	16.78711	18.46501	.7694155
#1	.0216886	-.005404	1.873962	-.025284	.0067545	89.12063
#2	.0299510	-.000116	1.883569	-.018083	.0093532	87.93261
#3	.0249983	-.001729	1.884029	-.023418	.0096220	87.95451

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6176742**	**.0052225**	**.0402434**	F **2205.141**	**.0942714**	**.1028751**
Stddev	.0058910	.0001381	.0003428	16.669	.0020285	.0003338
%RSD	.9537328	2.643699	.8517878	.7558931	2.151758	.3244769
#1	.6244702	.0053796	.0401721	2220.284	.0919362	.1024960
#2	.6140215	.0051675	.0399419	2207.857	.0952816	.1031250
#3	.6145311	.0051204	.0406162	2187.281	.0955964	.1030043

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3477548**	**173.6462**	**10.77077**	**1075.257**	**.2130265**	**-.005069**
Stddev	.0026799	.9831	.08365	7.618	.0014470	.000557
%RSD	.7706308	.5661452	.7766377	.7084451	.6792623	10.99559
#1	.3502307	174.7805	10.86696	1084.053	.2114717	-.004955
#2	.3481243	173.0402	10.71502	1070.832	.2143339	-.004578
#3	.3449093	173.1178	10.73035	1070.886	.2132738	-.005675

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.350989**	**.2011581**	**7.003478**	**12.82986**	F **11.69378**	**-.071058**
Stddev	.042078	.0016300	.101713	.20998	.02940	.001463
%RSD	1.789780	.8103034	1.452317	1.636684	.2514330	2.059074
#1	2.397485	.2012355	6.908148	13.07149	11.65987	-.072524
#2	2.315529	.2027479	6.991733	12.72646	11.70936	-.071054
#3	2.339953	.1994907	7.110554	12.69163	11.71213	-.069597

Sample Name: O3645-02 Acquired: 07/19/2023 16:39:18 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-04-(1-5) Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015309	3.569799	6.244813	.0033796	1.222112	.1601780
Stddev	.0003345	.046874	.074867	.0029694	.008605	.0009648
%RSD	21.84869	1.313070	1.198874	87.86217	.7041405	.6023316
#1	.0017093	3.543807	6.330491	.0067113	1.232029	.1612920
#2	.0011451	3.541680	6.191999	.0024153	1.217690	.1596281
#3	.0017384	3.623911	6.211948	.0010122	1.216616	.1596138

Elem	Sr4077
Units	ppm
Avg	1.004235
Stddev	.010090
%RSD	1.004704
#1	1.015880
#2	.998089
#3	.998736

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1256.013	1675.321	44076.83	8274.392	1220.569
Stddev	18.417	4.834	452.40	100.888	3.387
%RSD	1.466327	.2885285	1.026396	1.219285	.2774643
#1	1275.428	1675.453	44591.33	8157.957	1221.465
#2	1253.819	1680.087	43897.94	8329.359	1223.418
#3	1238.790	1670.422	43741.23	8335.861	1216.824

Sample Name: O3645-02DUP Acquired: 07/19/2023 16:43:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUPDUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217040**	**.0013475**	**1.878110**	**-.024818**	**.0085572**	**86.20938**
Stddev	.0039706	.0037251	.003959	.004984	.0038578	.47845
%RSD	18.29437	276.4552	.2108081	20.08066	45.08270	.5549864
#1	.0256804	.0055393	1.882564	-.027166	.0084414	86.46600
#2	.0216923	-.001584	1.874991	-.019094	.0124715	86.50478
#3	.0177393	.000087	1.876775	-.028194	.0047585	85.65737

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6031066**	**.0050848**	**.0402013**	F **2152.060**	**.0948524**	**.1032835**
Stddev	.0046127	.0000378	.0000998	21.310	.0006173	.0003759
%RSD	.7648312	.7430634	.2483213	.9902208	.6508211	.3639542
#1	.6073496	.0050412	.0401523	2139.191	.0945864	.1029841
#2	.6037737	.0051053	.0401354	2176.658	.0944127	.1037054
#3	.5981967	.0051079	.0403161	2140.331	.0955581	.1031611

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3386314**	**169.8810**	**10.48168**	**1050.595**	**.2128637**	**-.005369**
Stddev	.0023960	.7034	.06452	4.086	.0003124	.000368
%RSD	.7075588	.4140735	.6155679	.3888795	.1467673	6.858321
#1	.3363124	170.5108	10.53520	1054.674	.2130697	-.005712
#2	.3410976	170.0103	10.49982	1050.608	.2130171	-.004980
#3	.3384843	169.1219	10.41003	1046.503	.2125042	-.005414

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.434094**	**.1913423**	**7.063800**	**12.53990**	F **11.69140**	**-.069403**
Stddev	.108795	.0035703	.019710	.07523	.04009	.002633
%RSD	4.469649	1.865919	.2790232	.5999575	.3428695	3.793601
#1	2.473873	.1935243	7.058101	12.61345	11.67904	-.066732
#2	2.311008	.1932806	7.047568	12.54316	11.65895	-.071996
#3	2.517402	.1872221	7.085731	12.46309	11.73621	-.069482

Sample Name: O3645-02DUP Acquired: 07/19/2023 16:43:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUPDUP Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016707	3.580860	6.942445	.0012095	1.200081	.1561243
Stddev	.0002331	.016453	.057964	.0008020	.006810	.0026787
%RSD	13.95068	.4594825	.8349195	66.30389	.5674225	1.715764
#1	.0016834	3.566009	6.935007	.0015006	1.201831	.1568319
#2	.0018973	3.598547	7.003769	.0003027	1.205845	.1583783
#3	.0014316	3.578025	6.888559	.0018253	1.192568	.1531629

Elem	Sr4077
Units	ppm
Avg	.9782904
Stddev	.0048430
%RSD	.4950434
#1	.9828659
#2	.9787870
#3	.9732182

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1244.022	1681.257	43879.72	8453.916	1222.901
Stddev	5.802	5.413	209.29	66.514	3.200
%RSD	.4664008	.3219721	.4769723	.7867804	.2616906
#1	1238.768	1676.549	43699.52	8406.588	1220.502
#2	1250.249	1687.172	44109.28	8425.195	1226.535
#3	1243.050	1680.051	43830.36	8529.964	1221.667

Sample Name: O3645-02LX5 Acquired: 07/19/2023 16:47:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087508**	**.0019668**	**.3826399**	**.0014724**	**.0008420**	**19.94150**	**.1437994**
Stddev	.0065405	.0032077	.0130317	.0053414	.0013758	.12963	.0005751
%RSD	74.74131	163.0873	3.405745	362.7664	163.3932	.6500710	.3999300
#1	.0084364	.0018823	.3781835	-.004629	-.000178	19.80359	.1431557
#2	.0023732	-.001198	.3973152	.005303	.000297	19.96005	.1439800
#3	.0154429	.005216	.3724208	.003744	.002407	20.06086	.1442625

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012532**	**.0077320**	**537.2227**	**.0244906**	**.0186527**	**.0798521**	**42.93173**
Stddev	.0000406	.0003130	4.6080	.0006659	.0003871	.0007007	.50087
%RSD	3.243674	4.047945	.8577472	2.719118	2.075023	.8775046	1.166660
#1	.0012898	.0076616	532.2156	.0237247	.0183128	.0794617	42.43477
#2	.0012095	.0080742	538.1674	.0249322	.0190740	.0794335	42.92402
#3	.0012604	.0074602	541.2852	.0248150	.0185715	.0806610	43.43641

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.641889**	**247.0769**	**.0431703**	**-.000063**	**.5822420**	**.0475859**	**1.702109**
Stddev	.026080	3.1085	.0014284	.000217	.2445121	.0004806	.003189
%RSD	.9871724	1.258094	3.308710	345.2029	41.99493	1.009890	.1873534
#1	2.613605	243.9286	.0428983	-.000309	.7237693	.0470367	1.699888
#2	2.647078	247.1580	.0447152	.000023	.7230527	.0477914	1.705763
#3	2.664984	250.1440	.0418975	.000098	.2999040	.0479294	1.700676

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.784953**	**2.145476**	**-.013402**	**.0000161**	**.6108705**	**2.097525**	**-.003306**
Stddev	.049734	.066909	.000708	.0002065	.0184480	.028279	.000974
%RSD	1.785814	3.118614	5.284133	1281.905	3.019958	1.348208	29.44744
#1	2.727556	2.119939	-.013614	.0002372	.6161305	2.064897	-.003405
#2	2.812025	2.221392	-.012612	-.000172	.6261173	2.114958	-.004226
#3	2.815279	2.095095	-.013980	-.000017	.5903637	2.112720	-.002286

Sample Name: O3645-02LX5 Acquired: 07/19/2023 16:47:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12192 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2989865	.0330591	.2285876
Stddev	.0015555	.0005908	.0009040
%RSD	.5202469	1.787012	.3954683
#1	.2982675	.0327777	.2278374
#2	.3007714	.0337380	.2283341
#3	.2979207	.0326617	.2295912

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1196.407	1610.694	41288.61	7493.865	1495.985
Stddev	1.977	42.669	44.88	30.096	41.272
%RSD	.1652646	2.649076	.1086909	.4016057	2.758855
#1	1198.377	1613.598	41259.79	7502.623	1502.853
#2	1196.421	1566.648	41340.31	7518.610	1451.710
#3	1194.422	1651.836	41265.72	7460.362	1533.392

Sample Name: CCV04 Acquired: 07/19/2023 16:51:24 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20744 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.162928**	**5.100720**	**4.931325**	**5.141606**	**5.014370**	**9.809975**	**10.29875**
Stddev	.031149	.037649	.041689	.025701	.036033	.035023	.04113
%RSD	.6033222	.7381106	.8453854	.4998626	.7185988	.3570139	.3993971
#1	5.127463	5.057254	4.884268	5.112760	4.972879	9.790458	10.31627
#2	5.175472	5.121759	4.946070	5.149988	5.032430	9.789059	10.32822
#3	5.185850	5.123146	4.963637	5.162068	5.037803	9.850408	10.25176

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2364250**	**2.417366**	**24.06752**	**.9892240**	**2.457752**	**1.274582**	**4.778413**
Stddev	.0007979	.020443	.07676	.0060070	.018218	.006771	.007538
%RSD	.3374638	.8456866	.3189357	.6072445	.7412494	.5312698	.1577611
#1	.2357855	2.394696	23.98083	.9830840	2.438928	1.268532	4.774052
#2	.2361705	2.423003	24.09487	.9894995	2.459029	1.273317	4.774069
#3	.2373191	2.434400	24.12686	.9950885	2.475297	1.281896	4.787118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.463995**	**23.28223**	**2.462345**	**1.267920**	**24.56890**	**2.445032**	**2.522127**
Stddev	.019544	.15607	.017313	.004914	.27882	.018641	.005446
%RSD	.7931793	.6703494	.7031105	.3875945	1.134837	.7624029	.2159133
#1	2.441994	23.17080	2.443452	1.272878	24.53130	2.427108	2.517923
#2	2.470644	23.21528	2.466133	1.267832	24.31079	2.443672	2.528279
#3	2.479346	23.46061	2.477451	1.263050	24.86461	2.464315	2.520179

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.01662**	**5.372896**	**4.824754**	**4.959274**	**4.799525**	**4.995067**	**4.771498**
Stddev	.03937	.062068	.018166	.035893	.023058	.028270	.033041
%RSD	.1573667	1.155211	.3765184	.7237466	.4804281	.5659533	.6924664
#1	25.00915	5.301470	4.804687	4.917833	4.773981	4.973160	4.736058
#2	24.98152	5.403493	4.829497	4.980474	4.818801	4.985062	4.776981
#3	25.05919	5.413726	4.840078	4.979516	4.805795	5.026979	4.801454

Sample Name: CCV04 Acquired: 07/19/2023 16:51:24 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20744 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.945524**	**5.128782**	**4.660191**
Stddev	.033515	.005452	.048361
%RSD	.6776928	.1063090	1.037746
#1	4.927982	5.124415	4.605304
#2	4.924421	5.127038	4.678727
#3	4.984170	5.134893	4.696542

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1257.991**	**1679.313**	**42574.52**	**7538.331**	**1709.497**
Stddev	7.648	10.647	281.34	15.641	11.139
%RSD	.6079848	.6340218	.6608146	.2074913	.6515786
#1	1252.889	1691.238	42258.14	7520.609	1722.335
#2	1254.298	1670.760	42668.83	7550.210	1703.749
#3	1266.785	1675.941	42796.59	7544.174	1702.406

Sample Name: CCB04 Acquired: 07/19/2023 16:55:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20744 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003550**	**.0026189**	**.0002710**	**.0023658**	**-.000399**	**.0151768**	**-.001054**
Stddev	.001643	.0026519	.0021865	.0033276	.000519	.0069460	.000297
%RSD	46.30088	101.2581	806.9203	140.6544	129.9726	45.76729	28.17955
#1	-.004701	-.000343	.0005987	-.000325	-.000431	.0082746	-.000720
#2	-.004280	.003426	.0022752	.006087	.000135	.0221658	-.001288
#3	-.001667	.004774	-.002061	.001336	-.000901	.0150900	-.001156

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000134**	**-.000088**	**.0211142**	**-.000260**	**.0001374**	**.0003363**	**-.002426**
Stddev	.0000115	.000034	.0077018	.000321	.0003557	.0004687	.006521
%RSD	85.69469	38.76074	36.47684	123.3942	258.8674	139.3844	268.8222
#1	.0000165	-.000116	.0226986	-.000626	.0005415	.0003220	.000525
#2	.0000229	-.000050	.0279005	-.000132	-.000001	.0008119	-.009901
#3	.0000007	-.000099	.0127434	-.000023	-.000128	-.000125	.002098

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000350**	**-.000927**	**.0001623**	**.0007584**	**.0636941**	**.0002824**	**.0001408**
Stddev	.000358	.013733	.0002382	.0001263	.1010115	.0018806	.0003650
%RSD	102.2839	1481.259	146.7638	16.65942	158.5885	665.8941	259.2197
#1	-.000226	-.012509	.0002907	.0006192	-.041532	-.001856	.0002009
#2	-.000071	.014244	-.000113	.0007902	.072730	.001023	.0004721
#3	-.000753	-.004516	.000309	.0008658	.159884	.001680	-.000251

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006013**	**.0004371**	**.0043089**	**.0016890**	**-.008475**	**.0014080**	**.0023175**
Stddev	.040003	.0033302	.0009878	.0003604	.002751	.0022457	.0007611
%RSD	665.2826	761.9322	22.92454	21.33638	32.46122	159.4984	32.84002
#1	.036171	-.000486	.0045033	.0018140	-.008250	.0039950	.0031490
#2	-.010808	-.002334	.0032384	.0019703	-.005843	-.000040	.0021483
#3	-.043402	.004131	.0051851	.0012828	-.011332	.000269	.0016553

Sample Name: CCB04 Acquired: 07/19/2023 16:55:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20744 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000484	-.000883	.0001750
Stddev	.000791	.001153	.0000928
%RSD	163.5129	130.6250	53.04426
#1	-.001105	.000333	.0002781
#2	.000407	-.001960	.0001489
#3	-.000753	-.001022	.0000980

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1275.322	1714.798	43174.34	7560.493	1813.242
Stddev	5.908	.632	85.42	13.875	1.647
%RSD	.4632546	.0368358	.1978566	.1835208	.0908108
#1	1272.319	1715.488	43137.06	7560.060	1811.352
#2	1282.128	1714.248	43272.07	7546.840	1814.368
#3	1271.518	1714.658	43113.89	7574.580	1814.005

Sample Name: O3645-09 Acquired: 07/19/2023 16:59:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: O3645-02MS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7636972**	**1.917550**	**2.895409**	**1.604886**	**.6708916**	**88.49797**
Stddev	.0083872	.025542	.027029	.014693	.0057375	.37491
%RSD	1.098230	1.332007	.9335024	.9154954	.8552065	.4236348
#1	.7623766	1.946885	2.926522	1.614500	.6703904	88.07751
#2	.7560488	1.905524	2.877726	1.587973	.6654211	88.61894
#3	.7726664	1.900241	2.881978	1.612184	.6768633	88.79746

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7723642**	**.1520235**	**.2310830**	F **2166.070**	**.3795651**	**.2964664**
Stddev	.0029147	.0005494	.0019277	21.971	.0014985	.0029331
%RSD	.3773753	.3613798	.8341877	1.014346	.3947920	.9893701
#1	.7699525	.1517872	.2332877	2148.748	.3785799	.2997805
#2	.7715371	.1516317	.2297152	2158.678	.3812896	.2954142
#3	.7756031	.1526515	.2302462	2190.784	.3788259	.2942044

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5858907**	**172.3025**	**10.70207**	**1053.371**	**.6810074**	**.0617821**
Stddev	.0024534	.7446	.03888	4.051	.0059100	.0007163
%RSD	.4187387	.4321648	.3633393	.3845952	.8678267	1.159355
#1	.5841444	171.5497	10.66242	1048.846	.6872188	.0620190
#2	.5886956	172.3190	10.70364	1054.602	.6754540	.0609774
#3	.5848321	173.0387	10.74014	1056.663	.6803493	.0623499

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.879890**	**.4299718**	**7.202017**	**21.72386**	F **19.33674**	**.1413482**
Stddev	.080350	.0047951	.041569	.13450	.17978	.0017051
%RSD	1.646562	1.115212	.5771888	.6191518	.9297253	1.206333
#1	4.942880	.4293434	7.240057	21.66224	19.54361	.1393811
#2	4.789400	.4255219	7.208349	21.63120	19.24819	.1422596
#3	4.907391	.4350501	7.157646	21.87813	19.21840	.1424040

Sample Name: O3645-09 Acquired: 07/19/2023 16:59:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: O3645-02MS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3119212	3.551713	8.863149	.6960468	1.375783	.3432103
Stddev	.0007390	.018909	.022399	.0045330	.006706	.0017790
%RSD	.2369204	.5323905	.2527186	.6512554	.4874296	.5183543
#1	.3127268	3.555629	8.859106	.6957046	1.368515	.3412926
#2	.3112747	3.568358	8.843046	.7007413	1.381730	.3435315
#3	.3117619	3.531153	8.887293	.6916946	1.377103	.3448069

Elem	Sr4077
Units	ppm
Avg	1.125340
Stddev	.004096
%RSD	.3639435
#1	1.120611
#2	1.127681
#3	1.127728

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1231.664	1654.400	43415.20	8322.635	1201.872
Stddev	9.648	7.899	103.67	25.222	9.787
%RSD	.7832961	.4774700	.2387960	.3030528	.8143064
#1	1221.273	1647.328	43367.35	8309.387	1191.286
#2	1233.383	1662.924	43534.16	8351.720	1210.591
#3	1240.337	1652.947	43344.09	8306.797	1203.739

Sample Name: O3645-10 Acquired: 07/19/2023 17:03:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: O3645-02MSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7517497**	**1.802769**	**2.937399**	**1.596152**	**.5860654**	**79.08718**
Stddev	.0149596	.010521	.021283	.012029	.0049903	.40298
%RSD	1.989964	.5835856	.7245653	.7536347	.8514873	.5095335
#1	.7669107	1.798234	2.930416	1.609955	.5862956	78.64669
#2	.7370001	1.795277	2.920484	1.590598	.5809640	79.43729
#3	.7513383	1.814797	2.961296	1.587903	.5909366	79.17757

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8916127**	**.1504748**	**.2278424**	F **2187.350**	**.3734319**	**.2739417**
Stddev	.0037155	.0006102	.0003173	18.178	.0024314	.0007287
%RSD	.4167203	.4055217	.1392684	.8310616	.6510917	.2660001
#1	.8873523	.1497813	.2280816	2171.538	.3734223	.2739121
#2	.8933047	.1507136	.2274824	2183.302	.3758681	.2732282
#3	.8941811	.1509295	.2279631	2207.211	.3710054	.2746847

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7514834**	**164.9739**	**10.95546**	**1094.291**	**.6455835**	**.0618673**
Stddev	.0070338	.9988	.07465	6.932	.0032985	.0004095
%RSD	.9359892	.6054148	.6813567	.6334504	.5109368	.6619068
#1	.7449964	163.9317	10.86988	1087.560	.6452026	.0615684
#2	.7504945	165.0672	10.98939	1093.906	.6424920	.0623341
#3	.7589593	165.9227	11.00712	1101.408	.6490560	.0616995

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.785824**	**.4064257**	**6.612364**	**20.17083**	F **17.05252**	**.1395616**
Stddev	.294015	.0028320	.007616	.17612	.07034	.0042300
%RSD	6.143459	.6968077	.1151774	.8731557	.4124788	3.030921
#1	4.546189	.4062806	6.607327	20.03697	17.05468	.1394030
#2	4.697372	.4036690	6.608639	20.37035	16.98112	.1354132
#3	5.113911	.4093274	6.621126	20.10518	17.12175	.1438687

Sample Name: O3645-10 Acquired: 07/19/2023 17:03:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: O3645-02MSD Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3111940	3.710832	9.047272	.7111090	1.207660	.3261730
Stddev	.0006525	.031493	.061503	.0061615	.003166	.0008046
%RSD	.2096880	.8486756	.6798007	.8664623	.2621332	.2466932
#1	.3119399	3.675671	8.976546	.7051425	1.209174	.3255025
#2	.3109131	3.720378	9.088206	.7107358	1.204022	.3259513
#3	.3107289	3.736448	9.077063	.7174486	1.209785	.3270653

Elem	Sr4077
Units	ppm
Avg	1.127724
Stddev	.004389
%RSD	.3891500
#1	1.127299
#2	1.132310
#3	1.123563

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1200.891	1611.610	42020.05	8053.367	1200.861
Stddev	3.141	2.129	166.02	10.480	3.118
%RSD	.2615437	.1320875	.3950980	.1301267	.2596308
#1	1197.728	1613.805	41834.49	8064.595	1201.323
#2	1204.009	1611.470	42071.14	8051.658	1203.722
#3	1200.935	1609.554	42154.52	8043.846	1197.538

Sample Name: O3645-02A Acquired: 07/19/2023 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7265441**	**1.749785**	**2.580045**	**1.543611**	**.5850924**	**79.30198**
Stddev	.0118394	.001325	.016268	.012131	.0059538	.33683
%RSD	1.629556	.0757491	.6305138	.7859058	1.017577	.4247423
#1	.7278244	1.751266	2.561440	1.530087	.5890500	79.44741
#2	.7141166	1.748710	2.591592	1.547213	.5782453	79.54167
#3	.7376914	1.749379	2.587102	1.553533	.5879820	78.91687

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7472452**	**.1469797**	**.2171154**	F **2295.304**	**.3633600**	**.2696778**
Stddev	.0100017	.0005506	.0005994	23.248	.0020042	.0018108
%RSD	1.338479	.3746119	.2760562	1.012853	.5515594	.6714707
#1	.7365703	.1475044	.2166847	2285.986	.3611119	.2686250
#2	.7487658	.1470283	.2168615	2321.766	.3649596	.2686397
#3	.7563996	.1464064	.2177999	2278.161	.3640084	.2717687

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5965229**	**156.1007**	**10.59196**	**1128.281**	**.6284710**	**.0596810**
Stddev	.0049774	.3949	.01551	8.827	.0025643	.0000679
%RSD	.8344044	.2529622	.1464292	.7823821	.4080172	.1137599
#1	.5911705	156.2508	10.59879	1136.005	.6260186	.0596280
#2	.5973855	156.3984	10.60288	1130.179	.6282602	.0597575
#3	.6010126	155.6528	10.57421	1118.659	.6311341	.0596575

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.092727**	**.4057477**	**6.519330**	**20.20543**	F **16.78465**	**.1462740**
Stddev	.084637	.0013046	.014384	.13748	.03153	.0004560
%RSD	1.661917	.3215208	.2206385	.6804041	.1878231	.3117420
#1	4.995363	.4065745	6.514107	20.32519	16.81111	.1460907
#2	5.148732	.4042438	6.508287	20.23580	16.74977	.1459381
#3	5.134086	.4064248	6.535596	20.05531	16.79305	.1467931

Sample Name: O3645-02A Acquired: 07/19/2023 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12192 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3085059	3.573257	9.423846	.6968761	1.245932	.3273102
Stddev	.0004054	.018603	.109811	.0078077	.012331	.0001138
%RSD	.1314175	.5206144	1.165251	1.120380	.9897097	.0347756
#1	.3089710	3.575617	9.519018	.6890858	1.251109	.3273489
#2	.3082272	3.553587	9.448822	.7047011	1.254830	.3273996
#3	.3083195	3.590567	9.303698	.6968415	1.231856	.3271821

Elem	Sr4077
Units	ppm
Avg	1.252337
Stddev	.018258
%RSD	1.457926
#1	1.268094
#2	1.256590
#3	1.232328

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1201.359	1604.102	42152.99	8095.313	1200.619
Stddev	5.994	5.280	190.32	57.487	.983
%RSD	.4988959	.3291529	.4514994	.7101320	.0819035
#1	1195.751	1598.444	41938.34	8029.540	1200.417
#2	1207.675	1608.898	42301.13	8120.440	1199.753
#3	1200.650	1604.965	42219.50	8135.960	1201.688

Sample Name: O3645-03 Acquired: 07/19/2023 17:11:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-07-(1-3) Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0280322**	**-.012346**	**.4851706**	**-.024858**	**.0086753**	**203.1947**
Stddev	.0056789	.002337	.0017169	.004626	.0018501	.9360
%RSD	20.25850	18.92623	.3538689	18.60805	21.32609	.4606551
#1	.0215946	-.011067	.4848979	-.021106	.0091754	202.1523
#2	.0323317	-.010928	.4836065	-.023441	.0066266	203.9632
#3	.0301702	-.015043	.4870076	-.030026	.0102240	203.4685

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.668846**	**.0132940**	**.0315365**	**63.91441**	**.2734654**	**.2177780**
Stddev	.004081	.0000682	.0001482	.14266	.0007468	.0001789
%RSD	.2445207	.5128508	.4698245	.2231990	.2730775	.0821461
#1	1.665437	.0133623	.0315459	63.74986	.2739553	.2179845
#2	1.673368	.0132259	.0313838	64.00330	.2726059	.2176798
#3	1.667735	.0132938	.0316797	63.99007	.2738350	.2176697

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2175846**	**303.8759**	**4.647287**	**61.69100**	**.3920744**	**-.004429**
Stddev	.0013152	.9423	.016532	.21169	.0019105	.000546
%RSD	.6044385	.3100955	.3557410	.3431382	.4872868	12.32642
#1	.2191020	302.7891	4.628228	61.44678	.3942189	-.004971
#2	.2168790	304.4641	4.655878	61.82210	.3905540	-.004439
#3	.2167729	304.3747	4.657755	61.80410	.3914502	-.003879

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.296411**	**.3658983**	**6.871708**	**13.48848**	F **14.16161**	**-.163963**
Stddev	.068732	.0041781	.047976	.04799	.03686	.003838
%RSD	5.301719	1.141873	.6981676	.3557736	.2603148	2.340739
#1	1.220057	.3624963	6.924653	13.48694	14.20191	-.164497
#2	1.353341	.3705618	6.831118	13.44129	14.15333	-.159886
#3	1.315835	.3646368	6.859352	13.53722	14.12959	-.167506

Sample Name: O3645-03 Acquired: 07/19/2023 17:11:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-07-(1-3) Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045934	3.577432	5.252878	.0108328	.4417676	.2033677
Stddev	.0005997	.016766	.010275	.0019105	.0007995	.0006426
%RSD	13.05585	.4686575	.1956033	17.63614	.1809842	.3159866
#1	.0039448	3.595359	5.263008	.0096731	.4417306	.2036138
#2	.0051277	3.562140	5.242464	.0097876	.4425850	.2026384
#3	.0047077	3.574797	5.253162	.0130379	.4409872	.2038509

Elem	Sr4077
Units	ppm
Avg	-.103977
Stddev	.000487
%RSD	.4680955
#1	-.104053
#2	-.103457
#3	-.104421

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1657.462	2213.546	56314.07	10124.71	1675.468
Stddev	9.673	4.968	175.71	35.06	.492
%RSD	.5835911	.2244383	.3120227	.3462682	.0293523
#1	1646.373	2218.132	56120.86	10089.95	1675.020
#2	1664.165	2208.268	56464.33	10160.06	1675.994
#3	1661.847	2214.239	56357.03	10124.12	1675.391

Sample Name: O3645-04 Acquired: 07/19/2023 17:15:19 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-08-(10.5- Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.558171**	**-.112748**	**141.4055**	**-.319692**	**.9373389**	**47.65013**
Stddev	.014506	.002977	.1864	.015223	.0055133	.03959
%RSD	.9309687	2.640678	.1318219	4.761699	.5881905	.0830771
#1	1.571978	-.114725	141.1941	-.303451	.9312944	47.66577
#2	1.543055	-.114194	141.5461	-.321992	.9386305	47.67951
#3	1.559479	-.109323	141.4763	-.333635	.9420918	47.60511

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.949538**	**.0189159**	**.0557625**	**108.9900**	**1.485424**	**.2528125**
Stddev	.011990	.0001711	.0002441	.4948	.007835	.0001733
%RSD	.3035783	.9045536	.4378072	.4539752	.5274567	.0685345
#1	3.947298	.0190866	.0556457	108.5107	1.482930	.2529918
#2	3.962490	.0189168	.0555987	109.4989	1.479140	.2526460
#3	3.938826	.0187444	.0560431	108.9603	1.494203	.2527998

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.20632**	F **1419.714**	**5.433693**	**42.47053**	**.7025484**	**-.015358**
Stddev	.02976	9.065	.013002	.08827	.0006650	.001734
%RSD	.2438088	.6385410	.2392771	.2078289	.0946548	11.28822
#1	12.20664	1423.602	5.418779	42.57198	.7019958	-.013931
#2	12.23592	1426.188	5.439659	42.41129	.7032865	-.014855
#3	12.17640	1409.353	5.442641	42.42833	.7023630	-.017287

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.85979**	**.3516674**	**8.125091**	**33.21390**	**6.262105**	^ *****
Stddev	.09417	.0006996	.021027	.08988	.003325	-----
%RSD	.3153584	.1989282	.2587903	.2706227	.0530908	-----
#1	29.82882	.3517199	8.141075	33.26767	6.264933	^ -----
#2	29.96554	.3523393	8.101272	33.26391	6.258443	^ -----
#3	29.78501	.3509431	8.132927	33.11014	6.262940	^ -----

Sample Name: O3645-04 Acquired: 07/19/2023 17:15:19 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-08-(10.5- Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735246	F 171.3616	3.143578	1.000735	2.262623	-.176415
Stddev	.0017972	.4239	.012082	.001530	.006827	.001398
%RSD	2.444293	.2473909	.3843528	.1529358	.3017393	.7924378
#1	.0721873	171.0443	3.132553	.999650	2.258168	-.176771
#2	.0728190	171.1975	3.156495	1.000070	2.259218	-.177600
#3	.0755674	171.8430	3.141687	1.002486	2.270483	-.174873

Elem	Sr4077
Units	ppm
Avg	-.532738
Stddev	.008628
%RSD	1.619623
#1	-.536498
#2	-.538849
#3	-.522868

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1256.127	1674.631	44274.07	8148.628	1570.781
Stddev	5.811	5.816	46.08	33.655	1.572
%RSD	.4626438	.3472779	.1040846	.4130107	.1000713
#1	1249.426	1675.396	44237.70	8136.891	1572.272
#2	1259.169	1680.025	44258.62	8122.414	1570.930
#3	1259.786	1668.470	44325.89	8186.580	1569.139

Sample Name: O3645-05 Acquired: 07/19/2023 17:19:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-09-(2.0-4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176251**	**-.014676**	**.6229962**	**-.027960**	**.0095580**	**175.7598**
Stddev	.0028943	.004566	.0047213	.013273	.0029306	.7144
%RSD	16.42163	31.11186	.7578349	47.47052	30.66124	.4064449
#1	.0180541	-.015233	.6266382	-.030481	.0115306	175.0592
#2	.0202810	-.018937	.6176620	-.039792	.0061905	175.7328
#3	.0145402	-.009857	.6246883	-.013608	.0109528	176.4872

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.362280**	**.0117557**	**.0165480**	**83.47870**	**.2055438**	**.1792488**
Stddev	.006212	.0002178	.0000430	.30963	.0013154	.0003119
%RSD	.4560157	1.852847	.2599079	.3709075	.6399565	.1739777
#1	1.356095	.0119284	.0165899	83.17990	.2069680	.1789185
#2	1.362226	.0115110	.0165040	83.45808	.2052888	.1795382
#3	1.368520	.0118278	.0165501	83.79813	.2043746	.1792898

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2284472**	**278.2554**	**3.764689**	**56.95643**	**.3397026**	**-.003248**
Stddev	.0040017	.9382	.010850	.21641	.0006885	.000357
%RSD	1.751679	.3371596	.2881951	.3799496	.2026848	10.98339
#1	.2241238	277.5747	3.753770	56.83416	.3389185	-.003656
#2	.2320212	277.8660	3.764829	56.82884	.3402088	-.002999
#3	.2291966	279.3256	3.775468	57.20630	.3399804	-.003087

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.924823**	**.3176298**	**1.909821**	**13.39103**	F **14.93725**	**-.150952**
Stddev	.157562	.0012578	.006744	.03164	.04955	.006867
%RSD	8.185810	.3960052	.3530979	.2362407	.3317155	4.549254
#1	2.106760	.3163560	1.917573	13.37141	14.91574	-.158728
#2	1.833587	.3188710	1.905307	13.37416	14.90209	-.148406
#3	1.834123	.3176626	1.906583	13.42753	14.99392	-.145721

Sample Name: O3645-05 Acquired: 07/19/2023 17:19:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-09-(2.0-4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056387	6.285846	F 10.21735	.0290386	.4342597	.1945849
Stddev	.0006021	.024701	.05367	.0014119	.0024756	.0007169
%RSD	10.67888	.3929631	.5253218	4.862064	.5700787	.3684129
#1	.0050220	6.289245	10.27730	.0293475	.4321640	.1941328
#2	.0056688	6.308672	10.20103	.0274979	.4336240	.1942105
#3	.0062252	6.259622	10.17374	.0302705	.4369912	.1954115

Elem	Sr4077
Units	ppm
Avg	.0609753
Stddev	.0003017
%RSD	.4947682
#1	.0610250
#2	.0606519
#3	.0612491

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1621.253	2175.227	55365.49	10081.51	1685.291
Stddev	6.646	3.868	280.24	63.59	.444
%RSD	.4099038	.1778346	.5061643	.6307585	.0263258
#1	1614.078	2173.860	55052.21	10008.44	1685.392
#2	1627.198	2172.227	55592.33	10124.34	1685.675
#3	1622.483	2179.593	55451.92	10111.74	1684.805

Sample Name: O3645-06 Acquired: 07/19/2023 17:23:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-10-(0.5-2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2479850**	**-.313506**	**68.56026**	**-.973958**	**.7232975**	**313.0519**
Stddev	.0244448	.004534	.39155	.006602	.0034896	3.5749
%RSD	9.857382	1.446082	.5711002	.6778107	.4824618	1.141944
#1	.2489669	-.317989	69.00836	-.978314	.7195423	308.9265
#2	.2719241	-.313605	68.28415	-.977197	.7239097	315.2393
#3	.2230641	-.308924	68.38825	-.966362	.7264406	314.9898

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.681438**	**.0307489**	**.4577228**	**593.5634**	**1.007598**	**.4163756**
Stddev	.036944	.0003940	.0025861	4.3513	.002103	.0026083
%RSD	.3815972	1.281252	.5649961	.7330854	.2087584	.6264346
#1	9.647114	.0303128	.4607089	590.0210	1.008697	.4192880
#2	9.720538	.0308548	.4562568	592.2486	1.008925	.4142549
#3	9.676662	.0310791	.4562029	598.4205	1.005173	.4155839

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**64.45823**	F **2506.820**	**21.37354**	**209.6461**	**2.073422**	**-.094557**
Stddev	.62099	20.546	.25776	1.9299	.010888	.003783
%RSD	.9634065	.8195978	1.205976	.9205732	.5251119	4.000482
#1	63.74234	2484.563	21.07731	207.4934	2.085989	-.098369
#2	64.78070	2510.837	21.49663	210.2233	2.066831	-.094496
#3	64.85165	2525.062	21.54668	211.2215	2.067445	-.090804

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.546066**	**.4186674**	F **37.19442**	**10.97951**	F **18.22822**	^ *****
Stddev	.146456	.0085474	.17462	.08082	.07912	-----
%RSD	1.713721	2.041576	.4694824	.7361404	.4340357	-----
#1	8.444033	.4130662	37.38967	10.88660	18.31821	^ -----
#2	8.480287	.4144303	37.05321	11.03366	18.19688	^ -----
#3	8.713878	.4285056	37.14038	11.01826	18.16958	^ -----

Sample Name: O3645-06 Acquired: 07/19/2023 17:23:09 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SB-10-(0.5-2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1260947	F 31.36510	8.801126	2.292900	1.842326	-.317535
Stddev	.0012719	.14929	.069831	.012934	.020420	.002981
%RSD	1.008692	.4759759	.7934358	.5640730	1.108393	.9387710
#1	.1270888	31.53740	8.721739	2.307707	1.818888	-.315484
#2	.1246614	31.28357	8.828583	2.283811	1.851811	-.316166
#3	.1265338	31.27432	8.853055	2.287181	1.856279	-.320954

Elem	Sr4077
Units	ppm
Avg	-.768925
Stddev	.010067
%RSD	1.309261
#1	-.762687
#2	-.763548
#3	-.780539

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1150.515	1531.571	43089.13	8223.245	1278.531
Stddev	7.944	4.750	13.85	40.365	7.979
%RSD	.6904398	.3101653	.0321523	.4908604	.6240809
#1	1142.507	1526.862	43092.56	8263.210	1269.327
#2	1158.393	1536.362	43100.95	8224.032	1283.496
#3	1150.644	1531.488	43073.89	8182.492	1282.771

Sample Name: O3645-07 Acquired: 07/19/2023 17:27:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212436**	**-.000038**	**.6962663**	**-.015684**	**.0053990**	**85.54783**
Stddev	.0061890	.003107	.0015841	.010150	.0050273	.81909
%RSD	29.13337	8134.293	.2275122	64.71416	93.11382	.9574669
#1	.0142230	.002625	.6969621	-.022837	.0003875	84.74106
#2	.0235975	.000712	.6944534	-.020148	.0053678	86.37871
#3	.0259102	-.003451	.6973834	-.004067	.0104419	85.52372

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5026275**	**.0050386**	**.0292276**	F **1821.935**	**.0985504**	**.0918102**
Stddev	.0040459	.0001888	.0001909	26.483	.0008923	.0009763
%RSD	.8049392	3.746098	.6531870	1.453538	.9054057	1.063332
#1	.4992887	.0050350	.0294456	1791.653	.0994890	.0918218
#2	.5071268	.0052291	.0291470	1840.761	.0977130	.0908282
#3	.5014671	.0048517	.0290902	1833.390	.0984492	.0927806

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2509757**	**162.1977**	**9.215819**	**894.7433**	**.1979922**	**-.005097**
Stddev	.0024725	1.1600	.064606	6.7281	.0007634	.000144
%RSD	.9851356	.7152000	.7010334	.7519592	.3855776	2.817339
#1	.2481211	160.8614	9.147041	886.9908	.1978168	-.005213
#2	.2524386	162.9463	9.275231	899.0575	.1988281	-.004937
#3	.2523675	162.7853	9.225185	898.1815	.1973318	-.005142

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.952454**	**.1869765**	**6.100381**	**14.73847**	**9.958907**	**-.069900**
Stddev	.147422	.0027828	.025678	.15875	.031765	.004604
%RSD	7.550616	1.488329	.4209221	1.077101	.3189576	6.586990
#1	2.062377	.1855352	6.119708	14.67422	9.931566	-.072672
#2	2.010057	.1901844	6.110191	14.91927	9.993751	-.072443
#3	1.784927	.1852100	6.071245	14.62192	9.951403	-.064585

Sample Name: O3645-07 Acquired: 07/19/2023 17:27:17 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUP Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010127	2.455345	8.526469	.0023066	1.274601	.1536002
Stddev	.0005347	.010732	.057538	.0009558	.011439	.0026970
%RSD	52.79982	.4370843	.6748210	41.43815	.8974861	1.755858
#1	.0014478	2.459339	8.538112	.0033810	1.261738	.1522866
#2	.0004158	2.463507	8.577296	.0019880	1.283635	.1567023
#3	.0011746	2.443189	8.464000	.0015508	1.278431	.1518116

Elem	Sr4077
Units	ppm
Avg	.7969285
Stddev	.0069998
%RSD	.8783433
#1	.7920437
#2	.8049477
#3	.7937942

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1228.474	1650.381	43035.46	8198.712	1243.854
Stddev	3.090	.975	165.54	30.773	2.872
%RSD	.2515272	.0590622	.3846507	.3753385	.2308686
#1	1224.945	1649.334	42935.54	8191.982	1241.725
#2	1229.782	1651.262	43226.54	8171.862	1247.121
#3	1230.695	1650.547	42944.30	8232.293	1242.718

Sample Name: O3646-01 Acquired: 07/19/2023 17:31:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: GATE-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0405637**	**-.007023**	**.4111156**	**-.026829**	**.0086886**	**102.4210**	**.9567531**
Stddev	.0015186	.003555	.0015128	.004800	.0016839	1.0856	.0059477
%RSD	3.743618	50.61960	.3679725	17.89076	19.38054	1.059900	.6216562
#1	.0418839	-.005316	.4126272	-.028912	.0068695	101.1680	.9500171
#2	.0409029	-.011109	.4096016	-.021339	.0090033	103.0163	.9612808
#3	.0389042	-.004644	.4111179	-.030235	.0101929	103.0786	.9589615

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075507**	**.0114878**	**32.06763**	**.1901238**	**.0834568**	**.2462180**	**226.0306**
Stddev	.0000605	.0003187	.23965	.0014510	.0004698	.0013155	2.9795
%RSD	.8012399	2.774335	.7473226	.7632040	.5629488	.5342963	1.318186
#1	.0075265	.0116700	31.79092	.1912895	.0829178	.2459769	222.6080
#2	.0076195	.0116736	32.20385	.1905833	.0836729	.2476374	227.4385
#3	.0075059	.0111198	32.20813	.1884987	.0837798	.2450397	228.0452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.800398**	**22.97796**	**.1672584**	**-.003679**	**1.740275**	**.3460270**	**1.165742**
Stddev	.021563	.29064	.0003333	.000656	.133458	.0019952	.003240
%RSD	.7700110	1.264874	.1992633	17.83824	7.668768	.5765967	.2778943
#1	2.776277	22.64282	.1669047	-.004366	1.882997	.3451003	1.162409
#2	2.817808	23.13027	.1675666	-.003611	1.618576	.3446637	1.165937
#3	2.807109	23.16080	.1673041	-.003059	1.719252	.3483170	1.168879

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.737419**	**8.289554**	**-.141757**	**.0104914**	**2.018343**	**2.634580**	**.0218189**
Stddev	.054671	.022851	.004807	.0003589	.003366	.013307	.0024646
%RSD	.9528786	.2756614	3.390692	3.420533	.1667632	.5050866	11.29572
#1	5.682087	8.288029	-.147118	.0101102	2.021315	2.627078	.0206400
#2	5.738766	8.267504	-.140319	.0105415	2.019025	2.649944	.0201652
#3	5.791403	8.313129	-.137833	.0108226	2.014688	2.626717	.0246516

Sample Name: O3646-01 Acquired: 07/19/2023 17:31:23 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: GATE-1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.420866	.0656672	-.049334
Stddev	.019127	.0011199	.000627
%RSD	1.346170	1.705357	1.270704
#1	1.398780	.0645746	-.048611
#2	1.431944	.0668124	-.049678
#3	1.431874	.0656146	-.049714

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1594.891	2136.037	54133.19	9707.868	1747.528
Stddev	6.579	.894	78.48	37.363	1.411
%RSD	.4125005	.0418413	.1449672	.3848772	.0807615
#1	1601.223	2135.482	54119.56	9748.311	1746.301
#2	1595.359	2137.068	54217.59	9674.635	1749.070
#3	1588.090	2135.562	54062.43	9700.658	1747.214

Sample Name: LR CHECK 1 Acquired: 07/19/2023 17:40:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.125367**	**-.059792**	**-.012166**	**-.111961**	**.0406674**	**1948.280**	**.0177904**
Stddev	.024915	.002160	.003932	.011531	.0030099	14.041	.0002339
%RSD	19.87391	3.612710	32.31754	10.29879	7.401176	.7206830	1.315001
#1	-.127126	-.061447	-.016319	-.113613	.0437368	1956.375	.0177454
#2	-.099619	-.060580	-.011678	-.099693	.0377208	1932.067	.0175822
#3	-.149357	-.057348	-.008501	-.122576	.0405447	1956.397	.0180435

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071378**	**.0190939**	**1679.058**	**-.067286**	**.0241039**	**-.013954**	**821.8422**
Stddev	.0000944	.0007815	8.656	.000638	.0001461	.003220	3.4870
%RSD	1.322335	4.092937	.5155422	.9475807	.6060055	23.07586	.4242871
#1	.0072225	.0199714	1669.347	-.067676	.0242131	-.010236	819.3137
#2	.0070360	.0184726	1681.864	-.066550	.0239380	-.015799	820.3927
#3	.0071548	.0188378	1685.964	-.067631	.0241607	-.015826	825.8201

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224895**	**1786.103**	**.0172737**	**-.033437**	**1673.514**	**.0115141**	**.1111625**
Stddev	.0015623	6.151	.0014125	.000948	4.434	.0045337	.0016751
%RSD	6.946965	.3443921	8.177029	2.834019	.2649384	39.37570	1.506910
#1	.0234723	1780.326	.0188817	-.033334	1669.485	.0113910	.1097967
#2	.0206879	1785.411	.0162337	-.032544	1672.793	.0070431	.1106592
#3	.0233082	1792.570	.0167056	-.034431	1678.264	.0161081	.1130315

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**934.6554**	**-.032272**	**-.769083**	**-.008064**	**-.254687**	**-.024013**	**-.001514**
Stddev	.8446	.009148	.012501	.003473	.025811	.003421	.007773
%RSD	.0903670	28.34610	1.625467	43.06528	10.13455	14.24772	513.4023
#1	933.9854	-.023364	-.782379	-.011853	-.279469	-.025083	-.009054
#2	934.3766	-.031810	-.767302	-.007307	-.227956	-.026771	-.001961
#3	935.6042	-.041643	-.757568	-.005033	-.256637	-.020184	.006473

Sample Name: LR CHECK 1 Acquired: 07/19/2023 17:40:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.040425	-.149659	-.815237
Stddev	.000099	.000676	.003436
%RSD	.2451840	.4519958	.4214719
#1	-.040503	-.150429	-.812723
#2	-.040313	-.149387	-.813836
#3	-.040458	-.149162	-.819152

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	936.1244	1260.130	32470.65	6466.471	1078.575
Stddev	6.0642	3.905	135.25	28.553	2.183
%RSD	.6478028	.3098980	.4165204	.4415512	.2023773
#1	942.5817	1263.358	32604.95	6433.503	1078.223
#2	935.2416	1261.242	32472.52	6482.667	1076.590
#3	930.5500	1255.789	32334.47	6483.243	1080.912

Sample Name: CCV05 Acquired: 07/19/2023 17:44:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**5.199620**	**5.124270**	**4.949339**	**5.179341**	**5.073999**	**9.960336**	**10.38961**
Stddev	.024322	.012137	.010206	.017510	.015089	.070020	.07027
%RSD	.4677673	.2368452	.2062132	.3380797	.2973826	.7029879	.6763533
#1	5.181680	5.115439	4.941669	5.168445	5.056762	9.925402	10.30927
#2	5.227303	5.138109	4.960923	5.199539	5.084821	10.04095	10.43962
#3	5.189877	5.119263	4.945425	5.170039	5.080415	9.91466	10.41995

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2382636**	**2.423766**	**24.16519**	**.9842561**	**2.472331**	**1.280594**	**4.850599**
Stddev	.0013390	.006385	.15339	.0077680	.005168	.011781	.014201
%RSD	.5619702	.2634513	.6347540	.7892232	.2090183	.9199291	.2927581
#1	.2381459	2.416407	23.99034	.9776626	2.467117	1.270356	4.846615
#2	.2396576	2.427846	24.27708	.9822863	2.477450	1.293470	4.866367
#3	.2369874	2.427044	24.22815	.9928193	2.472426	1.277958	4.838817

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.454593**	**23.27824**	**2.479856**	**1.264446**	**24.73209**	**2.443808**	**2.573080**
Stddev	.019030	.20332	.007455	.012856	.11734	.019795	.009999
%RSD	.7752779	.8734473	.3006273	1.016739	.4744292	.8100029	.3885888
#1	2.432957	23.12300	2.472287	1.261101	24.66444	2.421214	2.571883
#2	2.462089	23.50839	2.487191	1.253593	24.86757	2.458098	2.563734
#3	2.468733	23.20333	2.480089	1.278644	24.66424	2.452113	2.583624

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.54727**	**5.421968**	**4.866674**	**5.001654**	**4.868232**	**5.010806**	**4.796275**
Stddev	.14532	.003309	.022571	.014223	.010241	.020322	.012869
%RSD	.5688133	.0610263	.4637849	.2843691	.2103648	.4055658	.2683163
#1	25.38348	5.425695	4.868512	4.985329	4.857177	5.003270	4.781910
#2	25.66073	5.419376	4.888270	5.011370	4.877396	5.033820	4.800164
#3	25.59760	5.420832	4.843241	5.008265	4.870121	4.995329	4.806751

Sample Name: CCV05 Acquired: 07/19/2023 17:44:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.969190**	**5.155892**	**4.709390**
Stddev	.042035	.035692	.010820
%RSD	.8459180	.6922533	.2297476
#1	4.926077	5.114873	4.698484
#2	5.010057	5.172938	4.709564
#3	4.971435	5.179866	4.720122

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1260.187**	**1668.168**	**42839.20**	**7496.434**	**1702.875**
Stddev	7.241	2.292	413.96	32.663	2.612
%RSD	.5745670	.1374137	.9663135	.4357159	.1533835
#1	1254.857	1670.321	42883.24	7467.800	1703.864
#2	1268.431	1665.758	43229.38	7489.491	1699.913
#3	1257.275	1668.424	42404.97	7532.010	1704.848

Sample Name: CCB05 Acquired: 07/19/2023 17:48:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.002575**	**-.000227**	**-.001088**	**.0004212**	**.0009850**	**.0179723**	**-.000721**
Stddev	.005761	.000558	.001773	.0060230	.0013743	.0049238	.000336
%RSD	223.7541	245.7181	162.9454	1430.131	139.5288	27.39636	46.67078
#1	.004057	-.000384	.000303	-.005474	.0024767	.0209613	-.000335
#2	-.006340	-.000690	-.003085	.006564	-.000230	.0206663	-.000955
#3	-.005442	.000392	-.000482	.000173	.000708	.0122894	-.000872

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000327**	**.0000003**	**.0212966**	**-.000063**	**.0000303**	**.0019396**	**.0042916**
Stddev	.0000165	.0001132	.0052042	.000263	.0001340	.0009553	.0025787
%RSD	50.42404	41357.80	24.43681	416.1971	442.3546	49.25124	60.08769
#1	.0000494	-.000046	.0268833	-.000320	.0000872	.0008543	.0064447
#2	.0000322	.000129	.0204205	.000206	-.000123	.0026530	.0014338
#3	.0000165	-.000082	.0165861	-.000076	.000126	.0023115	.0049964

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000124**	**.0198451**	**-.000241**	**.0005041**	**.0058517**	**-.000259**	**.0004962**
Stddev	.000336	.0176342	.000350	.0004199	.1523901	.002629	.0003264
%RSD	271.9515	88.85931	144.9135	83.29876	2604.195	1014.691	65.76767
#1	-.000188	.0344163	.000151	.0001222	-.018889	.000553	.0002600
#2	.000240	.0002418	-.000520	.0004363	-.132655	.001868	.0003601
#3	-.000423	.0248771	-.000356	.0009537	.169098	-.003198	.0008686

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3544631**	**-.002195**	**.0053579**	**.0013568**	**-.006077**	**-.000004**	**.0027854**
Stddev	.0529748	.002534	.0014015	.0004767	.004753	.000743	.0012322
%RSD	14.94507	115.4613	26.15734	35.13395	78.21696	17889.90	44.23836
#1	.3051981	.000109	.0068851	.0017022	-.003258	.000225	.0015467
#2	.3476941	-.004909	.0050579	.0015553	-.011565	.000598	.0027984
#3	.4104970	-.001784	.0041307	.0008129	-.003408	-.000835	.0040111

Sample Name: CCB05 Acquired: 07/19/2023 17:48:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000512	-.001600	.0002122
Stddev	.000437	.000136	.0001038
%RSD	85.37447	8.473311	48.94165
#1	-.000876	-.001467	.0003184
#2	-.000634	-.001738	.0002072
#3	-.000027	-.001595	.0001109

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1292.734	1734.137	43702.01	7486.407	1834.354
Stddev	6.720	3.493	218.71	127.393	.743
%RSD	.5198480	.2014121	.5004591	1.701656	.0404911
#1	1285.156	1730.116	43616.18	7346.190	1834.835
#2	1295.079	1736.422	43539.23	7518.000	1834.729
#3	1297.968	1735.872	43950.61	7595.030	1833.499

Sample Name: O3646-04 Acquired: 07/19/2023 17:52:42 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: YARD-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0222679**	**.0032514**	**.3654291**	**-.026716**	**.0082400**	**83.49033**
Stddev	.0086544	.0036809	.0015836	.008044	.0010400	.72059
%RSD	38.86511	113.2101	.4333634	30.11133	12.62168	.8630855
#1	.0139717	.0043436	.3654829	-.033644	.0093650	84.29380
#2	.0312408	-.000852	.3669851	-.017893	.0080414	82.90128
#3	.0215911	.006263	.3638192	-.028610	.0073136	83.27591

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3683663**	**.0049905**	**.0066715**	**118.1595**	**.1164605**	**.1250803**
Stddev	.0042911	.0001068	.0000994	1.4002	.0003034	.0001620
%RSD	1.164913	2.139285	1.490343	1.185034	.2604869	.1295330
#1	.3732359	.0050865	.0066379	119.7428	.1164025	.1250702
#2	.3651384	.0048755	.0067834	117.0838	.1161903	.1252471
#3	.3667246	.0050096	.0065932	117.6520	.1167887	.1249235

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3282668**	**212.8855**	**2.500842**	**39.41714**	**.1325139**	**-.003757**
Stddev	.0045038	2.9522	.027489	.57646	.0009344	.000215
%RSD	1.371982	1.386740	1.099204	1.462464	.7051291	5.712660
#1	.3322258	216.2814	2.532498	40.06524	.1314729	-.003596
#2	.3233669	211.4443	2.482991	39.22454	.1327885	-.003675
#3	.3292078	210.9308	2.487037	38.96163	.1332801	-.004001

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.594161**	**.4206318**	**.4518187**	**9.677502**	F **19.11712**	**-.095243**
Stddev	.089115	.0022954	.0028836	.098165	.03288	.004274
%RSD	3.435208	.5457135	.6382234	1.014360	.1719862	4.487182
#1	2.496284	.4207020	.4551167	9.787078	19.15499	-.099815
#2	2.615593	.4183020	.4505666	9.597592	19.10048	-.094566
#3	2.670605	.4228913	.4497727	9.647835	19.09589	-.091348

Sample Name: O3646-04 Acquired: 07/19/2023 17:52:42 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: YARD-1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143218	1.369452	2.838201	.0097463	4.626642	.0291689
Stddev	.0000974	.002540	.042557	.0004667	.053225	.0014536
%RSD	.6799149	.1854704	1.499431	4.788168	1.150408	4.983533
#1	.0143745	1.371290	2.887289	.0102282	4.687389	.0276284
#2	.0142094	1.370513	2.811688	.0092966	4.588188	.0305164
#3	.0143815	1.366554	2.815626	.0097140	4.604349	.0293618

Elem	Sr4077
Units	ppm
Avg	.0060715
Stddev	.0012100
%RSD	19.92974
#1	.0049250
#2	.0059531
#3	.0073364

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1548.969	2069.596	52885.22	9344.591	1724.651
Stddev	3.309	2.894	108.42	167.009	.904
%RSD	.2136097	.1398177	.2050150	1.787231	.0524425
#1	1548.865	2072.904	52902.12	9152.139	1725.683
#2	1552.329	2067.531	52984.19	9451.479	1724.273
#3	1545.713	2068.354	52769.33	9430.156	1723.997

Sample Name: O3647-01 Acquired: 07/19/2023 17:56:38 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SAMPLE-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0390470**	**-.012567**	**.1745304**	**-.027085**	**.0072595**	**177.1635**	**.5579161**
Stddev	.0049437	.004525	.0026755	.001287	.0033501	1.1418	.0016264
%RSD	12.66097	36.00970	1.532982	4.749801	46.14768	.6444713	.2915089
#1	.0382008	-.012698	.1773607	-.027438	.0077149	175.8453	.5560385
#2	.0443591	-.017024	.1720426	-.028159	.0103586	177.8391	.5588236
#3	.0345809	-.007977	.1741879	-.025659	.0037050	177.8062	.5588863

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0133072**	**.0123322**	**15.96093**	**.1370005**	**.1989646**	**.1792243**	**228.4577**
Stddev	.0000434	.0002418	.05146	.0010888	.0004306	.0019173	.8962
%RSD	.3263830	1.960994	.3224240	.7947205	.2164137	1.069802	.3922691
#1	.0132855	.0124382	15.90475	.1374842	.1985232	.1775817	227.4654
#2	.0133572	.0120554	15.97227	.1357537	.1993835	.1787601	229.2080
#3	.0132788	.0125029	16.00578	.1377636	.1989872	.1813312	228.6999

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.308548**	**19.69331**	**.1548738**	**-.004578**	**1.112148**	**.4966271**	**.3540732**
Stddev	.001575	.07664	.0003856	.000282	.059709	.0021645	.0029133
%RSD	.0682242	.3891863	.2489524	6.158692	5.368765	.4358478	.8228022
#1	2.307201	19.60912	.1544556	-.004740	1.044201	.4942751	.3552775
#2	2.308163	19.75903	.1552151	-.004252	1.156246	.4970706	.3507508
#3	2.310279	19.71179	.1549506	-.004741	1.135998	.4985354	.3561912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.918530**	**6.858979**	**-.138888**	**.0029528**	**1.326023**	**2.771539**	**.0243279**
Stddev	.018347	.009097	.006157	.0002564	.020409	.016877	.0016274
%RSD	.3730266	.1326285	4.433202	8.683334	1.539139	.6089386	6.689413
#1	4.899616	6.864244	-.145698	.0032383	1.336496	2.777845	.0242350
#2	4.936252	6.864219	-.137249	.0027422	1.339070	2.784355	.0259997
#3	4.919721	6.848475	-.133716	.0028781	1.302503	2.752417	.0227489

Sample Name: O3647-01 Acquired: 07/19/2023 17:56:38 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: SAMPLE-1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.393411	.0331233	-.128656
Stddev	.022921	.0003407	.000342
%RSD	.6754568	1.028584	.2658095
#1	3.366962	.0335166	-.128440
#2	3.407483	.0329336	-.129051
#3	3.405788	.0329196	-.128479

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.695	3101.786	79509.97	14103.10	1718.396
Stddev	25.795	4.670	875.66	78.01	1.365
%RSD	1.102509	.1505457	1.101322	.5531334	.0794079
#1	2321.902	3106.429	79037.56	14025.46	1718.468
#2	2369.278	3097.090	80520.39	14102.37	1719.724
#3	2327.903	3101.840	78971.97	14181.47	1716.998

Sample Name: O3648-01 Acquired: 07/19/2023 18:00:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: OK-01-071723 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001023**	**.0107134**	**.1062470**	**-.028824**	**.0026763**	**96.00235**
Stddev	.001393	.0004252	.0017357	.006034	.0010138	.31599
%RSD	136.1929	3.968605	1.633684	20.93503	37.88143	.3291491
#1	.000305	.0112036	.1047900	-.027222	.0026733	96.25523
#2	-.000901	.0104919	.1081674	-.035498	.0036917	95.64812
#3	-.002473	.0104447	.1057836	-.023753	.0016640	96.10371

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6320112**	**.0053880**	**.0059990**	**47.89328**	**.1901037**	**.1392508**
Stddev	.0026022	.0000629	.0000387	.12948	.0010178	.0004880
%RSD	.4117398	1.167002	.6445753	.2703512	.5353892	.3504784
#1	.6347677	.0053164	.0060336	48.03557	.1892399	.1396958
#2	.6316688	.0054138	.0060062	47.86190	.1912258	.1387289
#3	.6295971	.0054339	.0059573	47.78238	.1898455	.1393277

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5032021**	**214.1727**	**3.085591**	**60.76534**	**.2275743**	**-.005169**
Stddev	.0051057	.9650	.008683	.20084	.0004544	.000538
%RSD	1.014637	.4505511	.2814185	.3305145	.1996714	10.40027
#1	.5078038	215.1141	3.094497	60.96353	.2272028	-.004610
#2	.4977097	213.1858	3.077149	60.56195	.2274393	-.005683
#3	.5040928	214.2183	3.085127	60.77055	.2280809	-.005213

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.238443**	**.4659858**	**.3217857**	**23.19591**	F **14.81742**	**-.115363**
Stddev	.143633	.0022007	.0033400	.09149	.04560	.001267
%RSD	3.388809	.4722600	1.037971	.3944390	.3077159	1.098669
#1	4.402579	.4669667	.3183351	23.28072	14.85837	-.115621
#2	4.176984	.4675254	.3250029	23.09895	14.76829	-.116481
#3	4.135764	.4634652	.3220193	23.20806	14.82560	-.113986

Sample Name: O3648-01 Acquired: 07/19/2023 18:00:34 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: OK-01-071723 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012741**	**4.878209**	**3.996718**	**.0166325**	**8.762579**	**.0805740**
Stddev	.0003424	.015625	.019920	.0015930	.046410	.0019087
%RSD	26.87245	.3202938	.4984001	9.577696	.5296411	2.368851
#1	.0013926	4.861136	4.014067	.0184710	8.801464	.0820363
#2	.0008882	4.881694	4.001122	.0156616	8.711201	.0812709
#3	.0015415	4.891797	3.974965	.0157649	8.775072	.0784148

Elem	Sr4077
Units	ppm
Avg	**-.114304**
Stddev	.000642
%RSD	.5613977
#1	-.114955
#2	-.113672
#3	-.114284

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1614.301**	**2150.787**	**55109.29**	**9774.074**	**1734.769**
Stddev	15.009	2.322	348.02	69.881	3.809
%RSD	.9297586	.1079506	.6315100	.7149587	.2195633
#1	1624.526	2153.233	55301.15	9699.970	1730.699
#2	1597.070	2148.613	54707.57	9783.473	1735.359
#3	1621.306	2150.513	55319.16	9838.780	1738.248

Sample Name: O3652-01 Acquired: 07/19/2023 18:04:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1530390**	**.0021445**	**.3265591**	**-.025843**	**.0097959**	**121.0938**	**.5467832**
Stddev	.0096934	.0013210	.0030502	.000607	.0027904	.9002	.0030424
%RSD	6.333928	61.59762	.9340321	2.350755	28.48550	.7434205	.5564136
#1	.1423401	.0007205	.3234131	-.026008	.0122561	120.0713	.5433595
#2	.1555401	.0023830	.3295034	-.026350	.0103677	121.7671	.5478135
#3	.1612367	.0033300	.3267607	-.025170	.0067639	121.4430	.5491767

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077765**	**.0049409**	**18.74699**	**.2733894**	**.0278462**	**.1110461**	**232.0450**
Stddev	.0001044	.0000702	.09564	.0040095	.0004268	.0035803	1.6394
%RSD	1.342837	1.420180	.5101775	1.466603	1.532845	3.224156	.7065222
#1	.0077519	.0050094	18.63784	.2712292	.0277311	.1070860	230.1998
#2	.0078911	.0048691	18.78699	.2780159	.0274887	.1119982	232.6014
#3	.0076866	.0049442	18.81614	.2709232	.0283188	.1140541	233.3339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7840024**	**9.977038**	**.0578932**	**-.003964**	**1.092303**	**.5336779**	**.2808058**
Stddev	.0057793	.144322	.0003294	.000527	.079819	.0039322	.0032164
%RSD	.7371482	1.446542	.5689808	13.30221	7.307389	.7368139	1.145428
#1	.7777853	9.830789	.0581173	-.004254	1.170889	.5292012	.2807597
#2	.7850109	9.980972	.0575150	-.004282	1.094712	.5352591	.2840450
#3	.7892111	10.11935	.0580474	-.003355	1.011307	.5365734	.2776126

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.547921**	**1.897371**	**-.118805**	**.0042366**	**1.133426**	**5.136700**	**.0173959**
Stddev	.100252	.011828	.003130	.0005351	.010187	.004582	.0005133
%RSD	1.172822	.6234058	2.634693	12.63097	.8988030	.0891957	2.950520
#1	8.449806	1.892306	-.122387	.0048544	1.125018	5.134882	.0172453
#2	8.650181	1.888919	-.116597	.0039194	1.144755	5.133306	.0179677
#3	8.543776	1.910888	-.117431	.0039360	1.130506	5.141912	.0169748

Sample Name: O3652-01 Acquired: 07/19/2023 18:04:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP19 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7336546	.0380483	-.070110
Stddev	.0027661	.0004615	.001056
%RSD	.3770247	1.213013	1.506329
#1	.7305304	.0381239	-.069381
#2	.7346419	.0375537	-.069628
#3	.7357916	.0384674	-.071321

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1435.015	1925.739	48696.73	8508.248	1812.153
Stddev	9.943	5.309	454.68	20.426	2.023
%RSD	.6928785	.2756639	.9337058	.2400690	.1116448
#1	1430.445	1919.631	48804.72	8523.157	1811.309
#2	1428.179	1929.239	48197.77	8516.620	1814.461
#3	1446.421	1928.346	49087.69	8484.966	1810.689

Sample Name: O3652-11 Acquired: 07/19/2023 18:08:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0626623**	**-.005108**	**.2448239**	**-.039163**	**.0149105**	**90.28423**	**.2378175**
Stddev	.0058128	.002052	.0052077	.005844	.0018882	.45651	.0008092
%RSD	9.276449	40.18068	2.127130	14.92168	12.66373	.5056404	.3402433
#1	.0566577	-.003111	.2399357	-.043249	.0130577	89.97677	.2369266
#2	.0630670	-.007211	.2442350	-.032470	.0148417	90.80878	.2385068
#3	.0682622	-.005002	.2503011	-.041772	.0168322	90.06714	.2380191

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098760**	**.0080209**	**10.87837**	**.5340804**	**.0295626**	**.0832810**	**338.6975**
Stddev	.0000846	.0003670	.00211	.0497359	.0001595	.0013568	1.3507
%RSD	.8561732	4.575972	.0193618	9.312437	.5395595	1.629243	.3987922
#1	.0098530	.0077232	10.87669	.4980171	.0295266	.0847829	337.7621
#2	.0099697	.0079086	10.87768	.5908192	.0294242	.0829167	340.2460
#3	.0098053	.0084310	10.88073	.5134050	.0297371	.0821436	338.0843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2857545**	**6.884425**	**.0497048**	**-.009524**	**2.230364**	**.7578246**	**.3356407**
Stddev	.0005971	.060179	.0006034	.003567	.053735	.0078952	.0320679
%RSD	.2089554	.8741375	1.213957	37.44706	2.409249	1.041826	9.554248
#1	.2850685	6.864946	.0500963	-.007615	2.192331	.7576297	.3112685
#2	.2861574	6.951931	.0490099	-.013639	2.291837	.7658154	.3719691
#3	.2860376	6.836398	.0500082	-.007319	2.206923	.7500286	.3236845

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.64536**	**4.430535**	**-.184310**	**.0006889**	**1.465696**	**2.947335**	**.0151423**
Stddev	.07331	.058821	.007744	.0006033	.009587	.027428	.0008461
%RSD	.6295126	1.327618	4.201749	87.56813	.6540852	.9305889	5.587538
#1	11.70335	4.387019	-.178035	.0007660	1.456605	2.918001	.0156914
#2	11.66976	4.407132	-.192965	.0012499	1.464772	2.972341	.0155676
#3	11.56296	4.497455	-.181929	.0000508	1.475712	2.951662	.0141680

Sample Name: O3652-11 Acquired: 07/19/2023 18:08:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP18 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7983596	-.026762	-.243034
Stddev	.0057667	.000452	.000808
%RSD	.7223199	1.689242	.3322961
#1	.7987186	-.027015	-.242246
#2	.8039385	-.027031	-.243860
#3	.7924218	-.026240	-.242995

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1439.790	1939.889	48854.67	8995.646	1762.952
Stddev	105.728	16.178	3713.72	32.326	17.093
%RSD	7.343306	.8339787	7.601566	.3593545	.9695752
#1	1514.002	1944.727	51442.37	8962.270	1774.593
#2	1318.733	1953.096	44599.47	8997.858	1770.934
#3	1486.636	1921.844	50522.16	9026.809	1743.328

Sample Name: O3652-21 Acquired: 07/19/2023 18:12:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1062006**	**-.059059**	**.2331906**	**-.123062**	**.0238810**	**104.1334**	**1.191124**
Stddev	.0070248	.001398	.0027591	.009435	.0003594	.4631	.005350
%RSD	6.614653	2.367960	1.183200	7.666865	1.505079	.4447250	.4491894
#1	.1054370	-.058307	.2301826	-.128484	.0239762	103.6070	1.185002
#2	.0995888	-.060672	.2337854	-.112167	.0241833	104.3155	1.193471
#3	.1135760	-.058197	.2356039	-.128534	.0234836	104.4779	1.194900

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0153581**	**.0207437**	**12.58775**	**.1513182**	**.0473685**	**.0651841**	**780.5160**
Stddev	.0000718	.0006924	.21214	.0006777	.0009118	.0021416	4.0113
%RSD	.4674425	3.338026	1.685321	.4478806	1.924817	3.285522	.5139355
#1	.0153689	.0215355	12.41784	.1514285	.0478874	.0659328	775.8883
#2	.0154238	.0202517	12.51990	.1519340	.0463158	.0627687	782.6601
#3	.0152815	.0204440	12.82552	.1505921	.0479024	.0668510	782.9997

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4670415**	**9.130448**	**.0601576**	**-.019030**	**2.906104**	**.3833744**	**.5424742**
Stddev	.0017877	.035701	.0011089	.000938	.129519	.0036625	.0061284
%RSD	.3827625	.3910062	1.843389	4.931326	4.456796	.9553381	1.129709
#1	.4654123	9.089549	.0612117	-.019987	2.761361	.3805730	.5397551
#2	.4667584	9.146429	.0590010	-.018991	2.945881	.3820313	.5381759
#3	.4689538	9.155366	.0602602	-.018111	3.011070	.3875188	.5494917

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.03196**	**4.223805**	**-.491579**	**-.002858**	**8.729502**	**2.100022**	**.0196375**
Stddev	.08955	.025059	.002607	.000249	.019294	.004941	.0036799
%RSD	.6871209	.5932769	.5302752	8.704487	.2210235	.2353072	18.73890
#1	12.94053	4.227360	-.490262	-.002913	8.740736	2.098102	.0234150
#2	13.11949	4.197158	-.489893	-.002586	8.707223	2.096328	.0160638
#3	13.03584	4.246896	-.494581	-.003074	8.740546	2.105635	.0194336

Sample Name: O3652-21 Acquired: 07/19/2023 18:12:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP17 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5801983	-.084777	-.633211
Stddev	.0032831	.001581	.003590
%RSD	.5658533	1.864800	.5669463
#1	.5766149	-.082974	-.629195
#2	.5809182	-.085928	-.634328
#3	.5830616	-.085428	-.636109

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1496.714	1994.391	51364.70	9212.068	1724.941
Stddev	6.669	6.509	141.05	14.811	8.867
%RSD	.4455993	.3263480	.2746078	.1607791	.5140607
#1	1499.925	1990.908	51389.96	9225.758	1717.011
#2	1501.171	2001.900	51212.73	9214.100	1734.515
#3	1489.047	1990.365	51491.42	9196.346	1723.297

Sample Name: PB154274BL Acquired: 07/19/2023 18:16:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154274BL Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004039**	**.0009602**	**.0005683**	**.0087215**	**-.000424**	**.0114671**	**-.000851**
Stddev	.003692	.0007124	.0019272	.0093757	.002236	.0022233	.000219
%RSD	91.39921	74.19386	339.0930	107.5004	526.9172	19.38852	25.74190
#1	-.005185	.0001386	.0010018	.0148322	-.000559	.0093054	-.000598
#2	-.007022	.0013353	.0022419	.0134056	-.002590	.0137473	-.000973
#3	.000090	.0014067	-.001539	-.002073	.001876	.0113486	-.000982

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000033**	**-.000088**	**.0128949**	**.0000657**	**.0003383**	**.0024209**	**.0307531**
Stddev	.000030	.000041	.0087049	.0004446	.0003186	.0012894	.0146261
%RSD	91.97896	46.81426	67.50668	676.4839	94.17444	53.26380	47.55955
#1	-.000068	-.000110	.0113345	.0003847	.0000913	.0013916	.0476285
#2	-.000016	-.000114	.0050757	-.000442	.0006980	.0038673	.0228960
#3	-.000015	-.000041	.0222745	.000255	.0002258	.0020037	.0217349

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000926**	**-.010784**	**-.000132**	**.0006198**	**.0531054**	**-.000907**	**.0006127**
Stddev	.000383	.014767	.000219	.0001544	.1776248	.001282	.0003021
%RSD	41.38585	136.9283	165.4493	24.90575	334.4760	141.3336	49.29627
#1	-.000810	.004698	-.000258	.0005058	.0399685	.000552	.0008561
#2	-.001353	-.012338	.000120	.0005581	.2369339	-.001422	.0002747
#3	-.000614	-.024713	-.000259	.0007954	-.117586	-.001850	.0007074

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006191**	**-.004434**	**-.003105**	**.0002041**	**-.009612**	**-.003000**	**.0026021**
Stddev	.044234	.002795	.000536	.0005043	.002675	.000630	.0013430
%RSD	714.4926	63.02256	17.25455	247.1457	27.82469	21.01366	51.61334
#1	-.006438	-.001233	-.003679	.0006702	-.012640	-.003214	.0014139
#2	-.050301	-.005681	-.002618	-.000331	-.008629	-.002290	.0040593
#3	.038166	-.006389	-.003018	.000273	-.007569	-.003495	.0023333

Sample Name: PB154274BL Acquired: 07/19/2023 18:16:22 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154274BL Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000309**	**-.001465**	**-.000002**
Stddev	.000791	.000362	.000059
%RSD	255.9450	24.71400	2769.026
#1	-.000672	-.001537	-.000023
#2	-.000854	-.001786	-.000047
#3	.000598	-.001072	.000064

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1294.812**	**1746.897**	**44180.52**	**7740.290**	**1858.262**
Stddev	3.442	3.272	156.15	49.116	2.252
%RSD	.2658346	.1872849	.3534266	.6345530	.1211983
#1	1295.951	1743.298	44123.63	7737.700	1855.699
#2	1297.539	1747.704	44357.13	7692.520	1859.925
#3	1290.944	1749.690	44060.79	7790.650	1859.162

Sample Name: PB154274BS Acquired: 07/19/2023 18:20:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154274BS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8391874**	**1.972284**	**.9670925**	**2.057619**	**.7769718**	**1.939116**
Stddev	.0087132	.008515	.0061804	.016332	.0049413	.009503
%RSD	1.038294	.4317402	.6390661	.7937232	.6359731	.4900928
#1	.8407335	1.979542	.9694249	2.061370	.7776372	1.929651
#2	.8470240	1.974400	.9717673	2.071749	.7815468	1.939042
#3	.8298046	1.962910	.9600853	2.039738	.7717316	1.948657

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2014048**	**.1890276**	**.1926879**	**.9836950**	**.3902808**	**.1891440**
Stddev	.0009509	.0006985	.0009600	.0080230	.0010103	.0008458
%RSD	.4721414	.3695224	.4982083	.8155978	.2588562	.4471603
#1	.2003740	.1897985	.1928992	.9750693	.3913596	.1899276
#2	.2022477	.1884367	.1935247	.9850809	.3893570	.1892570
#3	.2015928	.1888477	.1916399	.9909347	.3901259	.1882474

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3076253**	**2.915813**	**.1962050**	**1.829930**	**.4788174**	**.0743235**
Stddev	.0024998	.038061	.0011570	.022489	.0024274	.0002015
%RSD	.8126168	1.305347	.5896859	1.228962	.5069551	.2711839
#1	.3060310	2.895261	.1956438	1.803980	.4798082	.0744737
#2	.3105063	2.892446	.1954357	1.842049	.4805927	.0744024
#3	.3063384	2.959733	.1975356	1.843760	.4760513	.0740944

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.070909**	**.2940708**	**.2045676**	**9.830418**	**5.995807**	**.2821729**
Stddev	.196927	.0019381	.0016294	.157417	.025291	.0030186
%RSD	6.412669	.6590686	.7965137	1.601322	.4218044	1.069761
#1	2.968647	.2919542	.2061065	9.649578	6.013654	.2855558
#2	2.946150	.2944995	.2028607	9.936732	6.006902	.2812089
#3	3.297930	.2957586	.2047357	9.904945	5.966866	.2797542

Sample Name: PB154274BS Acquired: 07/19/2023 18:20:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154274BS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3918406	F -.012609	.8358739	.6524538	.1939769	.2071366
Stddev	.0026100	.006021	.0015609	.0052204	.0014460	.0019419
%RSD	.6660848	47.74729	.1867378	.8001210	.7454306	.9375130
#1	.3928342	-.017726	.8376214	.6515033	.1935124	.2053168
#2	.3938079	-.014126	.8353821	.6580841	.1928202	.2069120
#3	.3888798	-.005975	.8346181	.6477739	.1955980	.2091811

Elem	Sr4077
Units	ppm
Avg	.1843808
Stddev	.0013787
%RSD	.7477226
#1	.1828075
#2	.1853777
#3	.1849572

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1311.048	1746.504	44273.00	7666.386	1858.334
Stddev	.992	10.588	189.77	21.400	8.187
%RSD	.0756289	.6062388	.4286436	.2791444	.4405726
#1	1310.915	1741.914	44491.44	7645.374	1851.600
#2	1312.100	1738.985	44148.69	7665.629	1855.956
#3	1310.131	1758.612	44178.87	7688.154	1867.448

Sample Name: O3653-01 Acquired: 07/19/2023 18:24:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1471998**	**-.002694**	**.2080673**	**-.028638**	**.0072578**	**93.99827**	**.3158196**
Stddev	.0055539	.003598	.0015549	.006522	.0038385	1.89670	.0076413
%RSD	3.773007	133.5479	.7472865	22.77266	52.88871	2.017800	2.419524
#1	.1413989	-.000899	.2096789	-.026959	.0115481	93.37585	.3143184
#2	.1477324	-.006836	.2079469	-.035835	.0041487	92.49099	.3090403
#3	.1524682	-.000347	.2065762	-.023120	.0060764	96.12797	.3241001

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064502**	**.0045167**	**3.902753**	**.2371136**	**.0230807**	**.1076361**	**253.1976**
Stddev	.0001472	.0003009	.087303	.0009631	.0001683	.0037395	6.5392
%RSD	2.282219	6.661154	2.236968	.4061756	.7291215	3.474217	2.582660
#1	.0064012	.0046663	3.904415	.2362220	.0230695	.1081513	252.5553
#2	.0063337	.0047134	3.814630	.2381350	.0232543	.1036657	247.0032
#3	.0066156	.0041703	3.989213	.2369837	.0229183	.1110913	260.0343

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2324550**	**9.303563**	**.0467311**	**-.005784**	**2.132308**	**.4321995**	**.2684986**
Stddev	.0058534	.219909	.0007956	.001394	.032876	.0081403	.0017479
%RSD	2.518099	2.363703	1.702416	24.10694	1.541815	1.883453	.6510059
#1	.2302879	9.358724	.0473309	-.006585	2.119608	.4310176	.2695292
#2	.2279942	9.061325	.0458286	-.006593	2.169639	.4247148	.2694861
#3	.2390830	9.490640	.0470336	-.004174	2.107675	.4408662	.2664804

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.15979**	**2.822412**	**-.125119**	**.0023934**	**1.474956**	**2.217898**	**.0181542**
Stddev	.21723	.008456	.004276	.0003720	.009081	.044427	.0010448
%RSD	1.946547	.2996100	3.417169	15.54351	.6156974	2.003104	5.754875
#1	11.10044	2.812698	-.120617	.0027890	1.484485	2.215556	.0178806
#2	10.97840	2.826405	-.125615	.0020506	1.466401	2.174688	.0193085
#3	11.40052	2.828132	-.129125	.0023407	1.473981	2.263449	.0172735

Sample Name: O3653-01 Acquired: 07/19/2023 18:24:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5949347	.0312164	-.175289
Stddev	.0141394	.0010065	.005100
%RSD	2.376638	3.224247	2.909343
#1	.5906164	.0306070	-.174937
#2	.5834578	.0306640	-.170374
#3	.6107297	.0323781	-.180556

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1442.320	1913.156	48872.19	8696.568	1815.521
Stddev	8.149	2.827	44.66	174.828	1.052
%RSD	.5649733	.1477732	.0913901	2.010312	.0579457
#1	1432.929	1912.168	48824.99	8710.536	1816.268
#2	1447.524	1916.345	48877.77	8863.993	1815.978
#3	1446.507	1910.955	48913.79	8515.175	1814.318

Sample Name: O3653-11 Acquired: 07/19/2023 18:28:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP21 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0609000**	**.0040451**	**.0899482**	**-.014171**	**.0049242**	**83.50432**	**.2897166**
Stddev	.0023299	.0024560	.0020677	.001975	.0015507	.67285	.0029902
%RSD	3.825746	60.71620	2.298729	13.94043	31.49193	.8057636	1.032100
#1	.0592076	.0025706	.0882194	-.014252	.0066209	82.73319	.2864491
#2	.0635574	.0026844	.0922387	-.016104	.0035802	83.80779	.2903840
#3	.0599352	.0068803	.0893865	-.012156	.0045715	83.97199	.2923167

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057824**	**.0024554**	**5.935865**	**.2155441**	**.0249714**	**.0554292**	**147.0036**
Stddev	.0000675	.0001700	.068137	.0008143	.0005311	.0010238	1.4647
%RSD	1.167701	6.922154	1.147883	.3778087	2.126822	1.847006	.9963427
#1	.0057058	.0025141	5.886949	.2160690	.0253910	.0545438	145.3242
#2	.0058079	.0022639	5.906955	.2146060	.0243743	.0551935	147.6701
#3	.0058334	.0025883	6.013690	.2159574	.0251490	.0565502	148.0164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4112183**	**8.811037**	**.0510832**	**-.003724**	**1.460319**	**.3324990**	**.3357604**
Stddev	.0055694	.091577	.0005298	.000405	.087325	.0036723	.0022251
%RSD	1.354356	1.039341	1.037167	10.88521	5.979876	1.104440	.6626987
#1	.4051022	8.707179	.0509718	-.004183	1.488105	.3289783	.3369941
#2	.4125550	8.845748	.0506180	-.003576	1.362482	.3363060	.3331918
#3	.4159977	8.880183	.0516599	-.003413	1.530371	.3322127	.3370954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.838935**	**1.890175**	**-.041828**	**.0030303**	**.6658966**	**5.500607**	**.0101933**
Stddev	.033397	.004453	.001126	.0002369	.0138342	.012061	.0018377
%RSD	.3394415	.2355750	2.691250	7.819112	2.077526	.2192693	18.02875
#1	9.801349	1.885771	-.042527	.0031768	.6504693	5.492613	.0095052
#2	9.850253	1.894675	-.042428	.0031571	.6700211	5.494728	.0087989
#3	9.865203	1.890079	-.040530	.0027569	.6771994	5.514480	.0122757

Sample Name: O3653-11 Acquired: 07/19/2023 18:28:27 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP21 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.456924	.0263644	-.101776
Stddev	.011688	.0010960	.001291
%RSD	.8022685	4.157021	1.268530
#1	1.444125	.0256058	-.100311
#2	1.459615	.0258665	-.102265
#3	1.467032	.0276210	-.102750

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1441.800	1924.118	48769.80	8719.776	1856.825
Stddev	3.493	9.883	95.90	19.397	10.335
%RSD	.2422626	.5136178	.1966392	.2224479	.5565732
#1	1441.384	1930.846	48672.28	8740.219	1864.875
#2	1445.482	1928.736	48773.14	8717.480	1860.429
#3	1438.534	1912.772	48863.99	8701.630	1845.171

Sample Name: CCV06 Acquired: 07/19/2023 18:39:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20742 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.048194**	**4.989052**	**4.825206**	**5.047149**	**4.971475**	**9.730508**	**10.27984**
Stddev	.023235	.012133	.007630	.015268	.015674	.038454	.00096
%RSD	.4602562	.2431984	.1581379	.3025060	.3152807	.3951930	.0093126
#1	5.058783	4.985354	4.822867	5.064602	4.974960	9.729315	10.28077
#2	5.064247	5.002604	4.833732	5.036266	4.985112	9.692664	10.27886
#3	5.021551	4.979198	4.819019	5.040579	4.954351	9.769545	10.27987

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2345648**	**2.363440**	**23.72537**	**.9781180**	**2.411949**	**1.252658**	**4.726121**
Stddev	.0012670	.003772	.13043	.0131096	.005982	.010461	.019227
%RSD	.5401302	.1596102	.5497513	1.340286	.2479979	.8351054	.4068146
#1	.2356535	2.360788	23.58950	.9922626	2.411374	1.260827	4.719877
#2	.2348668	2.367758	23.73704	.9757159	2.418197	1.240868	4.710793
#3	.2331741	2.361773	23.84958	.9663757	2.406276	1.256279	4.747694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.423294**	**22.94533**	**2.417535**	**1.265212**	**24.33094**	**2.409687**	**2.527906**
Stddev	.015843	.17441	.004032	.008489	.06031	.008172	.030059
%RSD	.6537705	.7601214	.1667745	.6709833	.2478799	.3391188	1.189097
#1	2.405054	22.78923	2.420536	1.274949	24.39331	2.403494	2.560125
#2	2.431200	22.91316	2.419117	1.261322	24.27292	2.406617	2.522978
#3	2.433628	23.13358	2.412952	1.259364	24.32659	2.418949	2.500615

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.70064**	**5.265730**	**4.784880**	**4.903506**	**4.760219**	**4.863469**	**4.704367**
Stddev	.18553	.014512	.029540	.009692	.029338	.016427	.011079
%RSD	.7511163	.2755929	.6173553	.1976588	.6163124	.3377695	.2355010
#1	24.90297	5.282486	4.818828	4.903088	4.744470	4.881466	4.702758
#2	24.53850	5.257497	4.770783	4.913400	4.794068	4.849280	4.716162
#3	24.66043	5.257206	4.765030	4.894029	4.742119	4.859662	4.694180

Sample Name: CCV06 Acquired: 07/19/2023 18:39:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20742 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.880572**	**5.132666**	**4.679705**
Stddev	.021127	.013755	.085658
%RSD	.4328721	.2679917	1.830425
#1	4.860464	5.124179	4.582562
#2	4.878664	5.148536	4.744395
#3	4.902588	5.125282	4.712158

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1247.103**	**1695.572**	**42658.11**	**7579.663**	**1741.417**
Stddev	12.912	5.550	296.99	19.237	4.741
%RSD	1.035325	.3273305	.6962149	.2537936	.2722263
#1	1232.282	1693.675	42315.96	7557.898	1739.420
#2	1253.118	1691.219	42809.11	7586.700	1738.001
#3	1255.911	1701.822	42849.26	7594.390	1746.829

Sample Name: CCB06 Acquired: 07/19/2023 18:43:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20742 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005052**	**.0011706**	**-.002472**	**.0022887**	**-.000174**	**.0139763**	**-.000421**
Stddev	.0008428	.0026980	.001546	.0016726	.003190	.0055131	.000288
%RSD	166.8488	230.4863	62.52000	73.07970	1838.232	39.44578	68.39562
#1	.0000427	.0006230	-.000711	.0028895	-.001053	.0116963	-.000145
#2	.0014780	.0041003	-.003601	.0003987	.003363	.0202637	-.000719
#3	-.000005	-.001212	-.003105	.0035780	-.002831	.0099691	-.000398

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000154**	**.0000256**	**.0112636**	**-.000392**	**.0002866**	**.0002766**	**.0037429**
Stddev	.0000389	.0000524	.0049827	.000204	.0001385	.0017003	.0083627
%RSD	251.9806	204.5887	44.23749	52.01821	48.33001	614.6814	223.4298
#1	.0000280	.0000093	.0132030	-.000584	.0002642	.0021627	.0121953
#2	.0000466	-.000017	.0149851	-.000178	.0001606	-.000194	.0035604
#3	-.000028	.000084	.0056028	-.000414	.0004349	-.001139	-.004527

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000319**	**.0157968**	**-.000011**	**.0006785**	**.1108794**	**.0011372**	**.0002428**
Stddev	.000532	.0125159	.000261	.0003407	.1229051	.0020974	.0003238
%RSD	166.8615	79.23097	2277.994	50.20671	110.8457	184.4326	133.3444
#1	-.000730	.0300448	-.000062	.0007952	.0780713	.0001816	.0000112
#2	-.000510	.0065768	.000271	.0002949	.2468593	.0035422	.0001045
#3	.000283	.0107687	-.000243	.0009456	.0077077	-.000312	.0006129

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006507**	**-.003365**	**.0039108**	**.0016244**	**-.006394**	**.0005525**	**.0030131**
Stddev	.022030	.004554	.0007553	.0006432	.001861	.0017799	.0013348
%RSD	338.5442	135.3412	19.31247	39.59515	29.11119	322.1163	44.29813
#1	.018530	.000743	.0041807	.0021724	-.006058	.0025460	.0026033
#2	-.015133	-.002576	.0044941	.0009163	-.008400	-.000011	.0045048
#3	-.022919	-.008262	.0030577	.0017845	-.004723	-.000877	.0019314

Sample Name: CCB06 Acquired: 07/19/2023 18:43:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20742 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000371	-.000831	.0002311
Stddev	.000678	.001767	.0000318
%RSD	182.6050	212.6772	13.77717
#1	.000258	-.000942	.0002605
#2	-.001089	-.002540	.0001973
#3	-.000283	.000989	.0002356

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1312.054	1759.553	44463.65	7640.290	1867.341
Stddev	10.522	7.057	303.61	33.489	7.882
%RSD	.8019619	.4010512	.6828169	.4383169	.4221131
#1	1301.128	1753.036	44209.96	7608.840	1862.502
#2	1312.912	1767.048	44380.96	7636.530	1876.437
#3	1322.120	1758.575	44800.03	7675.500	1863.085

Sample Name: O3653-21 Acquired: 07/19/2023 18:47:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP22 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0729880**	**.0094115**	**.1222919**	**-.006626**	**.0052316**	**116.1186**	**.2970854**
Stddev	.0008777	.0031898	.0008237	.008111	.0006215	1.1065	.0027433
%RSD	1.202543	33.89279	.6735379	122.4023	11.87903	.9529199	.9234031
#1	.0732768	.0104639	.1221072	-.006754	.0045739	114.8915	.2941829
#2	.0736850	.0058285	.1215763	-.014673	.0058091	116.4238	.2974377
#3	.0720023	.0119422	.1231923	.001547	.0053119	117.0404	.2996355

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051592**	**.0019559**	**9.657205**	**.2757897**	**.0222322**	**.0639521**	**112.6076**
Stddev	.0000763	.0000173	.086580	.0010717	.0002530	.0005820	1.1988
%RSD	1.478357	.8832205	.8965361	.3886013	1.138167	.9100696	1.064602
#1	.0050898	.0019759	9.567595	.2745691	.0223833	.0632935	111.2373
#2	.0052408	.0019459	9.663622	.2765767	.0223733	.0643972	113.1226
#3	.0051470	.0019460	9.740399	.2762232	.0219401	.0641656	113.4628

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1815342**	**6.710666**	**.0602331**	**-.002783**	**1.522814**	**.4464697**	**.1435465**
Stddev	.0020223	.089412	.0003811	.000562	.061739	.0049058	.0001638
%RSD	1.114012	1.332383	.6327599	20.17519	4.054265	1.098799	.1141053
#1	.1793656	6.608846	.0603197	-.002823	1.483099	.4421023	.1435177
#2	.1818685	6.746776	.0598161	-.002203	1.491401	.4455291	.1437227
#3	.1833685	6.776375	.0605635	-.003324	1.593943	.4517777	.1433989

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.829966**	**1.313980**	**-.053681**	**.0058740**	**2.834024**	**6.474566**	**.0093385**
Stddev	.053770	.001986	.002020	.0005018	.001934	.003441	.0018666
%RSD	.6867202	.1511224	3.762277	8.543415	.0682432	.0531474	19.98832
#1	7.770161	1.315515	-.056010	.0064443	2.835110	6.472733	.0081272
#2	7.845422	1.311738	-.052429	.0055000	2.831791	6.472430	.0114882
#3	7.874316	1.314688	-.052603	.0056777	2.835170	6.478536	.0084003

Sample Name: O3653-21 Acquired: 07/19/2023 18:47:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP22 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7832304	.0394840	-.017183
Stddev	.0123177	.0006570	.000035
%RSD	1.572678	1.664006	.2053967
#1	.7695729	.0387254	-.017165
#2	.7934986	.0398548	-.017224
#3	.7866197	.0398719	-.017161

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.058	1954.920	49135.08	8706.842	1854.195
Stddev	4.216	4.639	356.07	49.330	.982
%RSD	.2872027	.2373151	.7246713	.5665699	.0529604
#1	1471.079	1958.372	49477.65	8719.918	1855.296
#2	1469.854	1956.742	49160.69	8748.317	1853.880
#3	1463.241	1949.647	48766.89	8652.291	1853.410

Sample Name: O3654-01 Acquired: 07/19/2023 18:51:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0268554**	**.0062837**	**.2165300**	**-.008253**	**.0029501**	**91.81347**	**.2740118**
Stddev	.0019339	.0007084	.0016030	.011679	.0012647	1.29164	.0026981
%RSD	7.201325	11.27342	.7403292	141.5070	42.87053	1.406809	.9846752
#1	.0289740	.0058691	.2147312	-.018292	.0014904	90.37988	.2713177
#2	.0264073	.0058802	.2170510	.004565	.0037171	92.17393	.2740037
#3	.0251847	.0071016	.2178077	-.011033	.0036429	92.88658	.2767139

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061910**	**.0025444**	**6.647622**	**.1574422**	**.0468109**	**.1587003**	**95.48199**
Stddev	.0000155	.0000627	.046418	.0006413	.0003178	.0008770	1.21027
%RSD	.2502127	2.462153	.6982693	.4072893	.6788933	.5526307	1.267533
#1	.0061976	.0026155	6.613589	.1581821	.0469073	.1590348	94.14904
#2	.0062021	.0025202	6.628778	.1570472	.0464561	.1577052	95.78492
#3	.0061733	.0024975	6.700499	.1570973	.0470694	.1593608	96.51202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5620096**	**8.317023**	**.0872442**	**-.002047**	**1.342950**	**.3736035**	**.6121711**
Stddev	.0062403	.049988	.0004791	.000222	.084894	.0074727	.0011277
%RSD	1.110346	.6010331	.5491489	10.84521	6.321475	2.000165	.1842184
#1	.5548679	8.259309	.0877959	-.002297	1.428313	.3656402	.6122431
#2	.5647515	8.346662	.0869335	-.001873	1.342005	.3747076	.6132610
#3	.5664095	8.345098	.0870031	-.001970	1.258533	.3804627	.6110090

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.053542**	**2.878089**	**-.039917**	**.0014042**	**.7292699**	**6.890234**	**.0134418**
Stddev	.064980	.011330	.001886	.0001120	.0076044	.032095	.0008785
%RSD	1.073425	.3936672	4.724038	7.972214	1.042737	.4657988	6.535563
#1	5.980275	2.865119	-.041041	.0015169	.7312836	6.855653	.0124304
#2	6.104191	2.883085	-.037740	.0012930	.7356647	6.895985	.0138794
#3	6.076159	2.886061	-.040969	.0014027	.7208613	6.919065	.0140155

Sample Name: O3654-01 Acquired: 07/19/2023 18:51:13 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.311073**	**.0368309**	**-.055593**
Stddev	.013948	.0006264	.000543
%RSD	1.063826	1.700852	.9773365
#1	1.296991	.0362028	-.055217
#2	1.311346	.0368343	-.055348
#3	1.324882	.0374556	-.056216

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1572.582**	**2101.074**	**52949.62**	**9413.128**	**1850.881**
Stddev	7.944	6.104	63.10	19.260	1.044
%RSD	.5051665	.2905357	.1191658	.2046064	.0564130
#1	1581.725	2108.119	53017.80	9434.300	1851.533
#2	1568.651	2097.760	52937.79	9396.647	1851.433
#3	1567.369	2097.344	52893.28	9408.436	1849.677

Sample Name: O3654-01DUP Acquired: 07/19/2023 18:55:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016DUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254630**	**.0064424**	**.2136015**	**-.007701**	**.0049433**	**91.99677**	**.2737388**
Stddev	.0012572	.0016939	.0027523	.005834	.0004556	1.00783	.0014189
%RSD	4.937404	26.29319	1.288539	75.74903	9.216643	1.095506	.5183475
#1	.0262375	.0046183	.2129415	-.008234	.0047891	91.05925	.2728605
#2	.0261390	.0079658	.2166238	-.013250	.0054560	91.86843	.2729802
#3	.0240124	.0067432	.2112391	-.001619	.0045848	93.06262	.2753758

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062364**	**.0022054**	**6.608690**	**.1564913**	**.0463809**	**.1559437**	**95.71586**
Stddev	.0000798	.0001110	.040650	.0007976	.0000859	.0011906	.76603
%RSD	1.279567	5.032411	.6150997	.5096821	.1851810	.7635066	.8003162
#1	.0061515	.0021749	6.577201	.1558539	.0462976	.1554858	94.85426
#2	.0062479	.0023285	6.594288	.1573857	.0464691	.1550500	95.97337
#3	.0063099	.0021129	6.654580	.1562342	.0463759	.1572953	96.31996

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5636520**	**8.330249**	**.0866174**	**-.001673**	**1.302834**	**.3717927**	**.6039553**
Stddev	.0041483	.071812	.0006003	.000535	.023482	.0028603	.0014459
%RSD	.7359633	.8620592	.6930300	31.98613	1.802374	.7693340	.2394063
#1	.5588655	8.296410	.0859313	-.001234	1.327729	.3687618	.6045606
#2	.5662042	8.281608	.0868751	-.002270	1.299693	.3721717	.6023051
#3	.5658862	8.412728	.0870458	-.001516	1.281082	.3744447	.6050002

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.037955**	**2.843857**	**-.036969**	**.0010161**	**.7258232**	**6.764103**	**.0148687**
Stddev	.099587	.010384	.002365	.0000827	.0070823	.051528	.0021877
%RSD	1.649356	.3651227	6.398225	8.142622	.9757539	.7617812	14.71328
#1	5.928123	2.833155	-.038642	.0010901	.7208176	6.820753	.0173947
#2	6.063368	2.844525	-.038003	.0009268	.7339265	6.751532	.0135946
#3	6.122373	2.853890	-.034263	.0010313	.7227254	6.720025	.0136167

Sample Name: O3654-01DUP Acquired: 07/19/2023 18:55:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016DUP Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.315262	.0362755	-.055599
Stddev	.015430	.0005148	.000553
%RSD	1.173176	1.419219	.9948057
#1	1.300742	.0360373	-.055012
#2	1.313579	.0359230	-.056111
#3	1.331465	.0368663	-.055674

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.186	2109.838	53331.98	9389.367	1861.627
Stddev	5.149	2.235	285.37	27.304	1.585
%RSD	.3233624	.1059446	.5350854	.2908010	.0851368
#1	1596.836	2111.312	53193.62	9377.113	1863.148
#2	1586.653	2107.266	53142.16	9370.336	1859.985
#3	1593.069	2110.935	53660.15	9420.651	1861.748

Sample Name: O3654-01LX5 Acquired: 07/19/2023 18:59:08 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096746**	**.0023374**	**.0417363**	**-.001584**	**-.001058**	**20.69021**	**.0616090**
Stddev	.0036431	.0013589	.0015934	.002553	.002465	.20845	.0003220
%RSD	37.65603	58.13685	3.817652	161.1918	232.8902	1.007471	.5226481
#1	.0114758	.0038076	.0417089	-.004462	.001193	20.56495	.0612999
#2	.0054817	.0020775	.0433431	-.000702	-.000675	20.57485	.0615845
#3	.0120661	.0011273	.0401568	.000411	-.003692	20.93084	.0619425

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013598**	**.0003792**	**1.509182**	**.0357018**	**.0094345**	**.0387599**	**21.91730**
Stddev	.0001188	.0000483	.017264	.0002760	.0002078	.0026730	.28251
%RSD	8.739504	12.74843	1.143964	.7731056	2.202671	6.896226	1.289002
#1	.0012683	.0003698	1.489302	.0354364	.0092032	.0399023	21.69398
#2	.0013169	.0004315	1.520404	.0359874	.0094948	.0357055	21.82303
#3	.0014941	.0003363	1.517841	.0356817	.0096054	.0406718	22.23490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1273752**	**1.885164**	**.0174206**	**-.000302**	**.3474576**	**.0840232**	**.1361588**
Stddev	.0020950	.009932	.0003113	.000368	.1364024	.0008755	.0008927
%RSD	1.644725	.5268295	1.787072	121.8732	39.25729	1.041927	.6556296
#1	.1253932	1.874428	.0177572	-.000625	.4862203	.0830571	.1352602
#2	.1271651	1.887038	.0173616	.000098	.3426078	.0847641	.1370454
#3	.1295673	1.894024	.0171430	-.000378	.2135448	.0842482	.1361709

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.342075**	**.5457846**	**-.010002**	**.0000672**	**.1314968**	**1.569915**	**.0034224**
Stddev	.101168	.0070956	.001059	.0004274	.0078089	.022507	.0014394
%RSD	7.538171	1.300068	10.59225	635.7654	5.938455	1.433659	42.05690
#1	1.278532	.5478894	-.010745	.0005513	.1275536	1.550637	.0050842
#2	1.288954	.5378747	-.010473	-.000092	.1264456	1.594648	.0025642
#3	1.458738	.5515895	-.008789	-.000258	.1404909	1.564459	.0026190

Sample Name: O3654-01LX5 Acquired: 07/19/2023 18:59:08 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2982046	.0074596	-.012741
Stddev	.0061047	.0012029	.000249
%RSD	2.047165	16.12597	1.955373
#1	.2986668	.0062332	-.012524
#2	.2918818	.0086376	-.012687
#3	.3040650	.0075081	-.013013

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1351.667	1813.355	45863.83	7998.808	1857.390
Stddev	3.410	4.783	188.02	33.431	4.357
%RSD	.2522732	.2637796	.4099530	.4179505	.2345504
#1	1348.881	1807.939	45655.94	8014.989	1852.370
#2	1355.469	1815.125	46021.98	8021.071	1860.175
#3	1350.649	1817.001	45913.56	7960.365	1859.625

Sample Name: O3654-01MS Acquired: 07/19/2023 19:03:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6571325**	**1.820881**	**1.115567**	**1.537814**	**.5415195**	**97.19726**	**.4301036**
Stddev	.0048023	.007151	.001803	.006382	.0041037	.23020	.0025641
%RSD	.7307945	.3927111	.1615914	.4150282	.7578194	.2368387	.5961612
#1	.6613317	1.812651	1.114591	1.536530	.5367990	97.07584	.4271996
#2	.6518965	1.824424	1.117647	1.544741	.5435217	97.05319	.4310556
#3	.6581694	1.825569	1.114463	1.532171	.5442379	97.46275	.4320555

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1498853**	**.1857961**	**6.798091**	**.4559602**	**.2323247**	**.3792166**	**104.7458**
Stddev	.0003652	.0001129	.020315	.0003746	.0001781	.0028891	.2100
%RSD	.2436797	.0607643	.2988337	.0821658	.0766514	.7618623	.2005236
#1	.1502873	.1856763	6.782480	.4560587	.2321930	.3759853	104.6168
#2	.1497949	.1858115	6.821059	.4555461	.2322537	.3801139	104.6325
#3	.1495738	.1859006	6.790733	.4562757	.2325273	.3815506	104.9882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6983774**	**10.42125**	**.5534579**	**.0541983**	**3.676327**	**.6269003**	**.7783274**
Stddev	.0048749	.01665	.0007996	.0003068	.040018	.0019845	.0021853
%RSD	.6980288	.1598164	.1444779	.5660011	1.088544	.3165504	.2807661
#1	.6927923	10.43972	.5525719	.0538571	3.630876	.6248167	.7807406
#2	.7005620	10.41666	.5536758	.0542865	3.691829	.6287679	.7764823
#3	.7017778	10.40737	.5541259	.0544513	3.706275	.6271162	.7777594

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.86728**	**8.278348**	**.1673031**	**.3014790**	**.6914357**	**6.444217**	**.6655657**
Stddev	.10720	.011401	.0007537	.0011368	.0051596	.035131	.0040160
%RSD	.7730134	.1377167	.4504741	.3770753	.7462202	.5451622	.6033923
#1	13.98506	8.276813	.1669113	.3004077	.6906492	6.484173	.6614914
#2	13.84135	8.267792	.1668261	.3013578	.6867144	6.418169	.6695207
#3	13.77543	8.290438	.1681719	.3026716	.6969434	6.430309	.6656850

Sample Name: O3654-01MS Acquired: 07/19/2023 19:03:11 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MS Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.584326	.1942316	.0730070
Stddev	.003370	.0017142	.0009595
%RSD	.2127056	.8825516	1.314278
#1	1.587429	.1923638	.0734489
#2	1.584808	.1945983	.0719062
#3	1.580741	.1957328	.0736659

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1687.292	2229.466	56536.26	9926.057	1842.061
Stddev	5.185	5.551	117.66	58.947	2.516
%RSD	.3073069	.2489712	.2081156	.5938657	.1366099
#1	1681.305	2230.129	56451.71	9858.883	1843.164
#2	1690.348	2234.655	56486.44	9969.159	1843.838
#3	1690.223	2223.613	56670.64	9950.130	1839.181

Sample Name: O3654-01MSD Acquired: 07/19/2023 19:07:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6509310**	**1.826813**	**1.114795**	**1.516556**	**.5329507**	**98.25839**	**.4296988**
Stddev	.0083067	.004345	.001711	.006861	.0013379	.80137	.0012483
%RSD	1.276128	.2378662	.1535092	.4524252	.2510324	.8155717	.2905058
#1	.6415015	1.823755	1.116683	1.524216	.5334889	97.33565	.4282590
#2	.6541245	1.824896	1.114354	1.514480	.5339356	98.65963	.4304781
#3	.6571670	1.831787	1.113347	1.510972	.5314275	98.77987	.4303593

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1472748**	**.1861365**	**6.551278**	**.4528084**	**.2353521**	**.3776972**	**104.5440**
Stddev	.0002907	.0003437	.018997	.0009448	.0001813	.0036816	.8704
%RSD	.1974101	.1846682	.2899810	.2086455	.0770382	.9747443	.8326058
#1	.1475472	.1858305	6.535763	.4538166	.2355601	.3735637	103.5697
#2	.1473085	.1860707	6.545605	.4519434	.2352275	.3806240	104.8170
#3	.1469687	.1865084	6.572465	.4526652	.2352687	.3789039	105.2451

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6952438**	**10.66602**	**.5560184**	**.0534244**	**3.566776**	**.6291192**	**.7608633**
Stddev	.0035214	.08038	.0017478	.0002796	.073894	.0089140	.0020318
%RSD	.5065020	.7536400	.3143470	.5234006	2.071718	1.416900	.2670379
#1	.6926367	10.57904	.5540305	.0531876	3.533396	.6224131	.7632088
#2	.6938449	10.68145	.5573142	.0533527	3.651470	.6257098	.7597351
#3	.6992497	10.73758	.5567106	.0537329	3.515461	.6392347	.7596459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.02357**	**8.264412**	**.1637994**	**.2951603**	**.6801293**	**6.451951**	**.6617227**
Stddev	.07099	.013531	.0020659	.0011089	.0106490	.005397	.0017796
%RSD	.5062247	.1637282	1.261214	.3756966	1.565737	.0836511	.2689292
#1	13.94763	8.248820	.1625319	.2940726	.6843352	6.446816	.6613987
#2	14.03483	8.271336	.1626832	.2951190	.6680196	6.451461	.6636420
#3	14.08826	8.273079	.1661833	.2962893	.6880331	6.457577	.6601274

Sample Name: O3654-01MSD Acquired: 07/19/2023 19:07:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MSD Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.665076	.1945828	.0688513
Stddev	.012616	.0014572	.0009387
%RSD	.7576797	.7488965	1.363363
#1	1.650645	.1933583	.0677889
#2	1.674016	.1941956	.0691961
#3	1.670566	.1961945	.0695688

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1695.191	2262.373	57015.90	10046.39	1833.504
Stddev	4.778	7.580	191.95	29.72	3.092
%RSD	.2818645	.3350420	.3366631	.2958068	.1686531
#1	1694.841	2262.508	56975.31	10012.73	1834.755
#2	1700.135	2269.884	57224.91	10069.02	1835.775
#3	1690.598	2254.726	56847.50	10057.41	1829.983

Sample Name: O3654-01A Acquired: 07/19/2023 19:10:55 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12194 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7741077**	**2.047677**	**1.227425**	**1.842754**	**.6772559**	**92.47406**	**.4451095**
Stddev	.0035883	.009584	.002842	.012316	.0040437	.89215	.0030616
%RSD	.4635417	.4680535	.2315048	.6683230	.5970790	.9647613	.6878210
#1	.7732923	2.057596	1.230668	1.835713	.6740904	91.44456	.4415933
#2	.7709972	2.046969	1.226238	1.835574	.6818113	92.95659	.4471843
#3	.7780335	2.038466	1.225369	1.856974	.6758659	93.02102	.4465510

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1745145**	**.2036157**	**7.386324**	**.4934416**	**.2436157**	**.4198876**	**97.20912**
Stddev	.0005812	.0002189	.055534	.0003665	.0009084	.0020728	.96637
%RSD	.3330170	.1075011	.7518447	.0742701	.3728615	.4936589	.9941191
#1	.1739796	.2037857	7.324667	.4938556	.2444768	.4178632	96.09666
#2	.1744310	.2033688	7.401893	.4931585	.2426665	.4197939	97.68984
#3	.1751329	.2036927	7.432412	.4933108	.2437039	.4220057	97.84086

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7267985**	**9.844626**	**.5807936**	**.0641252**	**3.917896**	**.6248594**	**.7687298**
Stddev	.0073253	.087085	.0012193	.0003878	.038690	.0049333	.0055758
%RSD	1.007886	.8845975	.2099392	.6047077	.9875249	.7895098	.7253247
#1	.7184647	9.748313	.5815271	.0636949	3.885194	.6191970	.7629256
#2	.7322187	9.867747	.5793861	.0642332	3.907888	.6282298	.7692188
#3	.7297120	9.917818	.5814677	.0644476	3.960608	.6271514	.7740449

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.48116**	**9.176895**	**.2113499**	**.3407196**	**.7062913**	**7.370926**	**.6908187**
Stddev	.05052	.016586	.0029503	.0003537	.0041029	.041310	.0013288
%RSD	.3488860	.1807352	1.395937	.1038183	.5809103	.5604452	.1923525
#1	14.43288	9.178667	.2081224	.3403348	.7069598	7.355509	.6911683
#2	14.47692	9.159494	.2120196	.3407934	.7018952	7.417727	.6893500
#3	14.53366	9.192523	.2139079	.3410306	.7100189	7.339542	.6919377

Sample Name: O3654-01A Acquired: 07/19/2023 19:10:55 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12194 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.466508	.2165880	.1040429
Stddev	.016517	.0016232	.0011457
%RSD	1.126255	.7494260	1.101210
#1	1.447730	.2152650	.1027310
#2	1.478783	.2183992	.1048469
#3	1.473012	.2160998	.1045508

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1569.618	2082.777	52796.50	9258.009	1838.017
Stddev	7.950	1.625	29.45	12.893	1.661
%RSD	.5065100	.0780282	.0557721	.1392666	.0903803
#1	1578.798	2080.903	52825.46	9257.664	1837.238
#2	1564.941	2083.632	52766.59	9245.292	1839.925
#3	1565.116	2083.796	52797.45	9271.072	1836.888

Sample Name: O3655-01 Acquired: 07/19/2023 19:14:46 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: MARION-COMP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0377508**	**-.002886**	**.8310201**	**-.035813**	**.0117137**	**97.96179**	**1.160226**
Stddev	.0029153	.004297	.0043120	.003662	.0020069	.29686	.001793
%RSD	7.722464	148.9211	.5188790	10.22601	17.13333	.3030337	.1545578
#1	.0407514	-.004950	.8338001	-.038362	.0131207	98.21758	1.160066
#2	.0375721	-.005761	.8260528	-.037460	.0094155	97.63628	1.158519
#3	.0349290	.002054	.8332073	-.031616	.0126049	98.03152	1.162095

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098401**	**.0089397**	**162.9763**	**.1947037**	**.1258531**	**.4135867**	**243.2918**
Stddev	.0001283	.0002778	.5043	.0001389	.0001685	.0040044	.1776
%RSD	1.303731	3.106862	.3094426	.0713478	.1339090	.9682209	.0730075
#1	.0097515	.0086958	162.4885	.1945436	.1256957	.4162624	243.0894
#2	.0099872	.0088814	162.9447	.1947749	.1260309	.4155148	243.4219
#3	.0097815	.0092420	163.4956	.1947925	.1258325	.4089830	243.3641

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.287200**	**60.23949**	**.2693309**	**-.005710**	**5.919817**	**.2799915**	**.9866419**
Stddev	.018571	.10146	.0007030	.000508	.206252	.0031038	.0029049
%RSD	.2953813	.1684284	.2609998	8.898836	3.484101	1.108544	.2944222
#1	6.265880	60.14936	.2687275	-.005991	5.972346	.2813867	.9856119
#2	6.295873	60.34937	.2701028	-.006016	6.094725	.2821529	.9843924
#3	6.299849	60.21973	.2691625	-.005124	5.692379	.2764349	.9899215

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.93528**	**8.942833**	**-.091945**	**.1066831**	**9.979069**	**5.856313**	**.1006806**
Stddev	.12531	.013295	.004008	.0000685	.014249	.041005	.0036564
%RSD	.6617593	.1486618	4.358705	.0642044	.1427902	.7001778	3.631687
#1	19.05872	8.940593	-.096361	.1066772	9.992083	5.902868	.0970409
#2	18.80819	8.930801	-.090937	.1067543	9.963843	5.840511	.1006474
#3	18.93892	8.957106	-.088538	.1066177	9.981281	5.825560	.1043535

Sample Name: O3655-01 Acquired: 07/19/2023 19:14:46 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: MARION-COMP Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.166659**	**.1468880**	**.0526703**
Stddev	.013422	.0005859	.0014022
%RSD	.4238474	.3988865	2.662136
#1	3.182076	.1474502	.0535894
#2	3.157578	.1469329	.0510565
#3	3.160322	.1462809	.0533652

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1574.893**	**2097.190**	**53786.66**	**9653.334**	**1699.039**
Stddev	14.993	3.522	130.24	11.527	.677
%RSD	.9520161	.1679257	.2421409	.1194093	.0398290
#1	1584.963	2093.124	53929.21	9644.174	1698.370
#2	1582.053	2099.173	53673.88	9666.277	1699.723
#3	1557.662	2099.273	53756.88	9649.550	1699.024

Sample Name: O3657-01 Acquired: 07/19/2023 19:18:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BERGENSWITCH Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125617**	**.0002127**	**.1501708**	**-.019086**	**.0043628**	**72.97141**
Stddev	.0089936	.0042393	.0021353	.001614	.0010610	1.22076
%RSD	71.59517	1993.091	1.421944	8.454166	24.32033	1.672926
#1	.0036068	-.001694	.1506998	-.020456	.0031535	71.56795
#2	.0215935	-.002739	.1519920	-.019494	.0051376	73.78699
#3	.0124849	.005070	.1478207	-.017307	.0047972	73.55930

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8007397**	**.0073584**	**.0046716**	**150.5578**	**.1312954**	**.0817216**
Stddev	.0116460	.0001607	.0002521	1.9640	.0002104	.0006054
%RSD	1.454407	2.183504	5.397476	1.304466	.1602444	.7408177
#1	.7872922	.0071871	.0049320	148.3028	.1313624	.0823530
#2	.8075027	.0075057	.0046542	151.4762	.1314641	.0811461
#3	.8074244	.0073825	.0044286	151.8943	.1310596	.0816655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1519020**	**158.2282**	**4.352673**	**49.24876**	**.1685093**	**-.004422**
Stddev	.0072633	2.3160	.060805	.77928	.0007852	.000140
%RSD	4.781549	1.463722	1.396959	1.582327	.4659506	3.159693
#1	.1437657	155.5870	4.284887	48.35394	.1683405	-.004261
#2	.1542081	159.1860	4.370721	49.61405	.1678222	-.004512
#3	.1577324	159.9117	4.402411	49.77829	.1693651	-.004492

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.449278**	**.2010800**	**.4396819**	**17.58107**	**7.668661**	**-.046561**
Stddev	.026413	.0047021	.0012492	.28925	.003441	.003335
%RSD	1.078404	2.338424	.2841057	1.645233	.0448736	7.162239
#1	2.478564	.1963858	.4393037	17.25488	7.667904	-.049178
#2	2.427259	.2057899	.4386656	17.80636	7.665661	-.047699
#3	2.442011	.2010641	.4410765	17.68195	7.672417	-.042806

Sample Name: O3657-01 Acquired: 07/19/2023 19:18:39 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BERGENSWITCH Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042063	1.212591	F 11.39538	.0167960	2.916227	.1110609
Stddev	.0006178	.006887	.08401	.0012675	.047163	.0014284
%RSD	14.68834	.5679907	.7372281	7.546215	1.617264	1.286167
#1	.0035129	1.210764	11.32945	.0171938	2.862141	.1099279
#2	.0044075	1.206801	11.48997	.0178169	2.948780	.1105892
#3	.0046985	1.220208	11.36672	.0153774	2.937761	.1126655

Elem	Sr4077
Units	ppm
Avg	.0586089
Stddev	.0021729
%RSD	3.707533
#1	.0564355
#2	.0607814
#3	.0586098

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1523.068	2029.076	51780.17	9390.105	1725.498
Stddev	8.921	6.696	410.92	55.518	5.151
%RSD	.5857383	.3300060	.7935804	.5912421	.2985072
#1	1513.445	2034.542	51328.84	9447.395	1729.276
#2	1531.063	2031.079	52132.64	9336.547	1727.586
#3	1524.696	2021.607	51879.04	9386.374	1719.631

Sample Name: O3657-03 Acquired: 07/19/2023 19:22:35 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BERGENSWITCH Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0137624**	**.0005890**	**.1977228**	**-.023551**	**.0019062**	**72.65001**
Stddev	.0062060	.0045949	.0002916	.003753	.0008646	.87335
%RSD	45.09364	780.1216	.1474609	15.93649	45.35745	1.202133
#1	.0073698	-.004702	.1979515	-.019401	.0023374	71.64204
#2	.0197631	.003580	.1973945	-.024547	.0024704	73.18105
#3	.0141542	.002888	.1978223	-.026706	.0009108	73.12695

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7437066**	**.0070874**	**.0049494**	**186.4505**	**.1343568**	**.0824586**
Stddev	.0060497	.0000488	.0002044	1.6359	.0002680	.0006503
%RSD	.8134475	.6889749	4.129904	.8773847	.1994676	.7886675
#1	.7367219	.0070398	.0050564	184.5753	.1342799	.0831274
#2	.7472907	.0071373	.0050780	187.1913	.1341356	.0818284
#3	.7471073	.0070849	.0047137	187.5850	.1346548	.0824201

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1830583**	**163.6560**	**4.280606**	**64.22899**	**.1632260**	**-.004166**
Stddev	.0055132	1.6768	.037713	.69443	.0004479	.000441
%RSD	3.011720	1.024583	.8810086	1.081177	.2744074	10.58307
#1	.1769201	161.7326	4.237456	63.43231	.1627959	-.004674
#2	.1846653	164.4256	4.297107	64.54858	.1636898	-.003933
#3	.1875894	164.8100	4.307256	64.70609	.1631924	-.003891

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.055927**	**.2299985**	**.4478380**	**16.43759**	**8.611910**	**-.057309**
Stddev	.109388	.0044595	.0006675	.17147	.009846	.002380
%RSD	3.579545	1.938942	.1490557	1.043163	.1143310	4.153429
#1	3.029242	.2248903	.4471947	16.24905	8.618491	-.059900
#2	2.962350	.2319887	.4485273	16.58423	8.600590	-.056809
#3	3.176188	.2331163	.4477921	16.47948	8.616647	-.055219

Sample Name: O3657-03 Acquired: 07/19/2023 19:22:35 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BERGENSWITCH Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088406	1.996336	F 12.98694	.0365882	3.166145	.0957936
Stddev	.0004798	.010729	.06749	.0010793	.039720	.0017610
%RSD	5.426735	.5374343	.5196958	2.949768	1.254535	1.838378
#1	.0093945	1.993448	12.95574	.0367409	3.120579	.0953293
#2	.0085576	1.987346	12.94069	.0375829	3.193459	.0977403
#3	.0085697	2.008213	13.06439	.0354407	3.184395	.0943112

Elem	Sr4077
Units	ppm
Avg	.0688656
Stddev	.0018940
%RSD	2.750262
#1	.0669258
#2	.0707102
#3	.0689609

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1531.311	2037.114	52297.42	9384.866	1712.034
Stddev	5.274	3.484	207.19	29.632	1.246
%RSD	.3443815	.1710095	.3961855	.3157423	.0727520
#1	1526.739	2034.322	52244.35	9418.416	1711.832
#2	1530.114	2041.018	52121.93	9362.273	1710.902
#3	1537.081	2036.002	52525.99	9373.910	1713.368

Sample Name: CCV07 Acquired: 07/19/2023 19:26:31 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20747 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.031552**	**4.963299**	**4.838184**	**5.028492**	**4.950590**	**9.565107**	**10.07057**
Stddev	.007675	.014610	.019624	.026586	.013260	.059493	.02907
%RSD	.1525377	.2943633	.4056035	.5287035	.2678416	.6219774	.2886943
#1	5.026946	4.946552	4.831427	5.000407	4.947030	9.548526	10.05210
#2	5.040412	4.973436	4.822831	5.031798	4.939474	9.515664	10.05553
#3	5.027299	4.969909	4.860293	5.053270	4.965266	9.631131	10.10408

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2328795**	**2.361225**	**23.49676**	**.9598023**	**2.406614**	**1.222716**	**4.664349**
Stddev	.0017225	.007258	.13612	.0035197	.006133	.006466	.027253
%RSD	.7396337	.3073689	.5793105	.3667128	.2548407	.5287855	.5842859
#1	.2344915	2.355071	23.39055	.9632828	2.405462	1.219065	4.641427
#2	.2310645	2.359376	23.44953	.9562447	2.401139	1.218902	4.657137
#3	.2330825	2.369229	23.65021	.9598794	2.413241	1.230181	4.694483

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.391423**	**22.79474**	**2.414481**	**1.244865**	**24.04468**	**2.375641**	**2.481783**
Stddev	.015446	.11481	.005237	.002611	.23956	.016947	.020244
%RSD	.6458834	.5036606	.2169111	.2097575	.9963062	.7133618	.8156905
#1	2.377044	22.71754	2.410805	1.247651	24.26072	2.377036	2.485937
#2	2.389476	22.74000	2.412160	1.244469	23.78705	2.358039	2.459785
#3	2.407751	22.92667	2.420478	1.242474	24.08627	2.391846	2.499628

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.26806**	**5.273257**	**4.733761**	**4.885559**	**4.761591**	**4.801412**	**4.722955**
Stddev	.12964	.006293	.035837	.006848	.009043	.016608	.017342
%RSD	.5341869	.1193364	.7570564	.1401599	.1899123	.3458902	.3671840
#1	24.31961	5.266422	4.765069	4.878560	4.761095	4.808510	4.714977
#2	24.12058	5.278810	4.694673	4.885873	4.752806	4.782435	4.711038
#3	24.36399	5.274539	4.741542	4.892244	4.770871	4.813291	4.742850

Sample Name: CCV07 Acquired: 07/19/2023 19:26:31 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20747 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.785330**	**5.044423**	**4.623187**
Stddev	.026073	.013433	.041123
%RSD	.5448550	.2662963	.8895031
#1	4.784329	5.028912	4.575982
#2	4.759772	5.052090	4.642328
#3	4.811889	5.052267	4.651250

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1284.648**	**1718.608**	**43688.04**	**7680.199**	**1762.173**
Stddev	9.912	2.816	214.16	46.512	3.784
%RSD	.7715897	.1638783	.4902084	.6056107	.2147543
#1	1277.925	1717.553	43470.55	7628.651	1760.550
#2	1296.032	1721.799	43694.85	7719.030	1766.498
#3	1279.988	1716.471	43898.72	7692.917	1759.470

Sample Name: CCB07 Acquired: 07/19/2023 19:30:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20747 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001893**	**.0016493**	**-.000546**	**.0027717**	**.0004878**	**.0065882**	**-.000501**
Stddev	.003094	.0010104	.000262	.0015852	.0012343	.0055091	.000200
%RSD	163.4040	61.26143	48.10128	57.19454	253.0561	83.62122	39.96639
#1	-.004376	.0015874	-.000288	.0015179	.0005753	.0101551	-.000632
#2	-.002877	.0026892	-.000537	.0022436	.0016759	.0093662	-.000270
#3	.001573	.0006713	-.000813	.0045536	-.000788	.0002431	-.000600

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000424**	**.0000021**	**.0140524**	**-.000213**	**.0002250**	**-.000239**	**.0015041**
Stddev	.0000304	.0000709	.0054312	.000106	.0003543	.001564	.0037207
%RSD	71.62835	3373.416	38.64959	49.67159	157.4738	653.0215	247.3737
#1	.0000721	-.000023	.0100821	-.000099	.0000209	-.000754	-.000176
#2	.0000438	.000082	.0118334	-.000308	.0006340	.001516	.005769
#3	.0000114	-.000053	.0202418	-.000231	.0000200	-.001481	-.001080

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002848**	**.0098310**	**-.000045**	**.0001264**	**-.129379**	**-.000209**	**.0000226**
Stddev	.0008043	.0033426	.000123	.0003378	.098781	.002091	.0005412
%RSD	282.3938	33.99988	273.6073	267.1994	76.35059	999.3416	2395.304
#1	-.000347	.0135587	.000055	.0004126	-.154309	-.002129	.0004484
#2	.000011	.0071007	-.000183	.0002128	-.213306	.002018	-.000586
#3	.001190	.0088337	-.000007	-.000246	-.020520	-.000517	.000206

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.065926**	**-.003100**	**.0036832**	**.0017142**	**-.010909**	**.0012477**	**.0029842**
Stddev	.005250	.003770	.0004831	.0005967	.002457	.0012087	.0008932
%RSD	7.963368	121.5890	13.11633	34.80700	22.52490	96.87471	29.93169
#1	-.062154	-.002067	.0040215	.0024011	-.008168	.0026423	.0040151
#2	-.063702	-.007279	.0038981	.0014177	-.012913	.0005986	.0024988
#3	-.071922	.000045	.0031299	.0013239	-.011647	.0005022	.0024389

Sample Name: CCB07 Acquired: 07/19/2023 19:30:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20747 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000076	-.000413	.0001336
Stddev	.001270	.000951	.0000379
%RSD	1669.797	230.3631	28.36973
#1	-.000851	-.001433	.0001271
#2	.001390	-.000257	.0000994
#3	-.000767	.000451	.0001743

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1308.650	1745.356	44309.99	7741.197	1860.569
Stddev	1.334	1.592	106.41	49.704	1.536
%RSD	.1019083	.0912378	.2401512	.6420668	.0825313
#1	1310.166	1743.537	44258.91	7788.330	1861.195
#2	1307.656	1746.031	44238.74	7689.270	1858.819
#3	1308.129	1746.501	44432.31	7745.990	1861.692

Sample Name: O3659-01 Acquired: 07/19/2023 19:34:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-2-071823 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038055**	**.0024080**	**.3435729**	**-.008258**	**.0021983**	**18.13210**	**.1552756**
Stddev	.0047159	.0011750	.0020339	.003902	.0001598	.24189	.0022987
%RSD	123.9225	48.79657	.5919939	47.25341	7.270504	1.334027	1.480365
#1	.0088378	.0033212	.3419927	-.004111	.0023753	17.88255	.1530546
#2	-.000512	.0028205	.3458677	-.008807	.0020646	18.14821	.1551275
#3	.003091	.0010824	.3428582	-.011858	.0021549	18.36552	.1576448

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019096**	**.0053064**	**7.223828**	**.0899242**	**.0109597**	**.0785119**	**87.98363**
Stddev	.0000885	.0001218	.121789	.0002380	.0003936	.0008367	1.32061
%RSD	4.636351	2.294382	1.685941	.2646719	3.591554	1.065727	1.500969
#1	.0019057	.0054454	7.108201	.0898803	.0110944	.0793762	86.70164
#2	.0018230	.0052548	7.212320	.0901812	.0105164	.0784538	87.90954
#3	.0020000	.0052189	7.350963	.0897113	.0112682	.0777057	89.33973

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4362563**	**3.901064**	**.0229609**	**-.000842**	**1.306595**	**.1029734**	**.2634769**
Stddev	.0067217	.075018	.0002959	.000322	.109111	.0015195	.0007367
%RSD	1.540768	1.923003	1.288837	38.27079	8.350770	1.475581	.2796190
#1	.4294730	3.848392	.0226193	-.001182	1.180638	.1012934	.2640752
#2	.4363811	3.867844	.0231412	-.000803	1.367086	.1042514	.2626540
#3	.4429147	3.986956	.0231220	-.000541	1.372061	.1033753	.2637016

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8698480**	**1.028169**	**-.048330**	**.0048331**	**4.643292**	**1.720126**	**.0131041**
Stddev	.0310838	.004243	.001515	.0003235	.004575	.022370	.0008295
%RSD	3.573473	.4126455	3.135281	6.693819	.0985225	1.300464	6.329993
#1	.8371841	1.033030	-.046757	.0051237	4.644060	1.718214	.0122102
#2	.8732957	1.026266	-.049781	.0048911	4.638382	1.698773	.0138490
#3	.8990642	1.025211	-.048451	.0044845	4.647434	1.743390	.0132530

Sample Name: O3659-01 Acquired: 07/19/2023 19:34:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-2-071823 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.381518**	**-.007605**	**-.049999**
Stddev	.027971	.000733	.000832
%RSD	1.174496	9.642642	1.664020
#1	2.350255	-.008392	-.049385
#2	2.390126	-.007480	-.049667
#3	2.404173	-.006942	-.050946

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1407.311**	**1870.739**	**47315.13**	**8284.482**	**1924.637**
Stddev	1.445	2.478	361.32	69.227	1.745
%RSD	.1026899	.1324640	.7636506	.8356223	.0906472
#1	1406.131	1869.071	47203.21	8360.393	1926.180
#2	1406.879	1869.561	47023.01	8268.218	1924.987
#3	1408.923	1873.587	47719.17	8224.835	1922.744

Sample Name: O3659-03 Acquired: 07/19/2023 19:38:32 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-3-071823 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083529**	**.0068157**	**.5979341**	**-.024129**	**.0047282**	**74.89063**	**.5072027**
Stddev	.0055116	.0010911	.0025902	.006530	.0021214	.83225	.0041543
%RSD	65.98363	16.00891	.4331910	27.06241	44.86679	1.111292	.8190571
#1	.0069053	.0067007	.5992904	-.026260	.0028166	74.16813	.5030973
#2	.0037097	.0079598	.5949474	-.016800	.0070106	74.70312	.5071066
#3	.0144438	.0057867	.5995645	-.029327	.0043575	75.80064	.5114042

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052055**	**.0053263**	**85.55547**	**.1600198**	**.0841297**	**.2980235**	**165.6547**
Stddev	.0001386	.0000838	.88988	.0009985	.0005806	.0044755	1.8872
%RSD	2.661925	1.573999	1.040117	.6239902	.6901331	1.501722	1.139255
#1	.0053514	.0054125	84.66120	.1596565	.0840990	.2983212	163.8817
#2	.0050757	.0052451	85.56431	.1611491	.0847251	.2934067	165.4440
#3	.0051896	.0053213	86.44089	.1592538	.0835651	.3023428	167.6385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.691766**	**37.51747**	**.1555170**	**-.003732**	**5.769343**	**.2840473**	**.6297080**
Stddev	.026819	.48514	.0002893	.000327	.090794	.0032311	.0033411
%RSD	.9963378	1.293095	.1860233	8.750303	1.573735	1.137515	.5305852
#1	2.662507	37.06191	.1555449	-.003805	5.697725	.2804822	.6302492
#2	2.697607	37.46292	.1552148	-.004016	5.871460	.2867826	.6327455
#3	2.715183	38.02758	.1557914	-.003375	5.738845	.2848770	.6261293

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.725523**	**4.777955**	**.8399167**	**.0051947**	**7.733197**	**2.610965**	**.0202401**
Stddev	.077729	.007585	.0085580	.0002869	.001161	.042600	.0022371
%RSD	1.155727	.1587468	1.018911	5.522865	.0150133	1.631594	11.05261
#1	6.655723	4.786394	.8352592	.0053398	7.734508	2.593948	.0177415
#2	6.711559	4.775765	.8346975	.0048643	7.732298	2.659444	.0209219
#3	6.809288	4.771706	.8497933	.0053801	7.732786	2.579503	.0220570

Sample Name: O3659-03 Acquired: 07/19/2023 19:38:32 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-3-071823 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.144585**	**.0613183**	**.1439758**
Stddev	.035254	.0013936	.0018196
%RSD	.8506106	2.272762	1.263857
#1	4.117722	.0597226	.1430414
#2	4.131527	.0619362	.1428131
#3	4.184505	.0622962	.1460728

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1486.973**	**1980.892**	**50354.55**	**9023.338**	**1792.935**
Stddev	6.350	3.783	244.13	4.702	3.404
%RSD	.4270145	.1909767	.4848166	.0521137	.1898840
#1	1486.904	1978.006	50296.15	9018.542	1789.081
#2	1480.658	1985.175	50144.92	9027.941	1795.534
#3	1493.357	1979.496	50622.58	9023.532	1794.191

Sample Name: O3659-05 Acquired: 07/19/2023 19:42:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-4-071823 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021267**	**-.004020**	**.3922300**	**-.027944**	**.0066855**	**116.2213**	**.6960726**
Stddev	.0025418	.002573	.0018604	.005223	.0045062	.5844	.0059554
%RSD	119.5175	64.00681	.4743143	18.69038	67.40302	.5028653	.8555773
#1	.0049764	-.006980	.3943782	-.022275	.0114558	115.7602	.6894449
#2	.0013103	-.002316	.3911500	-.028999	.0061000	116.0251	.6977983
#3	.0000934	-.002764	.3911618	-.032559	.0025006	116.8786	.7009747

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071165**	**.0061525**	**25.69757**	**.2036674**	**.0943155**	**.3358519**	**218.7238**
Stddev	.0000255	.0001462	.24440	.0014360	.0000685	.0032677	1.4674
%RSD	.3589519	2.376374	.9510481	.7050685	.0726681	.9729432	.6708991
#1	.0071044	.0060017	25.43570	.2037074	.0942363	.3320790	217.1314
#2	.0070993	.0062936	25.73740	.2022118	.0943541	.3376997	219.0188
#3	.0071459	.0061623	25.91960	.2050830	.0943559	.3377770	220.0214

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.856152**	**46.53958**	**.2748974**	**-.005864**	**6.267936**	**.2893499**	**.8156756**
Stddev	.025944	.32119	.0007537	.000391	.140005	.0035433	.0096148
%RSD	.9083556	.6901331	.2741917	6.669516	2.233669	1.224563	1.178751
#1	2.827244	46.21495	.2754648	-.005752	6.378024	.2861315	.8054694
#2	2.863797	46.54659	.2740421	-.005542	6.315421	.2931468	.8169949
#3	2.877414	46.85721	.2751853	-.006299	6.110365	.2887713	.8245627

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.802196**	**5.585218**	**.0737908**	**.0053242**	**3.455076**	**3.662950**	**.0210820**
Stddev	.001000	.002947	.0044262	.0003534	.018913	.069276	.0043736
%RSD	.0208142	.0527599	5.998278	6.638338	.5474028	1.891255	20.74571
#1	4.801125	5.583287	.0691186	.0049322	3.475798	3.672650	.0255883
#2	4.803105	5.583757	.0779210	.0054217	3.438745	3.589336	.0168544
#3	4.802357	5.588610	.0743327	.0056186	3.450684	3.726865	.0208032

Sample Name: O3659-05 Acquired: 07/19/2023 19:42:29 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-4-071823 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.127966	.0830229	-.090293
Stddev	.007698	.0009079	.001376
%RSD	.3617707	1.093515	1.524223
#1	2.127425	.0820370	-.088708
#2	2.120552	.0838245	-.090991
#3	2.135920	.0832072	-.091181

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1455.505	1945.911	49126.92	8811.965	1784.250
Stddev	17.428	2.252	355.58	53.097	2.960
%RSD	1.197357	.1157251	.7237963	.6025559	.1659213
#1	1474.476	1946.894	49324.58	8806.411	1782.539
#2	1451.831	1947.504	49339.75	8867.621	1787.668
#3	1440.207	1943.334	48716.42	8761.864	1782.542

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: O3662-01 Acquired: 07/19/2023 19:46:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUR-1276 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0411472**	**-.007516**	**.1879067**	**-.023196**	**.0083450**	**63.42449**	**.5258207**
Stddev	.0016149	.004935	.0040408	.009510	.0026570	1.02533	.0091022
%RSD	3.924656	65.65694	2.150409	40.99663	31.83896	1.616610	1.731056
#1	.0424271	-.002002	.1871397	-.033659	.0112579	62.24445	.5155045
#2	.0393329	-.011516	.1843043	-.020849	.0077225	64.09769	.5292374
#3	.0416817	-.009030	.1922759	-.015080	.0060545	63.93133	.5327203

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089886**	**.0054098**	**144.5486**	**.4252919**	**.0548783**	**.1406943**	**218.2799**
Stddev	.0000575	.0000739	2.2928	.0013449	.0000217	.0039350	2.9798
%RSD	.6394083	1.366439	1.586177	.3162349	.0395989	2.796812	1.365125
#1	.0089292	.0053363	141.9215	.4266618	.0548904	.1362240	214.8406
#2	.0089926	.0054842	145.5777	.4252405	.0548913	.1422249	220.0872
#3	.0090440	.0054091	146.1465	.4239734	.0548532	.1436339	219.9119

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.285568**	**45.69760**	**.1227291**	**-.006474**	**1.815294**	**.2111892**	**.6258679**
Stddev	.027232	.66020	.0002910	.000696	.142806	.0010801	.0038437
%RSD	1.191456	1.444716	.2371346	10.74957	7.866797	.5114159	.6141331
#1	2.254167	44.93735	.1224051	-.007257	1.694330	.2099499	.6234245
#2	2.299840	46.12650	.1228139	-.005926	1.972829	.2119294	.6302984
#3	2.302697	46.02895	.1229683	-.006240	1.778724	.2116884	.6238809

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.31634**	**7.268425**	**-.033867**	**.0062629**	**4.988727**	**1.831371**	**.0108650**
Stddev	.29259	.020193	.001570	.0004852	.012055	.019689	.0017609
%RSD	1.254884	.2778147	4.636921	7.747364	.2416439	1.075117	16.20712
#1	22.98133	7.247011	-.035409	.0061507	5.000488	1.808767	.0128292
#2	23.52175	7.271145	-.033922	.0058435	4.989296	1.840559	.0103384
#3	23.44594	7.287120	-.032270	.0067943	4.976398	1.844787	.0094276

Sample Name: O3662-01 Acquired: 07/19/2023 19:46:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUR-1276 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8409273	.0337444	.7364842
Stddev	.0152628	.0007614	.0097660
%RSD	1.814999	2.256425	1.326030
#1	.8251275	.0331073	.7254059
#2	.8555895	.0345876	.7438476
#3	.8420651	.0335382	.7401992

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1458.143	1938.860	49506.20	8959.849	1743.623
Stddev	13.954	3.039	322.10	90.544	1.761
%RSD	.9570047	.1567173	.6506253	1.010556	.1009970
#1	1458.665	1935.352	49394.35	9064.316	1745.101
#2	1443.935	1940.645	49254.94	8903.965	1744.094
#3	1471.829	1940.585	49869.32	8911.266	1741.674

Sample Name: O3680-01 Acquired: 07/19/2023 19:50:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP-3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104403**	**-.006284**	**.2285251**	**-.038181**	**.0088083**	**124.8620**
Stddev	.0096629	.003880	.0020274	.003790	.0015221	.8655
%RSD	92.55318	61.74729	.8871820	9.927463	17.28071	.6931539
#1	.0081668	-.010311	.2308475	-.033806	.0104094	123.9792
#2	.0210373	-.005973	.2271079	-.040259	.0073799	124.8976
#3	.0021169	-.002569	.2276200	-.040479	.0086356	125.7091

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.948761**	**.0125653**	**.0091772**	**220.4932**	**.2275428**	**.1845924**
Stddev	.015659	.0001718	.0000666	1.7524	.0006699	.0006737
%RSD	.8035378	1.367420	.7254360	.7947560	.2943923	.3649571
#1	1.932107	.0126487	.0091899	218.7618	.2276457	.1848944
#2	1.950992	.0123677	.0092366	220.4521	.2281554	.1838205
#3	1.963185	.0126794	.0091052	222.2658	.2268275	.1850622

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4827831**	**275.2942**	**7.431389**	**76.68677**	**.3929537**	**-.007962**
Stddev	.0016865	1.8241	.043904	.52661	.0012933	.000820
%RSD	.3493237	.6625966	.5907942	.6867048	.3291322	10.29466
#1	.4808357	273.5031	7.388483	76.24694	.3926669	-.008807
#2	.4837511	275.2299	7.429456	76.54304	.3943663	-.007909
#3	.4837625	277.1496	7.476228	77.27032	.3918278	-.007170

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.707779**	**.3330230**	**.7098886**	**27.51737**	F **10.28202**	**-.090088**
Stddev	.102008	.0016547	.0079535	.07337	.02144	.002954
%RSD	1.171458	.4968635	1.120385	.2666203	.2084841	3.278576
#1	8.590144	.3313781	.7190679	27.49716	10.26848	-.091699
#2	8.761391	.3346873	.7050482	27.45623	10.30674	-.086679
#3	8.771803	.3330036	.7055497	27.59873	10.27085	-.091886

Sample Name: O3680-01 Acquired: 07/19/2023 19:50:20 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP-3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000125	.6361154	F 11.36238	.0095752	3.395138	.2748357
Stddev	.0005011	.0128546	.07193	.0018660	.024899	.0026223
%RSD	4014.501	2.020795	.6330902	19.48783	.7333751	.9541356
#1	-.000493	.6480322	11.39595	.0116727	3.368973	.2724800
#2	.000022	.6378207	11.27980	.0080995	3.397898	.2743661
#3	.000509	.6224933	11.41140	.0089534	3.418541	.2776611

Elem	Sr4077
Units	ppm
Avg	.0947604
Stddev	.0004362
%RSD	.4602751
#1	.0942575
#2	.0950359
#3	.0949877

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1567.188	2096.674	53949.50	9789.716	1608.809
Stddev	19.940	4.095	387.14	73.546	3.030
%RSD	1.272332	.1952857	.7175996	.7512567	.1883349
#1	1544.303	2091.991	53625.42	9714.731	1605.806
#2	1576.444	2099.580	53844.86	9861.733	1611.865
#3	1580.818	2098.450	54378.20	9792.685	1608.756

Sample Name: PB154292BL Acquired: 07/19/2023 19:54:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PBW Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000480**	**.0022234**	**-.002017**	**.0067802**	**.0007219**	**.0173475**	**-.000948**
Stddev	.0014004	.0015005	.001271	.0015016	.0007007	.0048474	.000222
%RSD	2916.748	67.48604	63.00675	22.14732	97.05915	27.94276	23.36765
#1	-.001285	.0005672	-.003138	.0084117	.0002927	.0214974	-.000988
#2	-.000078	.0026109	-.002275	.0054559	.0003425	.0185254	-.001147
#3	.001507	.0034922	-.000637	.0064732	.0015304	.0120197	-.000709

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**-.000030**	**.0227984**	**-.000240**	**.0001480**	**.0000525**	**.0200369**
Stddev	.000024	.000075	.0069251	.000234	.0001797	.0015320	.0021675
%RSD	67.05331	254.8529	30.37547	97.79664	121.4541	2917.556	10.81729
#1	-.000056	-.000112	.0307948	-.000316	.0003377	-.000838	.0221628
#2	-.000040	.000036	.0188194	.000023	-.000020	-.000826	.0178302
#3	-.000010	-.000013	.0187810	-.000426	.000126	.001821	.0201177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000996**	**.0089692**	**-.000314**	**-.000080**	**-.063347**	**-.000054**	**.0001199**
Stddev	.0004142	.0235081	.000261	.000095	.090636	.001087	.0003009
%RSD	416.0095	262.0980	83.15513	118.2157	143.0800	2024.684	251.0166
#1	.0004502	.0303712	-.000364	-.000002	.038632	-.001179	-.000082
#2	-.000357	-.016192	-.000032	-.000186	-.093957	.000026	-.000024
#3	.000206	.012728	-.000547	-.000054	-.134715	.000991	.000466

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.043397**	**-.002970**	**-.002116**	**.0002979**	**-.007395**	**.0042663**	**.0032377**
Stddev	.009876	.001996	.000348	.0001625	.003416	.0012841	.0008489
%RSD	22.75657	67.20688	16.44988	54.54796	46.19139	30.09801	26.22040
#1	-.034983	-.005172	-.002329	.0001103	-.003522	.0050871	.0041922
#2	-.054269	-.001281	-.001714	.0003956	-.008686	.0027865	.0025672
#3	-.040938	-.002456	-.002305	.0003877	-.009978	.0049253	.0029536

Sample Name: PB154292BL Acquired: 07/19/2023 19:54:16 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PBW Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008507	-.001414	-.000006
Stddev	.0015232	.001551	.000057
%RSD	179.0647	109.6493	979.8720
#1	.0017978	.000152	-.000042
#2	.0016606	-.002949	.000060
#3	-.000906	-.001447	-.000036

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1303.663	1746.203	43934.97	7661.293	1857.115
Stddev	3.803	1.513	310.26	30.016	2.169
%RSD	.2917518	.0866511	.7061813	.3917861	.1167898
#1	1302.327	1744.564	43585.06	7626.880	1856.336
#2	1300.709	1746.497	44176.51	7674.930	1859.565
#3	1307.955	1747.547	44043.33	7682.070	1855.443

Sample Name: PB154292BS Acquired: 07/19/2023 19:58:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LCSW Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8197356**	**1.937869**	**.9542886**	**2.002293**	**.7689504**	**1.880511**
Stddev	.0032392	.007698	.0063114	.002949	.0056348	.006949
%RSD	.3951456	.3972281	.6613748	.1473018	.7327849	.3695131
#1	.8225566	1.933150	.9509444	1.999099	.7624680	1.880337
#2	.8161982	1.933705	.9503529	2.004914	.7726748	1.887546
#3	.8204518	1.946752	.9615684	2.002866	.7717086	1.873652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1942509**	**.1852802**	**.1906795**	**.9553015**	**.3823928**	**.1873568**
Stddev	.0019996	.0004798	.0006233	.0087241	.0011878	.0010668
%RSD	1.029371	.2589780	.3268797	.9132253	.3106091	.5694033
#1	.1919429	.1858299	.1903158	.9464760	.3817707	.1865938
#2	.1953495	.1849452	.1903235	.9639204	.3837623	.1869007
#3	.1954603	.1850656	.1913992	.9555081	.3816452	.1885758

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2951204**	**2.818012**	**.1898403**	**1.787980**	**.4724810**	**.0732315**
Stddev	.0018846	.033649	.0012507	.038651	.0024103	.0002830
%RSD	.6385798	1.194056	.6588367	2.161710	.5101419	.3864923
#1	.2937796	2.779706	.1887697	1.788085	.4708269	.0729247
#2	.2972752	2.842796	.1912151	1.826578	.4713694	.0734825
#3	.2943065	2.831534	.1895361	1.749276	.4752465	.0732873

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.749860**	**.2853358**	**.1975554**	**9.348540**	**5.897585**	**.2786191**
Stddev	.171555	.0014716	.0007913	.073715	.013434	.0009575
%RSD	6.238687	.5157522	.4005478	.7885164	.2277863	.3436598
#1	2.889314	.2852318	.1967002	9.273194	5.886309	.2796782
#2	2.801976	.2839189	.1977045	9.420507	5.893996	.2778147
#3	2.558291	.2868567	.1982616	9.351918	5.912448	.2783644

Reviewed By:jaswal
On:7/20/2023 10:58:15 PM
Inst Id :P5
LB :LB126517

Sample Name: PB154292BS Acquired: 07/19/2023 19:58:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LCSW Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3872235	F -.018459	.8191594	.6486147	.1886519	.2011745
Stddev	.0013569	.003352	.0024167	.0018067	.0008275	.0011093
%RSD	.3504207	18.15917	.2950247	.2785461	.4386258	.5514041
#1	.3857108	-.015385	.8195026	.6476014	.1878517	.1998937
#2	.3876263	-.017958	.8213862	.6475420	.1885999	.2018253
#3	.3883334	-.022033	.8165894	.6507006	.1895042	.2018045

Elem	Sr4077
Units	ppm
Avg	.1784575
Stddev	.0002068
%RSD	.1158852
#1	.1782247
#2	.1786199
#3	.1785279

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1310.320	1752.444	44305.00	7680.499	1868.042
Stddev	.567	2.231	34.22	31.849	4.669
%RSD	.0432536	.1273083	.0772424	.4146728	.2499425
#1	1309.747	1755.019	44277.66	7644.840	1866.741
#2	1310.880	1751.097	44343.38	7690.541	1873.224
#3	1310.332	1751.217	44293.96	7706.117	1864.161

Sample Name: PB154272TB Acquired: 07/19/2023 20:02:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12194 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003977**	**.0024595**	**.0018339**	**.0038923**	**-.001601**	**.0208762**
Stddev	.0012911	.0018547	.0025899	.0040639	.001252	.0079768
%RSD	324.6330	75.40958	141.2276	104.4072	78.22866	38.21027
#1	.0018792	.0045918	.0013025	.0079225	-.002970	.0298865
#2	-.000487	.0012198	-.000449	-.000204	-.001319	.0147156
#3	-.000199	.0015671	.004648	.003959	-.000513	.0180264

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000571**	**.0000595**	**-.000104**	**.0023776**	**.0002346**	**.0001207**
Stddev	.000121	.0000341	.000063	.0067271	.0004275	.0002196
%RSD	21.15364	57.17957	60.26377	282.9322	182.2282	181.9148
#1	-.000511	.0000562	-.000171	.0045843	-.000200	.0000327
#2	-.000710	.0000951	-.000046	-.005176	.000654	.0003707
#3	-.000491	.0000273	-.000095	.007724	.000250	-.000041

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000083**	**.0078983**	**-.000132**	**.0073368**	**.0004570**	**.0001416**
Stddev	.002984	.0043539	.000269	.0172304	.0000809	.0002920
%RSD	3577.257	55.12399	203.3902	234.8482	17.69317	206.1485
#1	-.003423	.0041070	-.000056	.0086893	.0005431	.0004785
#2	.000851	.0126533	.000090	.0238511	.0004453	-.000014
#3	.002322	.0069346	-.000431	-.010530	.0003827	-.000039

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **237.6150**	**-.000779**	**.0015825**	**-.424163**	**.0040647**	**-.003085**
Stddev	4.8985	.002540	.0004331	.028626	.0020774	.000281
%RSD	2.061509	326.2614	27.36725	6.748705	51.10862	9.107092
#1	243.1795	-.002775	.0020411	-.391139	.0043578	-.003131
#2	233.9542	.002081	.0015258	-.441888	.0059800	-.002784
#3	235.7112	-.001642	.0011805	-.439461	.0018563	-.003340

Sample Name: PB154272TB Acquired: 07/19/2023 20:02:21 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12194 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002769	.0007905	.0202549	.0026799	.0003911	-.002692
Stddev	.0001830	.0032084	.0006332	.0010206	.0011388	.001134
%RSD	66.10568	405.8863	3.126378	38.08315	291.1520	42.12764
#1	.0004792	.0027761	.0201352	.0023960	.0016639	-.001489
#2	.0002288	-.002911	.0209394	.0038124	.0000408	-.002844
#3	.0001227	.002506	.0196900	.0018313	-.000531	-.003741

Elem	Sr4077
Units	ppm
Avg	-.000017
Stddev	.000041
%RSD	243.6635
#1	.000009
#2	.000005
#3	-.000065

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1384.403	1813.217	44871.60	7976.495	1835.089
Stddev	15.198	17.106	290.28	34.708	14.497
%RSD	1.097833	.9433977	.6469068	.4351344	.7900066
#1	1369.643	1832.772	44841.49	7992.742	1851.786
#2	1400.005	1801.030	45175.76	8000.100	1827.770
#3	1383.560	1805.849	44597.55	7936.643	1825.710

Sample Name: O3646-02 Acquired: 07/19/2023 20:06:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: GATE-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000161**	**.0016988**	**.0070233**	**.0015551**	**-.000087**	**.1214227**	**.1925780**
Stddev	.000163	.0003755	.0007340	.0012585	.000669	.0066458	.0009789
%RSD	101.7946	22.10354	10.45150	80.92706	768.3875	5.473246	.5083169
#1	-.000254	.0017974	.0077597	.0004098	-.000233	.1175482	.1936911
#2	-.000256	.0012838	.0062916	.0013531	.000642	.1176235	.1918513
#3	.000028	.0020151	.0070188	.0029023	-.000671	.1290964	.1921916

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002467**	**.0004182**	**16.48769**	**.0010197**	**.0041972**	**.0135914**	**.0502881**
Stddev	.0000318	.0001383	.11833	.0004763	.0003647	.0044615	.0053889
%RSD	12.89100	33.07930	.7176581	46.71346	8.688883	32.82573	10.71599
#1	.0002157	.0003578	16.62304	.0015675	.0045487	.0094068	.0448514
#2	.0002453	.0005764	16.40389	.0007037	.0042225	.0182859	.0503850
#3	.0002792	.0003203	16.43613	.0007877	.0038206	.0130816	.0556278

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8839342**	**1.401915**	**.0049155**	**.0003529**	**294.2732**	**-.001862**	**.0843367**
Stddev	.0052417	.020952	.0003836	.0005855	3.2129	.004671	.0003050
%RSD	.5930027	1.494558	7.804314	165.9057	1.091796	250.9094	.3616307
#1	.8899839	1.425851	.0053444	-.000215	297.9487	.000765	.0844595
#2	.8810731	1.386895	.0046050	.000954	292.8716	-.007255	.0845611
#3	.8807455	1.393000	.0047972	.000320	291.9992	.000905	.0839894

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3560322**	**.0192713**	**.0208777**	**.0001300**	**.3818289**	**.6016391**	**.0050152**
Stddev	.0875730	.0030371	.0002177	.0001692	.0069132	.0017755	.0023938
%RSD	24.59694	15.75969	1.042726	130.1675	1.810539	.2951025	47.73038
#1	.3886511	.0173387	.0210548	-.000060	.3898111	.6035202	.0072591
#2	.4226145	.0177032	.0206347	.000263	.3779089	.5999927	.0052910
#3	.2568310	.0227719	.0209437	.000187	.3777667	.6014045	.0024955

Sample Name: O3646-02 Acquired: 07/19/2023 20:06:26 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: GATE-1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001213	-.000816	.0957686
Stddev	.0005758	.000894	.0007586
%RSD	474.8428	109.5179	.7920899
#1	.0006134	-.001808	.0965799
#2	-.000512	-.000073	.0956490
#3	.000262	-.000567	.0950769

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1327.764	1776.269	43720.29	7791.921	1782.705
Stddev	7.211	4.093	168.90	50.200	8.566
%RSD	.5430728	.2304491	.3863096	.6442567	.4804947
#1	1319.464	1771.704	43530.20	7741.638	1773.763
#2	1331.341	1777.490	43853.08	7792.085	1783.512
#3	1332.487	1779.613	43777.60	7842.038	1790.838

Sample Name: O3646-05 Acquired: 07/19/2023 20:10:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: YARD-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000215**	**.0024030**	**.0045873**	**.0017494**	**-.002611**	**.1534265**	**.1155423**
Stddev	.007392	.0013082	.0005501	.0064800	.001181	.0286627	.0219912
%RSD	3440.824	54.44061	11.99154	370.4174	45.24379	18.68173	19.03304
#1	.004504	.0011993	.0041143	.0036557	-.003615	.1352852	.1014275
#2	.003586	.0022144	.0051909	-.005470	-.001309	.1864705	.1408806
#3	-.008734	.0037952	.0044568	.007062	-.002908	.1385239	.1043188

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001672**	**.0001865**	**5.368704**	**.0006531**	**.0120425**	**.0172359**	**.1555798**
Stddev	.0000278	.0000812	1.030185	.0006677	.0004200	.0013277	.0304783
%RSD	16.65142	43.53116	19.18871	102.2369	3.488056	7.703370	19.59011
#1	.0001819	.0000928	4.748667	.0007338	.0125266	.0168692	.1235336
#2	.0001351	.0002304	6.557897	-.000051	.0117743	.0187085	.1842008
#3	.0001846	.0002362	4.799549	.001277	.0118266	.0161301	.1590050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5441465**	**.8232719**	**.0031282**	**.0004888**	**297.5979**	**.0000135**	**.0594450**
Stddev	.1027227	.1386028	.0003325	.0002236	56.4079	.0010760	.0012622
%RSD	18.87776	16.83560	10.62982	45.73689	18.95441	7972.921	2.123300
#1	.4821083	.7455534	.0033229	.0005856	267.7320	-.001204	.0607179
#2	.6627178	.9832947	.0033174	.0002331	362.6595	.000838	.0594235
#3	.4876133	.7409677	.0027442	.0006476	262.4023	.000406	.0581938

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2163010**	**.0138047**	**.0132333**	**-.000081**	**.1739047**	**.1102869**	**.0026032**
Stddev	.0870972	.0043896	.0046721	.000152	.0026502	.0244388	.0007893
%RSD	40.26667	31.79793	35.30597	187.3279	1.523920	22.15927	30.32081
#1	.1633611	.0105066	.0111349	-.000144	.1725130	.0972773	.0017412
#2	.3168246	.0187870	.0185867	-.000192	.1722404	.1384784	.0032905
#3	.1687172	.0121205	.0099782	.000092	.1769608	.0951049	.0027780

Sample Name: O3646-05 Acquired: 07/19/2023 20:10:28 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: YARD-1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006199	-.002617	.0202503
Stddev	.0003125	.000716	.0039819
%RSD	50.40601	27.34930	19.66369
#1	.0006689	-.001977	.0179396
#2	.0009050	-.003390	.0248482
#3	.0002858	-.002484	.0179630

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1337.046	1775.722	43833.42	7174.569	1784.910
Stddev	1.555	5.094	64.70	1129.887	5.141
%RSD	.1163308	.2868880	.1476036	15.74851	.2880148
#1	1335.530	1781.016	43766.28	7919.640	1790.641
#2	1336.968	1775.297	43895.36	5874.511	1783.382
#3	1338.638	1770.854	43838.61	7729.555	1780.706

Sample Name: CCV08 Acquired: 07/19/2023 20:14:31 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20748 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.023120**	**4.966783**	**4.836565**	**5.031957**	**4.942667**	**9.697372**	**10.01706**
Stddev	.014182	.010509	.017634	.015206	.020447	.057217	.01726
%RSD	.2823288	.2115793	.3645886	.3021801	.4136838	.5900233	.1722944
#1	5.039096	4.978150	4.847636	5.044607	4.964638	9.667347	9.99720
#2	5.018246	4.964777	4.845828	5.036177	4.939166	9.661418	10.02850
#3	5.012018	4.957422	4.816230	5.015087	4.924196	9.763352	10.02547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2332129**	**2.375257**	**23.51378**	**.9656986**	**2.414325**	**1.214782**	**4.685640**
Stddev	.0013509	.007938	.14288	.0023771	.008487	.004269	.046205
%RSD	.5792345	.3341858	.6076250	.2461569	.3515280	.3514283	.9860999
#1	.2322573	2.383212	23.36316	.9651427	2.423475	1.217005	4.644754
#2	.2347584	2.375223	23.53079	.9683043	2.412787	1.217481	4.676399
#3	.2326231	2.367336	23.64739	.9636486	2.406712	1.209860	4.735767

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.368442**	**22.77013**	**2.427030**	**1.253051**	**23.73021**	**2.361668**	**2.500448**
Stddev	.018131	.19936	.010342	.001767	.15562	.009151	.009514
%RSD	.7655237	.8755507	.4261314	.1410008	.6557893	.3874659	.3804813
#1	2.353393	22.62241	2.438110	1.255043	23.59687	2.352146	2.508602
#2	2.363362	22.69107	2.425350	1.251676	23.69255	2.362461	2.489996
#3	2.388571	22.99689	2.417631	1.252433	23.90120	2.370395	2.502747

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.02845**	**5.276393**	**4.717967**	**4.892462**	**4.788168**	**4.779939**	**4.751840**
Stddev	.15503	.024577	.021259	.019275	.029399	.020532	.017311
%RSD	.6451845	.4657929	.4506069	.3939765	.6139856	.4295488	.3643006
#1	23.89047	5.296617	4.698547	4.911476	4.819289	4.756275	4.763872
#2	23.99867	5.283523	4.740682	4.892973	4.784352	4.793031	4.759648
#3	24.19621	5.249039	4.714672	4.872936	4.760864	4.790511	4.732000

Sample Name: CCV08 Acquired: 07/19/2023 20:14:31 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV20748 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.720689**	**5.018586**	**4.586685**
Stddev	.017047	.008952	.049309
%RSD	.3611214	.1783772	1.075044
#1	4.710421	5.008514	4.531679
#2	4.711279	5.025634	4.626921
#3	4.740367	5.021611	4.601455

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1253.367**	**1687.735**	**42564.28**	**7529.448**	**1731.773**
Stddev	13.959	13.270	363.99	32.084	13.762
%RSD	1.113753	.7862362	.8551436	.4261122	.7946619
#1	1239.793	1674.246	42158.71	7492.484	1717.869
#2	1267.683	1688.187	42862.58	7550.070	1732.063
#3	1252.624	1700.773	42671.54	7545.792	1745.388

Sample Name: CCB08 Acquired: 07/19/2023 20:18:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20748 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005134**	**.0008473**	**-.001660**	**-.003051**	**-.001368**	**.0090782**	**-.000651**
Stddev	.006600	.0011297	.000940	.004468	.001969	.0056643	.000512
%RSD	128.5669	133.3242	56.63863	146.4722	143.9534	62.39410	78.58356
#1	.002488	-.000450	-.000615	-.001768	-.002949	.0042573	-.001109
#2	-.008925	.001377	-.002437	.000636	-.001992	.0153166	-.000099
#3	-.008963	.001615	-.001928	-.008020	.000838	.0076607	-.000747

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000004**	**-.000072**	**.0117843**	**-.000279**	**.0000894**	**.0002568**	**-.001588**
Stddev	.0000371	.000039	.0089343	.000073	.0002401	.0014915	.006847
%RSD	8358.270	54.28507	75.81523	26.06209	268.4956	580.8227	431.1022
#1	.0000295	-.000081	.0192357	-.000266	-.000185	-.000801	.003591
#2	.0000132	-.000105	.0018797	-.000358	.000260	-.000391	.000996
#3	-.000041	-.000029	.0142377	-.000215	.000193	.001963	-.009351

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000173**	**-.003724**	**.0000224**	**.0003637**	**.0184966**	**-.002782**	**.0006978**
Stddev	.000573	.018338	.0004780	.0002326	.1387662	.001901	.0003788
%RSD	331.1787	492.4142	2137.459	63.94234	750.2273	68.32275	54.28574
#1	-.000655	-.015861	-.000505	.0004048	-.109471	-.000588	.0011353
#2	-.000324	-.012683	.000145	.0001134	.165992	-.003931	.0004816
#3	.000460	.017371	.000427	.0005730	-.001031	-.003827	.0004767

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.033287**	**.0006662**	**.0043905**	**.0020058**	**-.012259**	**.0006069**	**.0026582**
Stddev	.041419	.0002446	.0006631	.0007482	.006298	.0006567	.0004641
%RSD	124.4283	36.71038	15.10260	37.29914	51.37338	108.1997	17.46054
#1	-.018682	.0004723	.0036578	.0026640	-.006398	.0013634	.0030571
#2	-.080030	.0005854	.0045647	.0021613	-.018918	.0002733	.0021488
#3	-.001150	.0009410	.0049492	.0011921	-.011462	.0001840	.0027687

Sample Name: CCB08 Acquired: 07/19/2023 20:18:25 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB20748 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002639	-.001180	.0001240
Stddev	.0010121	.000948	.0000411
%RSD	383.5037	80.36317	33.18802
#1	-.000261	-.000212	.0001557
#2	-.000378	-.002107	.0001388
#3	.001431	-.001221	.0000775

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1293.952	1737.515	43484.36	7533.027	1841.654
Stddev	6.825	3.837	261.08	28.168	5.056
%RSD	.5274591	.2208350	.6004039	.3739284	.2745414
#1	1286.075	1734.839	43328.29	7562.140	1839.021
#2	1298.092	1741.911	43785.76	7505.910	1847.484
#3	1297.689	1735.795	43339.01	7531.030	1838.458

Sample Name: O3652-02 Acquired: 07/19/2023 20:22:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023109**	**.0013259**	**.0037715**	**-.000342**	**-.001403**	**.1635691**	**.2194731**
Stddev	.0049511	.0028444	.0018205	.004773	.001164	.0033665	.0017806
%RSD	214.2444	214.5215	48.26970	1395.496	82.97225	2.058167	.8112868
#1	.0031251	-.001091	.0016743	.003499	-.000273	.1625924	.2195174
#2	-.002997	.000608	.0046954	-.005685	-.002597	.1607989	.2176708
#3	.006804	.004460	.0049448	.001160	-.001338	.1673160	.2212311

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002708**	**-.000007**	**3.702986**	**.0006821**	**.0022878**	**.0020824**	**.0422790**
Stddev	.0000233	.000018	.041951	.0001273	.0002294	.0009529	.0046405
%RSD	8.603698	262.7092	1.132906	18.65744	10.02587	45.75980	10.97594
#1	.0002970	-.000024	3.746962	.0005437	.0025432	.0019098	.0371802
#2	.0002525	-.000009	3.663405	.0007087	.0022205	.0031099	.0462553
#3	.0002629	.000012	3.698592	.0007940	.0020995	.0012277	.0434016

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0699579**	**1.134996**	**.0010604**	**.0003605**	**326.6581**	**.0005195**	**.2294474**
Stddev	.0007371	.046771	.0004550	.0002147	5.2340	.0012970	.0022812
%RSD	1.053581	4.120843	42.91180	59.55149	1.602288	249.6597	.9942243
#1	.0698953	1.142873	.0013858	.0005411	330.9339	.0016376	.2315524
#2	.0692542	1.084786	.0005404	.0004174	320.8212	-.000902	.2270235
#3	.0707243	1.177329	.0012549	.0001231	328.2194	.000823	.2297662

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2278273**	**.0065946**	**.0624864**	**.0000574**	**.9737256**	**.2034518**	**.0022601**
Stddev	.0190810	.0036312	.0003272	.0004583	.0093043	.0055078	.0006424
%RSD	8.375209	55.06219	.5236819	797.8606	.9555318	2.707200	28.42303
#1	.2096978	.0099317	.0622206	.0003669	.9729319	.2011922	.0028770
#2	.2477353	.0027276	.0628518	.0002745	.9834013	.2097301	.0023085
#3	.2260486	.0071246	.0623866	-.000469	.9648436	.1994330	.0015949

Sample Name: O3652-02 Acquired: 07/19/2023 20:22:30 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP19 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001744	-.000794	.0266993
Stddev	.0005854	.000661	.0003757
%RSD	335.5959	83.21964	1.406990
#1	.0004462	-.000667	.0269150
#2	-.000497	-.001509	.0262655
#3	.000574	-.000206	.0269174

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1354.084	1795.868	44086.15	7896.560	1798.360
Stddev	10.786	8.809	312.00	56.766	6.595
%RSD	.7965325	.4905416	.7076993	.7188732	.3667308
#1	1366.354	1805.596	44360.80	7918.606	1805.089
#2	1349.796	1788.428	43746.91	7938.995	1791.908
#3	1346.102	1793.581	44150.73	7832.077	1798.084

Sample Name: O3652-12 Acquired: 07/19/2023 20:26:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001070**	**.0029866**	**.0026004**	**-.001918**	**-.002386**	**.2308677**	**.2426229**
Stddev	.007045	.0009078	.0020202	.005099	.001729	.0044751	.0021432
%RSD	658.4239	30.39532	77.68622	265.8782	72.47007	1.938371	.8833300
#1	-.002510	.0022521	.0002713	.000336	-.001344	.2259590	.2412154
#2	-.007285	.0040015	.0038763	-.007756	-.001432	.2347202	.2415638
#3	.006584	.0027061	.0036537	.001666	-.004382	.2319239	.2450894

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002400**	**.0000424**	**3.276609**	**-.000257**	**.0006804**	**.0017129**	**.1715218**
Stddev	.0000463	.0000722	.042500	.000512	.0001157	.0010182	.0148072
%RSD	19.29606	170.2436	1.297067	199.2899	16.99602	59.44190	8.632829
#1	.0001916	-.000013	3.315641	-.000671	.0006887	.0028516	.1548785
#2	.0002446	.000016	3.231333	.000315	.0005609	.0008901	.1764516
#3	.0002838	.000124	3.282853	-.000414	.0007917	.0013970	.1832351

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0159958**	**1.264656**	**.0013330**	**.0003511**	**272.7404**	**.0005242**	**.3255868**
Stddev	.0000882	.025522	.0003546	.0004832	3.9188	.0005755	.0029501
%RSD	.5513039	2.018063	26.60110	137.6146	1.436814	109.7893	.9060923
#1	.0159034	1.291666	.0017327	-.000167	276.8161	.0010191	.3263522
#2	.0160052	1.261359	.0012097	.000431	269.0002	.0006609	.3280787
#3	.0160790	1.240944	.0010565	.000790	272.4048	-.000107	.3223294

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7559935**	**.0078716**	**.1117280**	**.0002797**	**2.027066**	**.0617983**	**.0024961**
Stddev	.1108569	.0013669	.0003141	.0004623	.009295	.0018019	.0001375
%RSD	14.66374	17.36537	.2811475	165.2925	.4585325	2.915837	5.507647
#1	.8532485	.0076559	.1120783	.0008099	2.017811	.0607526	.0025240
#2	.7794448	.0066253	.1114714	.0000676	2.026986	.0638790	.0026175
#3	.6352872	.0093336	.1116343	-.000039	2.036400	.0607633	.0023469

Sample Name: O3652-12 Acquired: 07/19/2023 20:26:33 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP18 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003955	-.002279	.0352039
Stddev	.0006885	.001045	.0003585
%RSD	174.1003	45.84205	1.018451
#1	.0001404	-.002775	.0353854
#2	-.000129	-.002984	.0347909
#3	.001175	-.001079	.0354354

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1362.491	1803.224	44751.93	7909.364	1822.884
Stddev	8.454	9.040	188.71	85.719	9.069
%RSD	.6205149	.5013066	.4216702	1.083762	.4974901
#1	1371.980	1813.272	44694.71	7810.648	1832.119
#2	1359.733	1800.650	44962.62	7952.474	1822.540
#3	1355.760	1795.751	44598.45	7964.970	1813.992

Sample Name: O3652-22 Acquired: 07/19/2023 20:30:37 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001716**	**.0014865**	**.0029615**	**-.006163**	**-.002824**	**.2874884**	**.1640233**
Stddev	.005466	.0025470	.0012421	.001491	.001406	.0081792	.0009410
%RSD	318.6228	171.3394	41.93957	24.19237	49.78752	2.845069	.5736876
#1	-.007744	-.001454	.0041021	-.006306	-.001311	.2838885	.1646433
#2	-.000320	.003014	.0031443	-.004606	-.003072	.2817265	.1629405
#3	.002918	.002900	.0016382	-.007577	-.004090	.2968501	.1644859

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001557**	**-.000065**	**3.677988**	**-.000060**	**.0007191**	**.0002297**	**.0311441**
Stddev	.0000653	.000167	.050025	.000051	.0000939	.0012782	.0031258
%RSD	41.90477	256.7400	1.360128	85.04210	13.06142	556.4022	10.03654
#1	.0001278	-.000136	3.730490	-.000006	.0007714	.0016784	.0275597
#2	.0001091	.000126	3.630876	-.000107	.0007751	-.000250	.0333032
#3	.0002303	-.000185	3.672598	-.000067	.0006106	-.000739	.0325694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062934**	**1.137414**	**.0014999**	**.0003205**	**244.2130**	**.0002874**	**.1939924**
Stddev	.0007567	.013560	.0004408	.0002719	4.8351	.0033210	.0011050
%RSD	12.02391	1.192174	29.38485	84.85276	1.979871	1155.502	.5696058
#1	.0069827	1.125461	.0010936	.0000255	249.7773	.0028845	.1928480
#2	.0054837	1.152149	.0014378	.0003748	241.0344	-.003455	.1950533
#3	.0064138	1.134631	.0019685	.0005611	241.8274	.001432	.1940760

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1310234**	**.0094196**	**.0473471**	**.0001053**	**1.296896**	**.0285490**	**.0022286**
Stddev	.0426170	.0035040	.0006958	.0003738	.006751	.0026379	.0010214
%RSD	32.52623	37.19939	1.469626	354.8611	.5205514	9.240017	45.83207
#1	.1708418	.0079480	.0465688	.0003214	1.303213	.0260631	.0021095
#2	.1361557	.0134195	.0475635	.0003209	1.289782	.0282674	.0033044
#3	.0860727	.0068914	.0479090	-.000326	1.297692	.0313164	.0012720

Sample Name: O3652-22 Acquired: 07/19/2023 20:30:37 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP17 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000009**	**-.002996**	**.0247074**
Stddev	.001013	.000884	.0003958
%RSD	10820.23	29.50671	1.602097
#1	-.000761	-.002296	.0251553
#2	-.000410	-.003989	.0244046
#3	.001143	-.002702	.0245623

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1362.620**	**1813.543**	**44425.06**	**7876.576**	**1833.749**
Stddev	9.042	6.574	164.87	46.547	7.104
%RSD	.6635749	.3625089	.3711200	.5909601	.3873793
#1	1362.043	1807.662	44248.95	7869.326	1826.886
#2	1353.880	1820.641	44450.49	7926.323	1841.071
#3	1371.937	1812.325	44575.74	7834.079	1833.289

Sample Name: O3653-02 Acquired: 07/19/2023 20:34:40 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030242**	**.0027210**	**.0076575**	**-.002628**	**-.001451**	**.1983341**	**.2122444**
Stddev	.0040403	.0012891	.0011184	.009205	.001144	.0603466	.0563034
%RSD	133.6020	47.37628	14.60538	350.2575	78.82202	30.42676	26.52761
#1	.0058462	.0012425	.0073202	-.008127	-.000550	.1344551	.1535112
#2	.0048305	.0033108	.0067466	-.007755	-.002738	.2543842	.2657538
#3	-.001604	.0036096	.0089058	.007999	-.001066	.2061629	.2174681

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001932**	**.0000826**	**1.879281**	**.0000308**	**.0031332**	**.0007116**	**2.982122**
Stddev	.0000664	.0001287	.505685	.0003641	.0000207	.0009787	.884857
%RSD	34.34886	155.8860	26.90841	1182.789	.6604718	137.5264	29.67205
#1	.0001167	.0002180	1.351170	.0002999	.0031570	.0016815	2.034994
#2	.0002351	.0000677	2.359070	-.000384	.0031227	.0007290	3.787625
#3	.0002278	-.000038	1.927602	.000176	.0031199	-.000276	3.123747

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0407711**	**.8420071**	**.0026403**	**.0001934**	**264.5014**	**-.001636**	**.2113901**
Stddev	.0116599	.2047110	.0004194	.0002161	68.5607	.002432	.0015669
%RSD	28.59847	24.31227	15.88424	111.7647	25.92074	148.6176	.7412393
#1	.0287561	.6189788	.0030766	-.000037	193.1691	.001078	.2129948
#2	.0520400	1.021347	.0026039	.000225	329.9056	-.003615	.2098639
#3	.0415171	.885695	.0022402	.000392	270.4295	-.002372	.2113117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2327186**	**.0033153**	**.0327152**	**.0002982**	**1.266636**	**.0356657**	**.0032971**
Stddev	.2008856	.0018565	.0102228	.0002812	.005436	.0112748	.0005312
%RSD	86.32124	55.99913	31.24773	94.30060	.4291524	31.61259	16.11239
#1	.0020974	.0054577	.0217712	.0006190	1.261316	.0242094	.0027231
#2	.3696031	.0023099	.0420181	.0001816	1.272181	.0467498	.0037715
#3	.3264553	.0021783	.0343564	.0000940	1.266410	.0360379	.0033965

Sample Name: O3653-02 Acquired: 07/19/2023 20:34:40 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008264	-.002763	.0108755
Stddev	.0017698	.001810	.0027302
%RSD	214.1724	65.51647	25.10458
#1	-.001069	-.000689	.0080290
#2	.002436	-.004023	.0134723
#3	.001112	-.003577	.0111250

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1317.151	1758.567	42977.66	8137.299	1769.574
Stddev	4.319	8.423	196.20	2272.983	8.253
%RSD	.3278887	.4789811	.4565126	27.93289	.4663679
#1	1319.613	1767.571	42887.91	10654.62	1777.153
#2	1319.675	1757.249	43202.69	6235.38	1770.787
#3	1312.164	1750.880	42842.40	7521.91	1760.782

Sample Name: O3653-12 Acquired: 07/19/2023 20:38:45 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP21 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004089**	**.0026282**	**.0016186**	**-.000075**	**-.003501**	**.1415216**	**.1779251**
Stddev	.009054	.0001663	.0007893	.005923	.000338	.0078107	.0071896
%RSD	221.4180	6.327147	48.76627	7903.006	9.652519	5.519091	4.040775
#1	-.012638	.0026256	.0015704	-.003373	-.003625	.1345744	.1739753
#2	-.005028	.0027958	.0008544	.006763	-.003760	.1400143	.1735763
#3	.005398	.0024633	.0024308	-.003615	-.003119	.1499761	.1862236

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002935**	**-.000047**	**2.097828**	**-.000095**	**.0024907**	**.0001375**	**.2555113**
Stddev	.0000147	.000070	.047239	.000105	.0002194	.0008473	.0300092
%RSD	5.016621	146.7333	2.251825	110.6823	8.807831	616.4151	11.74475
#1	.0002980	-.000061	2.098223	-.000203	.0025029	-.000735	.2287113
#2	.0002771	.000028	2.050393	-.000090	.0022655	.000189	.2498884
#3	.0003055	-.000109	2.144869	.000007	.0027038	.000958	.2879342

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0667265**	**1.824669**	**.0025864**	**.0001020**	**302.2731**	**.0004891**	**.1835351**
Stddev	.0010335	.049951	.0002351	.0003963	7.2634	.0020256	.0023425
%RSD	1.548796	2.737563	9.090513	388.6082	2.402937	414.1573	1.276333
#1	.0666105	1.846808	.0026092	.0000837	307.2499	.0005781	.1854804
#2	.0657560	1.767475	.0023406	.0005071	293.9383	-.001580	.1841901
#3	.0678131	1.859726	.0028092	-.000285	305.6312	.002469	.1809348

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3148863**	**.0075953**	**.0542290**	**-.000046**	**1.196231**	**.1308333**	**.0027612**
Stddev	.0374976	.0021283	.0021477	.000283	.010983	.0030658	.0014171
%RSD	11.90830	28.02069	3.960397	609.7966	.9181340	2.343263	51.32314
#1	.3358181	.0076523	.0564120	-.000373	1.184707	.1314962	.0037330
#2	.3372450	.0054391	.0521185	.000102	1.197407	.1274903	.0011351
#3	.2715956	.0096945	.0541566	.000131	1.206578	.1335134	.0034155

Sample Name: O3653-12 Acquired: 07/19/2023 20:38:45 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP21 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009940	-.001973	.0234121
Stddev	.0005380	.002082	.0006719
%RSD	54.12856	105.5260	2.870069
#1	.0004936	-.003967	.0235894
#2	.0015631	-.002140	.0226693
#3	.0009252	.000187	.0239776

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1315.747	1762.558	42777.21	7567.541	1770.174
Stddev	8.729	4.855	242.46	129.857	4.513
%RSD	.6633956	.2754236	.5668020	1.715970	.2549338
#1	1325.030	1766.978	42934.21	7570.004	1775.350
#2	1307.706	1757.362	42497.96	7696.148	1768.108
#3	1314.505	1763.335	42899.46	7436.470	1767.064

Sample Name: O3653-22 Acquired: 07/19/2023 20:42:49 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP22 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010339**	**.0014860**	**.0013255**	**-.003943**	**.0001315**	**.2158084**	**.1466869**
Stddev	.0022927	.0025467	.0019234	.011345	.0009311	.0103214	.0021962
%RSD	221.7470	171.3786	145.1066	287.7131	708.3655	4.782694	1.497198
#1	.0024298	-.001326	.0010378	.009151	.0004173	.2123848	.1450064
#2	.0022841	.003638	.0033765	-.010819	-.000909	.2076337	.1458823
#3	-.001612	.002146	-.000438	-.010161	.000886	.2274066	.1491719

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002363**	**-.000048**	**1.953125**	**.0001948**	**.0029475**	**.0012065**	**.1099349**
Stddev	.0000321	.000090	.010904	.0005406	.0002971	.0021117	.0221986
%RSD	13.59366	186.8469	.5582728	277.5466	10.07868	175.0235	20.19247
#1	.0002734	-.000034	1.965220	-.000402	.0032848	-.000409	.0875008
#2	.0002176	-.000145	1.950109	.000652	.0027247	.000433	.1104138
#3	.0002180	.000034	1.944047	.000335	.0028331	.003596	.1318902

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0446829**	**1.050481**	**.0046974**	**.0003093**	**277.7826**	**-.000287**	**.1775834**
Stddev	.0007606	.016641	.0001677	.0002174	5.1003	.001307	.0014755
%RSD	1.702205	1.584103	3.569199	70.27797	1.836070	455.0722	.8308832
#1	.0438803	1.068525	.0047868	.0004462	283.6707	-.001147	.1780378
#2	.0447754	1.047182	.0048014	.0004231	274.9430	.001217	.1787783
#3	.0453930	1.035738	.0045040	.0000587	274.7341	-.000932	.1759342

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2558089**	**.0084124**	**.0508641**	**-.000207**	**1.166893**	**.1434405**	**.0037053**
Stddev	.0247783	.0040561	.0010287	.000415	.005294	.0037065	.0012373
%RSD	9.686247	48.21572	2.022470	200.4049	.4536942	2.584005	33.39176
#1	.2510423	.0126424	.0520414	-.000170	1.172057	.1476841	.0039810
#2	.2337602	.0080388	.0501390	.000188	1.161478	.1418001	.0047814
#3	.2826242	.0045560	.0504117	-.000639	1.167143	.1408372	.0023534

Sample Name: O3653-22 Acquired: 07/19/2023 20:42:49 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: TP22 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000373**	**-.001672**	**.0195612**
Stddev	.000329	.000411	.0001410
%RSD	88.37321	24.55124	.7208932
#1	-.000751	-.002134	.0195711
#2	-.000148	-.001535	.0194155
#3	-.000219	-.001348	.0196970

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1343.268**	**1782.297**	**43747.86**	**7708.249**	**1797.888**
Stddev	11.141	5.894	156.62	49.130	6.970
%RSD	.8294053	.3306883	.3579983	.6373734	.3876843
#1	1356.114	1784.462	43900.46	7658.082	1803.506
#2	1337.443	1786.802	43755.60	7710.392	1800.070
#3	1336.247	1775.627	43587.52	7756.272	1790.088

Sample Name: O3654-02 Acquired: 07/19/2023 20:46:54 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033605**	**.0033776**	**-.000241**	**.0001251**	**-.001099**	**.1830600**	**.0857933**
Stddev	.0073718	.0013022	.000970	.0067150	.000820	.0118698	.0013311
%RSD	219.3652	38.55305	403.0784	5367.374	74.63196	6.484080	1.551466
#1	.0069948	.0046119	.000498	-.004211	-.000174	.1901233	.0846688
#2	-.005123	.0035041	.000118	-.003274	-.001386	.1693561	.0854482
#3	.008210	.0020168	-.001338	.007860	-.001736	.1897005	.0872630

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002199**	**-.000026**	**2.489513**	**.0006044**	**.0001286**	**.0111204**	**.0731357**
Stddev	.0000262	.000144	.019719	.0000316	.0001278	.0007542	.0097380
%RSD	11.93042	553.2538	.7920750	5.221435	99.37716	6.781740	13.31501
#1	.0002464	-.000186	2.505437	.0006014	-.000018	.0103358	.0686640
#2	.0002192	.000013	2.467456	.0005745	.000217	.0111855	.0664365
#3	.0001940	.000095	2.495644	.0006374	.000187	.0118399	.0843064

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0178910**	**.6391561**	**.0010590**	**.0002922**	**295.0422**	**.0008301**	**.0871920**
Stddev	.0004861	.0025345	.0001556	.0005377	4.4828	.0012306	.0006692
%RSD	2.717152	.3965358	14.69580	183.9861	1.519368	148.2423	.7675104
#1	.0179034	.6382689	.0012281	-.000276	300.0383	.0011160	.0879245
#2	.0183708	.6371845	.0009218	.000793	291.3717	-.000518	.0870390
#3	.0173988	.6420149	.0010270	.000360	293.7165	.001893	.0866125

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3754242**	**.0174560**	**.0111605**	**.0002919**	**.3071580**	**.0204764**	**.0028480**
Stddev	.0411444	.0020878	.0006826	.0000367	.0042103	.0004195	.0007835
%RSD	10.95943	11.96050	6.115960	12.56819	1.370724	2.048553	27.51040
#1	.4058855	.0150481	.0110557	.0003201	.3094868	.0209393	.0025817
#2	.3286192	.0187622	.0105364	.0002504	.3022977	.0201215	.0037298
#3	.3917679	.0185579	.0118894	.0003053	.3096893	.0203683	.0022323

Sample Name: O3654-02 Acquired: 07/19/2023 20:46:54 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008077	-.002482	.0237096
Stddev	.0005255	.000686	.0001808
%RSD	65.05373	27.65893	.7624233
#1	.0006744	-.002175	.0238413
#2	.0013870	-.003268	.0235035
#3	.0003618	-.002002	.0237841

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1364.463	1797.484	44459.73	7922.441	1809.108
Stddev	7.410	7.164	261.44	32.092	9.452
%RSD	.5430349	.3985324	.5880458	.4050749	.5224445
#1	1365.363	1803.559	44733.45	7894.230	1817.368
#2	1371.382	1799.307	44433.15	7957.355	1811.155
#3	1356.645	1789.585	44212.59	7915.739	1798.800

Sample Name: O3654-02DUP Acquired: 07/19/2023 20:50:58 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016DUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001167**	**.0027446**	**.0008293**	**-.003492**	**-.001615**	**.1847124**	**.0864879**
Stddev	.000941	.0026530	.0009118	.007095	.000252	.0173130	.0041718
%RSD	80.63832	96.66378	109.9393	203.1801	15.62684	9.372970	4.823544
#1	-.001297	.0054603	-.000121	-.001443	-.001807	.1647453	.0820839
#2	-.000168	.0001591	.001697	-.011386	-.001710	.1955488	.0903803
#3	-.002037	.0026143	.000912	.002353	-.001329	.1938432	.0869996

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001590**	**.0000384**	**2.505088**	**.0000960**	**.0000560**	**.0122915**	**.0634924**
Stddev	.0000624	.0000923	.103672	.0001069	.0002735	.0016859	.0084622
%RSD	39.23389	240.1197	4.138463	111.2710	488.3798	13.71562	13.32794
#1	.0002182	.0001170	2.395501	.0000169	.0001562	.0105624	.0555236
#2	.0000938	-.000063	2.601606	.0002176	.0002652	.0123816	.0625794
#3	.0001651	.000062	2.518157	.0000536	-.000253	.0139304	.0723740

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0181721**	**.6444714**	**.0010008**	**.0000697**	**293.4443**	**-.000194**	**.0862689**
Stddev	.0005864	.0210545	.0002329	.0002444	6.8340	.000578	.0015666
%RSD	3.226700	3.266941	23.26669	350.4405	2.328892	297.5917	1.815999
#1	.0175046	.6243916	.0008351	-.000166	286.0214	.000467	.0879975
#2	.0184079	.6426415	.0012671	.000053	299.4750	-.000604	.0849428
#3	.0186039	.6663811	.0009003	.000322	294.8364	-.000446	.0858663

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3836538**	**.0139705**	**.0123965**	**.0000126**	**.3088602**	**.0235753**	**.0024608**
Stddev	.0341137	.0009961	.0005732	.0002051	.0029151	.0020765	.0005856
%RSD	8.891780	7.129876	4.624246	1633.890	.9438280	8.807948	23.79903
#1	.3661218	.0129963	.0127656	-.000175	.3120674	.0238433	.0019506
#2	.4229683	.0149871	.0126878	.000232	.3063715	.0255047	.0031003
#3	.3618713	.0139281	.0117361	-.000019	.3081418	.0213778	.0023315

Sample Name: O3654-02DUP Acquired: 07/19/2023 20:50:58 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016DUP Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009206	-.002688	.0237756
Stddev	.0003232	.000692	.0008802
%RSD	35.11286	25.76224	3.702022
#1	.0012726	-.001889	.0228243
#2	.0008521	-.003062	.0245611
#3	.0006371	-.003113	.0239415

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1333.188	1765.173	43426.85	7794.674	1773.806
Stddev	9.136	6.713	101.07	321.592	4.893
%RSD	.6853067	.3803235	.2327296	4.125797	.2758233
#1	1323.932	1770.691	43397.21	8158.814	1777.370
#2	1342.200	1767.131	43539.42	7549.570	1775.820
#3	1333.433	1757.699	43343.92	7675.639	1768.228

Sample Name: O3654-02LX5 Acquired: 07/19/2023 20:55:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004007**	**-.001073**	**.0003390**	**.0035080**	**-.000122**	**.0756820**	**.0177315**
Stddev	.003571	.002426	.0007412	.0024304	.001186	.0089100	.0000703
%RSD	89.12860	226.0972	218.6265	69.28283	971.0297	11.77291	.3966195
#1	-.005687	-.002359	-.000237	.0013312	.001246	.0660591	.0176512
#2	-.006428	-.002584	.000079	.0030623	-.000853	.0773412	.0177607
#3	.000095	.001725	.001175	.0061304	-.000759	.0836458	.0177824

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000636**	**-.000051**	**.5308146**	**.0001231**	**.0002457**	**.0009239**	**.0221375**
Stddev	.0000649	.000054	.0053553	.0004335	.0001896	.0021894	.0021249
%RSD	101.9261	104.0754	1.008889	352.0796	77.14915	236.9925	9.598478
#1	.0001301	-.000104	.5256896	.0004095	.0002536	.0029186	.0199438
#2	.0000005	.000003	.5363738	.0003356	.0000523	.0012716	.0222824
#3	.0000604	-.000054	.5303805	-.000376	.0004311	-.001419	.0241862

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095365**	**.1749171**	**-.000031**	**-.000052**	**60.96851**	**-.000522**	**.0189822**
Stddev	.0002640	.0156684	.000146	.000052	.69725	.001540	.0002011
%RSD	2.767877	8.957584	473.4867	99.14491	1.143618	294.8727	1.059321
#1	.0097591	.1571140	.000123	-.000072	60.17977	-.000667	.0189136
#2	.0096057	.1810287	-.000168	-.000091	61.50278	.001085	.0188243
#3	.0092449	.1866086	-.000048	.000007	61.22298	-.001984	.0192086

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0352014**	**.0001461**	**.0004395**	**.0001278**	**.0526468**	**.0020721**	**.0036508**
Stddev	.0185341	.0027373	.0006113	.0001143	.0036060	.0008079	.0006982
%RSD	52.65163	1873.762	139.0972	89.41296	6.849496	38.98824	19.12469
#1	.0331863	.0031988	-.000237	-.000004	.0492910	.0012377	.0040993
#2	.0177572	-.002090	.000953	.000195	.0564595	.0028505	.0028464
#3	.0546608	-.000671	.000602	.000193	.0521899	.0021281	.0040067

Sample Name: O3654-02LX5 Acquired: 07/19/2023 20:55:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000985	-.001341	.0050277
Stddev	.0003526	.000192	.0000726
%RSD	358.0319	14.34852	1.443398
#1	-.000006	-.001516	.0049606
#2	-.000190	-.001135	.0050178
#3	.000491	-.001372	.0051047

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1254.100	1684.319	41993.24	7405.007	1769.913
Stddev	7.209	5.347	97.02	11.376	5.614
%RSD	.5748394	.3174620	.2310416	.1536250	.3171738
#1	1253.463	1678.383	41881.48	7395.760	1763.798
#2	1247.230	1685.815	42042.37	7417.710	1771.107
#3	1261.606	1688.758	42055.86	7401.550	1774.833

Sample Name: O3654-02MS Acquired: 07/19/2023 20:59:08 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8532120**	**1.979065**	**1.018854**	**2.149949**	**.7623365**	**2.168254**	**.3082440**
Stddev	.0049246	.011968	.001192	.012134	.0046683	.058939	.0096128
%RSD	.5771810	.6047145	.1170153	.5643958	.6123684	2.718288	3.118575
#1	.8588757	1.991732	1.017679	2.137148	.7575832	2.225733	.3187890
#2	.8499403	1.967947	1.020063	2.151417	.7625114	2.171074	.3059732
#3	.8508200	1.977517	1.018820	2.161283	.7669149	2.107956	.2999699

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1959793**	**.2029418**	**7.634363**	**.3895687**	**.1953576**	**.3110819**	**2.982875**
Stddev	.0056793	.0002007	.225042	.0017159	.0003596	.0052423	.076231
%RSD	2.897905	.0988997	2.947754	.4404549	.1840523	1.685182	2.555614
#1	.2024642	.2027141	7.889460	.3915497	.1957500	.3171351	3.070895
#2	.1935822	.2030185	7.549690	.3885476	.1950439	.3080173	2.939517
#3	.1918916	.2030929	7.463940	.3886089	.1952791	.3080934	2.938212

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2218913**	**2.614264**	**.4884771**	**.0745893**	**325.2942**	**.2963427**	**.3167666**
Stddev	.0078130	.062484	.0005787	.0004605	9.4692	.0078402	.0011706
%RSD	3.521113	2.390105	.1184728	.6173679	2.910965	2.645667	.3695425
#1	.2309069	2.686289	.4891356	.0751196	335.6017	.3049234	.3162080
#2	.2176724	2.581918	.4880495	.0743583	323.2998	.2945516	.3159799
#3	.2170947	2.574584	.4882463	.0742902	316.9810	.2895529	.3181118

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.27121**	**6.798773**	**.2986189**	**.3837067**	**.3339296**	**.9948905**	**.6595359**
Stddev	.31337	.026738	.0083619	.0014432	.0042269	.0343854	.0022989
%RSD	3.050931	.3932710	2.800173	.3761320	1.265803	3.456196	.3485690
#1	10.59088	6.788968	.3077741	.3823632	.3355667	1.034144	.6593865
#2	10.25820	6.829029	.2966979	.3835247	.3370931	.980435	.6573153
#3	9.96455	6.778323	.2913847	.3852324	.3291290	.970093	.6619059

Sample Name: O3654-02MS Acquired: 07/19/2023 20:59:08 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MS Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1957272	.1984933	.2180333
Stddev	.0044923	.0064901	.0066757
%RSD	2.295193	3.269704	3.061774
#1	.2002917	.2059056	.2253826
#2	.1955792	.1957435	.2163726
#3	.1913107	.1938306	.2123447

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1331.978	1772.751	43171.30	7593.246	1750.827
Stddev	7.832	2.924	27.05	186.471	1.876
%RSD	.5879640	.1649612	.0626647	2.455746	.1071559
#1	1340.848	1776.013	43201.17	7381.403	1752.583
#2	1329.068	1771.877	43164.28	7665.802	1748.850
#3	1326.018	1770.364	43148.44	7732.533	1751.046

Sample Name: CCV09 Acquired: 07/19/2023 21:03:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.170430**	**5.146688**	**5.037416**	**5.168288**	**5.086990**	**9.708008**	**10.26718**
Stddev	.021911	.001807	.006131	.004383	.014469	.094237	.04554
%RSD	.4237683	.0351011	.1217068	.0847971	.2844404	.9707127	.4435584
#1	5.169027	5.148693	5.035735	5.170653	5.076142	9.621642	10.21618
#2	5.149254	5.145188	5.032300	5.163231	5.081409	9.808517	10.30376
#3	5.193008	5.146182	5.044212	5.170981	5.103419	9.693864	10.28161

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2444063**	**2.477968**	**24.39533**	**1.005180**	**2.512545**	**1.246911**	**4.887412**
Stddev	.0018209	.006982	.15558	.000473	.005732	.007578	.048539
%RSD	.7450277	.2817765	.6377396	.0470092	.2281237	.6077438	.9931423
#1	.2464219	2.475242	24.22463	1.005704	2.509521	1.241412	4.832521
#2	.2428802	2.472759	24.43222	1.004787	2.508958	1.255555	4.924667
#3	.2439169	2.485902	24.52915	1.005049	2.519155	1.243766	4.905049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.457568**	**23.94453**	**2.514054**	**1.306557**	**25.09056**	**2.428847**	**2.560529**
Stddev	.019545	.16990	.003084	.004529	.06462	.014077	.011516
%RSD	.7953150	.7095506	.1226789	.3466659	.2575340	.5795567	.4497554
#1	2.437165	23.74843	2.512064	1.304485	25.03286	2.413178	2.573798
#2	2.476125	24.03779	2.512491	1.303433	25.07844	2.440424	2.553139
#3	2.459416	24.04738	2.517607	1.311751	25.16038	2.432939	2.554650

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.61145**	**5.460006**	**4.943735**	**5.055762**	**4.926203**	**4.983811**	**4.930212**
Stddev	.05151	.006013	.036601	.019932	.017866	.017668	.012129
%RSD	.2093126	.1101361	.7403459	.3942489	.3626779	.3545015	.2460097
#1	24.63210	5.466552	4.985904	5.045429	4.905866	5.003169	4.933139
#2	24.64944	5.458741	4.925099	5.043119	4.933373	4.968557	4.916887
#3	24.55281	5.454726	4.920203	5.078739	4.939371	4.979706	4.940609

Sample Name: CCV09 Acquired: 07/19/2023 21:03:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.950753**	**5.173052**	**4.718221**
Stddev	.031892	.030193	.057259
%RSD	.6441837	.5836652	1.213576
#1	4.923516	5.138350	4.659196
#2	4.985835	5.187494	4.773533
#3	4.942908	5.193312	4.721935

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1223.451**	**1652.327**	**41107.63**	**7247.642**	**1683.406**
Stddev	1.291	1.953	207.51	21.907	3.183
%RSD	.1055004	.1181916	.5047984	.3022674	.1890989
#1	1223.302	1651.179	41310.69	7222.769	1679.822
#2	1222.242	1654.582	41116.25	7264.070	1684.492
#3	1224.810	1651.220	40895.94	7256.087	1685.905

Sample Name: CCB09 Acquired: 07/19/2023 21:07:01 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010216**	**.0020884**	**-.000429**	**-.002013**	**.0007084**	**.0083298**	**-.000431**
Stddev	.0061702	.0016263	.000900	.004859	.0005222	.0049233	.000481
%RSD	603.9838	77.87154	209.8342	241.4075	73.71750	59.10455	111.5763
#1	.0054795	.0039355	.000580	-.006273	.0011959	.0028686	-.000045
#2	-.006021	.0014580	-.000717	.003279	.0007720	.0124281	-.000970
#3	.003606	.0008717	-.001150	-.003045	.0001573	.0096929	-.000279

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**-.000047**	**.0153072**	**.0002079**	**.0000342**	**-.000899**	**-.001900**
Stddev	.000033	.000095	.0049150	.0003275	.0000023	.001664	.010106
%RSD	94.31466	201.5939	32.10893	157.5418	6.801238	184.9685	531.8100
#1	-.000065	.000056	.0109894	.0005246	.0000366	.000868	.000535
#2	-.000000	-.000066	.0206559	.0002285	.0000319	-.002435	-.013002
#3	-.000038	-.000132	.0142765	-.000129	.0000342	-.001131	.006766

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000322**	**-.000617**	**.0002427**	**.0002568**	**-.131713**	**-.000035**	**.0005532**
Stddev	.000821	.011720	.0000992	.0001291	.150258	.000345	.0002639
%RSD	254.9891	1900.267	40.89131	50.26232	114.0794	994.5171	47.69731
#1	-.000153	-.007413	.0001876	.0001094	.034193	.000317	.0003386
#2	.000401	-.007354	.0003572	.0003113	-.170693	-.000372	.0004733
#3	-.001214	.012916	.0001832	.0003497	-.258639	-.000048	.0008478

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0594258**	**.0003251**	**.0056962**	**.0021731**	**-.007125**	**.0005561**	**.0022260**
Stddev	.0438724	.0008940	.0007279	.0002851	.004129	.0012869	.0009390
%RSD	73.82726	275.0010	12.77820	13.11967	57.95235	231.3994	42.18312
#1	.0947381	-.000568	.0059677	.0023772	-.004791	-.000147	.0017952
#2	.0103122	.000324	.0062493	.0022947	-.011893	-.000226	.0015797
#3	.0732271	.001220	.0048716	.0018473	-.004692	.002041	.0033030

Sample Name: CCB09 Acquired: 07/19/2023 21:07:01 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005191	.0002067	.0002028
Stddev	.0008337	.0004699	.0001186
%RSD	160.5990	227.3629	58.46419
#1	-.000246	.0007493	.0003061
#2	.000396	-.000064	.0002289
#3	.001408	-.000065	.0000734

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1263.943	1698.494	42229.36	7279.857	1795.074
Stddev	2.688	2.511	96.25	39.966	2.843
%RSD	.2126431	.1478619	.2279113	.5489936	.1583527
#1	1263.753	1699.020	42335.04	7311.360	1792.691
#2	1266.720	1700.700	42146.74	7234.900	1798.220
#3	1261.355	1695.761	42206.30	7293.310	1794.311

Sample Name: O3654-02MSD Acquired: 07/19/2023 21:11:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8271229**	**1.916647**	**.9828256**	**2.079143**	**.7343388**	**2.088868**	**.2939050**
Stddev	.0065577	.020186	.0096474	.026672	.0060514	.005410	.0011187
%RSD	.7928337	1.053188	.9816019	1.282838	.8240656	.2589879	.3806419
#1	.8276818	1.931210	.9912023	2.102297	.7400010	2.084604	.2948550
#2	.8203036	1.925126	.9849969	2.085153	.7350536	2.087046	.2926719
#3	.8333832	1.893604	.9722775	2.049978	.7279617	2.094954	.2941881

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1902309**	**.1956545**	**7.338006**	**.3778612**	**.1878581**	**.2960990**	**2.872916**
Stddev	.0005102	.0024386	.018741	.0006803	.0019027	.0032628	.005942
%RSD	.2682185	1.246362	.2553908	.1800318	1.012820	1.101926	.2068354
#1	.1904697	.1976100	7.357004	.3774024	.1890090	.2998143	2.866062
#2	.1905780	.1964315	7.337481	.3775385	.1889035	.2947829	2.876633
#3	.1896451	.1929222	7.319533	.3786428	.1856620	.2936998	2.876052

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2141078**	**2.510912**	**.4709872**	**.0732546**	**314.7779**	**.2828578**	**.3129977**
Stddev	.0010963	.010935	.0057643	.0003103	2.4907	.0034686	.0014965
%RSD	.5120461	.4354979	1.223875	.4235741	.7912576	1.226274	.4781034
#1	.2133307	2.499264	.4748433	.0733904	317.6204	.2852295	.3130303
#2	.2136310	2.520957	.4737575	.0728995	312.9777	.2788769	.3114853
#3	.2153618	2.512515	.4643607	.0734738	313.7355	.2844672	.3144776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.802909**	**6.528572**	**.2910875**	**.3697682**	**.3217810**	**.9556031**	**.6321068**
Stddev	.112171	.074306	.0007441	.0030078	.0059634	.0019169	.0118669
%RSD	1.144264	1.138163	.2556380	.8134393	1.853238	.2006006	1.877354
#1	9.881343	6.584858	.2905630	.3707544	.3285891	.9577840	.6389551
#2	9.674425	6.556511	.2919392	.3721591	.3192704	.9541852	.6389613
#3	9.852957	6.444346	.2907605	.3663911	.3174833	.9548399	.6184041

Sample Name: O3654-02MSD Acquired: 07/19/2023 21:11:07 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 72-12016MSD Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1902018	.1882342	.2090640
Stddev	.0015220	.0014707	.0012140
%RSD	.8001758	.7812925	.5806811
#1	.1919102	.1878826	.2104658
#2	.1889907	.1869712	.2083751
#3	.1897044	.1898488	.2083512

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1366.677	1831.200	44561.03	7866.421	1816.491
Stddev	10.565	15.124	417.52	39.368	19.696
%RSD	.7730171	.8258875	.9369583	.5004526	1.084275
#1	1376.300	1818.531	44875.58	7911.804	1800.643
#2	1368.358	1827.126	44720.16	7846.002	1810.289
#3	1355.372	1847.944	44087.34	7841.459	1838.542

Sample Name: O3654-02A Acquired: 07/19/2023 21:15:05 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8886267**	**2.034623**	**1.040653**	**2.246770**	**.7933033**	**2.146865**	**.2903088**
Stddev	.0075682	.013447	.001148	.010867	.0032376	.028473	.0071682
%RSD	.8516731	.6609019	.1103460	.4836674	.4081109	1.326255	2.469162
#1	.8944882	2.028048	1.041935	2.252434	.7942836	2.178377	.2984883
#2	.8800826	2.025728	1.039718	2.234241	.7896889	2.122988	.2873166
#3	.8913092	2.050092	1.040307	2.253634	.7959374	2.139230	.2851214

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2005157**	**.2081955**	**3.605558**	**.4008827**	**.2009643**	**.3117715**	**3.014996**
Stddev	.0037845	.0004557	.074085	.0020336	.0006907	.0055988	.041183
%RSD	1.887376	.2188827	2.054750	.5072798	.3436673	1.795820	1.365926
#1	.2048833	.2076694	3.690948	.4028642	.2010924	.3177886	3.059188
#2	.1984560	.2084690	3.567333	.3988007	.2002186	.3067152	2.977692
#3	.1982078	.2084480	3.558392	.4009831	.2015820	.3108106	3.008107

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2174907**	**2.536694**	**.5013332**	**.0776863**	**303.1553**	**.3024289**	**.3001003**
Stddev	.0064492	.050584	.0007495	.0004047	7.3063	.0023691	.0020740
%RSD	2.965273	1.994097	.1494966	.5209784	2.410098	.7833560	.6910976
#1	.2248600	2.594855	.5008244	.0775788	311.4638	.3037946	.3016645
#2	.2147352	2.512278	.5009813	.0773462	300.2698	.3037988	.2977477
#3	.2128771	2.502950	.5021939	.0781340	297.7323	.2996933	.3008886

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.29479**	**6.924717**	**.3047214**	**.3936284**	**.2951129**	**.8810295**	**.6660788**
Stddev	.30669	.006393	.0045671	.0014677	.0022207	.0144764	.0057717
%RSD	2.979104	.0923267	1.498783	.3728725	.7525008	1.643123	.8665204
#1	10.64257	6.928536	.3099539	.3931791	.2945222	.8977428	.6605376
#2	10.06304	6.917336	.3015361	.3924379	.2932472	.8724176	.6656424
#3	10.17875	6.928279	.3026741	.3952683	.2975692	.8729281	.6720563

Sample Name: O3654-02A Acquired: 07/19/2023 21:15:05 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1953894	.2034906	.2082909
Stddev	.0037989	.0053461	.0046343
%RSD	1.944273	2.627185	2.224906
#1	.1997397	.2094661	.2134738
#2	.1937017	.2018445	.2068524
#3	.1927268	.1991611	.2045464

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1319.577	1751.104	43014.96	7638.556	1747.704
Stddev	9.382	10.783	305.30	127.760	8.133
%RSD	.7109533	.6157583	.7097501	1.672563	.4653800
#1	1311.215	1758.962	42915.04	7494.853	1752.763
#2	1329.722	1755.539	43357.70	7739.299	1752.026
#3	1317.794	1738.812	42772.15	7681.515	1738.322

Sample Name: CCV10 Acquired: 07/19/2023 21:19:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.272222**	**5.218644**	**5.112885**	**5.264803**	**5.180356**	**9.889845**
Stddev	.026983	.006581	.011150	.019966	.017150	.145878
%RSD	.5117870	.1261116	.2180735	.3792394	.3310590	1.475033
#1	5.261717	5.211150	5.113454	5.246638	5.178270	9.750030
#2	5.252072	5.223484	5.101462	5.261590	5.164344	9.878393
#3	5.302877	5.221299	5.123740	5.286180	5.198453	10.04111

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.43267**	**.2494093**	**2.511487**	**24.68282**	**1.020819**	**2.547820**
Stddev	.10896	.0020405	.006313	.29815	.003240	.004810
%RSD	1.044425	.8181129	.2513661	1.207936	.3173532	.1887783
#1	10.31118	.2484403	2.506715	24.38492	1.023722	2.545505
#2	10.46507	.2480340	2.509101	24.68230	1.021411	2.544605
#3	10.52176	.2517537	2.518645	24.98123	1.017324	2.553350

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.264719**	**4.925431**	**2.504644**	**24.02320**	**2.552360**	**1.322858**
Stddev	.012180	.071278	.035065	.43633	.003806	.006357
%RSD	.9630955	1.447136	1.399984	1.816273	.1491089	.4805413
#1	1.251357	4.872783	2.467988	23.61554	2.554495	1.319055
#2	1.267598	4.896968	2.508081	23.97062	2.547967	1.319322
#3	1.275202	5.006542	2.537864	24.48343	2.554620	1.330197

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.93262**	**2.470559**	**2.602195**	**25.00181**	F **5.549921**	**5.027361**
Stddev	.34534	.032896	.002611	.34744	.006844	.056040
%RSD	1.385078	1.331525	.1003299	1.389663	.1233213	1.114698
#1	24.53837	2.434071	2.603843	24.65984	5.557470	5.022996
#2	25.07798	2.479658	2.599185	24.99112	5.548175	4.973631
#3	25.18151	2.497947	2.603558	25.35448	5.544120	5.085456

Sample Name: CCV10 Acquired: 07/19/2023 21:19:03 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.137332**	**5.018554**	**5.068177**	**5.020758**	**4.991201**	**5.237541**
Stddev	.022847	.012159	.060305	.005809	.070725	.043030
%RSD	.4447188	.2422901	1.189881	.1156976	1.416985	.8215661
#1	5.126242	5.016557	5.059794	5.017881	4.925382	5.189384
#2	5.122147	5.007516	5.012502	5.016950	4.982243	5.251027
#3	5.163607	5.031588	5.132235	5.027444	5.065978	5.272213

Elem	Sr4077
Units	ppm
Avg	**4.786586**
Stddev	.096825
%RSD	2.022837
#1	4.704498
#2	4.761894
#3	4.893366

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1210.125**	**1621.576**	**40664.31**	**7147.277**	**1657.151**
Stddev	5.672	5.640	59.22	38.797	4.652
%RSD	.4687059	.3478259	.1456421	.5428262	.2807096
#1	1205.320	1618.912	40617.38	7141.075	1652.006
#2	1208.674	1628.055	40644.70	7188.801	1661.059
#3	1216.382	1617.762	40730.85	7111.954	1658.388

Sample Name: CCB10 Acquired: 07/19/2023 21:22:58 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003688**	**.0015740**	**-.001358**	**.0050705**	**-.000340**	**.0079603**	**-.000360**
Stddev	.005049	.0023850	.001038	.0032226	.001558	.0053298	.000235
%RSD	136.9079	151.5287	76.48983	63.55675	458.1089	66.95478	65.12463
#1	-.009072	.0020233	-.001213	.0013494	.001295	.0028203	-.000510
#2	.000942	-.001004	-.000399	.0069078	-.001807	.0075990	-.000090
#3	-.002935	.003702	-.002461	.0069543	-.000508	.0134616	-.000481

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000092**	**-.000119**	**.0229327**	**-.000368**	**.0000921**	**.0003275**	**-.002987**
Stddev	.0000394	.000052	.0023412	.000151	.0002490	.0033927	.002766
%RSD	426.5874	43.88692	10.20901	40.93820	270.2842	1036.028	92.61827
#1	-.000034	-.000165	.0224426	-.000387	-.000154	-.003300	-.003641
#2	.000043	-.000062	.0208754	-.000209	.000086	.003423	.000048
#3	.000019	-.000129	.0254802	-.000508	.000344	.000859	-.005367

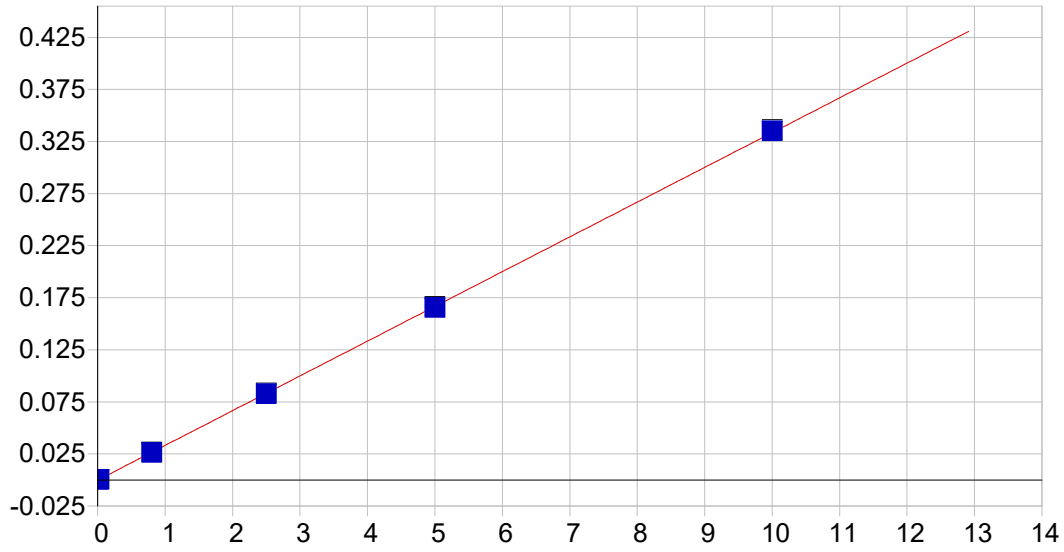
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000356**	**.0082687**	**.0000938**	**.0003750**	**-.107831**	**-.000888**	**.0000442**
Stddev	.000694	.0205917	.0002761	.0000963	.239331	.000424	.0003343
%RSD	195.1306	249.0331	294.4369	25.67240	221.9500	47.74671	756.5357
#1	-.000916	.0068696	.0001014	.0002888	-.070214	-.000446	-.000323
#2	-.000573	.0295242	.0003659	.0004788	.110464	-.001292	.000123
#3	.000421	-.011588	-.000186	.0003573	-.363743	-.000926	.000332

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1066214**	**-.001890**	**.0067078**	**.0021745**	**-.006325**	**.0014625**	**.0049026**
Stddev	.0529167	.001904	.0006431	.0001294	.005404	.0007508	.0017015
%RSD	49.63048	100.7462	9.587282	5.948256	85.43791	51.33354	34.70633
#1	.0471364	-.001945	.0065787	.0023175	-.002792	.0009363	.0068557
#2	.1242672	.000041	.0074056	.0021405	-.012546	.0023223	.0037408
#3	.1484606	-.003766	.0061390	.0020657	-.003638	.0011290	.0041114

Sample Name: CCB10 Acquired: 07/19/2023 21:22:58 Type: Unk
Method: NON EPA-6010-200.7(v145) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0004138	.0000794	.0001820
Stddev	.0009074	.0004538	.0000844
%RSD	219.2945	571.5037	46.36939
#1	.0007036	.0005160	.0002750
#2	-.000603	.0001121	.0001101
#3	.001141	-.000390	.0001610

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1283.429	1712.974	42990.03	7348.987	1812.237
Stddev	9.734	4.553	113.78	29.900	6.729
%RSD	.7584056	.2658033	.2646553	.4068555	.3713166
#1	1276.430	1709.159	42887.83	7315.830	1806.882
#2	1279.314	1718.014	42969.64	7357.230	1819.791
#3	1294.545	1711.748	43112.62	7373.900	1810.039

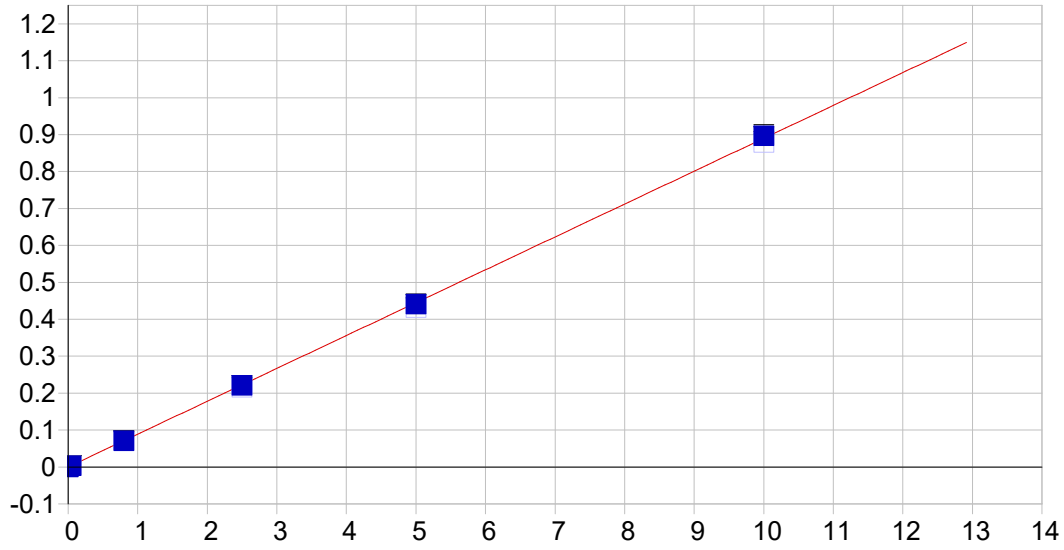


As 189.042 {479}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000220	Re-Slope:	1.000000
A1 (Gain):	0.033376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.007052		
Predicted MQL:	0.023507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00022	.000	1
S1	.02000	.02247	.002	12.4	.00054	.000	1
S3	2.5000	2.4872	-.013	-.512	.08290	.000	1
S4	5.0000	4.9616	-.038	-.769	.16559	.001	1
S5	10.000	10.050	.050	.505	.33564	.001	1
S2	.80000	.79825	-.002	-.218	.02646	.000	1

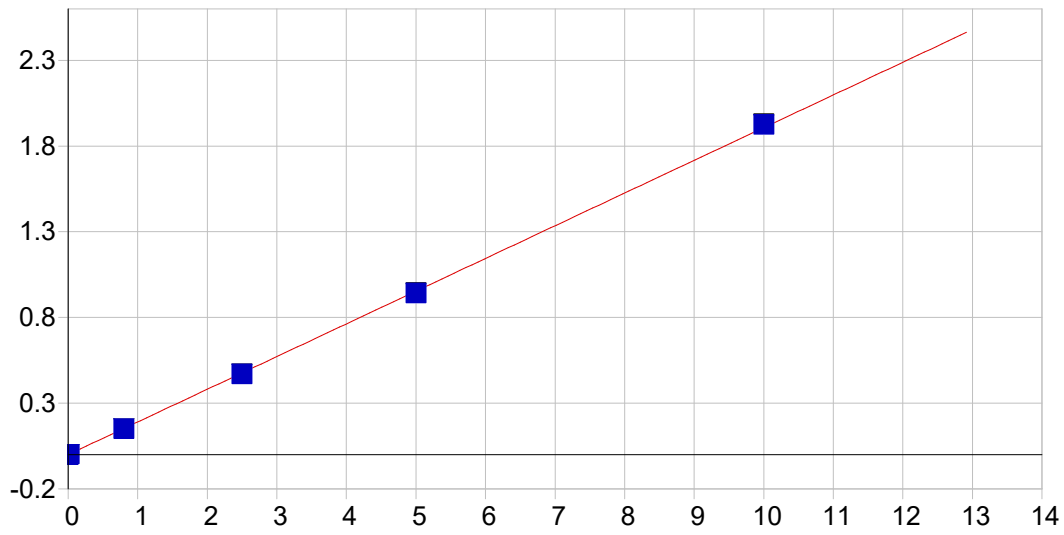


Tl 190.856 {477}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000059	Re-Slope:	1.000000
A1 (Gain):	0.088998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.002499		
Predicted MQL:	0.008328		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.04000	.03944	-.001	-1.41	.00331	.000	1
S3	2.5000	2.4746	-.025	-1.02	.21553	.001	1
S4	5.0000	4.9513	-.049	-.974	.43131	.001	1
S5	10.000	10.077	.077	.770	.87819	.003	1
S2	.80000	.79770	-.002	-.287	.06945	.001	1

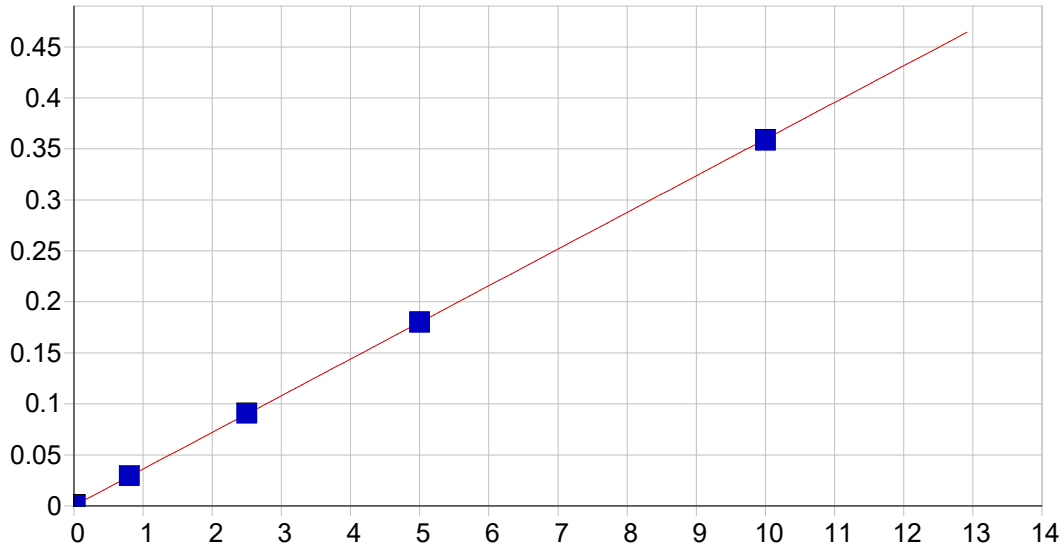


Pb 220.353 {453}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000101	Re-Slope:	1.000000
A1 (Gain):	0.190736	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002320		
Predicted MQL:	0.007734		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.01200	.01413	.002	17.7	.00254	.000	1
S3	2.5000	2.4644	-.036	-1.42	.46928	.001	1
S4	5.0000	4.9377	-.062	-1.25	.94034	.002	1
S5	10.000	10.102	.102	1.02	1.9240	.003	1
S2	.80000	.79388	-.006	-.765	.15110	.001	1

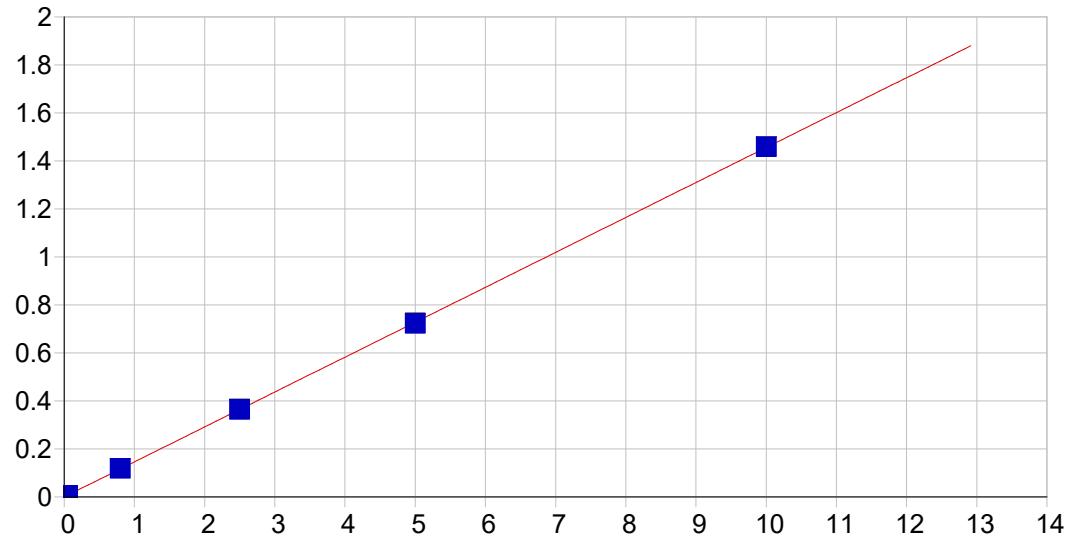


Se 196.090 {472}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000221	Re-Slope:	1.000000
A1 (Gain):	0.035933	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.006531		
Predicted MQL:	0.021769		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00022	.000	1
S1	.02000	.02370	.004	18.5	.00107	.000	1
S3	2.5000	2.5212	.021	.846	.09081	.000	1
S4	5.0000	4.9940	-.006	-.120	.17966	.001	1
S5	10.000	9.9633	-.037	-.367	.35821	.001	1
S2	.80000	.81781	.018	2.23	.02961	.000	1

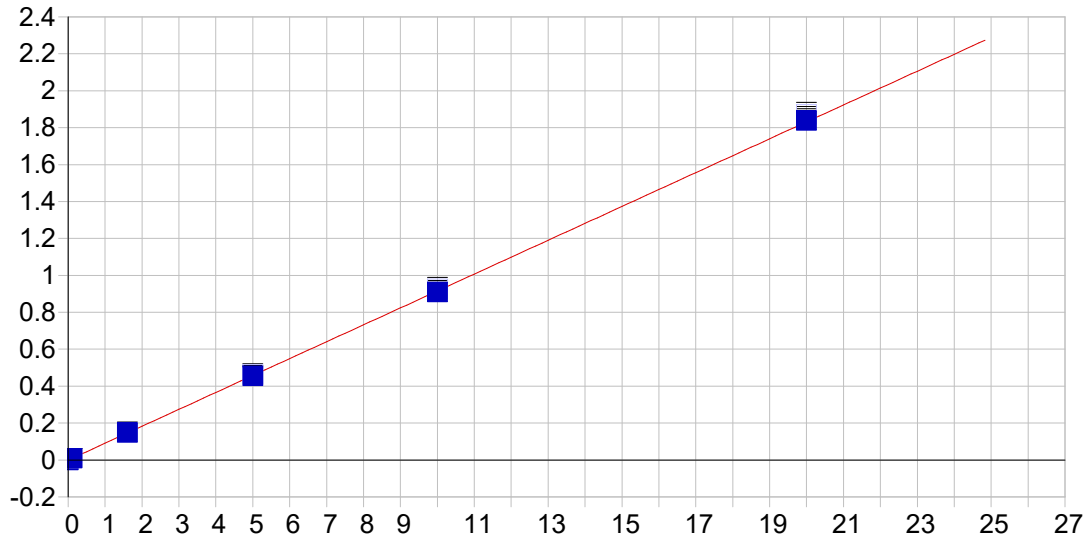


Sb 206.833 {463}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000264	Re-Slope:	1.000000
A1 (Gain):	0.145519	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002164		
Predicted MQL:	0.007213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00026	.000	1
S1	.05000	.04973	-.000	-.547	.00748	.000	1
S3	2.5000	2.5016	.002	.066	.36427	.001	1
S4	5.0000	4.9670	-.033	-.660	.72298	.001	1
S5	10.000	10.019	.019	.190	1.4581	.002	1
S2	.80000	.81265	.013	1.58	.11851	.001	1

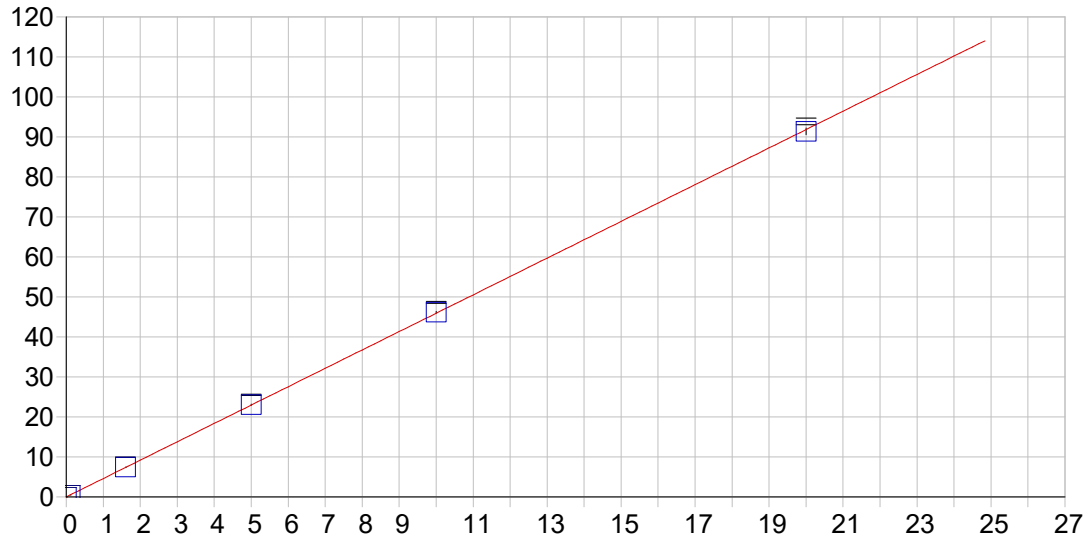


Al 396.152 { 85}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000533	Re-Slope:	1.000000
A1 (Gain):	0.091593	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.008891		
Predicted MQL:	0.029636		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00053	.000	1
S1	.10000	.10800	.008	8.00	.01004	.000	1
S3	5.0000	4.9683	-.032	-.634	.46304	.004	1
S4	10.000	9.9361	-.064	-.639	.92657	.008	1
S5	20.000	20.068	.068	.341	1.8716	.011	1
S2	1.6000	1.6189	.019	1.18	.15047	.001	1

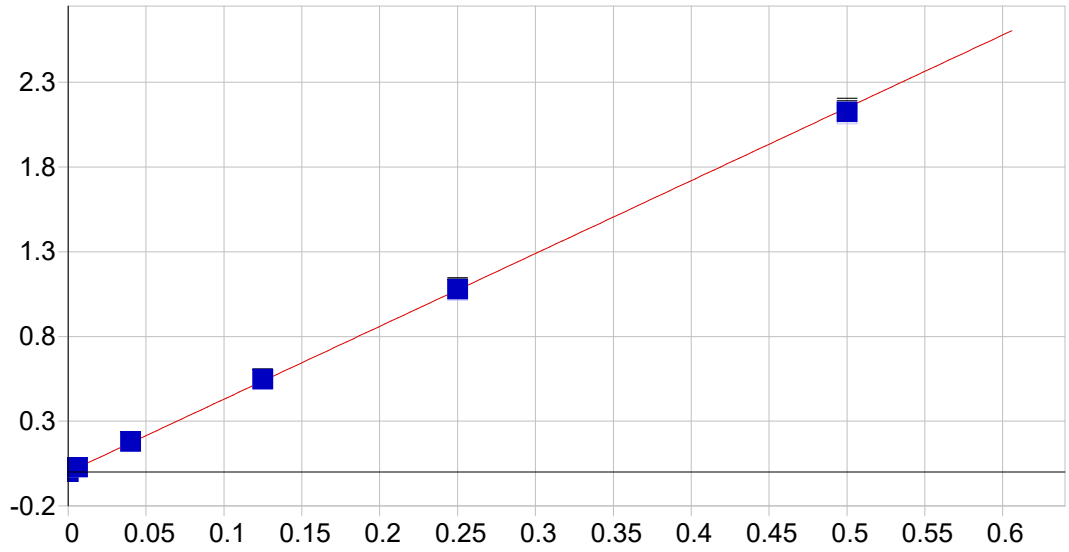


Ba 493.409 { 68}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004789	Re-Slope:	1.000000
A1 (Gain):	4.591802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.001926		
Predicted MDL:	0.000382		
Predicted MQL:	0.001272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00477	.001	1
S1	.10000	.10323	.003	3.23	.47882	.004	1
S3	5.0000	5.0222	.022	.445	23.066	.147	1
S4	10.000	10.052	.052	.516	46.160	.279	1
S5	20.000	19.903	-.097	-.483	91.397	.834	1
S2	1.6000	1.6195	.020	1.22	7.4413	.021	1

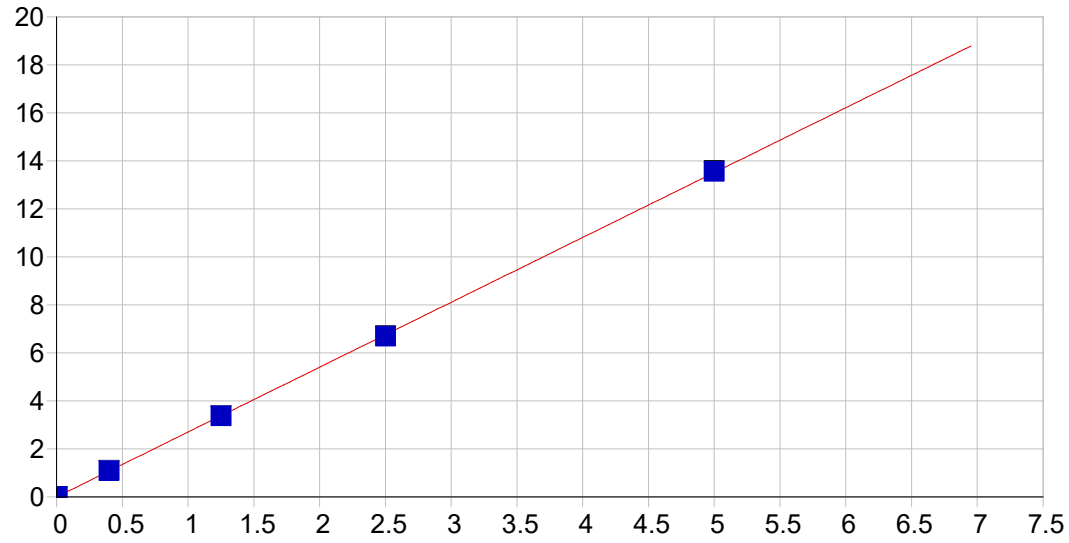


Be 234.861 {144}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000279	Re-Slope:	1.000000
A1 (Gain):	4.299733	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999852	Status:	OK.
Std Error of Est:	0.000212		
Predicted MDL:	0.000074		
Predicted MQL:	0.000245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00028	.000	1
S1	.00600	.00671	.001	11.9	.02830	.001	1
S3	.12500	.12734	.002	1.87	.54363	.003	1
S4	.25000	.25076	.001	.305	1.0707	.010	1
S5	.50000	.49444	-.006	-1.11	2.1112	.022	1
S2	.04000	.04175	.002	4.37	.17807	.000	1

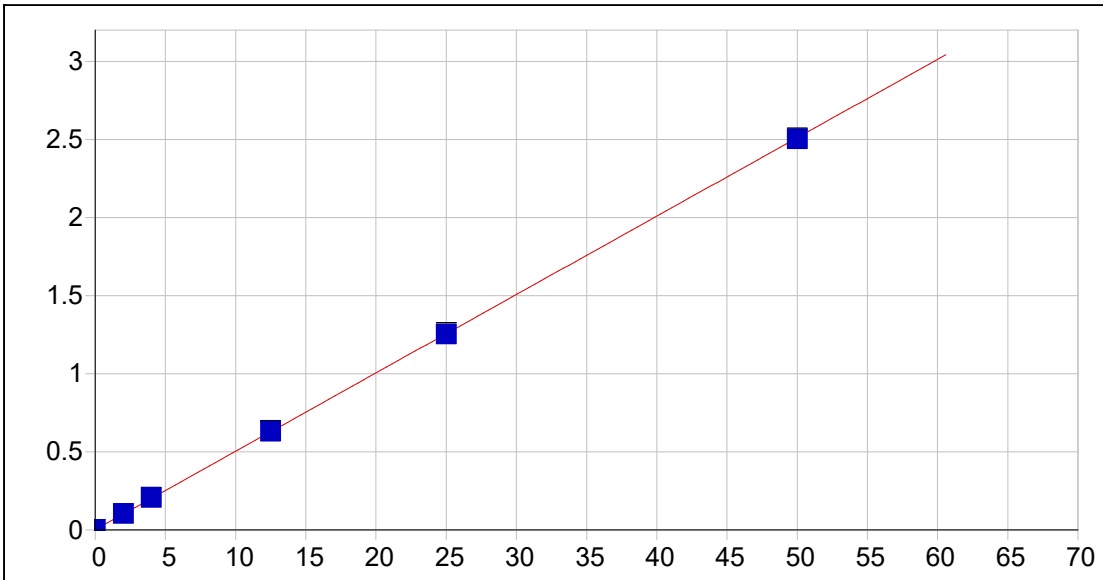


Cd 214.438 {457}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000641	Re-Slope:	1.000000
A1 (Gain):	2.702597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.000115		
Predicted MQL:	0.000382		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00064	.000	1
S1	.00600	.00682	.001	13.6	.01907	.000	1
S3	1.2500	1.2475	-.003	-.201	3.3723	.002	1
S4	2.5000	2.4787	-.021	-.852	6.7000	.006	1
S5	5.0000	5.0165	.017	.330	13.559	.022	1
S2	.40000	.40649	.006	1.62	1.0993	.008	1

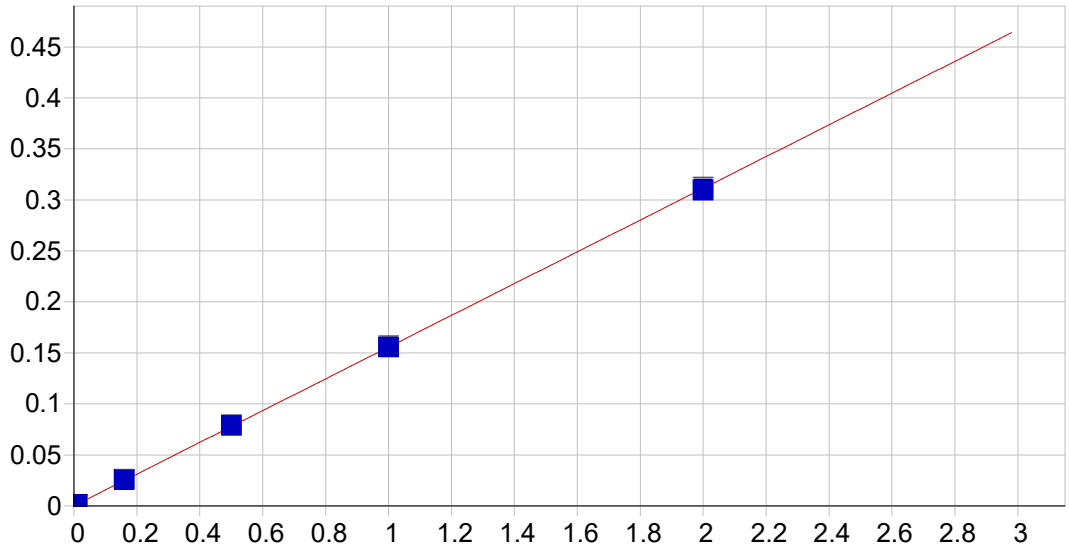


Ca 373.690 { 90}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001559	Re-Slope:	1.000000
A1 (Gain):	0.050178	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000181		
Predicted MDL:	0.011917		
Predicted MQL:	0.039724		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00009	-.000	.000	.00155	.000	1
S2	4.0000	4.0970	.097	2.42	.20706	.001	1
S3	12.500	12.563	.063	.508	.63172	.005	1
S4	25.000	24.937	-.063	-.253	1.2523	.011	1
S5	50.000	49.857	-.143	-.287	2.5023	.006	1
S1	2.0000	2.0464	.046	2.32	.10423	.001	1

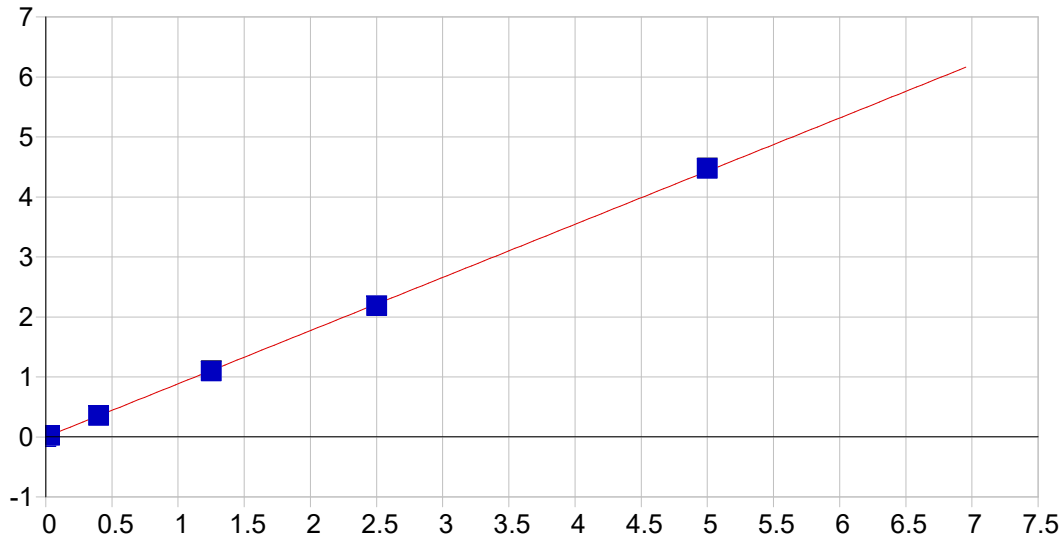


Cr 267.716 {126}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000056	Re-Slope:	1.000000
A1 (Gain):	0.155634	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.000474		
Predicted MQL:	0.001578		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00006	.000	1
S1	.01000	.01080	.001	7.97	.00176	.000	1
S3	.50000	.50619	.006	1.24	.07939	.000	1
S4	1.0000	1.0002	.000	.023	.15682	.000	1
S5	2.0000	1.9874	-.013	-.632	.31155	.001	1
S2	.16000	.16541	.005	3.38	.02598	.000	1

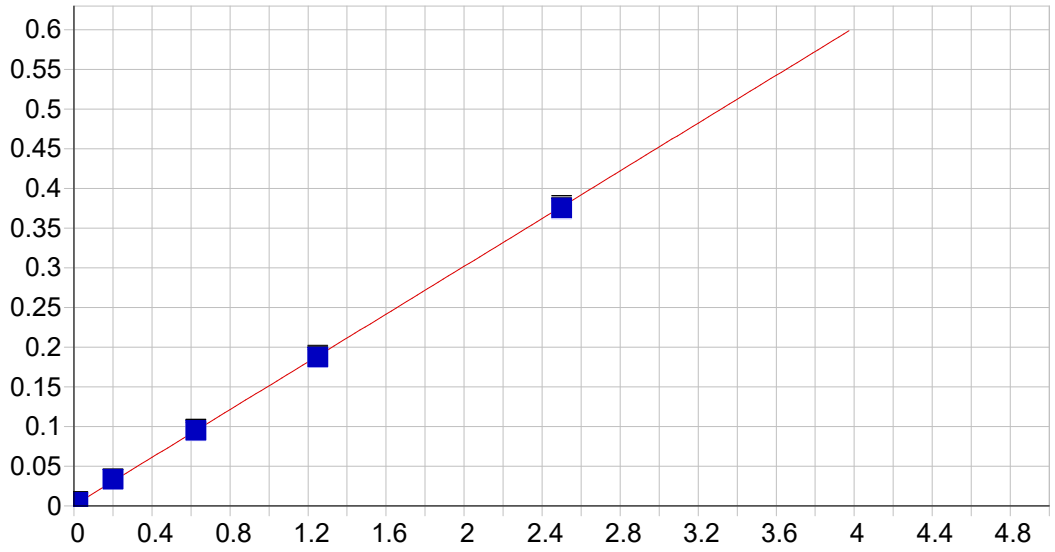


Co 228.616 {448}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000468	Re-Slope:	1.000000
A1 (Gain):	0.886002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000192		
Predicted MDL:	0.000349		
Predicted MQL:	0.001165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00047	.000	1
S1	.03000	.03017	.000	.572	.02618	.000	1
S3	1.2500	1.2366	-.013	-1.07	1.0975	.002	1
S4	2.5000	2.4663	-.034	-1.35	2.1893	.001	1
S5	5.0000	5.0474	.047	.948	4.4808	.004	1
S2	.40000	.39953	-.000	-.116	.35426	.003	1

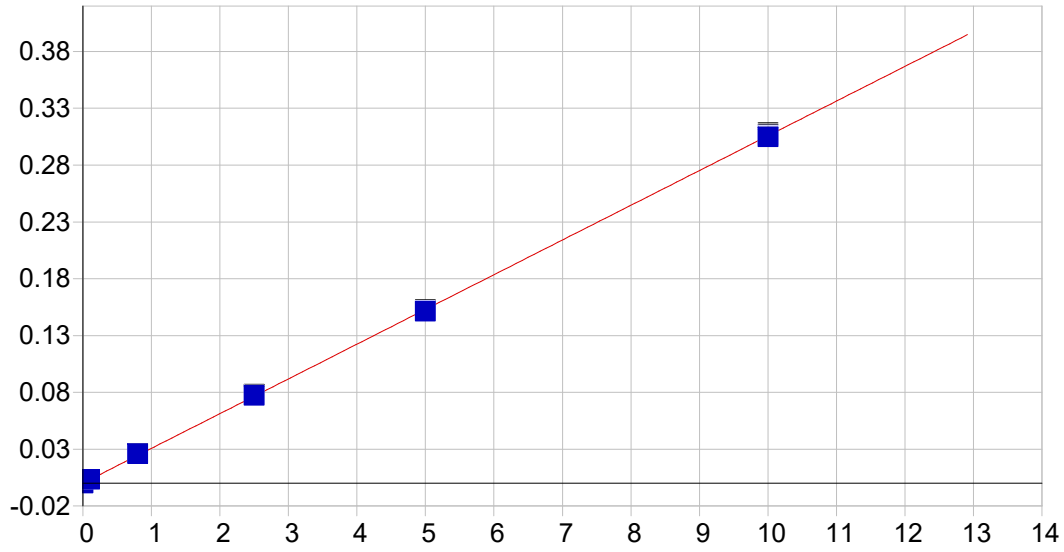


Cu 324.754 {104}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000930	Re-Slope:	1.000000
A1 (Gain):	0.150487	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.004007		
Predicted MQL:	0.013356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00093	.000	1
S1	.02000	.02381	.004	19.0	.00451	.001	1
S3	.62500	.62513	.000	.021	.09457	.002	1
S4	1.2500	1.2401	-.010	-.794	.18668	.002	1
S5	2.5000	2.4889	-.011	-.443	.37375	.003	1
S2	.20000	.21705	.017	8.52	.03345	.000	1

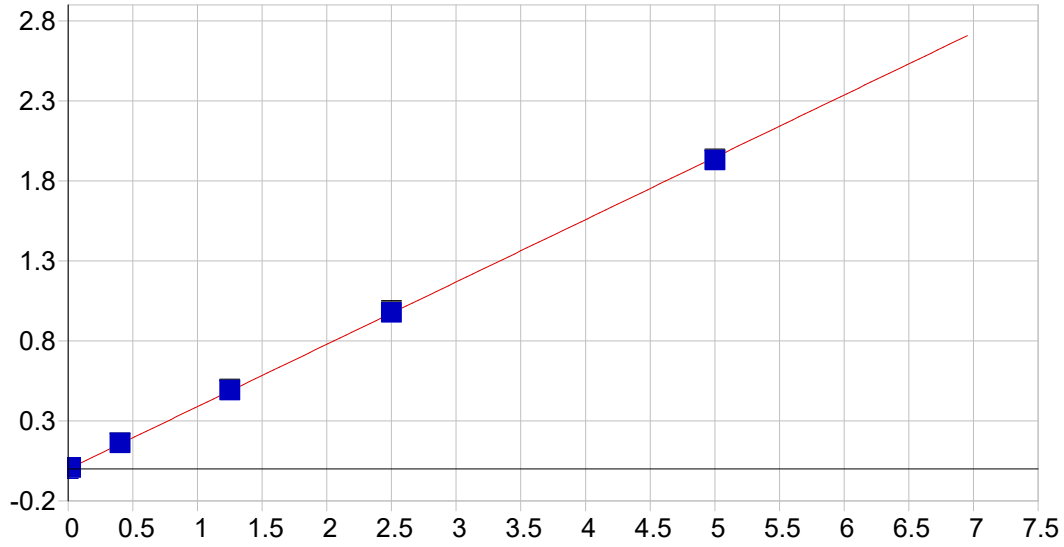


Fe 259.837 {130}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000076	Re-Slope:	1.000000
A1 (Gain):	0.030571	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.007754		
Predicted MQL:	0.025848		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00008	.000	1
S1	.10000	.11142	.011	11.4	.00349	.000	1
S3	2.5000	2.5256	.026	1.03	.07766	.001	1
S4	5.0000	4.9470	-.053	-1.06	.15206	.001	1
S5	10.000	9.9720	-.028	-.280	.30643	.002	1
S2	.80000	.84395	.044	5.49	.02600	.000	1

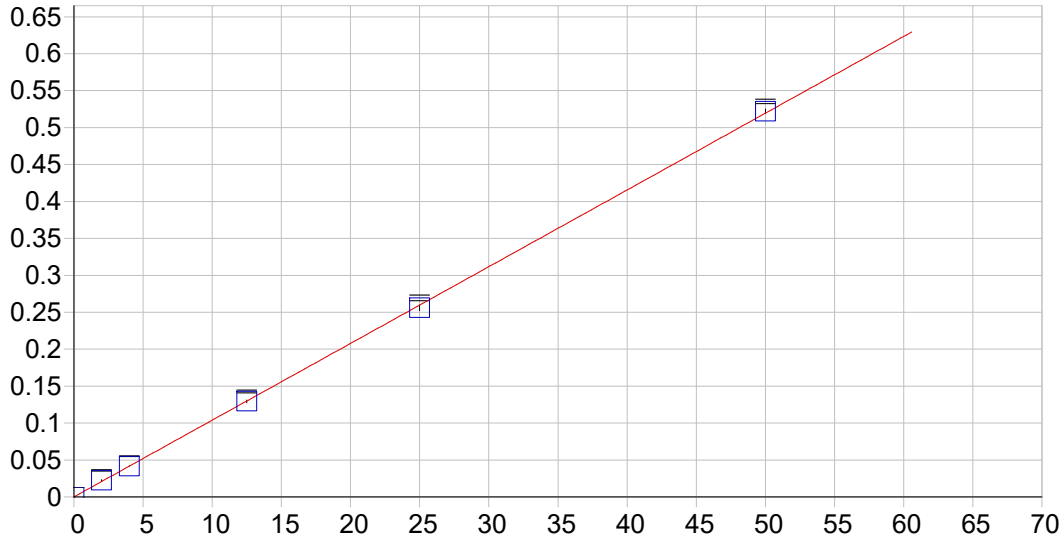


Mn 257.610 {131}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000099	Re-Slope:	1.000000
A1 (Gain):	0.389464	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.000540		
Predicted MQL:	0.001801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.02288	.003	14.4	.00882	.000	1
S3	1.2500	1.2648	.015	1.18	.49257	.005	1
S4	2.5000	2.5104	.010	.417	.97780	.011	1
S5	5.0000	4.9572	-.043	-.855	1.9309	.004	1
S2	.40000	.41466	.015	3.67	.16142	.001	1

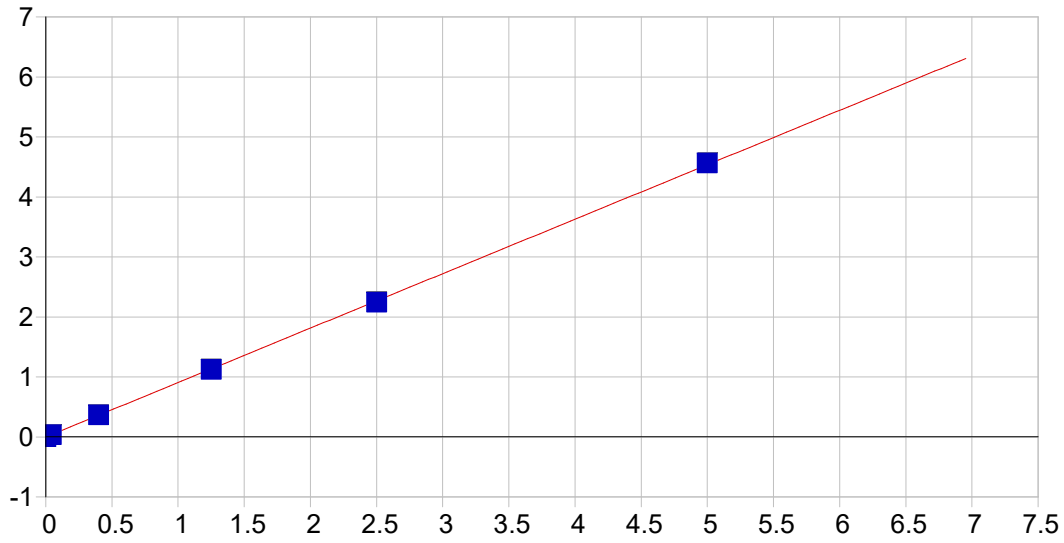


Mg 279.079 {121}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.010388	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000083		
Predicted MDL:	0.026864		
Predicted MQL:	0.089548		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00006	.000	1
S2	4.0000	3.9982	-.002	-.044	.04159	.001	1
S3	12.500	12.445	-.055	-.443	.12933	.002	1
S4	25.000	24.650	-.350	-1.40	.25612	.004	1
S5	50.000	50.235	.235	.470	.52189	.003	1
S1	2.0000	2.1726	.173	8.63	.02263	.001	1

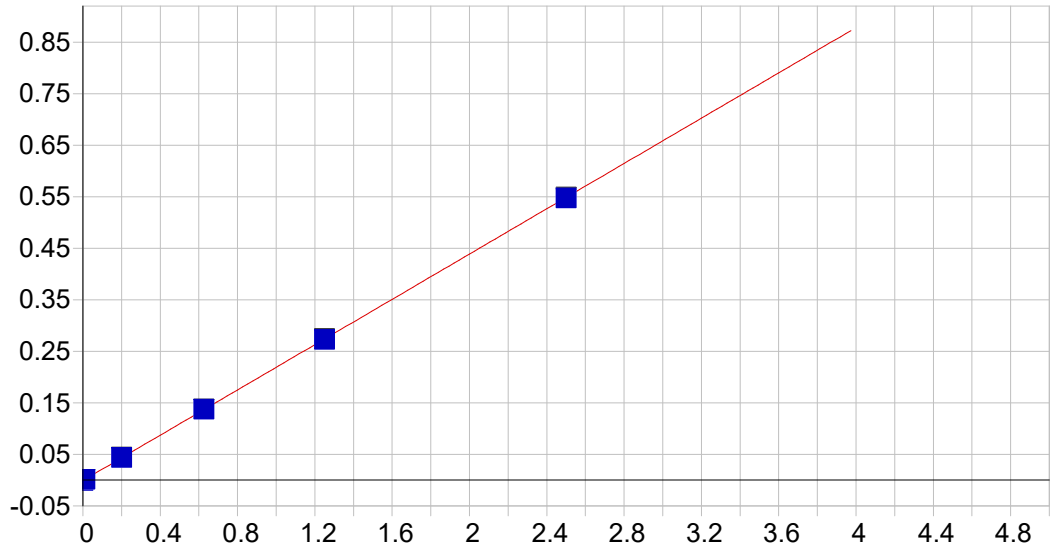


Ni 231.604 {446}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001371	Re-Slope:	1.000000
A1 (Gain):	0.907387	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000159		
Predicted MDL:	0.000443		
Predicted MQL:	0.001477		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00137	.000	1
S1	.04000	.04071	.001	1.77	.03560	.001	1
S3	1.2500	1.2413	-.009	-.693	1.1261	.001	1
S4	2.5000	2.4755	-.024	-.980	2.2470	.001	1
S5	5.0000	5.0292	.029	.585	4.5664	.009	1
S2	.40000	.40320	.003	.800	.36483	.002	1

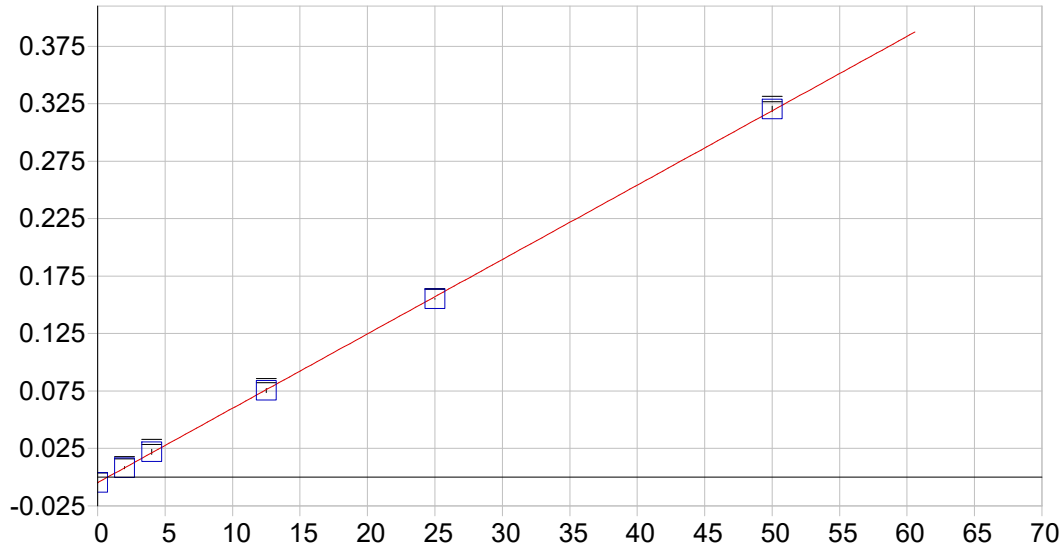


Ag 328.068 {103}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000762	Re-Slope:	1.000000
A1 (Gain):	0.219752	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.000505		
Predicted MQL:	0.001682		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00076	.000	1
S1	.01000	.01032	.000	3.23	.00150	.000	1
S3	.62500	.62919	.004	.670	.13736	.000	1
S4	1.2500	1.2460	-.004	-.320	.27276	.001	1
S5	2.5000	2.4958	-.004	-.167	.54711	.001	1
S2	.20000	.20368	.004	1.84	.04395	.000	1

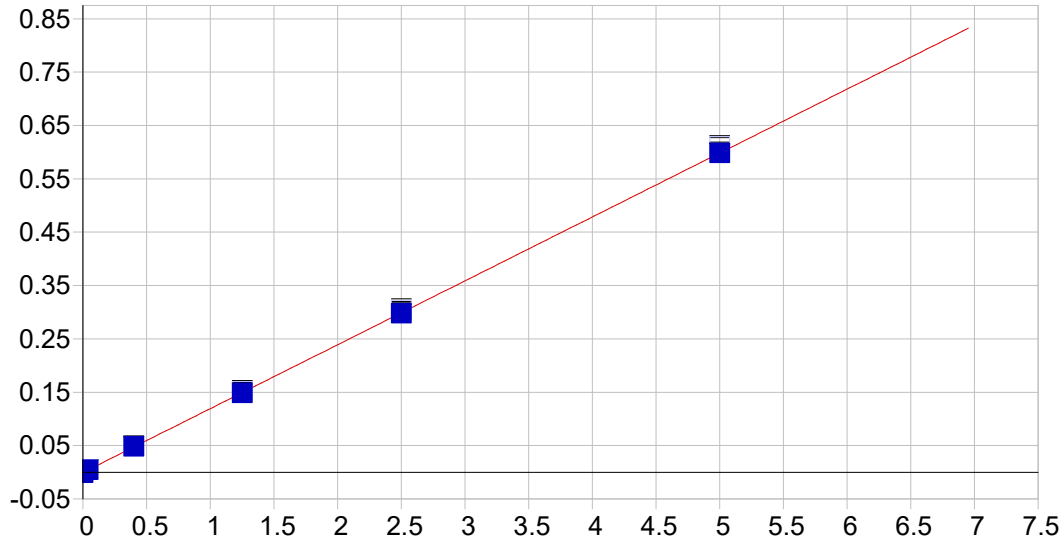


Na 818.326 { 41}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004769	Re-Slope:	1.000000
A1 (Gain):	0.006473	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.234116		
Predicted MQL:	0.780386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	-.00477	.000	1
S2	4.0000	4.1415	.142	3.54	.02204	.002	1
S3	12.500	12.399	-.101	-.809	.07549	.002	1
S4	25.000	24.725	-.275	-1.10	.15528	.000	1
S5	50.000	50.231	.231	.463	.32039	.002	1
S1	2.0000	2.0031	.003	.156	.00820	.001	1

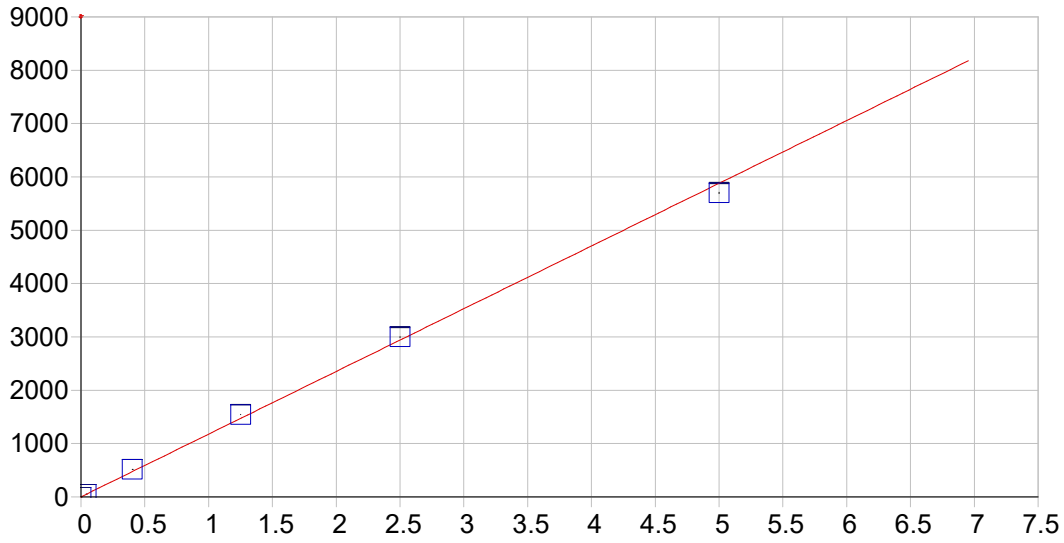


V 292.402 {115}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000581	Re-Slope:	1.000000
A1 (Gain):	0.119788	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.002736		
Predicted MQL:	0.009119		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00058	.000	1
S1	.04000	.04386	.004	9.65	.00491	.000	1
S3	1.2500	1.2440	-.006	-.476	.15142	.002	1
S4	2.5000	2.4940	-.006	-.240	.30414	.002	1
S5	5.0000	5.0014	.001	.028	.61046	.002	1
S2	.40000	.40657	.007	1.64	.04908	.000	1

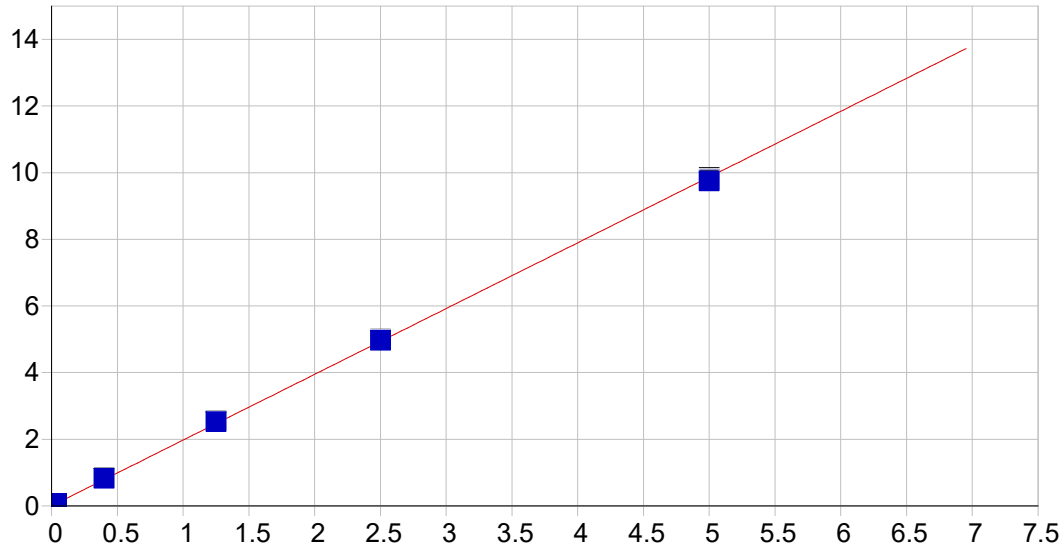


Zn 206.200 {464}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.415052	Re-Slope:	1.000000
A1 (Gain):	1175.755809	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999291	Status:	OK.
Std Error of Est:	1.039454		
Predicted MDL:	0.000395		
Predicted MQL:	0.001317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	1.4020	.157	1
S1	.04000	.04579	.006	14.5	55.250	.143	1
S3	1.2500	1.3111	.061	4.88	1542.9	2.24	1
S4	2.5000	2.5488	.049	1.95	2998.1	8.52	1
S5	5.0000	4.8466	-.153	-3.07	5699.9	14.7	1
S2	.40000	.43776	.038	9.44	516.11	.542	1

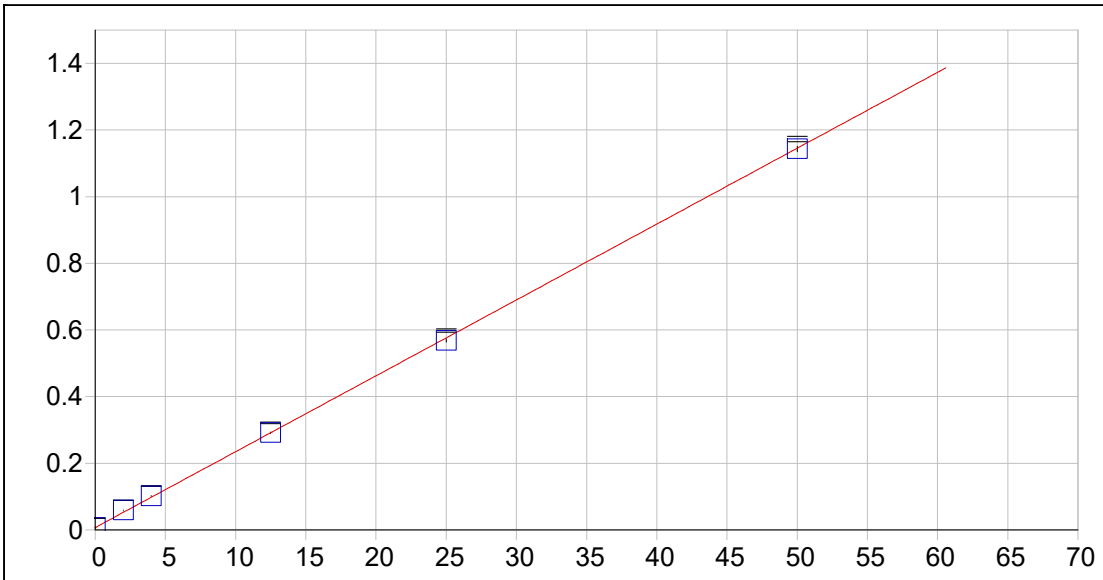


Zn 213.856 {158}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001573	Re-Slope:	1.000000
A1 (Gain):	1.973774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000752		
Predicted MDL:	0.000448		
Predicted MQL:	0.001494		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00156	.000	1
S1	.04000	.04319	.003	7.97	.08727	.002	1
S3	1.2500	1.2769	.027	2.15	2.5359	.011	1
S4	2.5000	2.5140	.014	.562	4.9915	.007	1
S5	5.0000	4.9385	-.062	-1.23	9.8047	.047	1
S2	.40000	.41735	.017	4.34	.82977	.004	1

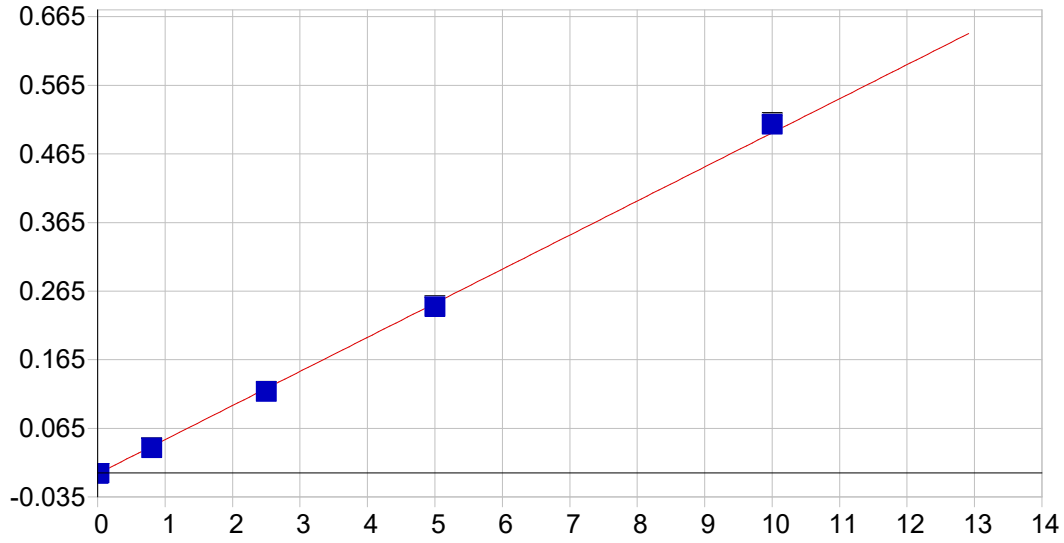


K 769.896 { 44}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007094	Re-Slope:	1.000000
A1 (Gain):	0.022766	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999728	Status:	OK.
Std Error of Est:	0.000281		
Predicted MDL:	0.062573		
Predicted MQL:	0.208575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00033	-.000	.000	.00709	.002	1
S2	4.0000	4.1468	.147	3.67	.10150	.001	1
S3	12.500	12.493	-.007	-.060	.29150	.003	1
S4	25.000	24.663	-.337	-1.35	.56858	.005	1
S5	50.000	49.912	-.088	-.175	1.1434	.008	1
S1	2.0000	2.2856	.286	14.3	.05913	.001	1

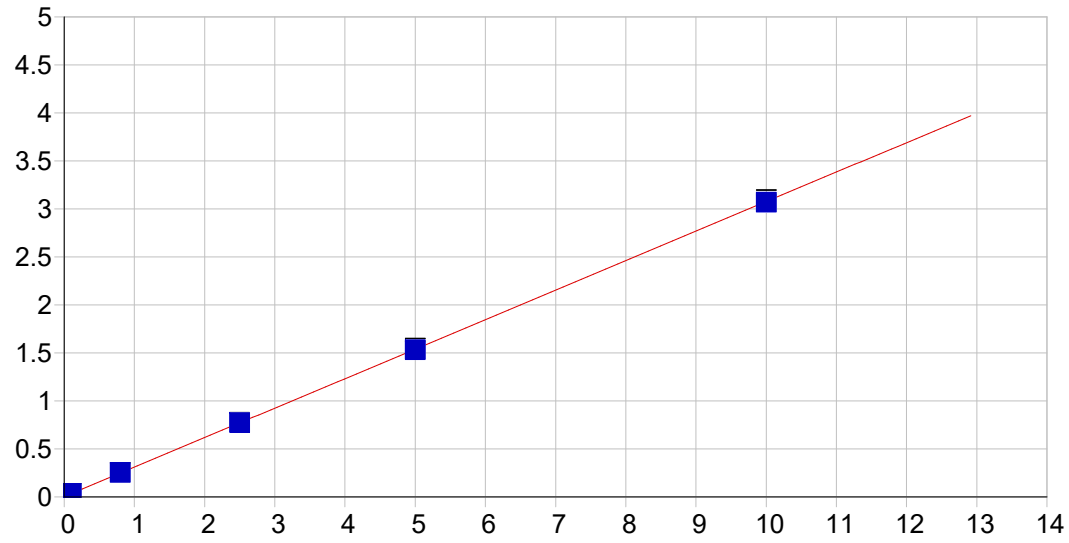


P 177.495 {490}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001239	Re-Slope:	1.000000
A1 (Gain):	0.049699	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999609	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.003855		
Predicted MQL:	0.012849		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00124	.000	1
S1	.02000	.01670	-.003	-16.5	-.00040	.000	1
S3	2.5000	2.4043	-.096	-3.83	.11854	.000	1
S4	5.0000	4.8989	-.101	-2.02	.24280	.001	1
S5	10.000	10.243	.243	2.43	.50895	.002	1
S2	.80000	.75744	-.043	-5.32	.03650	.000	1

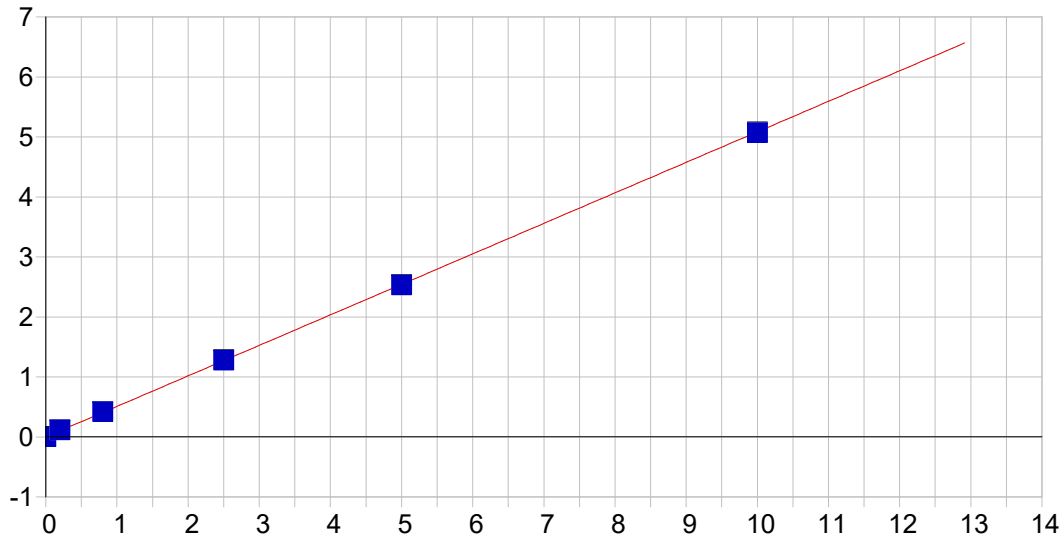


B 249.678 {135}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002749	Re-Slope:	1.000000
A1 (Gain):	0.307302	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.001121		
Predicted MQL:	0.003738		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00275	.000	1
S1	.10000	.10770	.008	7.70	.03573	.001	1
S3	2.5000	2.5108	.011	.430	.77255	.003	1
S4	5.0000	4.9838	-.016	-.324	1.5308	.016	1
S5	10.000	9.9858	-.014	-.142	3.0644	.026	1
S2	.80000	.81194	.012	1.49	.25170	.002	1

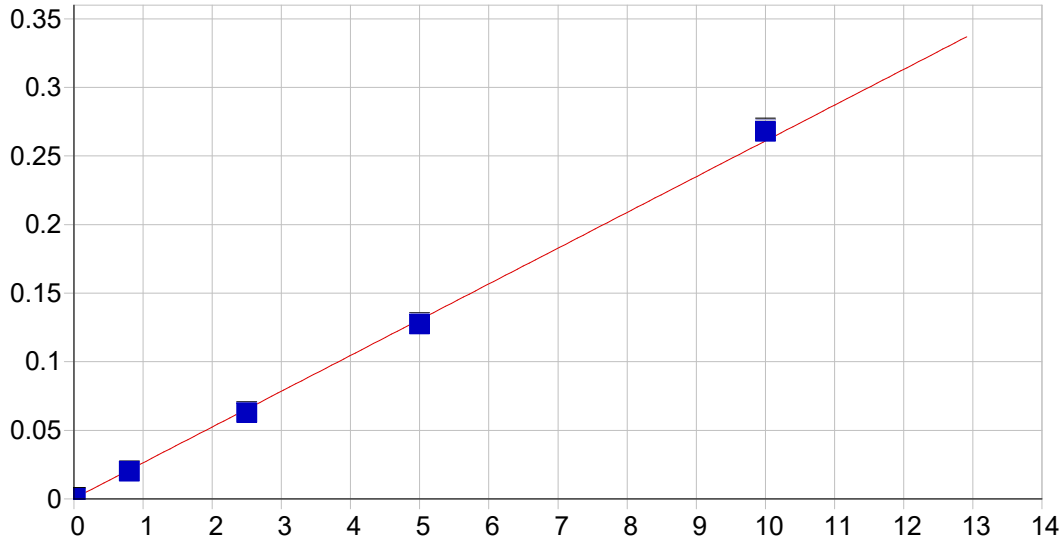


Mo 202.030 {467}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.508430	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000470		
Predicted MDL:	0.000486		
Predicted MQL:	0.001621		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00000	.000	1
S1	.20000	.22059	.021	10.3	.11218	.001	1
S3	2.5000	2.5150	.015	.599	1.2790	.002	1
S4	5.0000	4.9729	-.027	-.542	2.5289	.008	1
S5	10.000	9.9732	-.027	-.268	5.0718	.008	1
S2	.80000	.81838	.018	2.30	.41619	.003	1

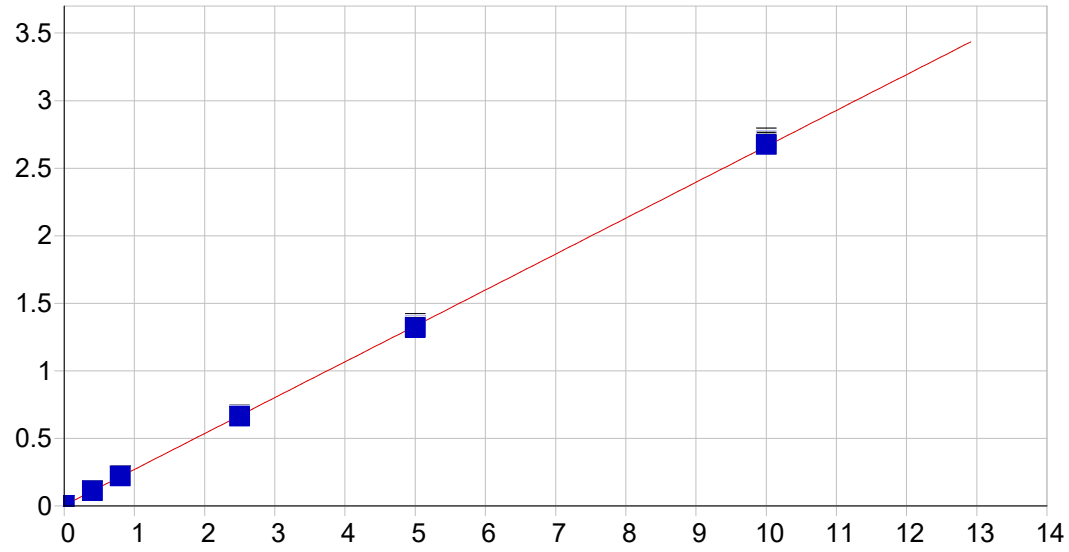


S 182.034 {485}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000296	Re-Slope:	1.000000
A1 (Gain):	0.026072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999562	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.006819		
Predicted MQL:	0.022729		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00030	.000	1
S1	.02000	.01774	-.002	-11.3	.00075	.000	1
S3	2.5000	2.3982	-.102	-4.07	.06314	.000	1
S4	5.0000	4.8767	-.123	-2.47	.12808	.001	1
S5	10.000	10.265	.265	2.65	.26921	.001	1
S2	.80000	.76240	-.038	-4.70	.02028	.000	1

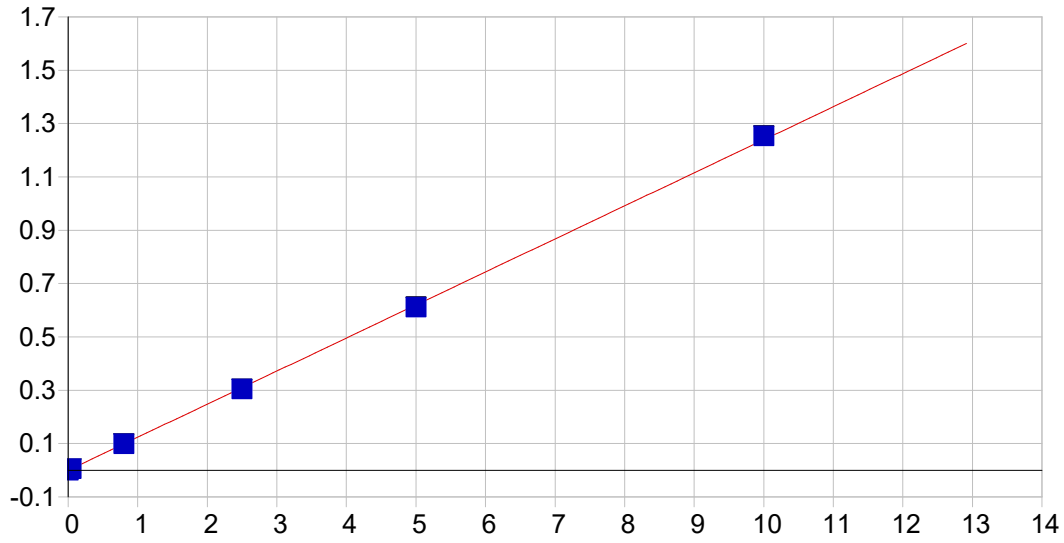


Si 251.611 {134}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004010	Re-Slope:	1.000000
A1 (Gain):	0.265731	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000221		
Predicted MDL:	0.001341		
Predicted MQL:	0.004469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00401	.000	1
S1	.40000	.40108	.001	.270	.11110	.001	1
S3	2.5000	2.4806	-.019	-.778	.67099	.001	1
S4	5.0000	4.9524	-.048	-.952	1.3357	.015	1
S5	10.000	10.051	.051	.506	2.7060	.019	1
S2	.80000	.81538	.015	1.92	.22319	.001	1

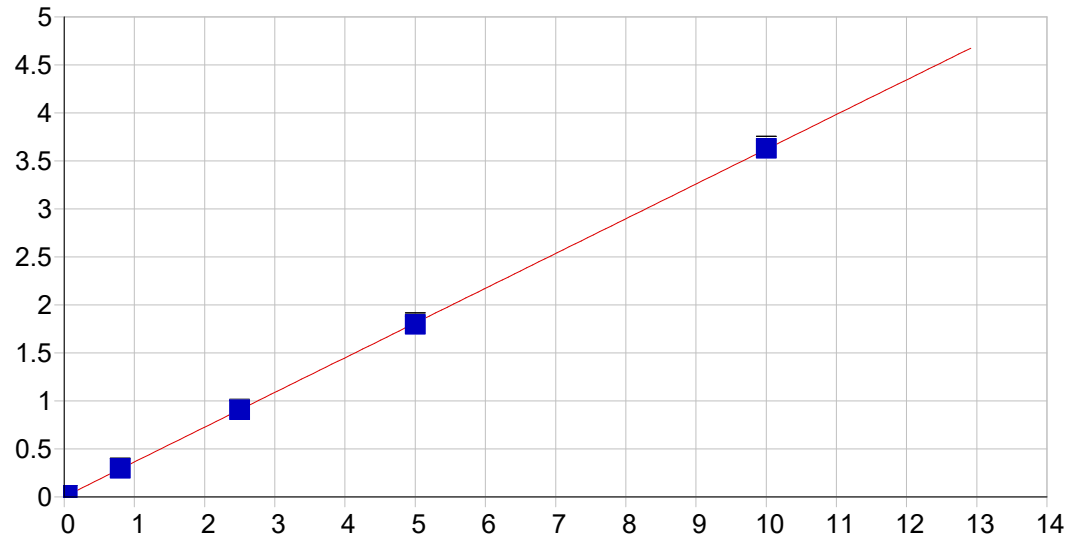


Sn 189.989 {478}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.123929	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999917	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	0.001591		
Predicted MQL:	0.005303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.04000	.04067	.001	1.69	.00501	.000	1
S3	2.5000	2.4554	-.045	-1.78	.30402	.001	1
S4	5.0000	4.9328	-.067	-1.34	.61079	.001	1
S5	10.000	10.115	.115	1.15	1.2525	.001	1
S2	.80000	.79634	-.004	-.458	.09858	.001	1

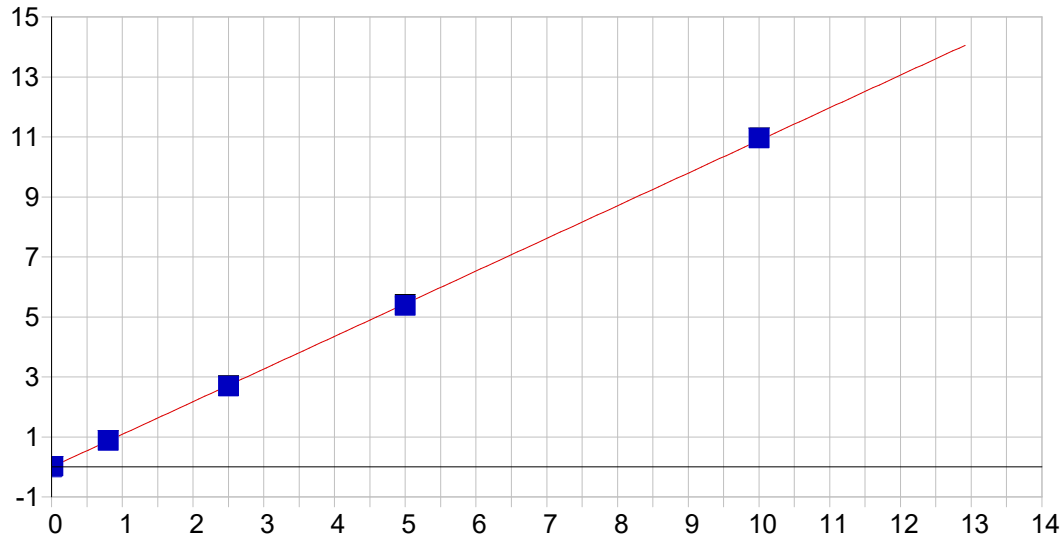


Ti 336.121 {100}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002186	Re-Slope:	1.000000
A1 (Gain):	0.361857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.001181		
Predicted MQL:	0.003938		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00219	.000	1
S1	.04000	.04212	.002	5.31	.01742	.000	1
S3	2.5000	2.4990	-.001	-.040	.90616	.008	1
S4	5.0000	4.9584	-.042	-.831	1.7958	.017	1
S5	10.000	10.030	.030	.301	3.6304	.023	1
S2	.80000	.81037	.010	1.30	.29533	.003	1

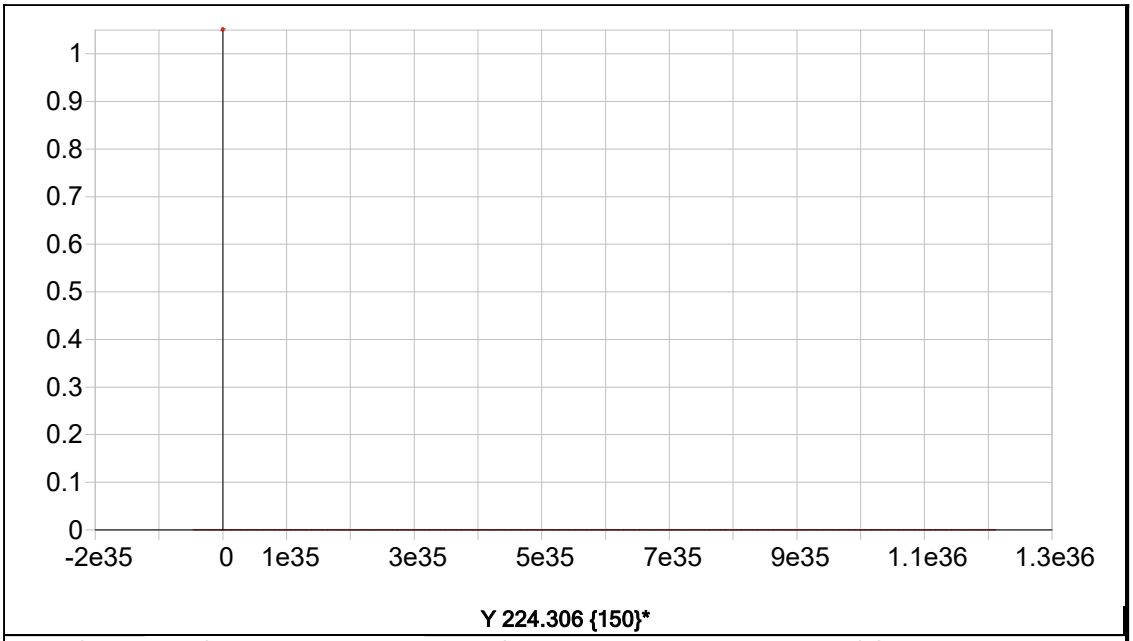


Li 670.784 { 50}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003883	Re-Slope:	1.000000
A1 (Gain):	1.088630	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000247		
Predicted MDL:	0.001455		
Predicted MQL:	0.004850		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00389	.000	1
S5	10.000	10.073	.073	.726	10.964	.013	1
S4	5.0000	4.9394	-.061	-1.21	5.3744	.034	1
S3	2.5000	2.4788	-.021	-.846	2.6952	.015	1
S1	.02000	.02206	.002	10.3	.02015	.002	1
S2	.80000	.80700	.007	.875	.87482	.003	1

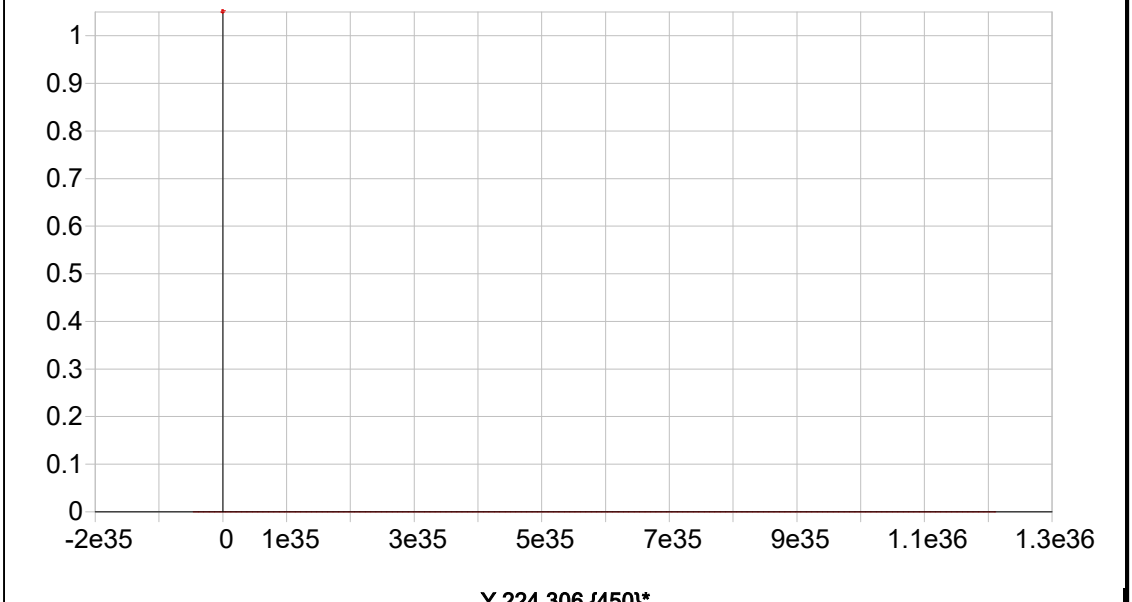


Y 224.306 {150}*

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



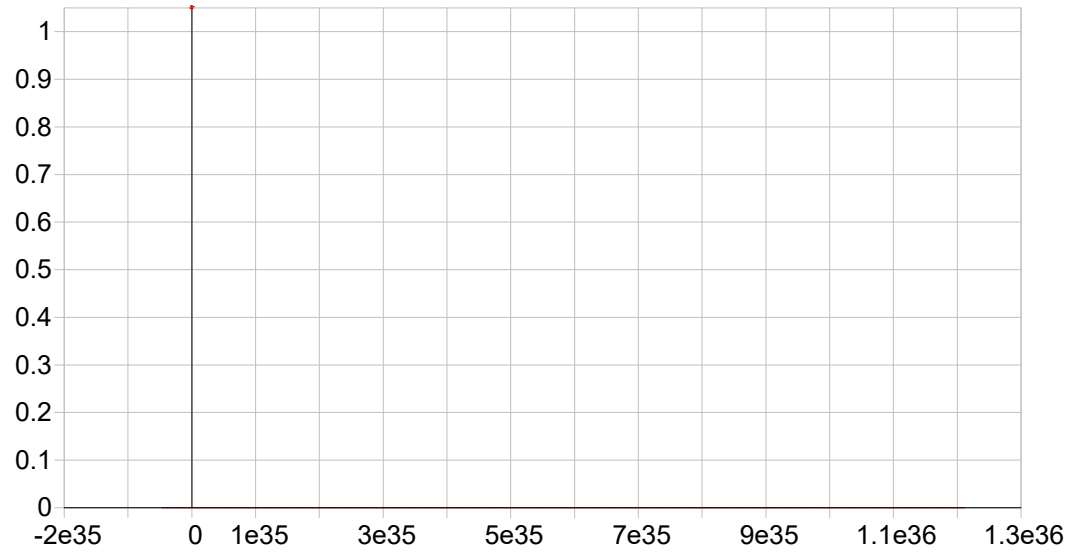
Y 224.306 {450}*

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

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

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

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

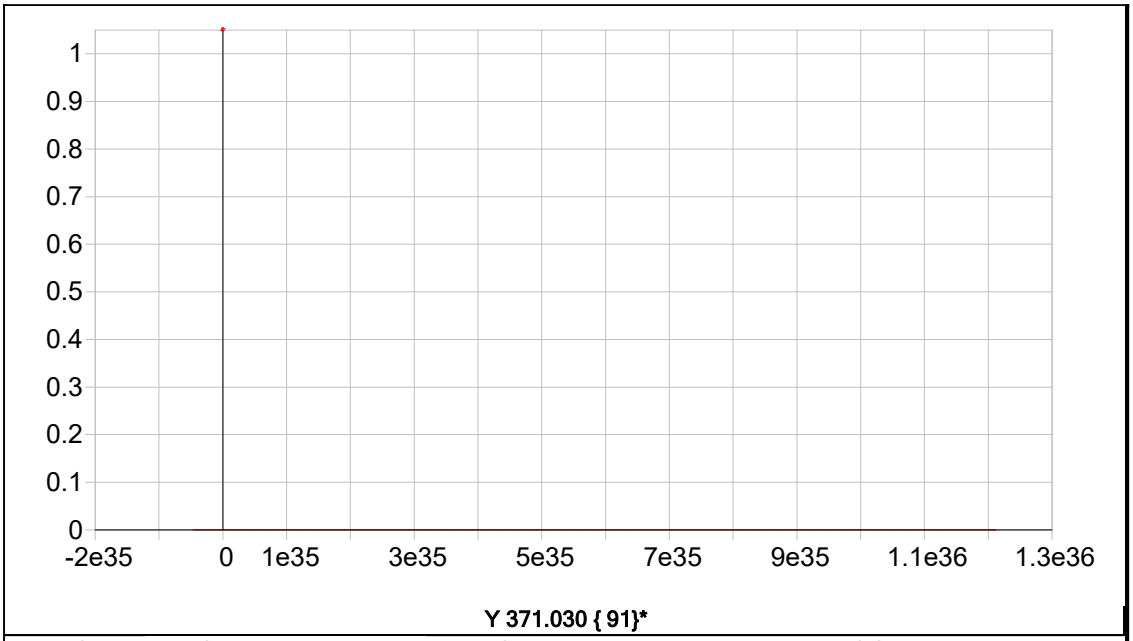


Y 360.073 { 94}*

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

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

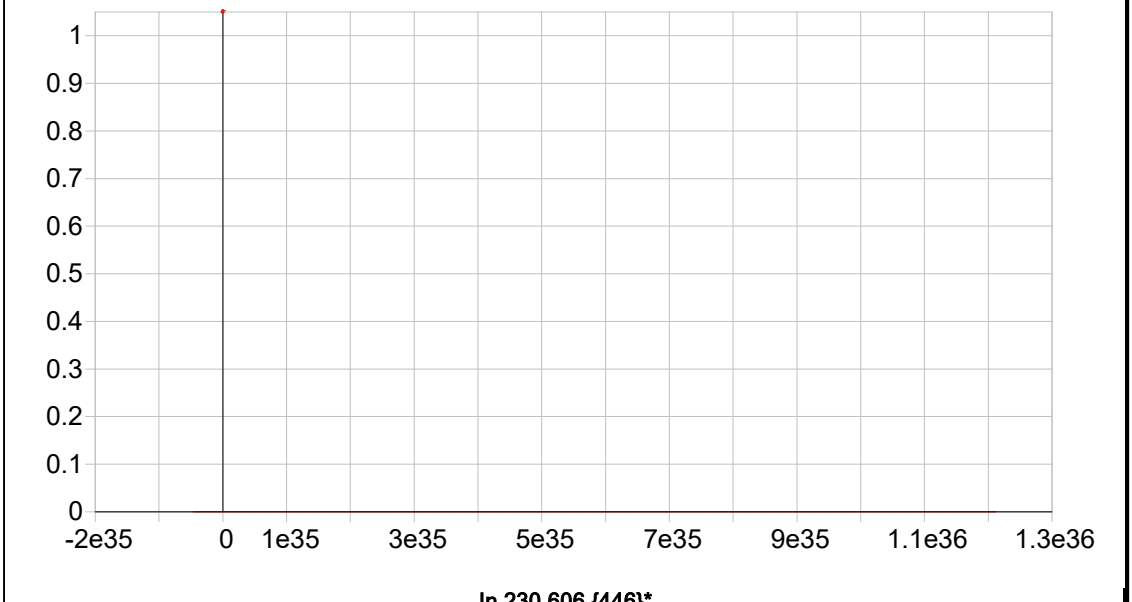


Y 371.030 { 91}*

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



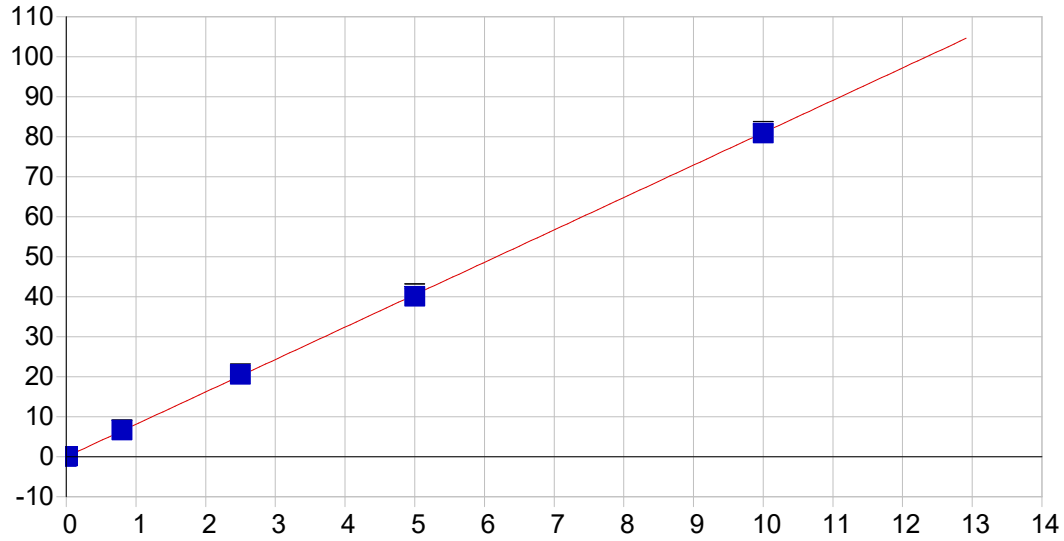
In 230.606 {446}*

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

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

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



Sr 407.771 { 83}

Date of Fit:	07/31/2023 13:23:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000834	Re-Slope:	1.000000
A1 (Gain):	8.100447	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.001843		
Predicted MDL:	0.000080		
Predicted MQL:	0.000268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00085	.001	1
S1	.02000	.02094	.001	4.72	.16963	.003	1
S3	2.5000	2.5409	.041	1.64	20.602	.157	1
S4	5.0000	4.9522	-.048	-.955	40.155	.601	1
S5	10.000	9.9852	-.015	-.148	80.965	.383	1
S2	.80000	.82066	.021	2.58	6.6534	.048	1

Sample Name: S0 Acquired: 07/31/2023 13:01:59 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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**	**-.00006**	**-.00010**	**.00022**	**.00026**	**-.00053**	**.00477**	**-.00028**
Stddev	.00029	.00024	.00036	.00020	.00014	.00016	.00133	.00016
%RSD	133.85	402.45	359.04	88.540	51.211	29.728	27.895	55.323
#1	-.00005	.00014	.00031	.00034	.00042	-.00066	.00592	-.00042
#2	-.00056	-.00032	-.00022	-.00000	.00022	-.00059	.00507	-.00011
#3	-.00005	-.00000	-.00039	.00033	.00015	-.00035	.00331	-.00032

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00064**	**.00155**	**.00006**	**-.00047**	**.00093**	**.00008**	**-.00010**	**.00006**
Stddev	.00010	.00029	.00004	.00027	.00029	.00015	.00008	.00005
%RSD	15.383	18.336	78.442	57.229	30.905	199.89	83.833	90.148
#1	.00060	.00176	.00001	-.00076	.00086	.00021	-.00019	.00000
#2	.00057	.00123	.00008	-.00023	.00124	-.00008	-.00009	.00010
#3	.00075	.00167	.00009	-.00042	.00068	.00009	-.00002	.00007

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00137**	**-.00076**	**-.00477**	**-.00058**	**.00156**	**.00709**	**-.00124**	**.00275**
Stddev	.00022	.00010	.00008	.00025	.00015	.00184	.00011	.00014
%RSD	15.745	13.257	1.6409	42.877	9.5068	25.897	8.7200	5.2571
#1	-.00125	-.00087	-.00486	-.00087	.00160	.00904	-.00114	.00280
#2	-.00162	-.00068	-.00474	-.00046	.00169	.00540	-.00135	.00285
#3	-.00124	-.00074	-.00471	-.00042	.00140	.00682	-.00122	.00258

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00000**	**.00030**	**.00401**	**-.00003**	**.00219**	**-.00389**	**-.00085**
Stddev	.00012	.00009	.00043	.00005	.00020	.00016	.00063
%RSD	8653.4	28.989	10.730	149.00	9.2724	4.1909	74.503
#1	-.00003	.00025	.00431	-.00009	.00195	-.00380	-.00051
#2	-.00010	.00024	.00420	.00000	.00231	-.00407	-.00045
#3	.00013	.00039	.00352	-.00001	.00229	-.00378	-.00157

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: S0 Acquired: 07/31/2023 13:01:59 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1321.6	1678.1	45130.	6698.3	1794.1
Stddev	7.6	1.7	277.	54.9	3.4
%RSD	.57738	.10215	.61403	.81944	.19196
#1	1330.4	1676.4	45352.	6658.4	1790.3
#2	1317.5	1678.3	44819.	6675.6	1795.1
#3	1316.9	1679.8	45218.	6760.9	1796.9

Sample Name: S1 Acquired: 07/31/2023 13:06:03 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.00054**	**.00331**	**.00254**	**.00107**	**.00748**	**.01004**	**.47882**	**.02830**
Stddev	.00010	.00026	.00015	.00012	.00031	.00022	.00411	.00066
%RSD	18.469	7.9520	5.8167	11.367	4.1775	2.2238	.85831	2.3285
#1	.00045	.00303	.00246	.00117	.00712	.01015	.47415	.02781
#2	.00065	.00333	.00245	.00093	.00763	.01019	.48041	.02804
#3	.00052	.00355	.00271	.00112	.00769	.00978	.48190	.02905

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01907**	**.10423**	**.00176**	**.02618**	**.00451**	**.00349**	**.00882**	**.02263**
Stddev	.00029	.00122	.00004	.00018	.00064	.00028	.00037	.00085
%RSD	1.5129	1.1692	2.2551	.69812	14.125	7.9861	4.2242	3.7355
#1	.01889	.10296	.00180	.02617	.00418	.00354	.00843	.02172
#2	.01891	.10435	.00173	.02636	.00525	.00319	.00884	.02339
#3	.01940	.10539	.00174	.02600	.00411	.00374	.00917	.02277

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03560**	**.00150**	**.00820**	**.00491**	**.08727**	**.05913**	**-.00040**	**.03573**
Stddev	.00077	.00006	.00100	.00004	.00160	.00079	.00013	.00064
%RSD	2.1622	4.3267	12.217	.90552	1.8388	1.3279	32.252	1.7997
#1	.03595	.00152	.00935	.00487	.08781	.05888	-.00036	.03503
#2	.03613	.00156	.00759	.00496	.08546	.05850	-.00029	.03629
#3	.03472	.00143	.00765	.00491	.08854	.06001	-.00054	.03586

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11218**	**.00075**	**.11110**	**.00501**	**.01742**	**.02015**	**.16963**
Stddev	.00069	.00008	.00107	.00025	.00017	.00151	.00287
%RSD	.61924	11.102	.96335	4.9170	.97435	7.4866	1.6930
#1	.11145	.00067	.11027	.00528	.01722	.02089	.16633
#2	.11284	.00083	.11073	.00479	.01752	.02115	.17157
#3	.11224	.00073	.11231	.00496	.01752	.01842	.17099

Sample Name: S1 Acquired: 07/31/2023 13:06:03 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1300.3	1660.2	44210.	6660.3	1769.1
Stddev	4.2	5.0	80.	58.8	2.6
%RSD	.32036	.30137	.18187	.88330	.14724
#1	1303.1	1662.1	44302.	6718.5	1771.7
#2	1302.2	1654.5	44154.	6661.5	1766.5
#3	1295.5	1663.9	44174.	6600.8	1769.2

Sample Name: S2 Acquired: 07/31/2023 13:10:08 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.02646**	**.06945**	**.15110**	**.02961**	**.11851**	**.15047**	**7.4413**	**.17807**
Stddev	.00027	.00096	.00090	.00014	.00069	.00104	.0213	.00048
%RSD	1.0051	1.3892	.59306	.47894	.57806	.68880	.28570	.27203
#1	.02618	.06833	.15020	.02970	.11779	.14929	7.4185	.17859
#2	.02649	.07002	.15199	.02967	.11916	.15119	7.4605	.17799
#3	.02670	.06999	.15111	.02944	.11858	.15094	7.4449	.17764

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0993**	**.20706**	**.02598**	**.35426**	**.03345**	**.02600**	**.16142**	**.04159**
Stddev	.0081	.00129	.00005	.00274	.00027	.00021	.00104	.00061
%RSD	.73498	.62122	.19901	.77369	.80343	.78899	.64358	1.4591
#1	1.0904	.20577	.02596	.35117	.03343	.02577	.16028	.04090
#2	1.1062	.20834	.02593	.35641	.03373	.02616	.16169	.04204
#3	1.1012	.20705	.02603	.35519	.03320	.02606	.16231	.04183

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.36483**	**.04395**	**.02204**	**.04908**	**.82977**	**.10150**	**.03650**	**.25170**
Stddev	.00218	.00032	.00220	.00025	.00443	.00078	.00047	.00190
%RSD	.59826	.72374	9.9616	.51585	.53391	.76439	1.2750	.75467
#1	.36248	.04425	.02038	.04886	.82852	.10168	.03596	.25203
#2	.36679	.04361	.02453	.04936	.83469	.10217	.03676	.25341
#3	.36524	.04399	.02121	.04901	.82611	.10065	.03677	.24966

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.41619**	**.02028**	**.22319**	**.09858**	**.29533**	**.87482**	**6.6534**
Stddev	.00325	.00004	.00105	.00080	.00316	.00252	.0481
%RSD	.77983	.19997	.47141	.80958	1.0691	.28847	.72217
#1	.41246	.02031	.22387	.09766	.29209	.87200	6.6222
#2	.41835	.02028	.22371	.09910	.29840	.87687	6.7087
#3	.41776	.02023	.22197	.09897	.29548	.87558	6.6292

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: S2 Acquired: 07/31/2023 13:10:08 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1288.1**	**1645.5**	**44007.**	**6723.9**	**1746.2**
Stddev	9.5	11.9	13.	52.0	14.1
%RSD	.73498	.72546	.02882	.77268	.80503
#1	1298.5	1659.0	43996.	6745.4	1760.6
#2	1280.1	1636.5	44005.	6664.6	1732.6
#3	1285.6	1640.9	44021.	6761.6	1745.3

Sample Name: S3 Acquired: 07/31/2023 13:14:02 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.08290**	**.21553**	**.46928**	**.09081**	**.36427**	**.46304**	**23.066**	**.54363**
Stddev	.00043	.00076	.00066	.00025	.00094	.00428	.147	.00288
%RSD	.52226	.35420	.14124	.27435	.25748	.92500	.63542	.53059
#1	.08249	.21526	.46985	.09109	.36420	.45879	22.917	.54696
#2	.08286	.21639	.46855	.09072	.36336	.46297	23.071	.54209
#3	.08335	.21494	.46945	.09061	.36523	.46736	23.210	.54185

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3723**	**.63172**	**.07939**	**1.0975**	**.09457**	**.07766**	**.49257**	**.12933**
Stddev	.0016	.00536	.00005	.0021	.00187	.00063	.00459	.00205
%RSD	.04661	.84830	.06183	.19320	1.9782	.80924	.93252	1.5836
#1	3.3705	.62683	.07944	1.0955	.09312	.07704	.48843	.12766
#2	3.3729	.63087	.07937	1.0971	.09391	.07830	.49177	.12872
#3	3.3735	.63745	.07935	1.0997	.09668	.07764	.49751	.13161

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1261**	**.13736**	**.07549**	**.15142**	**2.5359**	**.29150**	**.11854**	**.77255**
Stddev	.0010	.00027	.00184	.00171	.0112	.00271	.00039	.00275
%RSD	.08856	.19480	2.4345	1.1268	.44139	.92985	.32480	.35631
#1	1.1250	.13760	.07388	.15050	2.5457	.28845	.11882	.77542
#2	1.1268	.13740	.07510	.15038	2.5237	.29361	.11870	.76993
#3	1.1265	.13707	.07750	.15339	2.5381	.29246	.11810	.77232

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2790**	**.06314**	**.67099**	**.30402**	**.90616**	**2.6952**	**20.602**
Stddev	.0025	.00050	.00135	.00058	.00845	.0146	.157
%RSD	.19482	.79074	.20190	.19067	.93259	.53975	.76189
#1	1.2776	.06372	.66993	.30455	.89846	2.6787	20.478
#2	1.2775	.06281	.67053	.30412	.90481	2.7008	20.550
#3	1.2819	.06291	.67252	.30340	.91520	2.7061	20.778

Sample Name: S3 Acquired: 07/31/2023 13:14:02 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1250.5	1626.5	42957.	6644.0	1701.8
Stddev	10.1	5.2	126.	26.9	1.9
%RSD	.80582	.32045	.29429	.40431	.11153
#1	1241.3	1625.6	42813.	6613.9	1699.8
#2	1261.3	1632.1	43010.	6665.5	1703.6
#3	1249.1	1621.8	43049.	6652.5	1701.9

Sample Name: S4 Acquired: 07/31/2023 13:17:52 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.16559**	**.43131**	**.94034**	**.17966**	**.72298**	**.92657**	**46.160**	**1.0707**
Stddev	.00078	.00097	.00215	.00058	.00082	.00833	.279	.0097
%RSD	.47345	.22502	.22861	.32040	.11405	.89859	.60362	.90912
#1	.16514	.43019	.93879	.17923	.72249	.91774	45.870	1.0631
#2	.16512	.43190	.93944	.17944	.72253	.92768	46.183	1.0817
#3	.16649	.43183	.94279	.18031	.72393	.93428	46.426	1.0673

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.7000**	**1.2523**	**.15682**	**2.1893**	**.18668**	**.15206**	**.97780**	**.25612**
Stddev	.0064	.0106	.00008	.0014	.00225	.00065	.01084	.00379
%RSD	.09496	.84361	.04824	.06273	1.2033	.42583	1.1082	1.4815
#1	6.6926	1.2409	.15691	2.1898	.18438	.15131	.96559	.25221
#2	6.7037	1.2543	.15678	2.1878	.18678	.15248	.98152	.25635
#3	6.7035	1.2618	.15678	2.1904	.18887	.15239	.98628	.25979

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.2470**	**.27276**	**.15528**	**.30414**	**4.9915**	**.56858**	**.24280**	**1.5308**
Stddev	.0012	.00086	.00025	.00245	.0071	.00467	.00121	.0164
%RSD	.05300	.31387	.15887	.80438	.14314	.82073	.49926	1.0712
#1	2.2464	.27298	.15502	.30173	4.9983	.56327	.24142	1.5197
#2	2.2463	.27181	.15532	.30406	4.9841	.57043	.24365	1.5496
#3	2.2484	.27347	.15551	.30663	4.9922	.57203	.24334	1.5230

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5289**	**.12808**	**1.3357**	**.61079**	**1.7958**	**5.3744**	**40.155**
Stddev	.0080	.00057	.0150	.00106	.0171	.0338	.601
%RSD	.31626	.44668	1.1255	.17425	.95177	.62905	1.4975
#1	2.5204	.12756	1.3226	.61158	1.7781	5.3357	39.567
#2	2.5301	.12799	1.3521	.61121	1.7972	5.3900	40.769
#3	2.5363	.12870	1.3323	.60958	1.8122	5.3977	40.129

Sample Name: S4 Acquired: 07/31/2023 13:17:52 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1258.5	1616.9	43176.	6726.6	1666.5
Stddev	9.1	2.5	198.	43.4	2.3
%RSD	.72052	.15575	.45952	.64534	.14037
#1	1250.8	1617.2	43148.	6761.8	1663.9
#2	1268.5	1619.3	43387.	6678.1	1668.4
#3	1256.1	1614.2	42993.	6739.9	1667.3

Sample Name: S5 Acquired: 07/31/2023 13:21:48 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN 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	**.33564**	**.87819**	**1.9240**	**.35821**	**1.4581**	**1.8716**	**91.397**	**2.1112**
Stddev	.00070	.00320	.0029	.00091	.0019	.0111	.834	.0221
%RSD	.20990	.36409	.15269	.25325	.13251	.59292	.91222	1.0447
#1	.33483	.87543	1.9226	.35750	1.4561	1.8775	90.719	2.1341
#2	.33605	.87743	1.9220	.35790	1.4600	1.8785	92.328	2.1096
#3	.33605	.88169	1.9274	.35923	1.4581	1.8588	91.146	2.0901

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.559**	**2.5023**	**.31155**	**4.4808**	**.37375**	**.30643**	**1.9309**	**.52189**
Stddev	.022	.0063	.00074	.0042	.00314	.00199	.0045	.00303
%RSD	.16086	.25080	.23731	.09440	.84145	.65087	.23186	.58151
#1	13.567	2.5003	.31235	4.4828	.37549	.30686	1.9301	.51926
#2	13.534	2.5093	.31089	4.4759	.37564	.30817	1.9357	.52521
#3	13.576	2.4972	.31142	4.4836	.37012	.30425	1.9269	.52119

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.5664**	**.54711**	**.32039**	**.61046**	**9.8047**	**1.1434**	**.50895**	**3.0644**
Stddev	.0086	.00133	.00238	.00180	.0474	.0081	.00181	.0259
%RSD	.18877	.24248	.74175	.29474	.48392	.70674	.35591	.84398
#1	4.5625	.54707	.32184	.61148	9.7647	1.1482	.50860	3.0899
#2	4.5605	.54846	.32169	.61152	9.8571	1.1480	.50734	3.0650
#3	4.5763	.54580	.31765	.60838	9.7922	1.1341	.51091	3.0382

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.0718**	**.26921**	**2.7060**	**1.2525**	**3.6304**	**10.964**	**80.965**
Stddev	.0076	.00125	.0186	.0010	.0227	.013	.383
%RSD	.14914	.46449	.68613	.08247	.62668	.11624	.47323
#1	5.0720	.26855	2.7263	1.2526	3.6417	10.956	81.124
#2	5.0641	.26842	2.7019	1.2514	3.6453	10.978	81.243
#3	5.0793	.27065	2.6899	1.2535	3.6042	10.957	80.528

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: S5 Acquired: 07/31/2023 13:21:48 Type: Cal
Method: NON EPA-6010-200.7(v155) Mode: IR Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1220.2	1569.9	42037.	6632.5	1574.3
Stddev	9.0	2.8	97.	66.4	3.6
%RSD	.74102	.17654	.23025	1.0016	.23069
#1	1225.2	1567.3	42024.	6572.9	1570.2
#2	1209.7	1569.5	41948.	6620.5	1575.6
#3	1225.6	1572.8	42140.	6704.1	1577.1

Sample Name: ICV01 Acquired: 07/31/2023 13:25:46 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.083193**	**1.062236**	**1.061312**	**1.094037**	**1.021656**	**2.613941**
Stddev	.007578	.002307	.002839	.003997	.001942	.021645
%RSD	.6995832	.2171415	.2674667	.3653031	.1901051	.8280522
#1	1.084998	1.059743	1.058054	1.092114	1.019446	2.589069
#2	1.089704	1.062671	1.062625	1.091366	1.022429	2.628510
#3	1.074875	1.064294	1.063256	1.098632	1.023093	2.624243

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5302914**	**.5246793**	**.5406510**	**10.26255**	**.5365595**	**.5205285**
Stddev	.0026391	.0010868	.0002899	.10973	.0027261	.0008123
%RSD	.4976715	.2071369	.0536264	1.069263	.5080737	.1560508
#1	.5273017	.5244897	.5405242	10.13723	.5355809	.5203489
#2	.5312752	.5258485	.5404460	10.30898	.5344579	.5214156
#3	.5322973	.5236998	.5409827	10.34143	.5396399	.5198211

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5300215**	**10.72423**	**.5328118**	**6.065881**	**.5251347**	**.2588539**
Stddev	.0076245	.06151	.0051782	.049115	.0008894	.0011002
%RSD	1.438523	.5735634	.9718698	.8096945	.1693610	.4250253
#1	.5212837	10.67628	.5268356	6.016872	.5248232	.2577016
#2	.5353237	10.70281	.5359673	6.115102	.5244430	.2598933
#3	.5334570	10.79358	.5356324	6.065670	.5261379	.2589667

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.36202**	**.4952336**	**1.050554**	**10.10599**	F **-.010464**	**2.595741**
Stddev	.19899	.0034926	.004323	.06116	.005423	.008457
%RSD	1.920415	.7052442	.4115131	.6052014	51.82399	.3257896
#1	10.25593	.4912319	1.046424	10.03955	-.010401	2.594875
#2	10.23855	.4976685	1.050190	10.15995	-.005073	2.604597
#3	10.59158	.4968002	1.055047	10.11847	-.015918	2.587751

Sample Name: ICV01 Acquired: 07/31/2023 13:25:46 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.640647	F -.014757	2.636690	2.559639	2.608242	F -.001381
Stddev	.007656	.002789	.012348	.003801	.020760	.000874
%RSD	.2899469	18.89701	.4683178	.1485080	.7959302	63.31962
#1	2.632727	-.015228	2.636610	2.559164	2.584399	-.000511
#2	2.648010	-.017279	2.649078	2.556098	2.622308	-.001371
#3	2.641203	-.011762	2.624383	2.563656	2.618019	-.002260

Elem	Sr4077
Units	ppm
Avg	F -.008289
Stddev	.000601
%RSD	7.251273
#1	-.007595
#2	-.008626
#3	-.008647

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1266.774	1646.219	43699.34	6839.154	1739.239
Stddev	5.639	3.085	223.20	22.996	2.391
%RSD	.4451589	.1873928	.5107637	.3362352	.1375011
#1	1273.004	1649.070	43937.60	6862.074	1737.318
#2	1262.019	1642.944	43665.34	6816.084	1738.482
#3	1265.298	1646.644	43495.10	6839.304	1741.918

Sample Name: LLCCV01 Acquired: 07/31/2023 13:42:51 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172420**	**.0340183**	**.0107347**	**.0167769**	**.0415021**	**.0850128**
Stddev	.0070000	.0018912	.0016545	.0064721	.0007258	.0039255
%RSD	40.59844	5.559288	15.41295	38.57756	1.748864	4.617595
#1	.0242070	.0347783	.0096003	.0238635	.0410032	.0830399
#2	.0102075	.0354112	.0099707	.0111786	.0411682	.0824649
#3	.0173115	.0318653	.0126332	.0152886	.0423347	.0895334

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0823017**	**.0051311**	**.0053294**	**1.601424**	**.0085284**	**.0243956**
Stddev	.0007378	.0000992	.0000331	.011653	.0001702	.0002576
%RSD	.8964617	1.933501	.6216207	.7276506	1.995875	1.055816
#1	.0818089	.0051077	.0052977	1.589841	.0083843	.0241314
#2	.0819463	.0050457	.0053266	1.613146	.0087162	.0246461
#3	.0831499	.0052400	.0053638	1.601286	.0084847	.0244092

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0161048**	**.0891943**	**.0175218**	**1.731981**	**.0321637**	**.0084111**
Stddev	.0026924	.0086223	.0010739	.018139	.0001358	.0003528
%RSD	16.71808	9.666897	6.128848	1.047306	.4222249	4.194371
#1	.0178776	.0793187	.0179476	1.711059	.0322271	.0081755
#2	.0130066	.0930371	.0163003	1.743308	.0322562	.0082411
#3	.0174301	.0952270	.0183175	1.741574	.0320078	.0088167

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.706421**	**.0354000**	**.0348557**	**1.718004**	F **.0126992**	**.0836417**
Stddev	.166790	.0034323	.0002425	.030443	.0028392	.0015188
%RSD	9.774248	9.695809	.6956110	1.771981	22.35768	1.815810
#1	1.522400	.0314412	.0348742	1.707302	.0144984	.0846884
#2	1.749228	.0372159	.0350885	1.694357	.0094261	.0818997
#3	1.847636	.0375429	.0346046	1.752353	.0141730	.0843369

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: LLCCV01 Acquired: 07/31/2023 13:42:51 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1764062	F .0103586	F .3068841	F .0315971	.0334213	.0174977
Stddev	.0004564	.0048564	.0017483	.0009408	.0003400	.0008215
%RSD	.2587438	46.88302	.5697041	2.977583	1.017368	4.695103
#1	.1764397	.0157003	.3087304	.0326278	.0331015	.0172880
#2	.1759340	.0091659	.3066681	.0307846	.0337784	.0184037
#3	.1768450	.0062097	.3052538	.0313787	.0333839	.0168013

Elem	Sr4077
Units	ppm
Avg	.0163641
Stddev	.0000872
%RSD	.5328254
#1	.0162749
#2	.0164491
#3	.0163683

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1267.105	1641.092	43727.91	6920.097	1760.171
Stddev	1.908	5.253	140.26	38.199	1.876
%RSD	.1505537	.3200779	.3207612	.5519989	.1065922
#1	1265.561	1646.747	43573.44	6878.320	1762.288
#2	1269.238	1640.165	43762.96	6928.730	1759.509
#3	1266.517	1636.365	43847.31	6953.240	1758.715

Sample Name: ICB01 Acquired: 07/31/2023 13:47:23 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.000398**	**.0005652**	**-.001737**	**.0040460**	**-.002791**	**.0032308**	**-.000583**
Stddev	.003528	.0010707	.001535	.0017688	.001949	.0015101	.000170
%RSD	886.5541	189.4190	88.33555	43.71771	69.82947	46.73917	29.19828
#1	-.003596	.0002371	-.003175	.0023397	-.001314	.0018035	-.000394
#2	.003386	-.000303	-.000121	.0039270	-.002060	.0048119	-.000724
#3	-.000984	.001762	-.001916	.0058714	-.005001	.0030771	-.000632

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000085**	**-.001884**	**-.000287**	**-.000150**	**.0012133**	**.0006702**
Stddev	.000035	.000024	.000860	.000156	.000193	.0013709	.0014824
%RSD	199.0439	28.46518	45.62849	54.29396	128.8647	112.9898	221.1778
#1	-.000033	-.000066	-.000916	-.000466	-.000245	.0023288	-.000656
#2	-.000043	-.000112	-.002177	-.000217	-.000276	-.000317	.002270
#3	.000023	-.000077	-.002560	-.000179	.000072	.001628	.000397

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000122**	**-.018805**	**-.000343**	**.0001309**	**-.158795**	**.0017130**	**-.000285**
Stddev	.000083	.011409	.000326	.0001694	.190922	.0003828	.000159
%RSD	68.27061	60.67101	94.96822	129.3325	120.2312	22.34486	55.82139
#1	-.000048	-.007840	-.000201	.0001180	-.067748	.0012788	-.000327
#2	-.000105	-.017962	-.000112	-.000032	-.030440	.0018585	-.000109
#3	-.000212	-.030611	-.000715	.000306	-.378198	.0020017	-.000419

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.019111**	**-.000408**	**-.001646**	**-.000500**	**-.009743**	**-.003536**	**.0009641**
Stddev	.038028	.001476	.000937	.000190	.005401	.001660	.0029565
%RSD	198.9856	361.3013	56.89278	38.02283	55.43539	46.93745	306.6647
#1	.015570	.001292	-.000629	-.000336	-.014384	-.004913	-.000268
#2	-.059777	-.001354	-.001837	-.000455	-.011029	-.001693	-.001177
#3	-.013126	-.001164	-.002472	-.000709	-.003815	-.004001	.004337

Sample Name: ICB01 Acquired: 07/31/2023 13:47:23 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0011127	.0002688	-.000005
Stddev	.0007660	.0012498	.000057
%RSD	68.83844	465.0488	1188.561
#1	.0011506	.0009145	.000046
#2	.0003285	-.001172	-.000066
#3	.0018590	.001064	.000006

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1280.326	1660.326	44126.08	6986.317	1774.067
Stddev	4.701	1.686	206.31	45.478	4.453
%RSD	.3671874	.1015448	.4675390	.6509564	.2510224
#1	1284.308	1662.185	44038.39	6991.210	1777.016
#2	1281.530	1659.899	43978.11	7029.150	1776.240
#3	1275.140	1658.895	44361.75	6938.590	1768.944

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: CRI01 Acquired: 07/31/2023 13:51:27 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220611**	**.0385014**	**.0119397**	**.0244078**	**.0485605**	**.0949084**	**.0964110**
Stddev	.0027789	.0023701	.0018510	.0059320	.0011130	.0093777	.0007583
%RSD	12.59627	6.155933	15.50324	24.30358	2.292055	9.880826	.7865837
#1	.0216757	.0358139	.0140430	.0188701	.0498373	.1051654	.0956591
#2	.0194950	.0402931	.0112172	.0306679	.0477949	.0867736	.0971757
#3	.0250125	.0393971	.0105588	.0236854	.0480494	.0927861	.0963983

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058578**	**.0062539**	**1.863723**	**.0096782**	**.0280643**	**.0201218**	**.1029579**
Stddev	.0000594	.0000695	.008703	.0004932	.0002931	.0018880	.0086593
%RSD	1.013759	1.112176	.4669680	5.095633	1.044416	9.382682	8.410475
#1	.0058966	.0063142	1.853811	.0098468	.0277773	.0198938	.1121965
#2	.0058874	.0061778	1.867245	.0100649	.0280526	.0183583	.1016506
#3	.0057894	.0062695	1.870113	.0091228	.0283631	.0221135	.0950267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0203176**	**1.962433**	**.0379285**	**.0104040**	**1.783682**	**.0388114**	**.0407913**
Stddev	.0003989	.059580	.0003094	.0002528	.058242	.0026526	.0009235
%RSD	1.963380	3.036023	.8158140	2.429531	3.265279	6.834527	2.264034
#1	.0198575	1.893902	.0377211	.0102019	1.844581	.0359851	.0417422
#2	.0205284	1.991466	.0382842	.0106874	1.777942	.0412469	.0407337
#3	.0205668	2.001932	.0377802	.0103226	1.728522	.0392021	.0398978

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.006918**	**.0150106**	**.0947472**	**.2074762**	**.0169028**	**.3586163**	**.0370527**
Stddev	.038454	.0027079	.0007259	.0010055	.0057176	.0012517	.0001691
%RSD	1.916084	18.03963	.7661421	.4846364	33.82664	.3490382	.4564378
#1	2.032481	.0124120	.0955460	.2082114	.0103328	.3596616	.0370031
#2	1.962694	.0178159	.0945679	.2063304	.0196244	.3589581	.0369139
#3	2.025579	.0148040	.0941277	.2078869	.0207512	.3572292	.0372410

Sample Name: CRI01 Acquired: 07/31/2023 13:51:27 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0384065	.0203548	.0189394
Stddev	.0011169	.0013713	.0003321
%RSD	2.908104	6.737125	1.753309
#1	.0375135	.0202501	.0186975
#2	.0380472	.0217754	.0193180
#3	.0396589	.0190388	.0188027

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1258.423	1639.238	43578.44	6922.937	1755.838
Stddev	5.667	5.496	159.59	25.064	4.737
%RSD	.4502915	.3352951	.3662179	.3620447	.2698087
#1	1258.368	1633.162	43655.29	6894.320	1751.316
#2	1264.117	1643.864	43685.06	6933.500	1760.765
#3	1252.784	1640.688	43394.96	6940.990	1755.433

Sample Name: ICSA01 Acquired: 07/31/2023 13:55:32 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.019903**	**-.005783**	**-.001347**	**.0194781**	**.0030554**	**267.0648**
Stddev	.012428	.003173	.003974	.0033319	.0034701	3.0957
%RSD	62.44532	54.86727	294.9801	17.10582	113.5716	1.159173
#1	-.034027	-.002286	-.000770	.0211837	-.000792	265.1284
#2	-.015042	-.008478	-.005578	.0216118	.004008	265.4308
#3	-.010640	-.006585	.002307	.0156387	.005949	270.6352

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056721**	**.0009614**	**.0010855**	**253.1501**	**.0491308**	**-.001384**
Stddev	.0004052	.0000573	.0002469	2.2244	.0006603	.000438
%RSD	7.144228	5.959652	22.74749	.8786710	1.343937	31.61892
#1	.0052201	.0009803	.0012464	251.1786	.0498933	-.000947
#2	.0060027	.0008970	.0012089	252.7101	.0487542	-.001822
#3	.0057936	.0010068	.0008012	255.5615	.0487451	-.001383

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067158**	**101.0316**	**.0122292**	**268.9843**	**.0005276**	**-.002561**
Stddev	.0022102	.8730	.0002748	2.3542	.0003153	.000406
%RSD	32.90974	.8640391	2.247476	.8752124	59.74814	15.84855
#1	.0053568	100.2882	.0120706	266.8197	.0005708	-.002988
#2	.0092660	100.8138	.0120705	268.6427	.0001930	-.002180
#3	.0055246	101.9928	.0125466	271.4907	.0008191	-.002515

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019423**	**.0022798**	**.0027449**	**-.063259**	**-.014497**	**-.044328**
Stddev	.1475062	.0024179	.0003200	.019941	.001858	.000599
%RSD	7594.499	106.0595	11.65741	31.52277	12.81623	1.350870
#1	.1119363	.0036345	.0026002	-.086270	-.013627	-.043663
#2	.0595689	-.000512	.0025228	-.052460	-.016630	-.044825
#3	-.165678	.003717	.0031117	-.051047	-.013234	-.044496

Sample Name: ICSA01 Acquired: 07/31/2023 13:55:32 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001391	F -.029264	-.009193	-.005842	-.000311	-.018123
Stddev	.000819	.002903	.001093	.000847	.000958	.000630
%RSD	58.89761	9.920904	11.88958	14.49041	308.2543	3.477211
#1	-.002149	-.027783	-.010285	-.006570	-.001387	-.018844
#2	-.000522	-.032609	-.008099	-.006043	.000004	-.017677
#3	-.001503	-.027400	-.009195	-.004913	.000450	-.017847

Elem	Sr4077
Units	ppm
Avg	.0019940
Stddev	.0004033
%RSD	20.22581
#1	.0020706
#2	.0015578
#3	.0023534

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1158.474	1516.102	40462.43	6720.265	1499.864
Stddev	4.826	1.623	85.26	7.821	2.230
%RSD	.4165829	.1070340	.2107023	.1163864	.1486696
#1	1154.891	1516.555	40526.29	6727.851	1500.180
#2	1163.962	1514.301	40495.39	6720.718	1497.494
#3	1156.570	1517.451	40365.62	6712.228	1501.920

Sample Name: ICSAB01 Acquired: 07/31/2023 13:59:34 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0900773**	**.1178564**	**.0536035**	**.0604031**	**.6224376**	**256.6277**
Stddev	.0023296	.0031433	.0035922	.0034812	.0094819	1.6588
%RSD	2.586199	2.667054	6.701428	5.763268	1.523358	.6463725
#1	.0896391	.1143578	.0576151	.0599129	.6138058	254.7673
#2	.0925949	.1187688	.0525112	.0571930	.6209204	257.9525
#3	.0879979	.1204425	.0506843	.0641034	.6325867	257.1633

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5237849**	**.5022743**	**1.051415**	**243.2452**	**.5595127**	**.5121175**
Stddev	.0037167	.0029943	.002576	2.0243	.0091276	.0019019
%RSD	.7095863	.5961453	.2450491	.8321971	1.631342	.3713709
#1	.5194944	.5012043	1.050474	240.9078	.5699935	.5122986
#2	.5260160	.5056566	1.049441	244.4229	.5552348	.5101316
#3	.5258443	.4999621	1.054330	244.4049	.5533096	.5139223

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5041334**	**96.95860**	**.5114138**	**257.9835**	**1.015885**	**.2175700**
Stddev	.0066633	.67749	.0030261	2.1819	.003732	.0026234
%RSD	1.321727	.6987454	.5917140	.8457408	.3673888	1.205759
#1	.5005106	96.18330	.5080142	255.4930	1.011875	.2204387
#2	.5118233	97.43669	.5138132	259.5586	1.016523	.2152931
#3	.5000665	97.25581	.5124140	258.8988	1.019257	.2169782

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1107414**	**.5017293**	**1.057920**	**-.076736**	F **-.017741**	**.9207126**
Stddev	.0756325	.0029796	.019724	.059491	.005182	.0066282
%RSD	68.29649	.5938699	1.864369	77.52749	29.20736	.7199005
#1	.0240250	.4983976	1.077608	-.135009	-.013811	.9186337
#2	.1630706	.5041386	1.057992	-.079101	-.023613	.9281310
#3	.1451286	.5026519	1.038161	-.016097	-.015799	.9153730

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: ICSAB01 Acquired: 07/31/2023 13:59:34 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.005223	F -.024439	.8613333	1.022284	.9739982	F -.017755
Stddev	.004647	.007310	.0036771	.000847	.0092158	.001228
%RSD	.4622688	29.91070	.4269087	.0828744	.9461859	6.914933
#1	.999868	-.032693	.8619428	1.023251	.9640622	-.018335
#2	1.007599	-.021841	.8646676	1.021931	.9822660	-.018585
#3	1.008201	-.018783	.8573896	1.021670	.9756664	-.016344

Elem	Sr4077
Units	ppm
Avg	F .0022313
Stddev	.0005283
%RSD	23.67573
#1	.0027631
#2	.0022240
#3	.0017067

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1144.943	1514.057	40067.73	6801.686	1497.071
Stddev	17.514	4.646	612.60	24.544	2.387
%RSD	1.529679	.3068481	1.528921	.3608476	.1594650
#1	1125.809	1519.390	39366.84	6815.988	1498.824
#2	1148.841	1510.886	40500.94	6773.346	1498.038
#3	1160.180	1511.895	40335.42	6815.724	1494.352

Sample Name: CCV01 Acquired: 07/31/2023 14:03:26 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.146591**	**5.105110**	**5.052467**	**5.166734**	**5.126768**	**10.13820**	**10.25625**
Stddev	.007161	.011115	.002855	.017868	.009369	.02076	.02397
%RSD	.1391481	.2177291	.0565019	.3458286	.1827496	.2047598	.2336674
#1	5.154525	5.092568	5.055677	5.183760	5.134462	10.11716	10.22958
#2	5.140606	5.113742	5.050213	5.168313	5.129507	10.15866	10.27597
#3	5.144642	5.109019	5.051512	5.148129	5.116335	10.13879	10.26320

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2456681**	**2.496181**	**24.88020**	**1.009327**	**2.516377**	**1.231815**	**5.155856**
Stddev	.0005508	.002706	.15694	.000727	.005954	.002015	.014736
%RSD	.2241979	.1084193	.6307928	.0719787	.2366237	.1635613	.2858201
#1	.2458232	2.493711	24.70258	1.009967	2.514696	1.234138	5.144843
#2	.2461248	2.499074	24.93786	1.009477	2.522991	1.230758	5.150129
#3	.2450565	2.495758	25.00016	1.008537	2.511444	1.230548	5.172596

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.497658**	**24.46856**	**2.524142**	**1.286583**	**24.89628**	**2.469529**	**2.579260**
Stddev	.011987	.21682	.002552	.007955	.10052	.004536	.007363
%RSD	.4799409	.8861327	.1010863	.6183357	.4037407	.1836780	.2854580
#1	2.483818	24.22972	2.522594	1.293802	24.88139	2.465326	2.585263
#2	2.504388	24.52297	2.527087	1.287892	24.80404	2.474337	2.581471
#3	2.504767	24.65300	2.522745	1.278054	25.00341	2.468923	2.571045

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.53568**	**5.106572**	**4.968694**	**5.110977**	**5.055372**	**4.903641**	**5.018726**
Stddev	.06942	.016076	.015822	.010795	.020192	.015376	.008653
%RSD	.2829550	.3148033	.3184381	.2112075	.3994239	.3135569	.1724168
#1	24.61548	5.101219	4.975035	5.123435	5.037416	4.886428	5.009105
#2	24.48919	5.093855	4.980363	5.104396	5.077231	4.908481	5.021199
#3	24.50236	5.124641	4.950685	5.105100	5.051469	4.916015	5.025873

Sample Name: CCV01 Acquired: 07/31/2023 14:03:26 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.947121**	**5.119425**	**4.950670**
Stddev	.019239	.014999	.057030
%RSD	.3888872	.2929816	1.151962
#1	4.925614	5.103176	4.885490
#2	4.962693	5.132740	4.991389
#3	4.953056	5.122358	4.975131

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1231.671**	**1596.355**	**42630.20**	**6901.007**	**1647.532**
Stddev	6.413	6.714	171.91	18.189	4.565
%RSD	.5206994	.4205743	.4032630	.2635691	.2770707
#1	1225.429	1589.481	42443.39	6888.943	1646.181
#2	1231.341	1596.689	42665.45	6892.150	1643.795
#3	1238.242	1602.896	42781.75	6921.928	1652.620

Sample Name: CCB01 Acquired: 07/31/2023 14:07:22 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019798**	**.0020064**	**-.001276**	**.0025149**	**-.000951**	**-.000704**	**.0000554**
Stddev	.0042266	.0011500	.003181	.0047322	.001309	.009615	.0001854
%RSD	213.4821	57.31721	249.3623	188.1632	137.6289	1365.560	334.6291
#1	-.001793	.0016368	-.004755	.0079507	.000064	-.003079	.0002694
#2	.001185	.0032958	.001484	.0002794	-.000489	.009875	-.000056
#3	.006547	.0010867	-.000556	-.000685	-.002429	-.008909	-.000048

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000002**	**.0000040**	**.0033751**	**-.000364**	**-.000025**	**.0009935**	**.0067204**
Stddev	.000075	.0000416	.0069610	.000250	.000107	.0008712	.0016850
%RSD	3157.210	1042.232	206.2458	68.79275	435.0827	87.69078	25.07365
#1	-.000087	.0000322	.0080536	-.000556	.000036	.0000988	.0073200
#2	.000024	.0000236	-.004624	-.000456	.000039	.0018393	.0080236
#3	.000056	-.000044	.006696	-.000081	-.000148	.0010425	.0048175

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002104**	**-.031589**	**-.000211**	**-.000232**	**.1593408**	**.0038478**	**-.000220**
Stddev	.0001842	.010190	.000451	.000459	.2946338	.0015006	.000453
%RSD	87.55939	32.25748	213.6822	198.1340	184.9080	38.99916	206.3284
#1	.0000206	-.039582	.000136	.000298	.0320474	.0033511	.000284
#2	.0003884	-.035072	-.000720	-.000476	-.050246	.0026586	-.000593
#3	.0002221	-.020115	-.000049	-.000517	.496221	.0055338	-.000350

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.037232**	**.0004174**	**.0063614**	**.0013990**	**-.004731**	**-.001092**	**.0007977**
Stddev	.029034	.0029557	.0004054	.0007419	.005427	.000511	.0003616
%RSD	77.98064	708.1696	6.372580	53.02871	114.7229	46.76554	45.32952
#1	-.039617	.0037997	.0063197	.0022522	-.010082	-.001619	.0004692
#2	-.064999	-.001669	.0067860	.0009059	-.004878	-.001060	.0011852
#3	-.007079	-.000879	.0059785	.0010389	.000769	-.000598	.0007388

Sample Name: CCB01 Acquired: 07/31/2023 14:07:22 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012110	-.000028	.0003158
Stddev	.0003787	.000577	.0000224
%RSD	31.27179	2053.074	7.084858
#1	.0007781	.000563	.0003401
#2	.0014809	-.000590	.0002960
#3	.0013740	-.000057	.0003113

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1293.111	1684.474	44571.53	7151.500	1805.564
Stddev	5.575	3.923	116.13	25.643	1.352
%RSD	.4311632	.2328899	.2605505	.3585696	.0748990
#1	1297.674	1679.946	44573.03	7146.050	1806.596
#2	1294.762	1686.635	44686.90	7129.020	1806.063
#3	1286.896	1686.842	44454.65	7179.430	1804.033

Sample Name: O3784-01DLX10 Acquired: 07/31/2023 14:11:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: OS-2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002983**	**.0029949**	**-.001337**	**.0075399**	**-.002458**	**.7670496**	**.0053525**
Stddev	.007659	.0035660	.003030	.0036558	.000531	.0075371	.0002441
%RSD	256.7773	119.0712	226.6096	48.48633	21.58423	.9826041	4.560818
#1	.000123	.0057934	-.001723	.0041705	-.003059	.7642872	.0052149
#2	.002636	.0042115	.001867	.0070223	-.002261	.7612835	.0056343
#3	-.011707	-.001020	-.004155	.0114269	-.002055	.7755781	.0052082

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005446**	**.0001441**	**490.9150**	**.0064408**	**-.000694**	**.0069789**	**9.955524**
Stddev	.0000393	.0000615	4.5419	.0003932	.000113	.0015413	.068861
%RSD	7.213133	42.66775	.9251879	6.104393	16.24947	22.08561	.6916894
#1	.0004998	.0002012	486.3143	.0067450	-.000571	.0053578	9.900212
#2	.0005732	.0001521	491.0350	.0065804	-.000718	.0071534	9.933710
#3	.0005608	.0000790	495.3957	.0059968	-.000792	.0084256	10.03265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4422079**	**294.0815**	**.0050603**	**-.000327**	**.3559210**	**.0119623**	**.0218503**
Stddev	.0051509	3.1982	.0003524	.000321	.1270456	.0014880	.0006455
%RSD	1.164802	1.087510	6.963214	98.18367	35.69490	12.43940	2.954306
#1	.4371658	291.1773	.0054671	-.000665	.4950978	.0104767	.0225956
#2	.4419970	293.5579	.0048490	-.000028	.3264940	.0119574	.0214817
#3	.4474610	297.5091	.0048649	-.000287	.2461711	.0134527	.0214735

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0865953**	**.0758730**	**.0117781**	**-.000321**	**.8275957**	**.3845488**	**-.005795**
Stddev	.0302270	.0062726	.0016785	.000151	.0097327	.0009302	.000703
%RSD	34.90600	8.267174	14.25125	47.05927	1.176017	.2419018	12.13277
#1	.0876916	.0760379	.0115167	-.000473	.8261796	.3854093	-.005475
#2	.0558352	.0820614	.0102455	-.000319	.8186488	.3835618	-.005308
#3	.1162592	.0695196	.0135719	-.000171	.8379589	.3846753	-.006601

Sample Name: O3784-01DLX10 Acquired: 07/31/2023 14:11:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: OS-2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0150983	.0077354	.1063370
Stddev	.0002634	.0010872	.0011944
%RSD	1.744722	14.05426	1.123239
#1	.0150077	.0070335	.1050260
#2	.0148921	.0089877	.1066217
#3	.0153950	.0071850	.1073634

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1136.036	1499.686	40307.18	6760.046	1473.406
Stddev	2.455	.135	48.45	4.200	.665
%RSD	.2161418	.0089899	.1201986	.0621317	.0451145
#1	1138.494	1499.733	40255.87	6762.804	1472.717
#2	1136.031	1499.790	40352.14	6755.212	1473.457
#3	1133.583	1499.533	40313.55	6762.121	1474.044

Sample Name: PB154503BL Acquired: 07/31/2023 15:43:14 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025540**	**.0004823**	**-.001134**	**.0062763**	**-.001079**	**-.000071**	**-.000884**
Stddev	.0059651	.0019425	.000484	.0056093	.000450	.002854	.000209
%RSD	233.5570	402.7332	42.69040	89.37324	41.67842	4003.178	23.58367
#1	.0079935	-.001523	-.000585	.0124301	-.001220	.003207	-.001106
#2	-.003825	.002355	-.001318	.0014492	-.001441	-.001418	-.000692
#3	.003494	.000615	-.001500	.0049496	-.000575	-.002004	-.000854

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000042**	**-.000120**	**.0041217**	**-.000208**	**-.000155**	**.0024476**	**.0081371**
Stddev	.000019	.000082	.0060487	.000182	.000046	.0006614	.0041835
%RSD	45.32807	68.03268	146.7538	87.54288	29.58992	27.02215	51.41256
#1	-.000037	-.000178	-.000133	-.000370	-.000185	.0028059	.0103487
#2	-.000026	-.000155	.011046	-.000011	-.000102	.0028526	.0033120
#3	-.000063	-.000027	.001452	-.000243	-.000177	.0016844	.0107506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002615**	**.0004262**	**-.000035**	**.0001520**	**.0191664**	**.0035856**	**-.000128**
Stddev	.0002717	.0128211	.000318	.0002577	.4168101	.0005047	.000318
%RSD	103.9003	3008.374	906.0033	169.5558	2174.693	14.07579	249.2384
#1	.0005692	.0045797	-.000112	.0004380	-.375556	.0035980	.000094
#2	.0000551	-.013957	-.000307	-.000062	-.021960	.0040840	-.000492
#3	.0001600	.010656	.000314	.000080	.455015	.0030748	.000015

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.106746**	**-.001833**	**-.005877**	**-.000475**	**-.001469**	**-.005527**	**.0007242**
Stddev	.026520	.001699	.000553	.000331	.004852	.000057	.0008801
%RSD	24.84369	92.68936	9.406353	69.85068	330.3485	1.039328	121.5250
#1	-.108003	-.003794	-.005345	-.000170	-.000049	-.005493	.0004419
#2	-.079620	-.000924	-.006448	-.000427	.002515	-.005593	.0017108
#3	-.132614	-.000782	-.005838	-.000827	-.006873	-.005495	.0000199

Sample Name: PB154503BL Acquired: 07/31/2023 15:43:14 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005854	.0002267	-.000006
Stddev	.0005621	.0007310	.000039
%RSD	96.01696	322.4820	671.3461
#1	.0006032	-.000389	.000024
#2	.0000146	.001034	-.000050
#3	.0011385	.000035	.000008

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1283.631	1676.802	44631.32	7366.680	1781.519
Stddev	12.540	5.049	284.27	154.879	5.079
%RSD	.9769437	.3011342	.6369192	2.102421	.2851217
#1	1297.221	1679.063	44888.40	7545.310	1787.052
#2	1272.506	1680.326	44326.04	7284.840	1780.439
#3	1281.168	1671.017	44679.51	7269.890	1777.066

Sample Name: PB154503BS Acquired: 07/31/2023 15:47:19 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8487416	2.002908	.9908763	2.069512	.7933266	2.107241
Stddev	.0015265	.004112	.0044701	.005545	.0041797	.018507
%RSD	.1798517	.2053165	.4511230	.2679364	.5268576	.8782381
#1	.8495207	1.998747	.9873927	2.063721	.7890019	2.085877
#2	.8469828	2.003005	.9959166	2.074772	.7973444	2.117503
#3	.8497214	2.006970	.9893197	2.070044	.7936333	2.118342

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1983749	.1894780	.1991390	.9928814	.3962845	.1937378
Stddev	.0017251	.0015150	.0003278	.0066763	.0007476	.0009830
%RSD	.8696094	.7995556	.1646320	.6724140	.1886412	.5073978
#1	.1963835	.1882560	.1991515	.9852625	.3966710	.1927156
#2	.1993324	.1911731	.1994604	.9977094	.3967598	.1938217
#3	.1994089	.1890051	.1988050	.9956722	.3954229	.1946762

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3068598	3.092887	.1966305	1.876301	.4886351	.0744039
Stddev	.0017594	.033324	.0020139	.027766	.0004657	.0002214
%RSD	.5733579	1.077433	1.024186	1.479852	.0953034	.2975799
#1	.3048491	3.055052	.1943131	1.844294	.4887528	.0743881
#2	.3076138	3.105731	.1976219	1.890687	.4881219	.0741908
#3	.3081166	3.117877	.1979564	1.893923	.4890307	.0746328

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.120056	.2960922	F .2539110	9.627689	5.936383	.2812881
Stddev	.105742	.0017058	.0014789	.104731	.006457	.0031433
%RSD	3.389109	.5760980	.5824269	1.087811	.1087677	1.117479
#1	3.104578	.2978565	.2536830	9.534495	5.935747	.2791356
#2	3.022906	.2959685	.2525594	9.741030	5.943135	.2848953
#3	3.232684	.2944517	.2554906	9.607541	5.930268	.2798334

Sample Name: PB154503BS Acquired: 07/31/2023 15:47:19 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4007790	F -.014489	.8631173	.6750034	.1947767	.2057126
Stddev	.0007509	.001012	.0115996	.0080223	.0011173	.0027744
%RSD	.1873563	6.984198	1.343916	1.188489	.5736174	1.348698
#1	.4009013	-.013330	.8533574	.6706500	.1934873	.2025549
#2	.4014613	-.015196	.8759413	.6700990	.1954583	.2077596
#3	.3999745	-.014940	.8600531	.6842614	.1953845	.2068234

Elem	Sr4077
Units	ppm
Avg	.1920927
Stddev	.0012705
%RSD	.6613767
#1	.1906264
#2	.1928643
#3	.1927874

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1266.350	1664.029	44276.58	7172.653	1769.741
Stddev	16.581	6.783	328.23	19.816	4.451
%RSD	1.309378	.4076316	.7413185	.2762727	.2514985
#1	1257.920	1657.436	44034.59	7164.547	1765.925
#2	1285.453	1663.665	44650.19	7158.176	1768.667
#3	1255.678	1670.987	44144.95	7195.237	1774.630

Sample Name: O3782-01 Acquired: 07/31/2023 15:51:16 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-01I Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005420**	**-.001820**	**.0089236**	**.0002862**	**-.002231**	**.0432956**
Stddev	.006229	.000804	.0027081	.0029742	.001883	.0009837
%RSD	114.9209	44.15446	30.34760	1039.220	84.42412	2.272111
#1	-.010894	-.001835	.0076302	-.000247	-.004398	.0428927
#2	.001358	-.001009	.0120359	.003491	-.001303	.0444169
#3	-.006725	-.002616	.0071047	-.002385	-.000992	.0425774

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0378681**	**-.000038**	**-.000083**	**43.53762**	**.0022470**	**-.001045**
Stddev	.0033421	.000135	.000017	3.83788	.0002492	.000333
%RSD	8.825725	359.7762	20.71026	8.815090	11.08815	31.82754
#1	.0372637	-.000020	-.000098	43.08295	.0021013	-.000681
#2	.0414712	-.000181	-.000087	47.58258	.0025347	-.001333
#3	.0348695	.000088	-.000064	39.94733	.0021051	-.001122

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042556**	**.0854533**	**.0171450**	**9.326469**	**.0009382**	**.0002309**
Stddev	.0037473	.0120660	.0019214	.791945	.0004136	.0002086
%RSD	88.05522	14.12002	11.20651	8.491366	44.08214	90.35100
#1	.0002723	.0837365	.0167745	9.326526	.0005347	.0004045
#2	.0077108	.0982858	.0192246	10.11839	.0009186	-.000000
#3	.0047837	.0743377	.0154359	8.53450	.0013612	.000289

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**160.3879**	**.0019915**	**.0080924**	**7.176650**	**.0133494**	**.0823498**
Stddev	14.2529	.0008726	.0006034	.760510	.0042979	.0070775
%RSD	8.886528	43.81755	7.455839	10.59701	32.19513	8.594415
#1	159.2802	.0026586	.0085903	7.064405	.0098896	.0835453
#2	175.1624	.0010040	.0074214	7.987045	.0119982	.0887533
#3	146.7212	.0023121	.0082655	6.478501	.0181605	.0747507

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3782-01 Acquired: 07/31/2023 15:51:16 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-01I Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005143	F 12.41407	F 10.29389	.0008257	.0006858	.0024075
Stddev	.0004596	.02693	.86004	.0004936	.0009191	.0013861
%RSD	89.37188	.2169226	8.354890	59.78485	134.0205	57.57517
#1	.0009165	12.41160	10.23351	.0012701	-.000366	.0016009
#2	.0006132	12.38847	11.18253	.0009126	.001332	.0040080
#3	.0000133	12.44215	9.46563	.0002944	.001092	.0016135

Elem	Sr4077
Units	ppm
Avg	.3742987
Stddev	.0347999
%RSD	9.297356
#1	.3721431
#2	.4101262
#3	.3406267

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1206.523	1588.162	42381.81	7029.070	1651.333
Stddev	1.695	3.729	97.07	592.143	1.568
%RSD	.1404552	.2348118	.2290285	8.424206	.0949347
#1	1206.070	1586.308	42416.68	6987.702	1650.673
#2	1208.398	1592.454	42456.61	6458.695	1653.123
#3	1205.101	1585.722	42272.12	7640.812	1650.203

Sample Name: O3782-02 Acquired: 07/31/2023 15:55:16 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-01I Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000374**	**-.001629**	**.0080304**	**.0047858**	**-.003184**	**.0644004**
Stddev	.008793	.001025	.0045307	.0052673	.002051	.0085089
%RSD	2351.929	62.90668	56.41945	110.0622	64.40694	13.21241
#1	-.008624	-.002812	.0096973	.0010452	-.003523	.0587197
#2	-.001374	-.001067	.0029024	.0108094	-.005043	.0741832
#3	.008876	-.001008	.0114915	.0025026	-.000985	.0602982

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0369823**	**-.000069**	**-.000010**	**42.75746**	**.0017899**	**-.000947**
Stddev	.0007770	.000020	.000125	.81628	.0003302	.000177
%RSD	2.101058	28.24883	1296.038	1.909105	18.44957	18.74463
#1	.0363146	-.000067	.000036	41.81925	.0021184	-.001119
#2	.0367970	-.000051	.000086	43.14825	.0017932	-.000764
#3	.0378352	-.000090	-.000151	43.30489	.0014580	-.000957

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027138**	**.1031641**	**.0135795**	**9.122032**	**.0008421**	**.0003808**
Stddev	.0063168	.0056575	.0002570	.146543	.0004592	.0003285
%RSD	232.7690	5.484001	1.892388	1.606468	54.52521	86.24904
#1	.0088851	.0992448	.0132855	8.953002	.0005643	.0001156
#2	-.003739	.1096500	.0136924	9.213360	.0013721	.0002787
#3	.002995	.1005975	.0137608	9.199734	.0005900	.0007482

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**156.0211**	**.0012708**	**.0206032**	**6.979632**	**.0124241**	**.0809784**
Stddev	3.2622	.0023684	.0070372	.221611	.0026197	.0009749
%RSD	2.090855	186.3660	34.15579	3.175113	21.08545	1.203880
#1	152.6194	.0006643	.0286683	6.730673	.0137394	.0800951
#2	156.3208	.0038834	.0174291	7.052866	.0094074	.0808158
#3	159.1231	-.000735	.0157121	7.155357	.0141254	.0820244

Sample Name: O3782-02 Acquired: 07/31/2023 15:55:16 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-01I Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000263	F 12.04184	F 10.25546	.0002490	.0015598	.0018385
Stddev	.000263	.02330	.14567	.0017872	.0006349	.0009324
%RSD	99.97761	.1935135	1.420402	717.6486	40.70398	50.71655
#1	-.000558	12.05096	10.09333	-.001110	.0013664	.0012974
#2	-.000182	12.01536	10.29774	.002273	.0022689	.0029152
#3	-.000050	12.05921	10.37532	-.000416	.0010440	.0013030

Elem	Sr4077
Units	ppm
Avg	.3631719
Stddev	.0078612
%RSD	2.164589
#1	.3546093
#2	.3648436
#3	.3700627

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1209.006	1601.976	42476.11	7116.067	1668.058
Stddev	1.181	4.974	228.81	96.873	3.596
%RSD	.0976838	.3104948	.5386739	1.361333	.2155938
#1	1209.814	1599.014	42261.72	7220.018	1665.545
#2	1209.554	1607.719	42717.02	7099.870	1672.177
#3	1207.651	1599.197	42449.59	7028.313	1666.451

Sample Name: O3782-03 Acquired: 07/31/2023 15:59:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LEA-6I Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004383**	**-.003546**	**.0098873**	**.0055566**	**-.002615**	**.0235977**
Stddev	.005301	.001075	.0021530	.0064763	.001121	.0033952
%RSD	120.9421	30.30889	21.77538	116.5508	42.88849	14.38806
#1	-.005951	-.002421	.0082098	-.001850	-.002401	.0273840
#2	-.008724	-.004563	.0091371	.010156	-.003828	.0208238
#3	.001525	-.003654	.0123151	.008364	-.001616	.0225853

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0781711**	**-.000185**	**.0002984**	**39.56838**	**.0018195**	**.0005307**
Stddev	.0012188	.000031	.0000283	.61872	.0003226	.0004723
%RSD	1.559105	16.63589	9.472043	1.563679	17.72891	89.00057
#1	.0767639	-.000218	.0003050	38.89378	.0021916	.0005659
#2	.0788862	-.000157	.0003229	39.70195	.0016481	.0009844
#3	.0788633	-.000180	.0002675	40.10941	.0016188	.0000418

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020457**	**.0907635**	**1.215897**	**9.658658**	**.0024971**	**.0002971**
Stddev	.0008294	.0044243	.016788	.107872	.0000822	.0003199
%RSD	40.54323	4.874486	1.380681	1.116844	3.293762	107.6962
#1	.0029099	.0926544	1.197971	9.540779	.0024119	.0006654
#2	.0019711	.0857080	1.218471	9.682741	.0025760	.0000885
#3	.0012561	.0939281	1.231249	9.752453	.0025034	.0001372

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.8009**	**.0017088**	**.0145973**	**4.921798**	**.0222508**	**.0761216**
Stddev	1.6034	.0014753	.0006299	.076663	.0010390	.0016623
%RSD	1.372786	86.33221	4.315193	1.557632	4.669579	2.183796
#1	115.4749	.0014183	.0139281	4.836981	.0213424	.0746143
#2	116.3448	.0033077	.0146852	4.986158	.0220263	.0758460
#3	118.5829	.0004005	.0151787	4.942255	.0233837	.0779045

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3782-03 Acquired: 07/31/2023 15:59:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LEA-6I Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000120	F 14.85557	9.159620	.0005177	.0004586	.0049631
Stddev	.000153	.04106	.111471	.0023336	.0006842	.0009534
%RSD	127.3446	.2763929	1.216983	450.7210	149.1906	19.20939
#1	-.000185	14.83565	9.091091	-.001905	.0007718	.0047252
#2	.000055	14.82827	9.099526	.000707	-.000326	.0060130
#3	-.000230	14.90279	9.288243	.002751	.000930	.0041513

Elem	Sr4077
Units	ppm
Avg	.2270691
Stddev	.0023378
%RSD	1.029535
#1	.2245412
#2	.2275130
#3	.2291531

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1225.654	1610.699	42927.03	7094.632	1686.844
Stddev	12.232	.618	300.33	38.510	1.673
%RSD	.9980248	.0383822	.6996239	.5428041	.0992001
#1	1226.006	1610.409	42861.21	7130.346	1688.562
#2	1213.250	1611.409	42665.06	7099.720	1686.752
#3	1237.707	1610.279	43254.80	7053.832	1685.219

Sample Name: O3782-04 Acquired: 07/31/2023 16:03:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LEA-6I Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005812**	**-.001290**	**.0090256**	**.0049184**	**-.000869**	**.1102183**
Stddev	.009289	.002669	.0025272	.0087575	.002469	.0041623
%RSD	159.8188	206.8390	28.00062	178.0538	284.1984	3.776373
#1	-.016348	-.003042	.0089326	.0070982	-.000316	.1059217
#2	-.002292	-.002611	.0115979	.0123802	-.003567	.1105015
#3	.001202	.001782	.0065461	-.004723	.001277	.1142317

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0785370**	**-.000136**	**.0002461**	**40.22963**	**.0012281**	**-.000408**
Stddev	.0009610	.000080	.0000877	.50875	.0001822	.000076
%RSD	1.223646	58.68980	35.64462	1.264615	14.83197	18.53514
#1	.0774344	-.000165	.0002303	39.64664	.0011426	-.000331
#2	.0791967	-.000046	.0003406	40.45857	.0014372	-.000482
#3	.0789799	-.000196	.0001673	40.58370	.0011044	-.000411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020454**	**.0362808**	**1.082155**	**9.879828**	**.0027500**	**.0004575**
Stddev	.0030822	.0073685	.015970	.173191	.0000361	.0003516
%RSD	150.6956	20.30973	1.475773	1.752974	1.312766	76.83938
#1	.0030879	.0287390	1.063780	9.680467	.0027289	.0000520
#2	-.001423	.0366406	1.089995	9.965858	.0027294	.0006769
#3	.004471	.0434629	1.092689	9.993160	.0027917	.0006437

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**118.3459**	**.0030619**	**.0070672**	**5.048505**	**.0173319**	**.0791272**
Stddev	1.0196	.0016435	.0008657	.053868	.0003625	.0015105
%RSD	.8615107	53.67586	12.24993	1.067009	2.091602	1.908988
#1	117.2067	.0040256	.0061702	4.990191	.0175775	.0783510
#2	118.6585	.0039960	.0071335	5.058917	.0169155	.0808680
#3	119.1726	.0011642	.0078978	5.096407	.0175026	.0781627

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3782-04 Acquired: 07/31/2023 16:03:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: LEA-6I Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000144	F 15.12323	9.389861	-.000372	.0004533	.0049476
Stddev	.000223	.02055	.038266	.000890	.0007673	.0008015
%RSD	154.6686	.1358977	.4075238	239.2969	169.2941	16.19954
#1	-.000232	15.14601	9.347135	.000390	.0012166	.0054364
#2	.000110	15.10608	9.420979	-.000155	-.000318	.0053838
#3	-.000311	15.11759	9.401468	-.001350	.000461	.0040226

Elem	Sr4077
Units	ppm
Avg	.2309206
Stddev	.0010851
%RSD	.4699186
#1	.2298207
#2	.2309508
#3	.2319904

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1222.838	1613.267	42829.00	7077.353	1685.205
Stddev	6.595	2.753	31.26	37.223	1.083
%RSD	.5393558	.1706461	.0729928	.5259429	.0642882
#1	1229.942	1616.025	42815.18	7118.059	1686.112
#2	1216.910	1613.258	42807.04	7045.051	1684.006
#3	1221.661	1610.519	42864.79	7068.948	1685.499

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3782-05 Acquired: 07/31/2023 16:07:18 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-06S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004082**	**.0013059**	**.0123758**	**.0075626**	**-.001570**	**.0751500**	**.2928565**
Stddev	.008814	.0049112	.0021925	.0048346	.001990	.0042577	.0030341
%RSD	215.9437	376.0857	17.71580	63.92783	126.7538	5.665542	1.036037
#1	.002277	-.004296	.0132877	.0033705	.000316	.0778043	.2894036
#2	-.014144	.004869	.0139651	.0128513	-.003649	.0774066	.2940688
#3	-.000378	.003345	.0098745	.0064659	-.001377	.0702390	.2950969

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000027**	**.0000231**	**138.8394**	**.0017661**	**.0005562**	**-.000091**	**11.20170**
Stddev	.000086	.0001149	1.9876	.0005581	.0005395	.001713	.12760
%RSD	317.3961	497.0791	1.431614	31.59837	96.99746	1886.605	1.139120
#1	-.000075	.0001189	136.6010	.0014930	-.000066	.001715	11.05454
#2	-.000078	-.000104	139.5196	.0013972	.000900	-.001694	11.26892
#3	.000072	.000055	140.3977	.0024081	.000834	-.000293	11.28163

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.335176**	**11.57915**	**.0039988**	**.0001019**	**1294.432**	**.0035025**	**.0069598**
Stddev	.009520	.10521	.0002408	.0003007	16.498	.0009148	.0004422
%RSD	.7129947	.9085948	6.021695	295.2651	1.274501	26.11838	6.354163
#1	1.324448	11.45768	.0039553	.0002415	1275.404	.0036282	.0071832
#2	1.338463	11.63900	.0042584	.0003074	1303.168	.0025313	.0072458
#3	1.342617	11.64079	.0037827	-.000243	1304.725	.0043479	.0064504

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.28970**	**.0950567**	**.0724449**	**-.000166**	**1.543410**	**8.810958**	**-.003734**
Stddev	.21095	.0047575	.0014013	.000188	.009953	.049270	.001477
%RSD	1.379666	5.004865	1.934278	113.0665	.6448922	.5591953	39.55900
#1	15.04670	.0958486	.0708587	-.000313	1.534445	8.756516	-.003846
#2	15.42580	.0899530	.0729611	.000046	1.541665	8.823872	-.002204
#3	15.39660	.0993686	.0735149	-.000232	1.554121	8.852485	-.005152

Sample Name: O3782-05 Acquired: 07/31/2023 16:07:18 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-06S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002041	.0004769	.7329714
Stddev	.000681	.0002826	.0066322
%RSD	33.34248	59.26309	.9048322
#1	-.001508	.0008006	.7256015
#2	-.002808	.0003505	.7384589
#3	-.001807	.0002794	.7348537

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1096.813	1468.480	37779.59	6609.889	1398.419
Stddev	11.153	1.932	38.03	30.308	3.057
%RSD	1.016857	.1315843	.1006716	.4585293	.2186177
#1	1086.841	1467.401	37784.83	6644.401	1395.437
#2	1094.740	1467.328	37739.21	6587.607	1398.274
#3	1108.856	1470.711	37814.73	6597.657	1401.546

Sample Name: LR CHECK 2 Acquired: 07/31/2023 16:11:20 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.020377**	**.0077319**	**271.8503**	**-.008972**	**-.023361**	**.3218107**	**102.0271**
Stddev	.008075	.0032671	.6592	.002122	.000510	.0080602	.6604
%RSD	39.62849	42.25416	.2424698	23.64803	2.183692	2.504641	.6472771
#1	-.025455	.0099535	272.1015	-.009533	-.023037	.3196896	101.2876
#2	-.011065	.0039806	271.1025	-.006626	-.023096	.3150232	102.2357
#3	-.024611	.0092616	272.3469	-.010757	-.023949	.3307194	102.5580

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002104**	**.0004853**	**.3942984**	**-.166689**	**-.003817**	**236.9266**	**-.334645**
Stddev	.000032	.0000560	.0032519	.001101	.000282	1.9437	.004443
%RSD	1.509021	11.54572	.8247374	.6605497	7.393043	.8203648	1.327797
#1	-.002070	.0005064	.3968723	-.166063	-.003634	235.6846	-.332242
#2	-.002107	.0005276	.3906437	-.166044	-.004142	235.9286	-.339772
#3	-.002134	.0004217	.3953793	-.167961	-.003675	239.1665	-.331921

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.93575**	**.1373129**	**50.32032**	**.0024460**	**.8201125**	**-.018533**	**36.86453**
Stddev	.15705	.0388027	.13359	.0002362	.0814756	.002043	.30099
%RSD	.3418940	28.25864	.2654770	9.655955	9.934684	11.02320	.8164644
#1	45.77841	.0931418	50.34344	.0026572	.7263288	-.017725	36.84513
#2	46.09251	.1528913	50.17669	.0024897	.8605442	-.020857	36.57372
#3	45.93631	.1659055	50.44085	.0021910	.8734646	-.017018	37.17475

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082465**	**-3.83270**	**.0011023**	**-.038917**	**-.672286**	**.0232372**	**-.000661**
Stddev	.0569320	.02605	.0009251	.000329	.008682	.0008642	.001082
%RSD	690.3752	.6796102	83.92744	.8457749	1.291390	3.719083	163.7163
#1	-.043196	-3.80908	.0001609	-.039154	-.662962	.0231936	-.000022
#2	.069415	-3.82838	.0020102	-.038541	-.680138	.0241224	-.000051
#3	-.001479	-3.86064	.0011358	-.039055	-.673758	.0223956	-.001910

Sample Name: LR CHECK 2 Acquired: 07/31/2023 16:11:20 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.011418	.0007657	.0019462
Stddev	.000911	.0012582	.0000404
%RSD	7.980978	164.3240	2.076989
#1	-.010678	-.000664	.0019892
#2	-.011141	.001258	.0019405
#3	-.012436	.001704	.0019090

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1179.642	1576.114	44695.23	7227.988	1722.165
Stddev	14.556	8.254	308.14	49.739	9.002
%RSD	1.233969	.5236903	.6894181	.6881387	.5227272
#1	1175.509	1566.623	44671.00	7221.121	1713.298
#2	1195.818	1580.098	45014.76	7182.040	1731.297
#3	1167.598	1581.620	44399.92	7280.804	1721.900

Sample Name: CCV02 Acquired: 07/31/2023 16:21:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**5.104972**	**5.047132**	**4.907205**	**5.087369**	**4.990051**	**10.14211**	**10.14825**
Stddev	.029110	.005274	.013288	.015534	.019257	.03834	.04780
%RSD	.5702249	.1044882	.2707827	.3053445	.3859167	.3779926	.4710642
#1	5.083565	5.041809	4.891875	5.073470	4.978429	10.18497	10.09682
#2	5.093232	5.047232	4.914327	5.084500	4.979444	10.13027	10.15660
#3	5.138118	5.052355	4.915414	5.104138	5.012280	10.11110	10.19132

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2322870**	**2.408988**	**24.18925**	**.9716880**	**2.440788**	**1.208266**	**5.056423**
Stddev	.0006421	.007933	.05889	.0007373	.008534	.013624	.028258
%RSD	.2764231	.3293243	.2434664	.0758805	.3496605	1.127574	.5588608
#1	.2327532	2.401313	24.16800	.9716107	2.431285	1.197507	5.089035
#2	.2315546	2.408494	24.14394	.9709923	2.443281	1.203706	5.039190
#3	.2325532	2.417156	24.25582	.9724609	2.447798	1.223585	5.041043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.420383**	**23.40061**	**2.447819**	**1.243987**	**24.22622**	**2.400011**	**2.515098**
Stddev	.013275	.03024	.004422	.002682	.19228	.020437	.001328
%RSD	.5484589	.1292470	.1806518	.2156188	.7936750	.8515365	.0528162
#1	2.405201	23.36609	2.442953	1.242575	24.28875	2.383686	2.514829
#2	2.426146	23.42245	2.448910	1.247080	24.01046	2.393415	2.513925
#3	2.429803	23.41330	2.451593	1.242306	24.37945	2.422931	2.516541

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.53112**	**5.199232**	**4.719368**	**4.954125**	**5.040666**	**4.777907**	**4.816085**
Stddev	.10773	.019374	.000579	.021564	.011286	.013395	.019735
%RSD	.4391422	.3726333	.0122763	.4352816	.2238915	.2803616	.4097625
#1	24.40851	5.178061	4.718754	4.933331	5.028118	4.774460	4.793844
#2	24.61058	5.203555	4.719905	4.952659	5.049985	4.766572	4.822907
#3	24.57428	5.216079	4.719444	4.976385	5.043895	4.792689	4.831503

Sample Name: CCV02 Acquired: 07/31/2023 16:21:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.834297**	**5.017322**	**4.882114**
Stddev	.031205	.013755	.028883
%RSD	.6454992	.2741462	.5916079
#1	4.810430	5.002271	4.848997
#2	4.822852	5.020451	4.895261
#3	4.869609	5.029242	4.902085

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1264.511**	**1653.423**	**44298.05**	**7294.855**	**1691.204**
Stddev	2.810	3.778	97.36	11.690	2.970
%RSD	.2222190	.2284655	.2197788	.1602513	.1756377
#1	1261.831	1657.464	44290.92	7281.494	1694.352
#2	1264.267	1652.825	44204.45	7299.871	1688.451
#3	1267.435	1649.980	44398.77	7303.200	1690.809

Sample Name: CCB02 Acquired: 07/31/2023 16:25:31 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.003630**	**.0010286**	**.0015654**	**-.000011**	**-.001048**	**.0247107**	**-.000042**
Stddev	.007620	.0020173	.0021048	.007503	.002051	.0082995	.000273
%RSD	209.8949	196.1169	134.4572	66183.98	195.7378	33.58657	646.6909
#1	.005031	.0003058	-.000384	.004727	-.002872	.0308552	.000247
#2	-.009305	.0033077	.001284	-.008662	.001173	.0280076	-.000078
#3	-.006617	-.000528	.003797	.003901	-.001444	.0152694	-.000296

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000164**	**.0000149**	**.0282785**	**-.000236**	**.0000162**	**.0021152**	**.0158558**
Stddev	.0000311	.0001386	.0083375	.000468	.0002920	.0011898	.0042117
%RSD	190.5157	929.9133	29.48345	197.7306	1801.323	56.25109	26.56237
#1	.0000361	.0000371	.0374212	-.000272	-.000279	.0023567	.0201125
#2	-.000020	.0001410	.0263190	-.000685	.000305	.0031656	.0157643
#3	.000032	-.000133	.0210952	.000248	.000023	.0008231	.0116906

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003598**	**.0088969**	**.0006600**	**.0003817**	**.1120187**	**.0023892**	**.0004327**
Stddev	.0001950	.0064330	.0003788	.0007621	.0707371	.0012366	.0001418
%RSD	54.20818	72.30598	57.39815	199.6515	63.14757	51.75990	32.77352
#1	.0005814	.0160424	.0005695	.0012564	.1135232	.0012090	.0005294
#2	.0002838	.0035665	.0010759	.0000278	.0405413	.0022832	.0004988
#3	.0002142	.0070817	.0003346	-.000139	.1819915	.0036754	.0002699

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0935335**	**-.003197**	**.0033678**	**.0006104**	**-.007933**	**.0042980**	**.0009036**
Stddev	.0257741	.002073	.0005863	.0005682	.007463	.0006566	.0009247
%RSD	27.55595	64.83704	17.40756	93.08643	94.07732	15.27769	102.3360
#1	.1158723	-.001828	.0034045	.0012552	-.008343	.0038254	.0005215
#2	.0993946	-.002181	.0039349	.0001835	-.015182	.0050478	.0019580
#3	.0653337	-.005581	.0027641	.0003923	-.000273	.0040209	.0002312

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: CCB02 Acquired: 07/31/2023 16:25:31 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000020	.0005742	.0003817
Stddev	.000391	.0006913	.0000665
%RSD	1923.279	120.4002	17.42631
#1	-.000304	.0011816	.0004560
#2	.000426	-.000178	.0003611
#3	-.000183	.000719	.0003279

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1331.846	1747.218	46321.50	7494.607	1851.386
Stddev	4.048	1.570	189.07	59.781	2.526
%RSD	.3039385	.0898847	.4081727	.7976552	.1364158
#1	1327.675	1747.487	46527.57	7552.280	1850.853
#2	1332.104	1745.531	46156.03	7432.920	1854.136
#3	1335.758	1748.637	46280.90	7498.620	1849.170

Sample Name: O3782-06 Acquired: 07/31/2023 16:29:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-06S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005406**	**-.001522**	**.0120876**	**.0034132**	**.0001589**	**.0865308**	**.3099200**
Stddev	.008117	.001007	.0034828	.0044971	.0005980	.0041296	.0061663
%RSD	150.1565	66.15074	28.81263	131.7576	376.4181	4.772353	1.989639
#1	-.011474	-.001656	.0153778	.0024203	.0006194	.0888032	.3030338
#2	.003814	-.000455	.0084399	.0083237	-.000517	.0890252	.3117954
#3	-.008557	-.002455	.0124451	-.000505	.000374	.0817642	.3149309

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000160**	**.0000542**	**145.0268**	**.0013368**	**.0007780**	**.0062412**	**9.215907**
Stddev	.0000451	.0000822	2.7983	.0002674	.0003058	.0024237	.160700
%RSD	282.0751	151.4687	1.929489	20.00144	39.30798	38.83375	1.743729
#1	.0000098	-.000031	141.9184	.0014916	.0004724	.0042059	9.039125
#2	-.000026	.000062	145.8169	.0014907	.0010840	.0089224	9.255455
#3	.000064	.000132	147.3450	.0010280	.0007774	.0055954	9.353141

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.414963**	**12.14936**	**.0046742**	**.0001654**	**1331.934**	**.0020285**	**.0142819**
Stddev	.027416	.25012	.0001936	.0004946	19.132	.0007808	.0012430
%RSD	1.937588	2.058726	4.142973	298.9360	1.436391	38.49188	8.703544
#1	1.384433	11.89447	.0047063	.0006840	1310.150	.0013580	.0157046
#2	1.422977	12.15920	.0048497	.0001133	1339.647	.0028857	.0134057
#3	1.437479	12.39443	.0044665	-.000301	1346.006	.0018417	.0137355

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.22224**	**.0366756**	**.0796831**	**.0020960**	**1.651260**	**8.930315**	**-.003840**
Stddev	.34777	.0056922	.0005346	.0003619	.051186	.127166	.001515
%RSD	2.143775	15.52035	.6708543	17.26520	3.099806	1.423977	39.45433
#1	15.84363	.0429187	.0796163	.0022561	1.613327	8.789603	-.002799
#2	16.29565	.0317740	.0791851	.0016817	1.630974	8.964324	-.005578
#3	16.52745	.0353340	.0802479	.0023503	1.709480	9.037019	-.003143

Sample Name: O3782-06 Acquired: 07/31/2023 16:29:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 22-MW-06S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000844	.0015304	.7798831
Stddev	.000247	.0008989	.0155890
%RSD	29.27180	58.73653	1.998890
#1	-.000574	.0020855	.7618969
#2	-.001059	.0004933	.7895005
#3	-.000898	.0020125	.7882519

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1115.881	1490.031	38500.20	6772.423	1413.896
Stddev	3.194	33.434	99.05	70.350	33.096
%RSD	.2861952	2.243824	.2572638	1.038774	2.340800
#1	1112.405	1509.089	38406.72	6850.767	1433.172
#2	1118.686	1509.579	38489.89	6751.843	1432.836
#3	1116.550	1451.427	38604.00	6714.657	1375.680

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3782-15 Acquired: 07/31/2023 16:33:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: EB-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001607**	**-.001945**	**.0000105**	**-.002255**	**-.002911**	**.0299716**	**-.000442**
Stddev	.004615	.002331	.0007250	.004735	.000662	.0019413	.000070
%RSD	287.1766	119.8558	6927.691	209.9876	22.74713	6.477135	15.74574
#1	-.003074	-.004630	.0006837	.001928	-.002885	.0279674	-.000491
#2	-.005309	-.000757	-.000757	-.001297	-.002262	.0318432	-.000472
#3	.003563	-.000447	.000105	-.007396	-.003586	.0301042	-.000362

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000143**	**-.000082**	**.0840028**	**.0017266**	**-.000083**	**.0008572**	**.0587055**
Stddev	.000018	.000020	.0071132	.0002682	.000338	.0009053	.0033540
%RSD	12.92136	24.85408	8.467786	15.53376	407.3129	105.6154	5.713183
#1	-.000125	-.000088	.0922019	.0015846	.000147	.0018318	.0557235
#2	-.000141	-.000059	.0803240	.0015592	-.000472	.0000424	.0580564
#3	-.000162	-.000098	.0794823	.0020359	.000076	.0006974	.0623365

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018713**	**.0176937**	**.0000121**	**.0003303**	**.2629218**	**.0014315**	**.0034694**
Stddev	.0002570	.0079441	.0000485	.0003333	.0836302	.0016751	.0002236
%RSD	13.73487	44.89808	400.3632	100.9334	31.80801	117.0170	6.446372
#1	.0020498	.0268397	.0000287	.0002594	.1663590	-.000376	.0032145
#2	.0015767	.0125101	.0000502	.0006933	.3120553	.002931	.0036327
#3	.0019873	.0137314	-.000043	.0000380	.3103511	.001740	.0035611

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051334**	**.0048567**	**.0252052**	**-.000081**	**.0090120**	**.0670131**	**.0023621**
Stddev	.0290435	.0044805	.0015735	.000080	.0019268	.0039262	.0008418
%RSD	565.7771	92.25453	6.242690	99.12810	21.38009	5.858892	35.63611
#1	.0090574	.0098897	.0235719	-.000160	.0108858	.0711156	.0019005
#2	-.025673	.0013023	.0253325	-.000000	.0070363	.0666328	.0018522
#3	.032015	.0033782	.0267111	-.000082	.0091140	.0632908	.0033337

Sample Name: O3782-15 Acquired: 07/31/2023 16:33:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: EB-01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008292	-.000506	.0002372
Stddev	.0004007	.000686	.0000618
%RSD	48.32220	135.7135	26.03585
#1	.0007481	-.001125	.0002990
#2	.0004753	-.000625	.0002371
#3	.0012643	.000232	.0001755

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1270.626	1670.939	44850.79	7212.610	1771.810
Stddev	5.215	1.043	81.02	52.585	3.129
%RSD	.4104653	.0624454	.1806487	.7290696	.1766241
#1	1276.572	1671.434	44818.42	7263.330	1772.097
#2	1268.479	1671.644	44790.96	7216.160	1774.787
#3	1266.826	1669.741	44942.99	7158.340	1768.548

Sample Name: O3782-16 Acquired: 07/31/2023 16:37:41 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: EB-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004216**	**-.003064**	**-.001265**	**.0031525**	**-.002982**	**.0519486**	**-.000748**
Stddev	.004905	.001037	.001147	.0026940	.001539	.0029291	.000297
%RSD	116.3387	33.84709	90.68900	85.45408	51.60216	5.638512	39.62564
#1	-.000500	-.003207	-.000657	.0000424	-.001231	.0540649	-.000851
#2	-.009776	-.001962	-.000550	.0046542	-.003600	.0486055	-.000980
#3	-.002373	-.004021	-.002588	.0047610	-.004116	.0531753	-.000414

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000041**	**-.000187**	**.1066647**	**.0035753**	**-.000120**	**.0028949**	**.0364761**
Stddev	.000043	.000091	.0038520	.0002807	.000055	.0013954	.0049546
%RSD	105.2142	48.49551	3.611308	7.849906	45.85763	48.19986	13.58311
#1	-.000038	-.000105	.1070898	.0036228	-.000181	.0026412	.0417576
#2	.000000	-.000284	.1026177	.0038292	-.000103	.0016439	.0357400
#3	-.000086	-.000172	.1102864	.0032740	-.000075	.0043997	.0319308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024799**	**-.009021**	**.0016368**	**.0005654**	**-.039753**	**.0043427**	**.0034084**
Stddev	.0002102	.027225	.0003496	.0000439	.189549	.0022892	.0000168
%RSD	8.477077	301.8043	21.35940	7.757595	476.8208	52.71314	.4941535
#1	.0026750	.008643	.0019781	.0005189	-.016791	.0067893	.0034253
#2	.0025075	-.040374	.0016529	.0005712	.137269	.0022527	.0034082
#3	.0022572	.004668	.0012794	.0006060	-.239736	.0039862	.0033916

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.052545**	**.0018729**	**-.002420**	**.0001787**	**.0181470**	**.0666011**	**.0025023**
Stddev	.016351	.0008078	.000496	.0005681	.0052549	.0006341	.0006188
%RSD	31.11769	43.13189	20.48851	317.8550	28.95762	.9520457	24.73034
#1	-.041736	.0009420	-.002747	.0008147	.0242148	.0659997	.0030452
#2	-.071355	.0023900	-.001850	-.000279	.0151279	.0672634	.0018285
#3	-.044543	.0022867	-.002664	.000000	.0150982	.0665403	.0026332

Sample Name: O3782-16 Acquired: 07/31/2023 16:37:41 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: EB-01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006824	.0005535	.0003343
Stddev	.0003952	.0008153	.0000578
%RSD	57.91449	147.2913	17.28721
#1	.0011384	.0000016	.0002695
#2	.0004394	.0014900	.0003530
#3	.0004694	.0001691	.0003805

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1244.729	1634.098	44016.24	7009.593	1732.337
Stddev	15.242	3.411	224.40	2.715	2.674
%RSD	1.224528	.2087634	.5098071	.0387337	.1543413
#1	1245.069	1634.955	44138.06	7010.920	1729.386
#2	1259.798	1630.339	44153.38	7011.390	1733.026
#3	1229.320	1636.998	43757.28	7006.470	1734.599

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3808-01 Acquired: 07/31/2023 16:41:46 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 1709 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0354834**	**-.001904**	**.0209558**	**.0097699**	**-.003037**	**1.971423**
Stddev	.0103791	.000538	.0019646	.0097958	.002004	.014114
%RSD	29.25049	28.27751	9.375064	100.2655	65.98275	.7159504
#1	.0236255	-.001588	.0204382	.0210555	-.004916	1.957192
#2	.0429181	-.001598	.0193018	.0034691	-.000929	1.971659
#3	.0399065	-.002526	.0231274	.0047849	-.003265	1.985417

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2682140**	**-.000123**	**.0000803**	**110.7935**	**.0083457**	**.0008944**
Stddev	.0035683	.000042	.0000438	1.4981	.0001680	.0003803
%RSD	1.330398	33.71891	54.45819	1.352129	2.013451	42.52440
#1	.2641002	-.000124	.0000298	109.0833	.0082161	.0013133
#2	.2700701	-.000164	.0001057	111.4238	.0082855	.0005708
#3	.2704716	-.000081	.0001055	111.8735	.0085356	.0007991

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0137145**	**2.431397**	**5.186477**	**15.15735**	**.0093781**	**.0006000**
Stddev	.0030088	.006775	.062290	.16076	.0002464	.0001274
%RSD	21.93854	.2786328	1.201002	1.060576	2.627193	21.22715
#1	.0117208	2.423608	5.116388	14.97354	.0096283	.0004666
#2	.0171754	2.435918	5.207537	15.22688	.0093703	.0007204
#3	.0122474	2.434665	5.235507	15.27164	.0091357	.0006129

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.17004**	**.0081103**	**.0545434**	**4.733612**	**.3617090**	**.1530615**
Stddev	.95459	.0018196	.0032650	.061081	.0096335	.0036453
%RSD	1.024569	22.43516	5.986062	1.290357	2.663323	2.381591
#1	92.07393	.0098701	.0521118	4.672256	.3507842	.1496530
#2	93.81891	.0062363	.0532641	4.794414	.3653576	.1526269
#3	93.61726	.0082244	.0582544	4.734165	.3689853	.1569046

Sample Name: O3808-01 Acquired: 07/31/2023 16:41:46 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 1709 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083362	F 25.96619	F 13.25753	-.002268	.0403931	.0034697
Stddev	.0003407	.30402	.22193	.001028	.0013790	.0010021
%RSD	4.087125	1.170835	1.674019	45.31690	3.413814	28.87968
#1	.0084541	25.62418	13.03302	-.001245	.0392291	.0037802
#2	.0086023	26.06863	13.26280	-.002258	.0400342	.0042798
#3	.0079522	26.20576	13.47679	-.003300	.0419160	.0023492

Elem	Sr4077
Units	ppm
Avg	.5756190
Stddev	.0050615
%RSD	.8793209
#1	.5697754
#2	.5784500
#3	.5786316

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1188.212	1595.296	41961.29	7099.912	1648.145
Stddev	44.348	13.319	1748.78	25.703	19.702
%RSD	3.732339	.8349113	4.167601	.3620221	1.195387
#1	1209.954	1610.675	42745.58	7129.566	1670.717
#2	1217.494	1587.738	43180.64	7086.146	1639.311
#3	1137.189	1587.475	39957.66	7084.024	1634.405

Sample Name: O3808-01DUP Acquired: 07/31/2023 16:45:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0382055**	**-.001014**	**.0174517**	**.0076889**	**-.001409**	**2.018587**
Stddev	.0028967	.001147	.0018054	.0058079	.002429	.008600
%RSD	7.581891	113.1581	10.34520	75.53643	172.4658	.4260574
#1	.0408109	.000080	.0193551	.0140497	.000474	2.026204
#2	.0387192	-.000913	.0157635	.0026680	-.000549	2.020295
#3	.0350863	-.002208	.0172364	.0063490	-.004151	2.009260

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2782618**	**-.000208**	**.0000033**	**115.6620**	**.0078689**	**.0006399**
Stddev	.0007112	.000060	.0001498	.3976	.0001678	.0002272
%RSD	.2555807	28.72883	4576.193	.3437488	2.131913	35.50841
#1	.2788244	-.000156	.0001699	115.2466	.0076774	.0004656
#2	.2784987	-.000195	-.000040	115.7005	.0079901	.0005573
#3	.2774625	-.000274	-.000120	116.0390	.0079390	.0008969

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0133561**	**2.555123**	**5.415159**	**15.90082**	**.0093570**	**.0006746**
Stddev	.0020521	.027314	.010234	.05001	.0005156	.0002051
%RSD	15.36464	1.069008	.1889806	.3145044	5.510183	30.40582
#1	.0151491	2.533580	5.403666	15.84369	.0096453	.0008728
#2	.0111179	2.545945	5.423283	15.93664	.0096640	.0006877
#3	.0138012	2.585845	5.418528	15.92215	.0087618	.0004632

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**97.11114**	**.0095053**	**.0543844**	**4.933320**	**.3690455**	**.1593162**
Stddev	.23844	.0023586	.0006095	.057887	.0035395	.0008845
%RSD	.2455340	24.81314	1.120713	1.173392	.9591101	.5551625
#1	97.20073	.0102239	.0541927	4.958247	.3666345	.1601342
#2	96.84089	.0068711	.0538939	4.974568	.3673930	.1583776
#3	97.29182	.0114210	.0550667	4.867145	.3731091	.1594369

Sample Name: O3808-01DUP Acquired: 07/31/2023 16:45:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085895	F 26.52925	F 14.22706	-.002364	.0424328	.0046993
Stddev	.0008596	.08676	.06870	.003443	.0019229	.0015968
%RSD	10.00729	.3270167	.4829141	145.6236	4.531704	33.98029
#1	.0077620	26.59013	14.27177	.001526	.0438222	.0044305
#2	.0085286	26.42991	14.14795	-.005018	.0402382	.0064136
#3	.0094779	26.56770	14.26146	-.003600	.0432380	.0032540

Elem	Sr4077
Units	ppm
Avg	.6006338
Stddev	.0007278
%RSD	.1211739
#1	.6011621
#2	.6009357
#3	.5998037

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1186.973	1565.934	41866.28	6822.297	1611.166
Stddev	3.024	2.688	92.33	26.917	2.019
%RSD	.2547909	.1716839	.2205341	.3945447	.1253392
#1	1185.853	1563.982	41946.64	6793.245	1608.872
#2	1184.668	1569.001	41765.42	6846.390	1612.675
#3	1190.397	1564.821	41886.77	6827.255	1611.952

Sample Name: O3808-01LX5 Acquired: 07/31/2023 16:49:42 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075728**	**-.000005**	**.0022023**	**.0019824**	**-.001435**	**.3913524**	**.0524222**
Stddev	.0054747	.001475	.0003920	.0013469	.001619	.0043540	.0007602
%RSD	72.29341	27976.98	17.80038	67.94408	112.8336	1.112549	1.450249
#1	.0107707	-.000537	.0019810	.0035376	-.001938	.3866090	.0517372
#2	.0012514	-.001141	.0026550	.0012238	.000376	.3922811	.0522892
#3	.0106964	.001662	.0019710	.0011859	-.002742	.3951671	.0532402

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000133**	**-.000064**	**22.43465**	**.0015594**	**-.000516**	**.0006490**	**.5029094**
Stddev	.0001002	.000026	.29656	.0001305	.000134	.0007307	.0073911
%RSD	753.4894	40.08880	1.321864	8.366564	25.88057	112.5851	1.469664
#1	-.000102	-.000071	22.09835	.0014717	-.000563	.0002087	.4946243
#2	.000067	-.000085	22.54691	.0014972	-.000620	.0014924	.5052779
#3	.000075	-.000035	22.65868	.0017093	-.000366	.0002459	.5088258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.062822**	**3.118642**	**.0019494**	**.0003619**	**18.81509**	**.0032253**	**.0111738**
Stddev	.013803	.086636	.0001066	.0002077	.29688	.0033385	.0001719
%RSD	1.298721	2.778001	5.470614	57.38800	1.577879	103.5094	1.538234
#1	1.047235	3.018811	.0018690	.0004116	18.48068	-.000350	.0111224
#2	1.067735	3.162983	.0020703	.0001338	19.04761	.006261	.0113655
#3	1.073497	3.174133	.0019087	.0005401	18.91697	.003765	.0110334

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9448497**	**.0707172**	**.0283826**	**.0013232**	**5.109504**	**2.829850**	**-.001490**
Stddev	.0196550	.0039369	.0001853	.0003976	.034456	.009842	.001410
%RSD	2.080229	5.567108	.6529732	30.04622	.6743605	.3477956	94.61906
#1	.9231729	.0723520	.0282379	.0008647	5.141916	2.820107	-.001733
#2	.9498653	.0735733	.0283183	.0015721	5.073315	2.829655	.000026
#3	.9615111	.0662263	.0285915	.0015329	5.113282	2.839788	-.002762

Sample Name: O3808-01LX5 Acquired: 07/31/2023 16:49:42 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0089536	.0004103	.1142707
Stddev	.0011897	.0008755	.0011323
%RSD	13.28772	213.3657	.9908744
#1	.0103140	.0012543	.1130666
#2	.0084389	-.000494	.1144317
#3	.0081079	.000470	.1153139

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1283.921	1668.910	44278.94	7115.113	1760.411
Stddev	2.704	2.977	162.73	25.875	5.808
%RSD	.2105798	.1783756	.3675162	.3636690	.3299305
#1	1286.735	1666.175	44462.56	7129.468	1757.236
#2	1283.683	1672.080	44221.72	7130.628	1767.114
#3	1281.343	1668.474	44152.55	7085.242	1756.882

Sample Name: O3808-01MS Acquired: 07/31/2023 16:53:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8350104**	**1.852390**	**.9456559**	**1.787618**	**.7404064**	**4.656908**
Stddev	.0165810	.042289	.0218452	.031211	.0187048	.085294
%RSD	1.985726	2.282943	2.310062	1.745954	2.526289	1.831553
#1	.8537692	1.887657	.9651525	1.813918	.7557002	4.562988
#2	.8223126	1.805507	.9220466	1.753128	.7195518	4.678191
#3	.8289496	1.864006	.9497686	1.795807	.7459672	4.729544

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4591859**	**.1716489**	**.1815669**	**109.9814**	**.3786639**	**.1830829**
Stddev	.0080651	.0013018	.0044394	2.3091	.0014880	.0040482
%RSD	1.756388	.7584182	2.445063	2.099524	.3929600	2.211104
#1	.4504123	.1702028	.1856486	107.3768	.3776273	.1859729
#2	.4608684	.1727272	.1768403	110.7896	.3779955	.1784562
#3	.4662771	.1720169	.1822118	111.7777	.3803689	.1848197

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2873832**	**5.506594**	**5.284057**	**16.88728**	**.4572755**	**.0693187**
Stddev	.0054894	.100414	.102507	.39741	.0115538	.0002620
%RSD	1.910145	1.823527	1.939923	2.353323	2.526649	.3780087
#1	.2811147	5.390829	5.167595	16.43995	.4664229	.0691174
#2	.2913321	5.558823	5.323984	17.02231	.4442915	.0696150
#3	.2897027	5.570129	5.360592	17.19959	.4611122	.0692239

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.98385**	**.2956532**	**.2403113**	**14.13585**	**6.239549**	**.4148157**
Stddev	1.92648	.0056556	.0008059	.27656	.138246	.0059475
%RSD	2.028222	1.912927	.3353673	1.956479	2.215637	1.433778
#1	92.76939	.2891946	.2408158	13.83119	6.362962	.4086119
#2	95.90820	.2997196	.2407363	14.20527	6.090157	.4204687
#3	96.27396	.2980456	.2393819	14.37110	6.265527	.4153665

Sample Name: O3808-01MS Acquired: 07/31/2023 16:53:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3990174	F 25.31828	F 18.00472	.6437834	.2767733	.1992145
Stddev	.0077545	.60837	.20149	.0144659	.0047431	.0030345
%RSD	1.943409	2.402908	1.119103	2.247016	1.713708	1.523241
#1	.4053872	25.83953	17.77214	.6573391	.2714300	.1960640
#2	.3903825	24.64980	18.12629	.6285530	.2784035	.1994617
#3	.4012824	25.46551	18.11574	.6454582	.2804862	.2021179

Elem	Sr4077
Units	ppm
Avg	.7557158
Stddev	.0139292
%RSD	1.843179
#1	.7397953
#2	.7616946
#3	.7656574

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1187.944	1586.297	41831.52	6897.651	1629.122
Stddev	3.663	29.708	59.76	56.247	31.935
%RSD	.3083589	1.872767	.1428608	.8154468	1.960251
#1	1183.810	1561.348	41899.92	6960.275	1602.143
#2	1189.237	1619.161	41805.26	6851.427	1664.381
#3	1190.786	1578.383	41789.40	6881.251	1620.841

Sample Name: O3808-01MSD Acquired: 07/31/2023 16:57:39 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8402800**	**1.863533**	**.9519694**	**1.802860**	**.7488929**	**4.841224**
Stddev	.0048623	.002666	.0025969	.008268	.0034180	.019985
%RSD	.5786500	.1430465	.2727877	.4585861	.4564055	.4128126
#1	.8415075	1.862604	.9506144	1.811435	.7475942	4.818149
#2	.8349216	1.866540	.9549635	1.802208	.7463145	4.852509
#3	.8444109	1.861457	.9503303	1.794938	.7527698	4.853013

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4643986**	**.1733160**	**.1829879**	**111.3333**	**.3797248**	**.1859974**
Stddev	.0038954	.0009028	.0007145	1.2365	.0006153	.0005297
%RSD	.8388077	.5208668	.3904497	1.110602	.1620263	.2848048
#1	.4599065	.1731056	.1822664	109.9085	.3796158	.1854286
#2	.4668438	.1743054	.1830024	111.9666	.3803873	.1864766
#3	.4664456	.1725371	.1836951	112.1248	.3791713	.1860872

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2888317**	**5.523766**	**5.331516**	**17.06875**	**.4615738**	**.0694225**
Stddev	.0011348	.074629	.046887	.20277	.0004069	.0004783
%RSD	.3929003	1.351050	.8794229	1.187989	.0881471	.6889761
#1	.2875473	5.438034	5.278766	16.84064	.4612444	.0688958
#2	.2892491	5.559080	5.347335	17.13710	.4620286	.0698297
#3	.2896988	5.574184	5.368447	17.22852	.4614485	.0695422

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.92395**	**.2981826**	**.2405166**	**14.26940**	**6.259021**	**.4169242**
Stddev	1.26125	.0039090	.0019002	.16721	.019923	.0023389
%RSD	1.314848	1.310927	.7900532	1.171829	.3183023	.5609815
#1	94.46836	.2949640	.2383906	14.08496	6.239848	.4160845
#2	96.61039	.2970515	.2420495	14.41108	6.257597	.4195669
#3	96.69308	.3025324	.2411097	14.31216	6.279617	.4151210

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3808-01MSD Acquired: 07/31/2023 16:57:39 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4028492	F 25.44372	F 17.99795	.6501418	.2849947	.2014325
Stddev	.0012886	.03247	.07858	.0006905	.0103363	.0011257
%RSD	.3198781	.1276338	.4366116	.1062002	3.626851	.5588589
#1	.4015487	25.41516	18.00340	.6493451	.2966647	.2002817
#2	.4028732	25.47904	18.07366	.6505137	.2813274	.2025314
#3	.4041256	25.43695	17.91678	.6505665	.2769921	.2014843

Elem	Sr4077
Units	ppm
Avg	.7610821
Stddev	.0074064
%RSD	.9731436
#1	.7525442
#2	.7657793
#3	.7649227

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1191.886	1580.898	42121.69	6908.036	1621.751
Stddev	10.718	2.061	141.09	6.597	3.666
%RSD	.8992593	.1303480	.3349637	.0955006	.2260394
#1	1203.820	1578.960	42167.95	6915.583	1622.987
#2	1188.757	1580.673	42233.84	6903.364	1617.628
#3	1183.080	1583.062	41963.27	6905.161	1624.640

Sample Name: O3808-01A Acquired: 07/31/2023 17:01:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8627871**	**1.909634**	**.9728285**	**1.841687**	**.7549282**	**3.825208**
Stddev	.0010401	.006253	.0041674	.003283	.0036270	.072452
%RSD	.1205534	.3274525	.4283815	.1782380	.4804418	1.894078
#1	.8636901	1.916839	.9689912	1.845373	.7509562	3.747494
#2	.8616498	1.906430	.9722325	1.840612	.7557644	3.837237
#3	.8630215	1.905631	.9772618	1.839077	.7580641	3.890893

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4604770**	**.1781946**	**.1873375**	**111.9165**	**.3904603**	**.1890697**
Stddev	.0085832	.0022748	.0003334	2.2155	.0004107	.0007987
%RSD	1.863975	1.276589	.1779445	1.979616	.1051722	.4224328
#1	.4511992	.1756906	.1871045	109.5349	.3901377	.1881616
#2	.4620972	.1787593	.1871886	112.2982	.3903207	.1896631
#3	.4681346	.1801338	.1877194	113.9163	.3909226	.1893845

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2933702**	**5.278806**	**5.352017**	**17.12852**	**.4747226**	**.0715789**
Stddev	.0062152	.103982	.101642	.33136	.0017992	.0003687
%RSD	2.118558	1.969798	1.899138	1.934540	.3790066	.5151368
#1	.2883245	5.174596	5.242260	16.78943	.4732300	.0711558
#2	.2914732	5.279264	5.370893	17.14455	.4742175	.0718319
#3	.3003128	5.382558	5.442898	17.45157	.4767204	.0717490

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**96.14147**	**.2986343**	**.2414116**	**14.19818**	**6.406740**	**.4248337**
Stddev	1.86454	.0056424	.0011353	.19057	.003893	.0038411
%RSD	1.939374	1.889402	.4702712	1.342220	.0607587	.9041405
#1	94.08369	.2923100	.2426587	13.99994	6.411225	.4204139
#2	96.62201	.3004403	.2404382	14.21458	6.404765	.4273652
#3	97.71871	.3031525	.2411379	14.38003	6.404231	.4267219

Sample Name: O3808-01A Acquired: 07/31/2023 17:01:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4036595	F 25.76953	F 14.64736	.6522636	.2331786	.2028476
Stddev	.0005474	.06583	.17410	.0047518	.0027993	.0032333
%RSD	.1356106	.2554595	1.188628	.7285083	1.200485	1.593942
#1	.4042791	25.73487	14.45872	.6471438	.2300681	.2013054
#2	.4032414	25.72828	14.68147	.6531145	.2354950	.2006741
#3	.4034580	25.84545	14.80188	.6565324	.2339728	.2065632

Elem	Sr4077
Units	ppm
Avg	.7653758
Stddev	.0131232
%RSD	1.714611
#1	.7511528
#2	.7679599
#3	.7770148

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1205.275	1585.872	42341.95	6920.570	1625.493
Stddev	4.490	1.517	97.73	73.721	3.227
%RSD	.3725365	.0956379	.2308035	1.065247	.1985084
#1	1202.249	1585.299	42235.57	6999.222	1628.786
#2	1210.434	1587.592	42362.55	6909.443	1625.357
#3	1203.142	1584.725	42427.74	6853.045	1622.337

Sample Name: O3808-09 Acquired: 07/31/2023 17:05:31 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 1710-1715 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002159**	**-.004278**	**.0106848**	**.0064078**	**-.001178**	**.1616251**
Stddev	.001998	.003287	.0005517	.0099096	.000395	.0068194
%RSD	92.52931	76.82507	5.163805	154.6504	33.52264	4.219279
#1	-.001865	-.001368	.0113125	.0018197	-.000873	.1677902
#2	-.004288	-.003623	.0102767	-.000376	-.001038	.1543001
#3	-.000325	-.007843	.0104651	.017780	-.001624	.1627850

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3323570**	**-.000106**	**.0000930**	**168.2791**	**.0012948**	**-.001588**
Stddev	.0054126	.000047	.0000339	2.8183	.0007073	.000074
%RSD	1.628557	44.61445	36.43049	1.674767	54.62828	4.654694
#1	.3261721	-.000131	.0000997	165.1525	.0004788	-.001651
#2	.3346706	-.000052	.0001230	169.0605	.0016718	-.001507
#3	.3362284	-.000136	.0000562	170.6242	.0017337	-.001608

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036738**	**11.30851**	**3.311951**	**23.22062**	**.0046515**	**.0005119**
Stddev	.0014703	.15959	.047935	.37590	.0005052	.0002755
%RSD	40.02191	1.411197	1.447342	1.618806	10.86126	53.81772
#1	.0021398	11.14134	3.257779	22.82304	.0042096	.0008297
#2	.0050709	11.32496	3.329193	23.26858	.0052023	.0003653
#3	.0038107	11.45924	3.348880	23.57023	.0045425	.0003407

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.5346**	**.0037101**	**.0536671**	**5.721334**	**.0772849**	**.1872234**
Stddev	1.7030	.0021456	.0008105	.034715	.0013316	.0012989
%RSD	1.247323	57.83237	1.510177	.6067656	1.722974	.6937469
#1	134.5942	.0061870	.0537927	5.681596	.0770560	.1862604
#2	137.2284	.0024249	.0528012	5.736642	.0787161	.1867092
#3	137.7812	.0025182	.0544075	5.745764	.0760826	.1887007

Sample Name: O3808-09 Acquired: 07/31/2023 17:05:31 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 1710-1715 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155081	F 36.04168	F 10.84982	-.003940	.0005058	.0048432
Stddev	.0006614	.13078	.09905	.000533	.0008732	.0009117
%RSD	4.265122	.3628522	.9129083	13.51899	172.6548	18.82387
#1	.0153476	36.05620	10.75934	-.003459	-.000474	.0041481
#2	.0162350	35.90424	10.83449	-.003847	.001201	.0045061
#3	.0149416	36.16459	10.95565	-.004512	.000790	.0058755

Elem	Sr4077
Units	ppm
Avg	.9357645
Stddev	.0114663
%RSD	1.225341
#1	.9233295
#2	.9380442
#3	.9459196

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1183.615	1567.634	41764.63	6947.209	1608.191
Stddev	6.813	4.736	43.13	35.306	7.224
%RSD	.5756472	.3021407	.1032590	.5082029	.4492134
#1	1177.760	1562.935	41721.73	6980.709	1599.857
#2	1181.992	1567.561	41764.17	6950.578	1612.055
#3	1191.094	1572.407	41807.98	6910.339	1612.662

Sample Name: CCV03 Acquired: 07/31/2023 17:09:33 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12220 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.218547**	**5.193407**	**5.032420**	**5.189938**	**5.058354**	**10.27552**
Stddev	.021768	.023035	.017982	.026276	.015077	.03213
%RSD	.4171246	.4435342	.3573170	.5062788	.2980676	.3126407
#1	5.193749	5.168125	5.011664	5.159640	5.041296	10.24645
#2	5.227394	5.198895	5.043274	5.206478	5.063865	10.27010
#3	5.234499	5.213203	5.042321	5.203697	5.069900	10.31001

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.46036**	**.2429432**	**2.484526**	**24.94756**	**1.004008**	**2.508147**
Stddev	.04258	.0016709	.007081	.17513	.000199	.004754
%RSD	.4070482	.6877747	.2849990	.7019769	.0198286	.1895513
#1	10.41247	.2416411	2.476766	24.75695	1.003877	2.502666
#2	10.47467	.2423613	2.486177	24.98437	1.003910	2.511166
#3	10.49394	.2448273	2.490636	25.10135	1.004237	2.510608

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.244531**	**4.927104**	**2.523544**	**24.09552**	**2.503803**	**1.276548**
Stddev	.006386	.033008	.018623	.20215	.007134	.001946
%RSD	.5130893	.6699254	.7379754	.8389568	.2849394	.1524711
#1	1.237197	4.900561	2.503109	23.90308	2.496211	1.278752
#2	1.248860	4.916688	2.527961	24.07732	2.510369	1.275066
#3	1.247535	4.964063	2.539562	24.30615	2.504829	1.275827

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.34706**	**2.499206**	**2.556970**	**25.28935**	F **5.367912**	**4.902607**
Stddev	.09266	.005366	.007091	.02863	.034684	.033273
%RSD	.3805960	.2146975	.2773361	.1131961	.6461433	.6786749
#1	24.34845	2.498985	2.565118	25.31538	5.331712	4.877005
#2	24.43902	2.493954	2.552190	25.25869	5.371173	4.890600
#3	24.25371	2.504678	2.553603	25.29398	5.400850	4.940217

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: CCV03 Acquired: 07/31/2023 17:09:33 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSA12220 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.054524**	**5.187666**	**5.039252**	**4.911518**	**5.015444**	**5.149364**
Stddev	.013230	.033495	.049377	.019141	.017587	.023993
%RSD	.2617358	.6456629	.9798486	.3897098	.3506644	.4659425
#1	5.039377	5.168974	4.999413	4.889540	4.997093	5.121833
#2	5.060379	5.167690	5.023849	4.924529	5.017088	5.160450
#3	5.063815	5.226336	5.094495	4.920485	5.032152	5.165810

Elem	Sr4077
Units	ppm
Avg	**5.094873**
Stddev	.040097
%RSD	.7870147
#1	5.061412
#2	5.139318
#3	5.083888

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1220.811**	**1604.952**	**42485.59**	**6870.955**	**1628.270**
Stddev	10.873	1.584	310.34	14.836	1.241
%RSD	.8906742	.0987158	.7304707	.2159186	.0762271
#1	1209.277	1606.781	42169.59	6857.288	1629.445
#2	1222.281	1604.000	42497.22	6886.733	1626.972
#3	1230.874	1604.074	42789.95	6868.842	1628.394

Sample Name: CCB03 Acquired: 07/31/2023 17:13:28 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12220 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001564**	**.0010413**	**-.001264**	**.0022907**	**-.003350**	**.0005987**	**.0002263**
Stddev	.0041481	.0035090	.001178	.0051902	.001439	.0061752	.0000978
%RSD	2652.141	336.9917	93.17087	226.5735	42.96543	1031.361	43.22093
#1	.0048886	-.001470	-.000315	.0022218	-.003719	-.003008	.0002930
#2	-.001568	.005051	-.000895	-.002865	-.004569	.007729	.0002719
#3	-.002851	-.000457	-.002582	.007515	-.001762	-.002925	.0001140

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000032**	**-.000060**	**.0087566**	**-.000071**	**.0001304**	**.0000538**	**.0079977**
Stddev	.0000723	.000025	.0041904	.000079	.0000852	.0014982	.0013914
%RSD	2249.376	40.81727	47.85424	111.9565	65.34933	2782.804	17.39697
#1	.0000206	-.000047	.0047019	-.000119	.0000466	.0010536	.0079453
#2	-.000076	-.000088	.0084974	.000021	.0002170	-.001669	.0066333
#3	.000065	-.000045	.0130707	-.000114	.0001276	.000777	.0094146

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004188**	**-.013591**	**.0004361**	**.0001290**	**-.142452**	**.0019858**	**-.000064**
Stddev	.0003740	.008534	.0002861	.0004472	.037791	.0034177	.000173
%RSD	89.31983	62.78822	65.59668	346.7507	26.52875	172.1040	270.8048
#1	.0008495	-.014399	.0007123	-.000349	-.156982	.0057384	-.000169
#2	.0001756	-.021692	.0004550	.000198	-.099553	.0011674	.000136
#3	.0002312	-.004682	.0001411	.000538	-.170821	-.000948	-.000159

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.043153**	**-.001904**	**.0049155**	**.0009948**	**-.003320**	**.0132900**	**.0023863**
Stddev	.025664	.001557	.0008571	.0000498	.001250	.0007011	.0020357
%RSD	59.47220	81.77308	17.43636	5.005998	37.63678	5.275076	85.30721
#1	-.071565	-.003255	.0058999	.0010510	-.004224	.0137197	.0000646
#2	-.021652	-.002254	.0045111	.0009564	-.003843	.0136694	.0032288
#3	-.036241	-.000202	.0043354	.0009769	-.001894	.0124811	.0038655

Sample Name: CCB03 Acquired: 07/31/2023 17:13:28 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: ICSAB12220 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0011878	.0007024	.0006222
Stddev	.0004496	.0014129	.0001918
%RSD	37.85644	201.1586	30.82056
#1	.0016094	.0022095	.0008268
#2	.0012393	.0004898	.0005933
#3	.0007146	-.000592	.0004465

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1286.539	1687.982	44319.05	7058.700	1776.913
Stddev	6.526	2.622	301.84	23.867	6.137
%RSD	.5072535	.1553061	.6810611	.3381174	.3453929
#1	1285.756	1685.692	44118.84	7031.240	1771.004
#2	1293.421	1687.412	44666.23	7074.450	1776.480
#3	1280.440	1690.841	44172.09	7070.410	1783.256

Sample Name: PB154504BL Acquired: 07/31/2023 17:17:34 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154504BL Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022022**	**-.000287**	**-.000404**	**-.003036**	**-.002052**	**.0015177**	**-.000898**
Stddev	.0021771	.002344	.001434	.002538	.000535	.0047833	.000075
%RSD	98.86178	815.9556	355.1924	83.59901	26.07355	315.1606	8.372137
#1	.0002801	-.002612	-.001987	-.005731	-.002667	.0014406	-.000937
#2	.0045664	-.000325	.000807	-.002683	-.001693	.0063391	-.000812
#3	.0017601	.002075	-.000031	-.000693	-.001797	-.003227	-.000946

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000012**	**-.000118**	**.0016315**	**-.000046**	**-.000016**	**-.000036**	**.0050121**
Stddev	.000038	.000067	.0020103	.000225	.000153	.001052	.0051297
%RSD	319.3744	57.33016	123.2176	485.7880	987.4820	2890.644	102.3471
#1	-.000027	-.000044	.0032792	-.000054	-.000104	-.001159	.0069118
#2	.000031	-.000133	-.000608	-.000267	.000161	.000928	.0089210
#3	-.000040	-.000176	.002224	.000182	-.000104	.000122	-.000797

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000193**	**-.017791**	**.0000568**	**.0004138**	**-.288357**	**.0018087**	**-.000540**
Stddev	.000364	.019472	.0001861	.0000988	.068590	.0019411	.000291
%RSD	188.1731	109.4458	327.4417	23.87761	23.78659	107.3179	53.90558
#1	-.000488	-.031517	.0002334	.0002997	-.363071	.0003560	-.000215
#2	.000213	-.026351	.0000746	.0004706	-.228241	.0010569	-.000629
#3	-.000305	.004494	-.000138	.0004711	-.273759	.0040132	-.000776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052518**	**-.001743**	**-.001477**	**.0001118**	**-.006756**	**.0036162**	**.0005878**
Stddev	.0133576	.003818	.000819	.0001859	.001192	.0006237	.0012810
%RSD	254.3453	219.0051	55.48135	166.2799	17.65097	17.24608	217.9331
#1	.0054126	-.002587	-.002312	.0001744	-.007446	.0034786	.0019960
#2	-.008186	.002426	-.001445	-.000097	-.005379	.0042971	-.000508
#3	.018528	-.005069	-.000674	.000258	-.007443	.0030728	.000275

Sample Name: PB154504BL Acquired: 07/31/2023 17:17:34 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154504BL Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006225	.0004427	.0000447
Stddev	.0006356	.0012701	.0000782
%RSD	102.1124	286.8687	174.7946
#1	.0004179	.0017414	.0001349
#2	.0013352	-.000797	-.000005
#3	.0001144	.000384	.000004

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1303.484	1724.765	45204.96	7213.933	1814.210
Stddev	7.567	3.979	80.94	11.359	1.281
%RSD	.5805246	.2306877	.1790552	.1574583	.0706289
#1	1310.281	1720.251	45175.69	7215.210	1813.538
#2	1295.330	1726.280	45142.72	7201.990	1815.688
#3	1304.840	1727.763	45296.46	7224.600	1813.405

Sample Name: PB154504BS Acquired: 07/31/2023 17:21:38 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154504BS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8542557**	**2.011490**	**.9904787**	**2.110746**	**.7828609**	**1.962566**
Stddev	.0076738	.013258	.0007940	.009730	.0039334	.001194
%RSD	.8983000	.6591163	.0801667	.4609737	.5024322	.0608218
#1	.8457711	2.021492	.9897749	2.102994	.7873716	1.962053
#2	.8607105	2.016527	.9903216	2.107579	.7801457	1.961714
#3	.8562857	1.996452	.9913395	2.121665	.7810653	1.963930

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2024957**	**.1946537**	**.1993162**	**1.008418**	**.3976627**	**.1930982**
Stddev	.0014518	.0010503	.0004312	.009636	.0006857	.0001356
%RSD	.7169568	.5395790	.2163613	.9556062	.1724296	.0702356
#1	.2012601	.1942345	.1997877	1.008274	.3980843	.1931951
#2	.2021323	.1938778	.1992189	.998854	.3980322	.1931562
#3	.2040946	.1958489	.1989419	1.018125	.3968715	.1929432

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3017588**	**2.992553**	**.2015498**	**1.831127**	**.4854952**	**.0754083**
Stddev	.0017702	.056547	.0027463	.031290	.0005957	.0004502
%RSD	.5866326	1.889606	1.362599	1.708793	.1227042	.5970150
#1	.3026447	2.941578	.1987878	1.827915	.4850045	.0753255
#2	.2997205	2.982701	.2015816	1.863900	.4861580	.0758942
#3	.3029111	3.053379	.2042801	1.801567	.4853232	.0750053

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.707977**	**.3023062**	**.2064943**	**9.817153**	**6.044888**	**.2876372**
Stddev	.231695	.0023470	.0002131	.080212	.006992	.0009601
%RSD	8.556006	.7763554	.1032144	.8170565	.1156720	.3337760
#1	2.611883	.2996523	.2067403	9.725826	6.048531	.2867627
#2	2.972258	.3031582	.2063665	9.876176	6.049307	.2874844
#3	2.539791	.3041082	.2063760	9.849457	6.036826	.2886645

Sample Name: PB154504BS Acquired: 07/31/2023 17:21:38 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: PB154504BS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3960925	F -.020947	.8427514	.6634409	.1969024	.2063811
Stddev	.0004532	.004275	.0049542	.0022424	.0016112	.0020847
%RSD	.1144198	20.40937	.5878599	.3380006	.8182554	1.010130
#1	.3964107	-.025540	.8371327	.6649113	.1951794	.2047001
#2	.3962931	-.017084	.8446299	.6645514	.1971563	.2057294
#3	.3955736	-.020217	.8464916	.6608599	.1983716	.2087138

Elem	Sr4077
Units	ppm
Avg	.1973845
Stddev	.0012953
%RSD	.6562139
#1	.1960767
#2	.1974101
#3	.1986668

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1259.753	1662.608	43657.39	6958.685	1751.563
Stddev	3.592	2.669	114.72	16.233	3.706
%RSD	.2851451	.1605390	.2627642	.2332781	.2115728
#1	1256.032	1659.609	43547.29	6962.770	1748.484
#2	1260.028	1664.721	43648.66	6972.485	1750.530
#3	1263.200	1663.495	43776.22	6940.799	1755.676

Sample Name: O3645-08 Acquired: 07/31/2023 17:25:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000968**	**-.000480**	**.0018987**	**.0021119**	**-.001929**	**.0816327**	**.0009346**
Stddev	.006646	.001117	.0011521	.0036287	.000301	.0036222	.0000394
%RSD	686.9359	232.4514	60.67952	171.8195	15.59830	4.437158	4.211459
#1	-.002189	-.000180	.0030556	.0007880	-.002256	.0786138	.0008983
#2	-.006918	.000455	.0007513	.0062168	-.001866	.0806353	.0009764
#3	.006205	-.001716	.0018893	-.000669	-.001665	.0856491	.0009291

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000092**	**-.000099**	**2.771833**	**.0241528**	**-.000246**	**.0017436**	**1.033953**
Stddev	.000017	.000039	.042483	.0004184	.000190	.0014207	.019370
%RSD	18.44452	39.88991	1.532652	1.732124	77.27639	81.48076	1.873407
#1	-.000107	-.000132	2.723880	.0236933	-.000047	.0029156	1.015672
#2	-.000094	-.000055	2.786853	.0242534	-.000426	.0001635	1.031934
#3	-.000073	-.000109	2.804764	.0245117	-.000265	.0021518	1.054254

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0190952**	**1.108118**	**.0013704**	**.0003070**	**.7920530**	**.0045568**	**.0106047**
Stddev	.0006022	.037553	.0004497	.0002865	.0450665	.0021902	.0002889
%RSD	3.153650	3.388862	32.81287	93.31428	5.689839	48.06434	2.724470
#1	.0188007	1.065775	.0010069	.0003284	.7421482	.0068638	.0102777
#2	.0186968	1.121193	.0012310	.0000104	.8297776	.0043005	.0107110
#3	.0197879	1.137385	.0018732	.0005821	.8042331	.0025060	.0108255

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0361364**	**.1882805**	**.0007461**	**.0076168**	**.0479399**	**.1690753**	**.0011399**
Stddev	.0728484	.0018313	.0008475	.0001240	.0037065	.0031594	.0008907
%RSD	201.5929	.9726674	113.5879	1.627454	7.731673	1.868608	78.14194
#1	-.043068	.1900604	.0000783	.0075401	.0521454	.1658464	.0011462
#2	.051205	.1883793	.0016994	.0075505	.0451491	.1721602	.0020274
#3	.100272	.1864018	.0004606	.0077598	.0465250	.1692192	.0002460

Sample Name: O3645-08 Acquired: 07/31/2023 17:25:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0024717	.0003132	.0020647
Stddev	.0004967	.0007257	.0000232
%RSD	20.09502	231.6993	1.125652
#1	.0028215	.0003212	.0020478
#2	.0019032	.0010349	.0020552
#3	.0026904	-.000416	.0020912

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1261.206	1661.212	44566.42	7157.677	1764.654
Stddev	5.081	1.882	268.60	51.170	1.492
%RSD	.4028720	.1132781	.6026892	.7149002	.0845300
#1	1255.340	1659.352	44327.43	7196.990	1762.932
#2	1264.239	1661.169	44514.73	7176.220	1765.548
#3	1264.040	1663.115	44857.11	7099.820	1765.481

Sample Name: LR CHECK 1 Acquired: 07/31/2023 17:29:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.080909**	**-.061742**	**-.011090**	**.0633388**	**.0398269**	**1862.779**
Stddev	.023316	.006442	.008691	.0358021	.0103092	21.395
%RSD	28.81755	10.43400	78.37267	56.52477	25.88501	1.148576
#1	-.097315	-.058325	-.018347	.0910952	.0508053	1838.112
#2	-.091193	-.069173	-.013464	.0759933	.0303521	1876.304
#3	-.054219	-.057729	-.001458	.0229280	.0383232	1873.921

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0171696**	**.0071818**	**.0195127**	**1739.178**	**-.067811**	**.0232563**
Stddev	.0003104	.0000863	.0001691	13.366	.000781	.0013537
%RSD	1.807776	1.202416	.8668875	.7685262	1.151410	5.820758
#1	.0168116	.0072108	.0193475	1723.779	-.067166	.0244344
#2	.0173630	.0070847	.0196855	1747.769	-.067588	.0217776
#3	.0173343	.0072499	.0195052	1745.987	-.068679	.0235570

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1014178**	**829.6536**	**.0104248**	**1786.986**	**.0184529**	**-.029375**
Stddev	.0030316	6.6878	.0014107	12.930	.0013791	.001788
%RSD	2.989203	.8060904	13.53200	.7235466	7.473652	6.088381
#1	.0987085	822.1537	.0111093	1772.914	.0168700	-.031396
#2	.1046922	831.8097	.0113627	1789.701	.0190937	-.027996
#3	.1008527	834.9973	.0088025	1798.343	.0193951	-.028732

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1669.494**	**.0131277**	**.1980308**	F **896.3733**	**-.032607**	**-.758623**
Stddev	7.946	.0027358	.0040740	2.2577	.009555	.005132
%RSD	.4759778	20.84014	2.057268	.2518657	29.30396	.6764650
#1	1660.332	.0147857	.2003118	893.7711	-.033251	-.760225
#2	1674.524	.0099699	.2004534	897.5392	-.041823	-.762763
#3	1673.624	.0146274	.1933273	897.8097	-.022746	-.752881

Sample Name: LR CHECK 1 Acquired: 07/31/2023 17:29:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009968**	**-.168997**	**-.022872**	**-.004788**	**-.040958**	**-.149495**
Stddev	.001532	.011001	.002199	.002154	.000648	.000543
%RSD	15.37234	6.509619	9.615375	44.98319	1.582913	.3629188
#1	-.010005	-.157264	-.024577	-.004176	-.041238	-.148910
#2	-.008418	-.179080	-.023649	-.007181	-.041420	-.149595
#3	-.011482	-.170646	-.020390	-.003007	-.040217	-.149981

Elem	Sr4077
Units	ppm
Avg	**-.822710**
Stddev	.006706
%RSD	.8150862
#1	-.815184
#2	-.824895
#3	-.828051

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**934.3209**	**1239.837**	**33377.52**	**6082.610**	**1053.004**
Stddev	6.4779	15.963	35.88	11.516	15.240
%RSD	.6933253	1.287535	.1075030	.1893206	1.447323
#1	931.9026	1253.366	33360.23	6095.079	1064.831
#2	929.4000	1222.230	33353.55	6080.375	1035.805
#3	941.6600	1243.914	33418.77	6072.375	1058.376

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-01 Acquired: 07/31/2023 17:33:58 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0464824**	**.0015746**	**.2713211**	**.0025153**	**.0022295**	**35.89275**	**.2764494**
Stddev	.0044895	.0004443	.0022102	.0011256	.0005921	.33484	.0025207
%RSD	9.658460	28.21529	.8146076	44.75137	26.55978	.9328894	.9117968
#1	.0414200	.0015634	.2729931	.0014958	.0025548	35.52586	.2735705
#2	.0480470	.0020243	.2688153	.0023269	.0025877	36.18184	.2782599
#3	.0499802	.0011359	.2721549	.0037233	.0015460	35.97056	.2775178

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045772**	**.0039851**	**23.55328**	**.2340918**	**.0298815**	**.1386314**	**125.0212**
Stddev	.0000399	.0000691	.07330	.0016063	.0003284	.0031632	.9208
%RSD	.8716749	1.733109	.3112272	.6861913	1.099160	2.281737	.7365272
#1	.0045959	.0040526	23.48582	.2327270	.0301682	.1349868	124.0399
#2	.0045315	.0039145	23.63128	.2336865	.0295232	.1402457	125.8664
#3	.0046045	.0039883	23.54275	.2358620	.0299533	.1406618	125.1571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.447792**	**10.30949**	**.1043887**	**-.000682**	**.7007605**	**.2700428**	**.4507933**
Stddev	.014771	.09906	.0006667	.000095	.3672005	.0047192	.0013363
%RSD	1.020248	.9608995	.6386520	13.88318	52.40029	1.747585	.2964334
#1	1.430870	10.33059	.1046176	-.000604	.7740522	.2674105	.4517132
#2	1.458100	10.39630	.1036377	-.000788	1.025788	.2672269	.4492605
#3	1.454406	10.20157	.1049107	-.000654	.302442	.2754911	.4514062

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.131634**	**3.248296**	**-.052726**	**.0064671**	**2.603119**	**8.656476**	**.0083528**
Stddev	.085377	.011046	.002132	.0004924	.003398	.075375	.0010738
%RSD	1.663740	.3400611	4.044332	7.614113	.1305324	.8707301	12.85618
#1	5.106295	3.254574	-.053844	.0060118	2.602580	8.653675	.0094549
#2	5.226812	3.254773	-.054066	.0069897	2.606755	8.733211	.0073096
#3	5.061795	3.235541	-.050267	.0063999	2.600023	8.582540	.0082938

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-01 Acquired: 07/31/2023 17:33:58 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P3A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7528866	.0069358	-.048751
Stddev	.0061850	.0008625	.000086
%RSD	.8215084	12.43492	.1770706
#1	.7461938	.0076169	-.048724
#2	.7583916	.0059660	-.048680
#3	.7540745	.0072243	-.048847

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1374.645	1811.936	47892.11	7762.222	1755.685
Stddev	7.410	3.541	182.41	39.912	5.755
%RSD	.5390222	.1954163	.3808754	.5141830	.3277746
#1	1370.592	1808.296	47756.77	7747.861	1749.813
#2	1383.197	1815.368	48099.55	7731.477	1755.926
#3	1370.146	1812.145	47820.02	7807.327	1761.315

Sample Name: O3810-02 Acquired: 07/31/2023 17:37:54 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P3B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0119239**	**-.005802**	**.1072360**	**-.002407**	**.0050163**	**51.43886**
Stddev	.0048497	.003344	.0024693	.003860	.0009590	.22579
%RSD	40.67211	57.63355	2.302729	160.3696	19.11760	.4389492
#1	.0063283	-.004347	.1087661	.001995	.0060967	51.19087
#2	.0149126	-.003432	.1085547	-.005212	.0046861	51.49314
#3	.0145308	-.009627	.1043873	-.004004	.0042660	51.63256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7270102**	**.0094782**	**.0047427**	**51.87586**	**.1695609**	**.1115507**
Stddev	.0024718	.0000571	.0001307	.30018	.0005744	.0003723
%RSD	.3399964	.6020412	2.756396	.5786474	.3387633	.3337351
#1	.7243250	.0095350	.0048914	51.53084	.1688976	.1118851
#2	.7275151	.0094786	.0046462	52.01952	.1698931	.1111496
#3	.7291907	.0094209	.0046903	52.07721	.1698919	.1116173

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2247441**	**174.1192**	**2.226440**	**29.15407**	**.5391785**	**-.001968**
Stddev	.0006198	1.3437	.013553	.26115	.0012223	.000403
%RSD	.2757892	.7716864	.6087517	.8957515	.2266903	20.48038
#1	.2240894	172.6887	2.210901	28.85367	.5378107	-.002268
#2	.2253219	175.3547	2.232597	29.32697	.5395614	-.002125
#3	.2248211	174.3143	2.235823	29.28158	.5401636	-.001510

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.197602**	**.1900013**	**.4378855**	**11.27282**	**3.874964**	**-.091143**
Stddev	.071763	.0032770	.0014647	.10630	.011288	.000687
%RSD	3.265509	1.724740	.3344989	.9429667	.2913090	.7534704
#1	2.222002	.1872379	.4382531	11.16769	3.884653	-.090357
#2	2.116820	.1891443	.4391313	11.27051	3.877672	-.091444
#3	2.253983	.1936217	.4362719	11.38025	3.862569	-.091628

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-02 Acquired: 07/31/2023 17:37:54 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P3B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002543	.1813629	F 11.74748	.0042118	1.669348	.0863338
Stddev	.0006548	.0037321	.02202	.0013386	.012272	.0002887
%RSD	257.5118	2.057830	.1874395	31.78069	.7351429	.3343601
#1	-.000164	.1775020	11.75082	.0055898	1.655227	.0861242
#2	-.000082	.1849513	11.76763	.0041292	1.675381	.0862142
#3	.001009	.1816353	11.72398	.0029165	1.677436	.0866631

Elem	Sr4077
Units	ppm
Avg	-.092396
Stddev	.001182
%RSD	1.279550
#1	-.091295
#2	-.093646
#3	-.092246

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1460.493	1932.355	51255.61	8326.735	1650.353
Stddev	4.920	5.480	50.49	20.263	4.917
%RSD	.3368949	.2836049	.0985047	.2433494	.2979498
#1	1459.468	1928.373	51280.23	8321.167	1646.264
#2	1456.165	1938.605	51289.06	8309.838	1655.809
#3	1465.845	1930.086	51197.53	8349.200	1648.987

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-03 Acquired: 07/31/2023 17:41:50 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P16A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0736166**	**-.030272**	**.6774145**	**-.021487**	**.0175905**	**52.50427**
Stddev	.0084146	.001702	.0054570	.007599	.0003445	.38107
%RSD	11.43035	5.623556	.8055680	35.36569	1.958172	.7257862
#1	.0639003	-.029137	.6835018	-.025964	.0173903	52.14144
#2	.0784348	-.029448	.6757808	-.025783	.0179883	52.47009
#3	.0785147	-.032229	.6729609	-.012713	.0173930	52.90127

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.065791**	**.0096781**	**.0150798**	**24.30004**	**.3274103**	**.1635546**
Stddev	.008109	.0001079	.0001182	.21358	.0012196	.0001314
%RSD	.7608178	1.115142	.7834766	.8789271	.3725114	.0803454
#1	1.057805	.0095939	.0151990	24.06784	.3285264	.1634029
#2	1.065552	.0097997	.0150777	24.34417	.3261084	.1636265
#3	1.074017	.0096406	.0149627	24.48810	.3275960	.1636343

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4075998**	**513.6243**	**6.626512**	**17.49297**	**.5722957**	**-.006354**
Stddev	.0061154	1.3146	.055041	.04953	.0024142	.000227
%RSD	1.500340	.2559399	.8306243	.2831271	.4218371	3.574571
#1	.4006890	512.1272	6.564705	17.46758	.5750739	-.006318
#2	.4097990	514.1562	6.644591	17.46130	.5707081	-.006597
#3	.4123115	514.5896	6.670240	17.55005	.5711050	-.006148

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.417915**	**.3131471**	**.8215325**	**6.708781**	**9.107845**	**-.310356**
Stddev	.177859	.0044085	.0024522	.057475	.035048	.002888
%RSD	12.54367	1.407815	.2984942	.8567177	.3848129	.9305239
#1	1.517164	.3131682	.8241724	6.643151	9.145314	-.313490
#2	1.212580	.3087280	.8193256	6.733057	9.075865	-.309777
#3	1.524002	.3175451	.8210995	6.750136	9.102357	-.307802

Sample Name: O3810-03 Acquired: 07/31/2023 17:41:50 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P16A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051821	2.357822	F 13.48457	.0223636	1.113853	-.035034
Stddev	.0005107	.018286	.03649	.0016849	.007936	.000999
%RSD	9.854406	.7755672	.2706192	7.533956	.7124591	2.850683
#1	.0057716	2.378916	13.46136	.0204219	1.109856	-.035561
#2	.0048762	2.346454	13.46573	.0234398	1.108711	-.035659
#3	.0048985	2.348096	13.52664	.0232291	1.122993	-.033882

Elem	Sr4077
Units	ppm
Avg	-.388667
Stddev	.000717
%RSD	.1845463
#1	-.387847
#2	-.389178
#3	-.388975

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1379.956	1825.699	48511.97	7899.609	1673.978
Stddev	8.747	4.520	179.47	7.639	4.437
%RSD	.6338968	.2475986	.3699558	.0967064	.2650412
#1	1370.134	1820.647	48327.13	7907.924	1668.914
#2	1382.828	1829.363	48523.25	7892.900	1675.837
#3	1386.907	1827.086	48685.54	7898.004	1677.183

Sample Name: O3810-04 Acquired: 07/31/2023 17:45:45 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P16B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0872326**	**.0035656**	**.9596049**	**.0000332**	**.0047584**	**108.6666**
Stddev	.0052409	.0020034	.0064400	.0004504	.0007159	.5485
%RSD	6.007941	56.18767	.6711094	1355.170	15.04445	.5047788
#1	.0843436	.0044474	.9670400	.0000597	.0051012	108.1853
#2	.0840720	.0049770	.9560028	-.000430	.0039356	108.5507
#3	.0932822	.0012725	.9557719	.000470	.0052384	109.2638

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.120313**	**.0080787**	**.0082731**	**33.02151**	**.2841049**	**.1404971**
Stddev	.007824	.0000737	.0001101	.28570	.0022734	.0002534
%RSD	.6983834	.9116418	1.330254	.8652047	.8001915	.1803466
#1	1.112231	.0081138	.0082157	32.72973	.2867245	.1402047
#2	1.120856	.0079941	.0084000	33.03406	.2829428	.1406350
#3	1.127851	.0081283	.0082036	33.30072	.2826476	.1406516

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8187690**	**219.9086**	**3.549307**	**35.60598**	**.8303616**	**-.000198**
Stddev	.0012559	1.4170	.022918	.33965	.0035050	.000827
%RSD	.1533894	.6443652	.6457156	.9539176	.4221043	418.2945
#1	.8182268	218.4272	3.527572	35.25683	.8341200	-.001151
#2	.8178753	220.0475	3.547100	35.62584	.8297829	.000229
#3	.8202049	221.2510	3.573249	35.93527	.8271821	.000329

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.642221**	**.4413942**	**.8971474**	**9.422895**	**6.491325**	**-.113064**
Stddev	.090098	.0056438	.0114640	.102312	.014246	.002330
%RSD	3.409939	1.278626	1.277828	1.085785	.2194595	2.060510
#1	2.539327	.4349303	.9096495	9.494390	6.500978	-.115546
#2	2.706981	.4453446	.8946639	9.305697	6.498034	-.110925
#3	2.680356	.4439076	.8871286	9.468598	6.474964	-.112720

Sample Name: O3810-04 Acquired: 07/31/2023 17:45:45 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P16B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065127	4.335130	F 16.21325	.0384697	2.863611	.1107543
Stddev	.0002063	.017375	.06870	.0045105	.018805	.0015758
%RSD	3.167277	.4008069	.4237001	11.72471	.6566971	1.422813
#1	.0064562	4.352056	16.27136	.0367650	2.844297	.1090831
#2	.0067413	4.335995	16.13744	.0435841	2.864674	.1109665
#3	.0063405	4.317338	16.23095	.0350601	2.881863	.1122132

Elem	Sr4077
Units	ppm
Avg	-.062841
Stddev	.001101
%RSD	1.752752
#1	-.061585
#2	-.063293
#3	-.063644

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1449.457	1916.912	50789.92	8322.412	1669.215
Stddev	11.180	9.437	186.42	19.231	5.098
%RSD	.7712983	.4923263	.3670452	.2310721	.3054042
#1	1439.581	1906.353	50581.56	8324.671	1663.941
#2	1447.196	1919.861	50847.31	8340.413	1669.587
#3	1461.594	1924.523	50940.91	8302.151	1674.117

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-05 Acquired: 07/31/2023 17:49:41 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0428768**	**-.003210**	**1.218187**	**-.001501**	**.0032543**	**70.58006**
Stddev	.0060477	.003395	.005210	.002192	.0026512	.44979
%RSD	14.10476	105.7521	.4277162	146.0516	81.46852	.6372756
#1	.0395148	-.006534	1.213034	.000439	.0049020	70.06820
#2	.0392572	-.003348	1.223453	-.001063	.0046648	70.91220
#3	.0498585	.000251	1.218073	-.003879	.0001960	70.75978

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7466236**	**.0074099**	**.0077720**	**64.68273**	**.3802820**	**.1214615**
Stddev	.0042087	.0000755	.0002334	.49651	.0010840	.0007507
%RSD	.5636948	1.019159	3.003582	.7676052	.2850449	.6180506
#1	.7418250	.0074428	.0079390	64.11235	.3815325	.1220675
#2	.7496884	.0074635	.0078716	65.01809	.3797042	.1216953
#3	.7483576	.0073236	.0075052	64.91775	.3796094	.1206217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4595139**	**183.1706**	**3.760042**	**56.70770**	**.4848376**	**.0000181**
Stddev	.0031619	1.6961	.019162	.60301	.0000653	.0004202
%RSD	.6880986	.9259727	.5096134	1.063360	.0134629	2322.286
#1	.4563584	181.2214	3.738215	56.01466	.4848107	-.000384
#2	.4626822	183.9803	3.774094	56.99605	.4849120	-.000016
#3	.4595012	184.3102	3.767818	57.11240	.4847900	.000454

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.281925**	**.2480071**	**.9536751**	**8.595668**	**4.438245**	**-.090262**
Stddev	.099572	.0041153	.0068172	.019444	.014587	.002468
%RSD	7.767418	1.659335	.7148321	.2262061	.3286636	2.733980
#1	1.396584	.2432942	.9501732	8.616564	4.448286	-.092182
#2	1.231991	.2498372	.9615314	8.592333	4.444936	-.091126
#3	1.217200	.2508899	.9493206	8.578108	4.421513	-.087479

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-05 Acquired: 07/31/2023 17:49:41 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P7A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034224	2.166940	F 14.63198	.0343499	1.718165	.0854770
Stddev	.0004187	.011019	.07689	.0013135	.013358	.0008217
%RSD	12.23346	.5085260	.5254876	3.823988	.7774733	.9612805
#1	.0039058	2.169713	14.60563	.0344691	1.702923	.0848094
#2	.0031869	2.154799	14.71858	.0355999	1.723731	.0863947
#3	.0031745	2.176308	14.57173	.0329809	1.727840	.0852270

Elem	Sr4077
Units	ppm
Avg	-.092047
Stddev	.001315
%RSD	1.429065
#1	-.090655
#2	-.092218
#3	-.093270

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1412.447	1868.420	49623.90	8171.334	1642.077
Stddev	5.704	2.137	125.31	34.778	4.059
%RSD	.4038635	.1143939	.2525232	.4256091	.2471883
#1	1415.278	1867.068	49482.24	8157.728	1638.172
#2	1405.881	1870.884	49669.17	8145.416	1641.784
#3	1416.182	1867.308	49720.29	8210.858	1646.274

Sample Name: O3810-06 Acquired: 07/31/2023 17:53:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P7B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0357807**	**.0013412**	**.1060591**	**-.000271**	**.0022524**	**54.68095**
Stddev	.0077648	.0011217	.0010326	.014414	.0032558	.20819
%RSD	21.70105	83.63277	.9735796	5321.408	144.5472	.3807379
#1	.0444865	.0025893	.1049376	.016373	.0026446	54.44215
#2	.0332852	.0004173	.1069704	-.008701	.0052943	54.82436
#3	.0295705	.0010170	.1062693	-.008484	-.001182	54.77633

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2841624**	**.0054283**	**.0033461**	**12.49937**	**.1209684**	**.0708328**
Stddev	.0015371	.0001599	.0001564	.06423	.0002977	.0002359
%RSD	.5409302	2.944855	4.674577	.5138673	.2460555	.3330693
#1	.2824486	.0055826	.0034029	12.42524	.1211869	.0710494
#2	.2854190	.0054391	.0034662	12.53425	.1210889	.0708675
#3	.2846198	.0052634	.0031692	12.53861	.1206294	.0705814

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3065516**	**117.3488**	**1.758352**	**14.68287**	**.1991643**	**-.000544**
Stddev	.0037038	.6252	.009658	.11163	.0005768	.000103
%RSD	1.208199	.5327322	.5492819	.7602560	.2896089	18.99852
#1	.3031105	116.6271	1.747314	14.55432	.1989346	-.000647
#2	.3060729	117.7205	1.765255	14.75538	.1987377	-.000441
#3	.3104715	117.6989	1.762485	14.73889	.1998206	-.000544

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.061459**	**.2636273**	**.3505292**	**4.596338**	**4.860764**	**-.042185**
Stddev	.104345	.0015457	.0023859	.013471	.010456	.003302
%RSD	3.408335	.5863131	.6806578	.2930877	.2151007	7.828247
#1	3.050924	.2618452	.3518092	4.596755	4.870522	-.045385
#2	2.962782	.2644335	.3520020	4.609595	4.849728	-.042382
#3	3.170672	.2646032	.3477765	4.582662	4.862041	-.038789

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-06 Acquired: 07/31/2023 17:53:37 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P7B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091576	F 11.25351	F 11.84977	.0075605	1.186653	.1022103
Stddev	.0005024	.01020	.11808	.0006674	.004441	.0009625
%RSD	5.486193	.0906074	.9964746	8.827389	.3742630	.9417231
#1	.0085810	11.25524	11.89697	.0083182	1.182688	.1013130
#2	.0093903	11.24256	11.93696	.0073038	1.185819	.1032269
#3	.0095015	11.26274	11.71540	.0070597	1.191452	.1020909

Elem	Sr4077
Units	ppm
Avg	-.043652
Stddev	.000469
%RSD	1.075484
#1	-.043120
#2	-.043827
#3	-.044008

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1403.573	1852.866	48954.17	7907.206	1735.564
Stddev	10.168	5.253	232.17	66.286	4.104
%RSD	.7244476	.2834931	.4742671	.8382973	.2364381
#1	1392.103	1847.594	48802.65	7844.151	1732.059
#2	1411.479	1852.906	49221.46	7901.158	1734.555
#3	1407.137	1858.099	48838.39	7976.308	1740.078

Sample Name: CCV04 Acquired: 07/31/2023 17:57:35 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.984565**	**4.930862**	**4.776324**	**4.980903**	**4.829942**	**9.654556**	**9.995162**
Stddev	.014720	.023748	.011025	.022531	.014822	.119724	.118975
%RSD	.2953029	.4816227	.2308177	.4523482	.3068873	1.240077	1.190323
#1	4.976301	4.957243	4.769695	4.955924	4.815825	9.524252	9.858358
#2	5.001560	4.911190	4.770227	4.987089	4.828619	9.759702	10.07445
#3	4.975835	4.924152	4.789051	4.999694	4.845382	9.679715	10.05268

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2310307**	**2.356797**	**23.66077**	**.9551186**	**2.377998**	**1.186908**	**4.694908**
Stddev	.0013281	.004013	.28271	.0015871	.005367	.012278	.028234
%RSD	.5748390	.1702713	1.194862	.1661717	.2256881	1.034433	.6013656
#1	.2298238	2.357537	23.33695	.9569509	2.377062	1.173824	4.716323
#2	.2324534	2.352466	23.85853	.9542350	2.373161	1.198177	4.705489
#3	.2308149	2.360389	23.78681	.9541699	2.383772	1.188724	4.662913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.400167**	**22.73144**	**2.373714**	**1.226652**	**23.13138**	**2.373844**	**2.452993**
Stddev	.026588	.15670	.005077	.000641	.36407	.033988	.008082
%RSD	1.107751	.6893510	.2138900	.0522301	1.573916	1.431752	.3294545
#1	2.369483	22.55214	2.370212	1.227094	23.15261	2.339845	2.460566
#2	2.416382	22.84215	2.371393	1.226944	23.48436	2.407820	2.444484
#3	2.414637	22.80002	2.379536	1.225917	22.75716	2.373868	2.453930

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.01782**	**5.133737**	**4.671836**	**4.805611**	**4.931724**	**4.713626**	**4.643255**
Stddev	.16163	.012484	.023769	.011683	.011562	.041049	.016431
%RSD	.6729441	.2431765	.5087667	.2431068	.2344380	.8708562	.3538661
#1	23.84242	5.135340	4.652429	4.794565	4.941585	4.674076	4.642561
#2	24.16073	5.120528	4.698347	4.804427	4.918999	4.756025	4.627182
#3	24.05032	5.145341	4.664733	4.817841	4.934588	4.710776	4.660022

Sample Name: CCV04 Acquired: 07/31/2023 17:57:35 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.736524**	**4.910372**	**4.812678**
Stddev	.035323	.044268	.073582
%RSD	.7457581	.9015231	1.528923
#1	4.700964	4.859268	4.728509
#2	4.771605	4.936877	4.844715
#3	4.737002	4.934973	4.864811

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1256.640**	**1658.144**	**43714.45**	**7121.687**	**1686.130**
Stddev	6.327	1.332	136.81	21.401	4.015
%RSD	.5034564	.0803498	.3129740	.3005002	.2381215
#1	1250.819	1658.257	43556.93	7136.005	1682.660
#2	1263.373	1659.416	43803.69	7097.086	1690.528
#3	1255.729	1656.758	43782.71	7131.971	1685.201

Sample Name: CCB04 Acquired: 07/31/2023 18:01:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.000120**	**.0009748**	**-.000093**	**.0025987**	**-.001814**	**.0083720**	**-.000746**
Stddev	.007390	.0007073	.001572	.0033886	.001751	.0032675	.000092
%RSD	6160.895	72.55810	1686.155	130.3990	96.53925	39.02864	12.26050
#1	-.008615	.0004376	-.000080	.0051752	-.001949	.0082608	-.000794
#2	.004823	.0017762	-.001673	.0038607	.000001	.0051616	-.000641
#3	.003432	.0007106	.001472	-.001240	-.003494	.0116937	-.000805

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000364**	**-.000044**	**.0074585**	**-.000098**	**.0000636**	**.0024902**	**.0001380**
Stddev	.0000598	.000102	.0054738	.000430	.0002053	.0014159	.0067591
%RSD	164.3974	232.5734	73.39069	439.4191	322.7522	56.85955	4898.266
#1	-.000032	-.000158	.0069567	.000398	.0000737	.0026581	-.007612
#2	.000077	-.000009	.0022528	-.000332	.0002637	.0038146	.003214
#3	.000065	.000036	.0131660	-.000360	-.000147	.0009978	.004812

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002328**	**-.022301**	**.0001788**	**.0006629**	**-.189395**	**.0020200**	**-.000367**
Stddev	.0002216	.023164	.0000480	.0001911	.183292	.0006646	.000247
%RSD	95.20410	103.8738	26.85085	28.83145	96.77737	32.90335	67.28784
#1	.0003544	-.000783	.0002163	.0007417	-.203441	.0017533	-.000644
#2	.0003670	-.019299	.0001247	.0008021	-.365260	.0015300	-.000286
#3	-.000023	-.046819	.0001953	.0004450	.000515	.0027765	-.000171

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0625883**	**-.001410**	**.0039731**	**.0005734**	**-.004822**	**.0048260**	**.0007963**
Stddev	.0947340	.002195	.0005968	.0005162	.000612	.0020265	.0018576
%RSD	151.3605	155.7031	15.01971	90.02269	12.69768	41.99117	233.2895
#1	.0151885	.000951	.0036683	.0009442	-.004255	.0067422	-.001340
#2	.0009098	-.001791	.0035904	.0007922	-.005471	.0050310	.002033
#3	.1716667	-.003390	.0046608	-.000016	-.004741	.0027048	.001695

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: CCB04 Acquired: 07/31/2023 18:01:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003225	.0012088	.0000464
Stddev	.0011771	.0010768	.0000961
%RSD	364.9846	89.08641	207.4142
#1	.0013901	.0009237	.0001378
#2	.0005172	.0023995	-.000054
#3	-.000940	.0003031	.000055

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1298.424	1714.785	44746.54	7144.980	1800.169
Stddev	7.802	4.737	99.29	30.186	4.944
%RSD	.6009165	.2762302	.2218902	.4224727	.2746360
#1	1289.459	1712.292	44636.42	7143.860	1796.657
#2	1302.130	1720.247	44829.24	7115.370	1805.823
#3	1303.683	1711.815	44773.94	7175.710	1798.027

Sample Name: O3810-07 Acquired: 07/31/2023 18:05:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P15B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0939527**	**-.019597**	**.3240707**	**-.010733**	**.0112833**	**158.1577**
Stddev	.0033229	.005344	.0040556	.007939	.0014559	1.1998
%RSD	3.536829	27.26945	1.251450	73.96073	12.90312	.7586390
#1	.0977811	-.022803	.3253404	-.019224	.0129630	156.7864
#2	.0922615	-.022560	.3195322	-.009480	.0103848	158.6722
#3	.0918155	-.013428	.3273395	-.003496	.0105020	159.0145

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6960156**	**.0146754**	**.0115808**	**13.96952**	**.4327629**	**.3493133**
Stddev	.0036642	.0001036	.0002166	.07530	.0006814	.0006434
%RSD	.5264505	.7057885	1.869930	.5390229	.1574562	.1841859
#1	.6918650	.0145567	.0118292	13.92066	.4322909	.3497495
#2	.6988017	.0147223	.0114811	14.05624	.4324538	.3485744
#3	.6973803	.0147472	.0114320	13.93167	.4335441	.3496159

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3318113**	**444.0290**	**5.364773**	**30.86632**	**.6132167**	**-.006276**
Stddev	.0043500	4.3743	.031622	.30725	.0006609	.000589
%RSD	1.310989	.9851464	.5894388	.9954168	.1077750	9.386415
#1	.3278207	439.0514	5.328285	30.51154	.6139654	-.006956
#2	.3311648	445.7750	5.384189	31.04570	.6129704	-.005968
#3	.3364484	447.2608	5.381847	31.04170	.6127143	-.005905

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.397982**	**.5407796**	**.4195728**	**6.609184**	**3.646671**	**-.268464**
Stddev	.135310	.0017519	.0016552	.071389	.010100	.011661
%RSD	5.642646	.3239552	.3944930	1.080152	.2769631	4.343481
#1	2.314334	.5387905	.4180136	6.530718	3.638314	-.280864
#2	2.554090	.5414548	.4213096	6.670297	3.657894	-.266809
#3	2.325521	.5420934	.4193952	6.626537	3.643804	-.257719

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-07 Acquired: 07/31/2023 18:05:36 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P15B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050822	.5694837	F 13.80403	.0127389	2.055051	.0876467
Stddev	.0005500	.0101771	.02687	.0027402	.016963	.0011495
%RSD	10.82311	1.787082	.1946766	21.51065	.8254124	1.311453
#1	.0053907	.5799215	13.79535	.0105739	2.036558	.0865501
#2	.0044471	.5595890	13.83416	.0158198	2.058709	.0875474
#3	.0054087	.5689407	13.78256	.0118231	2.069886	.0888426

Elem	Sr4077
Units	ppm
Avg	-.365131
Stddev	.003820
%RSD	1.046176
#1	-.360768
#2	-.366752
#3	-.367874

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1489.841	1970.178	52183.99	8478.746	1644.224
Stddev	.598	7.353	94.07	21.114	4.416
%RSD	.0401093	.3732045	.1802705	.2490242	.2685781
#1	1489.333	1961.692	52096.11	8464.113	1639.511
#2	1489.690	1974.207	52283.22	8469.175	1644.894
#3	1490.499	1974.637	52172.64	8502.951	1648.267

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-08 Acquired: 07/31/2023 18:09:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0850738**	**-.009550**	**.1600862**	**-.015793**	**.0140245**	**48.51782**
Stddev	.0124777	.002089	.0020315	.003393	.0000935	.21753
%RSD	14.66689	21.88033	1.269012	21.48422	.6665476	.4483596
#1	.0888064	-.008910	.1579807	-.016842	.0141143	48.61433
#2	.0711558	-.007855	.1602432	-.012000	.0139278	48.67040
#3	.0952591	-.011884	.1620347	-.018538	.0140312	48.26873

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2513165**	**.0123166**	**.0110589**	**27.48876**	**.6136187**	**.0360473**
Stddev	.0009327	.0002315	.0001524	.01612	.0018917	.0002995
%RSD	.3711125	1.879832	1.377800	.0586455	.3082901	.8309540
#1	.2523194	.0125750	.0109489	27.50737	.6118480	.0362513
#2	.2511549	.0122470	.0109951	27.47977	.6133962	.0357034
#3	.2504751	.0121279	.0112328	27.47913	.6156118	.0361871

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1163633**	**433.0284**	**1.215001**	**7.522079**	**.1092941**	**-.004383**
Stddev	.0028613	1.4339	.002658	.033888	.0001810	.000444
%RSD	2.458950	.3311395	.2187995	.4505100	.1655891	10.13339
#1	.1196670	431.3750	1.212928	7.500217	.1092742	-.004886
#2	.1146789	433.7786	1.214076	7.561116	.1091239	-.004221
#3	.1147439	433.9316	1.217998	7.504906	.1094842	-.004044

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.093595**	**.8266099**	**.7626189**	**6.681436**	**9.616697**	**-.207176**
Stddev	.143948	.0006947	.0010866	.024012	.035282	.005248
%RSD	13.16281	.0840415	.1424866	.3593846	.3668828	2.532941
#1	1.251624	.8274022	.7623893	6.685626	9.650355	-.207376
#2	.969958	.8263221	.7638019	6.655605	9.579989	-.201831
#3	1.059203	.8261054	.7616653	6.703078	9.619747	-.212320

Sample Name: O3810-08 Acquired: 07/31/2023 18:09:30 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0144122	2.576017	F 13.79794	.0111517	1.429089	-.054434
Stddev	.0004488	.010381	.16421	.0018107	.007990	.000525
%RSD	3.113887	.4029699	1.190122	16.23689	.5590834	.9644538
#1	.0149221	2.569883	13.97190	.0131527	1.426176	-.053963
#2	.0140772	2.570167	13.64562	.0106765	1.438127	-.055000
#3	.0142373	2.588003	13.77631	.0096261	1.422965	-.054339

Elem	Sr4077
Units	ppm
Avg	-.322398
Stddev	.001840
%RSD	.5706360
#1	-.320332
#2	-.323004
#3	-.323859

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1319.009	1741.213	46401.36	7515.372	1638.606
Stddev	6.741	1.615	234.77	38.471	1.607
%RSD	.5110543	.0927543	.5059557	.5119012	.0980785
#1	1324.392	1739.758	46671.12	7471.360	1638.362
#2	1311.449	1740.931	46289.70	7542.596	1640.321
#3	1321.188	1742.951	46243.26	7532.161	1637.135

Sample Name: O3810-09 Acquired: 07/31/2023 18:13:26 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0580246**	**-.004093**	**.1248044**	**-.001849**	**.0034840**	**76.37342**
Stddev	.0060698	.005526	.0022090	.019221	.0023855	.67441
%RSD	10.46070	135.0038	1.769978	1039.689	68.47172	.8830459
#1	.0649568	-.010297	.1256349	.004834	.0021501	75.60132
#2	.0536637	-.002284	.1264778	.013139	.0020637	76.67154
#3	.0554532	.000302	.1223005	-.023520	.0062381	76.84740

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.298315**	**.0096626**	**.0057147**	**127.0062**	**.1972420**	**.1401170**
Stddev	.009495	.0000679	.0001581	1.0807	.0027632	.0006022
%RSD	.7312996	.7032587	2.766182	.8509080	1.400925	.4297571
#1	1.287540	.0097159	.0058966	125.7655	.1941172	.1399431
#2	1.301950	.0095861	.0056104	127.5103	.1982457	.1396209
#3	1.305454	.0096857	.0056371	127.7427	.1993630	.1407869

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1630761**	**197.9990**	**4.069013**	**55.56622**	**.6241395**	**-.002547**
Stddev	.0008629	1.3781	.033276	.46027	.0011440	.000308
%RSD	.5291551	.6960137	.8177992	.8283259	.1832989	12.09015
#1	.1620857	196.4547	4.030601	55.04595	.6229761	-.002739
#2	.1634760	198.4390	4.089053	55.73235	.6241791	-.002192
#3	.1636664	199.1035	4.087385	55.92036	.6252631	-.002711

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.121507**	**.2244565**	**.5056273**	**18.01160**	**8.511313**	**-.088654**
Stddev	.056047	.0013168	.0092635	.19784	.025951	.003743
%RSD	1.359871	.5866754	1.832086	1.098381	.3048995	4.222476
#1	4.159658	.2237878	.4950688	17.80859	8.500687	-.088962
#2	4.057158	.2236083	.5123904	18.20382	8.492360	-.092235
#3	4.147705	.2259735	.5094226	18.02240	8.540890	-.084767

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-09 Acquired: 07/31/2023 18:13:26 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000359	.6755821	F 15.34864	.0027295	1.922346	.2026075
Stddev	.000179	.0053113	.04265	.0014877	.011528	.0022861
%RSD	49.72209	.7861868	.2778837	54.50703	.5997024	1.128322
#1	-.000439	.6769137	15.36781	.0039528	1.909067	.2000390
#2	-.000155	.6801010	15.37834	.0010733	1.928173	.2044191
#3	-.000484	.6697317	15.29977	.0031623	1.929797	.2033645

Elem	Sr4077
Units	ppm
Avg	.0101489
Stddev	.0008489
%RSD	8.364599
#1	.0098500
#2	.0111068
#3	.0094898

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1503.378	1983.686	53005.69	8631.332	1634.069
Stddev	26.905	5.696	684.32	30.421	4.330
%RSD	1.789656	.2871618	1.291034	.3524505	.2649644
#1	1532.174	1978.850	53772.48	8633.778	1629.100
#2	1478.880	1989.965	52456.99	8599.761	1636.079
#3	1499.081	1982.242	52787.60	8660.455	1637.028

Sample Name: O3810-09DUP Acquired: 07/31/2023 18:17:19 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BDUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0518344**	**-.008432**	**.1289909**	**-.005163**	**.0009629**	**77.67424**
Stddev	.0063641	.001952	.0015425	.004020	.0012434	.52380
%RSD	12.27773	23.14873	1.195848	77.85934	129.1369	.6743492
#1	.0475694	-.010291	.1289483	-.001674	-.000347	77.58854
#2	.0487843	-.006399	.1305542	-.004256	.001110	78.23560
#3	.0591495	-.008605	.1274700	-.009560	.002126	77.19858

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.293190**	**.0096843**	**.0059835**	**129.4880**	**.2001317**	**.1418243**
Stddev	.005180	.0000833	.0000714	.6329	.0007551	.0005249
%RSD	.4005499	.8604011	1.193607	.4887713	.3772890	.3701347
#1	1.290135	.0097783	.0060394	128.8202	.1992781	.1416018
#2	1.299171	.0096195	.0060080	130.0790	.2007123	.1414474
#3	1.290265	.0096551	.0059030	129.5648	.2004047	.1424239

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1642587**	**202.4755**	**4.142711**	**56.29352**	**.6319466**	**-.002971**
Stddev	.0071827	1.0647	.017389	.37505	.0015525	.000287
%RSD	4.372819	.5258623	.4197590	.6662316	.2456728	9.667741
#1	.1668862	201.5778	4.126726	55.88315	.6337162	-.002834
#2	.1697578	203.6519	4.161227	56.61852	.6313100	-.002778
#3	.1561322	202.1969	4.140181	56.37890	.6308135	-.003301

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.272787**	**.2282077**	**.5118656**	**18.18585**	**8.560547**	**-.089465**
Stddev	.128872	.0021163	.0013331	.11002	.021992	.004390
%RSD	3.016106	.9273461	.2604383	.6049567	.2569047	4.906705
#1	4.124600	.2295760	.5133010	18.14649	8.541314	-.094527
#2	4.335115	.2292769	.5116294	18.31013	8.555801	-.086707
#3	4.358646	.2257701	.5106664	18.10092	8.584524	-.087160

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-09DUP Acquired: 07/31/2023 18:17:19 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BDUP Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000005	.6709574	F 15.67105	.0023489	1.949472	.2036677
Stddev	.000549	.0136537	.08672	.0020057	.014518	.0005684
%RSD	10579.93	2.034961	.5533638	85.38948	.7447377	.2790717
#1	-.000199	.6792840	15.76810	.0002711	1.941836	.2030756
#2	-.000430	.6783884	15.64386	.0042738	1.966215	.2042090
#3	.000614	.6552000	15.60118	.0025018	1.940366	.2037185

Elem	Sr4077
Units	ppm
Avg	.0085357
Stddev	.0017640
%RSD	20.66624
#1	.0098776
#2	.0091919
#3	.0065376

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1485.218	1965.132	52270.86	8497.864	1616.232
Stddev	9.579	2.978	130.52	48.851	2.461
%RSD	.6449591	.1515496	.2497075	.5748641	.1522806
#1	1475.708	1962.095	52405.21	8448.933	1614.171
#2	1485.082	1968.048	52144.54	8498.025	1618.958
#3	1494.864	1965.255	52262.83	8546.635	1615.568

Sample Name: O3810-09LX5 Acquired: 07/31/2023 18:21:13 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110194**	**-.002793**	**.0246429**	**-.000787**	**-.000805**	**18.07833**	**.3221648**
Stddev	.0073026	.001338	.0021810	.003886	.000240	.15873	.0017579
%RSD	66.27049	47.90567	8.850571	493.8812	29.86445	.8780351	.5456477
#1	.0034755	-.001318	.0263259	-.003224	-.000599	17.95393	.3206768
#2	.0180540	-.003134	.0221789	-.002832	-.000747	18.02396	.3217131
#3	.0115288	-.003929	.0254240	.003695	-.001069	18.25711	.3241044

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024037**	**.0007010**	**30.01233**	**.0477564**	**.0272942**	**.0400388**	**48.43034**
Stddev	.0000788	.0000425	.17292	.0004501	.0006064	.0015999	.24557
%RSD	3.277674	6.056087	.5761526	.9424847	2.221731	3.995885	.5070665
#1	.0023922	.0007070	29.82081	.0472812	.0266027	.0382110	48.15141
#2	.0024877	.0007401	30.05917	.0481762	.0277353	.0407198	48.52562
#3	.0023314	.0006559	30.15699	.0478119	.0275447	.0411855	48.61400

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9837750**	**13.37636**	**.1281807**	**-.000319**	**.9459136**	**.0548425**	**.1242431**
Stddev	.0060334	.07296	.0004945	.000064	.2294352	.0030098	.0024387
%RSD	.6132933	.5454294	.3857953	20.05876	24.25540	5.488030	1.962840
#1	.9787347	13.30616	.1287072	-.000245	.9875569	.0558593	.1230458
#2	.9821300	13.37113	.1277261	-.000361	1.151675	.0572122	.1226345
#3	.9904603	13.45179	.1281090	-.000351	.698509	.0514560	.1270491

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.277235**	**1.727482**	**-.022870**	**-.000388**	**.1252717**	**3.723117**	**-.000405**
Stddev	.016824	.000879	.000518	.000470	.0080091	.026607	.001106
%RSD	.3933286	.0508839	2.266432	120.9999	6.393379	.7146325	272.9734
#1	4.262856	1.728462	-.023421	-.000371	.1344011	3.729648	-.000957
#2	4.273112	1.727220	-.022798	.000073	.1219863	3.745849	.000868
#3	4.295736	1.726763	-.022392	-.000866	.1194278	3.693853	-.001127

Sample Name: O3810-09LX5 Acquired: 07/31/2023 18:21:13 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4645102	.0487286	.0018855
Stddev	.0035422	.0004658	.0001620
%RSD	.7625698	.9559661	8.591978
#1	.4623659	.0484669	.0020269
#2	.4625659	.0484524	.0017088
#3	.4685988	.0492664	.0019209

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1316.886	1729.821	45630.35	7331.913	1721.899
Stddev	7.516	4.598	91.66	38.515	2.516
%RSD	.5707754	.2657799	.2008742	.5253036	.1460941
#1	1321.390	1733.332	45736.16	7329.391	1723.633
#2	1321.058	1731.513	45575.13	7294.721	1723.050
#3	1308.209	1724.617	45579.78	7371.627	1719.014

Sample Name: O3810-09MS Acquired: 07/31/2023 18:25:12 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BMS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6972252**	**1.753663**	**1.033832**	**1.394490**	**.5598240**	**76.71548**
Stddev	.0122462	.005270	.001599	.009771	.0019264	.27737
%RSD	1.756420	.3004996	.1546978	.7006790	.3441015	.3615529
#1	.6832272	1.753388	1.035442	1.405746	.5618356	76.51069
#2	.7059594	1.748536	1.033812	1.389529	.5579960	77.03113
#3	.7024891	1.759064	1.032243	1.388195	.5596403	76.60462

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6756695**	**.1466894**	**.1833941**	**156.9079**	**.5083595**	**.3278092**
Stddev	.0030297	.0011118	.0011440	.7429	.0021645	.0007621
%RSD	.4483946	.7579078	.6237709	.4734736	.4257755	.2324790
#1	.6722085	.1471367	.1832065	156.0725	.5081177	.3277305
#2	.6778413	.1475078	.1823555	157.4944	.5106346	.3270896
#3	.6769588	.1454236	.1846203	157.1567	.5063260	.3286076

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4330229**	**238.8619**	**4.740493**	**49.97158**	**1.413928**	**.0506139**
Stddev	.0020299	1.0570	.029340	.22283	.002079	.0003050
%RSD	.4687709	.4425103	.6189277	.4459125	.1470345	.6025187
#1	.4316063	237.6682	4.707083	49.72839	1.414855	.0505122
#2	.4353484	239.6792	4.762066	50.16595	1.411547	.0503727
#3	.4321140	239.2382	4.752329	50.02041	1.415383	.0509566

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.583135**	**.4766483**	**.6725543**	**23.71502**	F **13.74454**	**.0894125**
Stddev	.017548	.0009622	.0052114	.09013	.01453	.0068781
%RSD	.3143095	.2018606	.7748660	.3800540	.1057422	7.692588
#1	5.602195	.4770120	.6674673	23.67512	13.72900	.0816591
#2	5.579561	.4773755	.6778818	23.81821	13.74683	.0947800
#3	5.567649	.4755572	.6723138	23.65173	13.75780	.0917983

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-09MS Acquired: 07/31/2023 18:25:12 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BMS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2875051**	**.5675338**	F **15.87605**	**.6336684**	**1.930590**	**.3181250**
Stddev	.0002918	.0140422	.14346	.0006994	.011571	.0030799
%RSD	.1015050	2.474257	.9036242	.1103677	.5993582	.9681533
#1	.2875348	.5726050	15.92893	.6339603	1.922494	.3145981
#2	.2877810	.5783359	15.98557	.6328703	1.925434	.3194923
#3	.2871996	.5516604	15.71366	.6341745	1.943843	.3202845

Elem	Sr4077
Units	ppm
Avg	**.1313430**
Stddev	.0007887
%RSD	.6004544
#1	.1314415
#2	.1320778
#3	.1305098

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1493.831**	**1975.146**	**52845.41**	**8605.171**	**1592.096**
Stddev	4.587	5.740	161.53	67.284	2.593
%RSD	.3070590	.2905865	.3056690	.7819076	.1628708
#1	1499.000	1968.754	52748.69	8558.795	1589.491
#2	1492.248	1976.823	53031.89	8574.376	1594.677
#3	1490.246	1979.859	52755.65	8682.342	1592.118

Sample Name: O3810-09MSD Acquired: 07/31/2023 18:29:03 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BMSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7057096**	**1.775543**	**1.056542**	**1.401175**	**.5586132**	**78.80296**
Stddev	.0102716	.004735	.001315	.008119	.0011376	.04059
%RSD	1.455499	.2666554	.1244325	.5794100	.2036433	.0515069
#1	.7131432	1.770103	1.057850	1.409169	.5579601	78.83487
#2	.7099967	1.777791	1.055220	1.392937	.5579528	78.81672
#3	.6939889	1.778734	1.056556	1.401419	.5599268	78.75728

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6800274**	**.1477297**	**.1862546**	**150.2105**	**.5142032**	**.3335984**
Stddev	.0001855	.0007173	.0003185	.4402	.0013781	.0008207
%RSD	.0272741	.4855706	.1709837	.2930343	.2680104	.2459980
#1	.6800105	.1469343	.1859267	149.7409	.5149434	.3336606
#2	.6802208	.1483276	.1865627	150.2769	.5150531	.3343861
#3	.6798510	.1479272	.1862744	150.6137	.5126131	.3327484

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4453827**	**246.4597**	**4.723780**	**51.84614**	**1.408223**	**.0510511**
Stddev	.0030255	.2387	.008608	.08605	.002352	.0001797
%RSD	.6793059	.0968658	.1822348	.1659736	.1670191	.3520402
#1	.4475244	246.6135	4.715665	51.78119	1.410734	.0512090
#2	.4419215	246.1846	4.732809	51.81351	1.406071	.0510887
#3	.4467021	246.5808	4.722867	51.94374	1.407864	.0508555

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.799166**	**.4814325**	**.6854421**	**23.92530**	F **13.76153**	**.0971982**
Stddev	.124694	.0023294	.0033781	.02467	.01254	.0008017
%RSD	2.150199	.4838521	.4928375	.1030974	.0911594	.8248049
#1	5.941190	.4788041	.6892400	23.92999	13.77265	.0963288
#2	5.707652	.4832417	.6843140	23.94729	13.74793	.0973575
#3	5.748655	.4822517	.6827724	23.89863	13.76401	.0979082

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-09MSD Acquired: 07/31/2023 18:29:03 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P1BMSD Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2892519	.5534231	F 15.60933	.6423670	1.923428	.3265467
Stddev	.0011593	.0063702	.08876	.0019432	.010028	.0035741
%RSD	.4007889	1.151058	.5686519	.3024986	.5213550	1.094515
#1	.2879807	.5469620	15.51183	.6444261	1.932959	.3231244
#2	.2902509	.5536090	15.68544	.6405654	1.912968	.3302554
#3	.2895239	.5596984	15.63072	.6421095	1.924357	.3262602

Elem	Sr4077
Units	ppm
Avg	.1203240
Stddev	.0007192
%RSD	.5977096
#1	.1211114
#2	.1201591
#3	.1197016

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1511.091	1998.668	53180.07	8711.208	1600.398
Stddev	12.333	2.724	275.70	6.670	2.591
%RSD	.8161769	.1362884	.5184203	.0765672	.1618970
#1	1496.908	1995.834	52865.18	8710.982	1597.620
#2	1517.066	1998.903	53297.00	8704.654	1600.823
#3	1519.298	2001.267	53378.03	8717.988	1602.750

Sample Name: O3810-09A Acquired: 07/31/2023 18:32:54 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7548873**	**1.964583**	**1.118637**	**1.591726**	**.6395150**	**79.07267**
Stddev	.0015224	.002038	.001176	.006729	.0041381	.54522
%RSD	.2016757	.1037154	.1051617	.4227394	.6470752	.6895163
#1	.7557440	1.963426	1.118778	1.593841	.6348329	78.51366
#2	.7531295	1.963387	1.117397	1.597142	.6426823	79.60296
#3	.7557883	1.966936	1.119737	1.584193	.6410297	79.10141

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.550935**	**.1615325**	**.1989817**	**126.8373**	**.5098120**	**.3348172**
Stddev	.007280	.0009311	.0005249	.6358	.0036957	.0010580
%RSD	.4693893	.5764431	.2637893	.5012372	.7249163	.3160047
#1	1.542695	.1612960	.1986854	126.1109	.5125715	.3339657
#2	1.556495	.1625591	.1986720	127.2926	.5112513	.3344842
#3	1.553615	.1607424	.1995878	127.1083	.5056132	.3360016

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3990181**	**198.8069**	**4.185548**	**58.23017**	**1.107944**	**.0573324**
Stddev	.0026932	1.0032	.016457	.31169	.000316	.0004036
%RSD	.6749683	.5045963	.3931852	.5352781	.0284987	.7038980
#1	.4001141	197.7537	4.167051	57.87854	1.107579	.0576193
#2	.3959497	199.7512	4.198568	58.47246	1.108125	.0575069
#3	.4009906	198.9159	4.191026	58.33953	1.108127	.0568710

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.652666**	**.4626723**	**.6704071**	**26.48430**	F **14.91092**	**.1492072**
Stddev	.132109	.0023728	.0048301	.24774	.04880	.0053558
%RSD	1.985813	.5128553	.7204668	.9354404	.3272546	3.589533
#1	6.533063	.4644812	.6716309	26.33639	14.88233	.1431802
#2	6.794469	.4599857	.6745075	26.77031	14.88317	.1510200
#3	6.630465	.4635501	.6650828	26.34619	14.96726	.1534214

Sample Name: O3810-09A Acquired: 07/31/2023 18:32:54 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CRI Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3242280	.6995772	F 15.93143	.6857087	2.103067	.3799832
Stddev	.0006816	.0126400	.11383	.0039951	.009607	.0025463
%RSD	.2102292	1.806800	.7145264	.5826206	.4568236	.6701168
#1	.3246542	.7086229	15.89474	.6818519	2.094921	.3777483
#2	.3245879	.7049740	16.05908	.6854452	2.113662	.3827552
#3	.3234418	.6851347	15.84046	.6898291	2.100619	.3794462

Elem	Sr4077
Units	ppm
Avg	.1736031
Stddev	.0019186
%RSD	1.105133
#1	.1727736
#2	.1757968
#3	.1722389

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1467.813	1930.489	51528.47	8432.734	1593.038
Stddev	9.465	3.450	415.38	47.140	3.841
%RSD	.6448529	.1787184	.8061136	.5590148	.2411100
#1	1457.606	1932.692	51095.20	8409.880	1597.084
#2	1469.530	1932.262	51566.93	8401.377	1592.588
#3	1476.302	1926.513	51923.28	8486.945	1589.441

Sample Name: O3810-11 Acquired: 07/31/2023 18:36:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P08A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0390817**	**.0007222**	**.5046923**	**-.002260**	**.0050623**	**130.9749**
Stddev	.0063630	.0021429	.0057279	.000175	.0025742	1.2273
%RSD	16.28127	296.7102	1.134923	7.763488	50.85040	.9370534
#1	.0458150	-.001677	.5029960	-.002173	.0080259	129.6190
#2	.0331685	.001398	.5000041	-.002462	.0037792	131.2957
#3	.0382616	.002446	.5110767	-.002146	.0033818	132.0099

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8612136**	**.0094039**	**.0088095**	**302.2999**	**.3480414**	**.2556009**
Stddev	.0066358	.0001703	.0000326	2.4099	.0014708	.0011980
%RSD	.7705169	1.810870	.3698143	.7971890	.4225792	.4686913
#1	.8535867	.0095904	.0088314	299.5340	.3485013	.2547334
#2	.8643896	.0093646	.0088251	303.4190	.3492272	.2551015
#3	.8656645	.0092567	.0087721	303.9469	.3463956	.2569678

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4445296**	**242.4261**	**8.273649**	**200.9127**	**1.408398**	**-.004690**
Stddev	.0083524	2.7256	.071263	2.4003	.001766	.000613
%RSD	1.878924	1.124321	.8613193	1.194679	.1253701	13.07763
#1	.4349866	239.5968	8.192205	198.3869	1.409890	-.005385
#2	.4480929	242.6470	8.304194	201.1874	1.406449	-.004227
#3	.4505094	245.0346	8.324547	203.1638	1.408856	-.004457

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.737612**	**.3287191**	**.7984476**	**12.83297**	**6.081606**	**-.117880**
Stddev	.087782	.0032744	.0026263	.14663	.021720	.006314
%RSD	5.051858	.9961203	.3289283	1.142618	.3571345	5.356499
#1	1.656511	.3249620	.7971216	12.66371	6.105540	-.121952
#2	1.725506	.3302300	.8014726	12.92103	6.063150	-.121083
#3	1.830818	.3309652	.7967487	12.91419	6.076127	-.110607

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3810-11 Acquired: 07/31/2023 18:36:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P08A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032031	1.706126	F 17.42649	.0149042	2.434505	.1545573
Stddev	.0006766	.018026	.07812	.0003094	.034486	.0009417
%RSD	21.12436	1.056538	.4482998	2.076003	1.416562	.6093123
#1	.0033997	1.690112	17.37884	.0145676	2.400425	.1535464
#2	.0024500	1.702618	17.51665	.0151763	2.433707	.1554098
#3	.0037597	1.725648	17.38398	.0149686	2.469384	.1547156

Elem	Sr4077
Units	ppm
Avg	-.007394
Stddev	.000388
%RSD	5.247600
#1	-.007821
#2	-.007063
#3	-.007298

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1358.312	1815.115	48474.94	8076.309	1525.858
Stddev	2.693	2.472	167.03	29.296	1.168
%RSD	.1982535	.1361645	.3445733	.3627447	.0765725
#1	1356.651	1816.478	48282.16	8086.742	1525.883
#2	1361.419	1816.604	48566.05	8043.224	1527.013
#3	1356.865	1812.262	48576.59	8098.960	1524.677

Sample Name: O3810-12 Acquired: 07/31/2023 18:40:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P08B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0138620**	**.0027620**	**.0949503**	**-.008414**	**.0048312**	**77.67544**
Stddev	.0024612	.0015841	.0029898	.004650	.0013004	1.67184
%RSD	17.75483	57.35184	3.148766	55.26052	26.91606	2.152339
#1	.0166485	.0031554	.0983354	-.003351	.0042896	76.38020
#2	.0119852	.0010183	.0938447	-.009397	.0038892	77.08339
#3	.0129522	.0041124	.0926708	-.012493	.0063149	79.56274

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4530271**	**.0060007**	**.0043010**	**12.69793**	**.3284582**	**.1021794**
Stddev	.0093438	.0001109	.0000678	.21776	.0016453	.0006635
%RSD	2.062532	1.847563	1.575789	1.714965	.5009088	.6493848
#1	.4468282	.0058943	.0043055	12.53179	.3278192	.1029171
#2	.4484788	.0059924	.0043665	12.61753	.3303272	.1019897
#3	.4637742	.0061155	.0042311	12.94446	.3272283	.1016313

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2607897**	**184.1078**	**2.570300**	**28.86069**	**.3483469**	**-.002967**
Stddev	.0056351	3.5779	.048430	.60857	.0018316	.000647
%RSD	2.160788	1.943375	1.884229	2.108641	.5257864	21.80892
#1	.2547190	181.1987	2.530377	28.44052	.3504061	-.003420
#2	.2617966	183.0219	2.556348	28.58296	.3468999	-.003254
#3	.2658535	188.1029	2.624174	29.55857	.3477346	-.002226

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8820763**	**.2939086**	**.4215200**	**7.355681**	**3.141803**	**-.079414**
Stddev	.1835906	.0059719	.0021374	.117330	.013062	.003593
%RSD	20.81346	2.031880	.5070641	1.595092	.4157592	4.524862
#1	.8600308	.2879698	.4191435	7.263240	3.156861	-.083541
#2	1.075694	.2938430	.4232849	7.316126	3.135028	-.076977
#3	.710504	.2999130	.4221316	7.487676	3.133520	-.077725

Sample Name: O3810-12 Acquired: 07/31/2023 18:40:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P08B Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039447	.4917655	F 14.22907	.0082448	2.617729	.0856807
Stddev	.0002410	.0047894	.21295	.0026272	.046243	.0013962
%RSD	6.110133	.9739251	1.496562	31.86475	1.766527	1.629493
#1	.0041873	.4862553	14.11853	.0100266	2.576975	.0862812
#2	.0039414	.4941122	14.09412	.0052276	2.608226	.0840848
#3	.0037053	.4949291	14.47455	.0094801	2.667984	.0866762

Elem	Sr4077
Units	ppm
Avg	-.129071
Stddev	.002505
%RSD	1.940930
#1	-.127085
#2	-.128242
#3	-.131885

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1435.404	1878.985	50176.19	8086.539	1704.437
Stddev	3.784	8.691	189.31	107.143	6.585
%RSD	.2636136	.4625424	.3772936	1.324951	.3863418
#1	1439.773	1870.411	50074.05	8128.781	1696.834
#2	1433.144	1878.756	50059.88	8166.122	1708.289
#3	1433.297	1887.788	50394.64	7964.714	1708.189

Sample Name: CCV05 Acquired: 07/31/2023 18:44:38 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**5.070791**	**5.020547**	**4.892546**	**5.088866**	**4.960602**	**9.824849**	**10.10216**
Stddev	.015200	.017211	.019909	.010829	.007907	.135009	.06891
%RSD	.2997550	.3428045	.4069322	.2127888	.1594047	1.374161	.6821366
#1	5.070941	5.006091	4.886411	5.099147	4.965969	9.677648	10.02342
#2	5.055517	5.015963	4.876426	5.089888	4.964315	9.853994	10.13158
#3	5.085916	5.039585	4.914800	5.077563	4.951521	9.942905	10.15147

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2386965**	**2.414140**	**24.14454**	**.9703005**	**2.436938**	**1.209992**	**4.837133**
Stddev	.0006756	.008865	.20125	.0026693	.008365	.022006	.043468
%RSD	.2830516	.3672063	.8335134	.2750949	.3432456	1.818665	.8986264
#1	.2394699	2.408797	23.91513	.9704015	2.436136	1.184586	4.786986
#2	.2382213	2.409249	24.22717	.9729178	2.429004	1.222290	4.864035
#3	.2383983	2.424373	24.29133	.9675822	2.445676	1.223099	4.860380

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.428634**	**23.29299**	**2.444719**	**1.242619**	**23.80395**	**2.416753**	**2.497596**
Stddev	.018159	.26380	.008027	.003399	.44806	.031054	.007602
%RSD	.7476886	1.132537	.3283482	.2734985	1.882283	1.284966	.3043797
#1	2.407838	22.98996	2.439940	1.246519	23.42084	2.380969	2.499312
#2	2.436708	23.41771	2.440231	1.241049	23.69440	2.436650	2.504193
#3	2.441354	23.47131	2.453987	1.240289	24.29663	2.432638	2.489282

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.42399**	**5.227559**	**4.803523**	**4.934639**	**5.017681**	**4.857241**	**4.808601**
Stddev	.28951	.017607	.020701	.006640	.033933	.030789	.006217
%RSD	1.185337	.3368150	.4309616	.1345671	.6762757	.6338867	.1292929
#1	24.11034	5.224273	4.826113	4.933505	4.993494	4.887652	4.809316
#2	24.48065	5.211826	4.785458	4.941773	5.003078	4.826087	4.802058
#3	24.68098	5.246577	4.799000	4.928638	5.056471	4.857982	4.814430

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: CCV05 Acquired: 07/31/2023 18:44:38 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.797199**	**4.989545**	**4.892206**
Stddev	.060608	.020326	.078622
%RSD	1.263407	.4073635	1.607089
#1	4.729670	4.966214	4.802700
#2	4.815052	5.003414	4.950110
#3	4.846876	4.999008	4.923808

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1246.484**	**1625.542**	**43491.66**	**6987.800**	**1661.133**
Stddev	6.149	3.123	179.04	16.398	4.138
%RSD	.4933165	.1920975	.4116630	.2346653	.2491128
#1	1249.581	1622.964	43613.13	6992.032	1660.919
#2	1239.402	1624.647	43286.05	6969.701	1665.374
#3	1250.469	1629.014	43575.81	7001.667	1657.106

Sample Name: CCB05 Acquired: 07/31/2023 18:48:33 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**.0022249**	**.0000585**	**-.000375**	**-.000463**	**-.000597**	**.0091447**	**.0010185**
Stddev	.0009665	.0006305	.000285	.003608	.000197	.0012232	.0003666
%RSD	43.44223	1077.714	76.00737	780.0826	32.94657	13.37601	35.99204
#1	.0022008	-.000348	-.000692	.000096	-.000370	.0098596	.0010997
#2	.0032032	-.000261	-.000138	-.004317	-.000715	.0098421	.0013376
#3	.0012706	.000785	-.000296	.002834	-.000706	.0077323	.0006181

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000580**	**.0001310**	**.0066055**	**-.000083**	**.0003028**	**-.000889**	**.0137807**
Stddev	.0000522	.0000527	.0064530	.000233	.0003212	.002097	.0037125
%RSD	90.08381	40.22267	97.69016	279.2494	106.1118	235.9493	26.93994
#1	.0001098	.0001751	.0116413	.000185	.0005393	.001072	.0165423
#2	.0000588	.0001454	.0088439	-.000219	-.000063	-.003099	.0095604
#3	.0000053	.0000727	-.000669	-.000216	.000432	-.000639	.0152395

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006975**	**-.002277**	**.0003879**	**.0004824**	**-.063910**	**.0037767**	**-.000524**
Stddev	.0003404	.022486	.0004092	.0001672	.102857	.0008580	.000237
%RSD	48.80300	987.6958	105.4917	34.65253	160.9385	22.71788	45.22417
#1	.0008988	.019591	-.000075	.0002982	.053779	.0042382	-.000250
#2	.0008892	-.025334	.000536	.0006245	-.108919	.0043052	-.000668
#3	.0003045	-.001088	.000702	.0005246	-.136591	.0027867	-.000654

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.030750**	**.0017853**	**.0031098**	**.0010477**	**-.003844**	**.0048141**	**.0008671**
Stddev	.012609	.0020298	.0004900	.0002776	.011332	.0008468	.0004318
%RSD	41.00516	113.6978	15.75598	26.49629	294.7595	17.58902	49.79618
#1	-.037295	.0025363	.0030421	.0013233	.001388	.0055179	.0013570
#2	-.038740	-.000513	.0036301	.0010516	.003926	.0050501	.0005418
#3	-.016214	.003333	.0026572	.0007681	-.016847	.0038744	.0007025

Sample Name: CCB05 Acquired: 07/31/2023 18:48:33 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0014572	.0017985	.0009465
Stddev	.0008012	.0014242	.0002209
%RSD	54.98150	79.18847	23.33338
#1	.0023763	.0033484	.0011303
#2	.0009068	.0005472	.0010076
#3	.0010884	.0015000	.0007015

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1303.204	1722.280	44996.50	7240.727	1823.215
Stddev	6.558	2.544	195.22	45.185	5.655
%RSD	.5032352	.1477014	.4338652	.6240436	.3101805
#1	1296.364	1719.444	44773.16	7289.730	1818.767
#2	1309.438	1723.037	45134.68	7231.740	1821.297
#3	1303.810	1724.360	45081.65	7200.710	1829.579

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3815-01 Acquired: 07/31/2023 18:52:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-A-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067390**	**.0215967**	**1.430527**	**-.016553**	**.0121781**	**189.5941**
Stddev	.0080801	.0001970	.011667	.005263	.0042558	2.3995
%RSD	119.8995	.9121977	.8155420	31.79301	34.94624	1.265590
#1	.0074837	.0213932	1.428329	-.018496	.0076127	187.3088
#2	.0144210	.0216106	1.443137	-.020567	.0160354	189.3801
#3	-.001688	.0217864	1.420116	-.010595	.0128862	192.0935

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.181490**	**.0118632**	**.0140064**	**80.00749**	**.4255174**	**.2456431**
Stddev	.020221	.0000646	.0003058	.73879	.0009551	.0009968
%RSD	.9269144	.5442778	2.183080	.9233986	.2244594	.4057759
#1	2.159389	.0118085	.0139869	79.20935	.4244406	.2467182
#2	2.186018	.0119345	.0143214	80.14573	.4262623	.2454614
#3	2.199062	.0118467	.0137108	80.66740	.4258492	.2447497

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6960759**	**446.5967**	**5.086626**	**94.41985**	**.5263365**	**-.011207**
Stddev	.0070133	2.2647	.053063	.43104	.0009333	.000617
%RSD	1.007541	.5071060	1.043182	.4565160	.1773265	5.503450
#1	.6885439	444.1778	5.029338	93.95920	.5270402	-.011895
#2	.7024182	446.9454	5.096446	94.48693	.5252777	-.011021
#3	.6972656	448.6668	5.134092	94.81341	.5266915	-.010704

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.481184**	**.7187641**	**1.774944**	**87.74739**	F **10.88486**	**-.227450**
Stddev	.140094	.0045329	.018009	1.10435	.02746	.003195
%RSD	1.872619	.6306461	1.014619	1.258553	.2522425	1.404612
#1	7.642009	.7138746	1.770031	86.80224	10.85401	-.223820
#2	7.415864	.7195915	1.794899	87.47860	10.89395	-.228698
#3	7.385678	.7228263	1.759901	88.96131	10.90662	-.229833

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3815-01 Acquired: 07/31/2023 18:52:40 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-A-1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024437	6.126720	3.090938	.0364465	F 18.83707	.2044344
Stddev	.0004432	.012543	.034821	.0032740	.15669	.0020752
%RSD	18.13470	.2047297	1.126566	8.983137	.8318007	1.015082
#1	.0019565	6.133570	3.055796	.0372043	18.69058	.2020404
#2	.0028229	6.134347	3.091590	.0392753	18.81836	.2055425
#3	.0025517	6.112243	3.125430	.0328601	19.00227	.2057203

Elem	Sr4077
Units	ppm
Avg	-.038394
Stddev	.003249
%RSD	8.462885
#1	-.040725
#2	-.039776
#3	-.034683

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1447.183	1901.778	50797.84	8401.922	1581.931
Stddev	18.552	4.781	412.13	39.904	2.646
%RSD	1.281964	.2514098	.8113179	.4749377	.1672912
#1	1450.749	1905.996	50890.31	8446.481	1581.819
#2	1427.106	1896.584	50347.32	8389.801	1579.343
#3	1463.693	1902.753	51155.88	8369.484	1584.632

Sample Name: O3815-02 Acquired: 07/31/2023 18:56:32 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-A-2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0599125**	**.0077596**	**4.249996**	**.0042215**	**.0138390**	**137.9971**
Stddev	.0106096	.0031158	.008377	.0077119	.0014622	1.0648
%RSD	17.70849	40.15440	.1971042	182.6810	10.56606	.7715834
#1	.0629892	.0113341	4.257143	.0130199	.0135873	136.7863
#2	.0481046	.0056178	4.252067	-.001367	.0125189	138.7876
#3	.0686438	.0063270	4.240778	.001011	.0154108	138.4174

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.832951**	**.0106814**	**.0164466**	**365.2284**	**.3862308**	**.1432754**
Stddev	.013648	.0001056	.0004792	2.8170	.0009266	.0006713
%RSD	.7445746	.9883247	2.913438	.7712976	.2398967	.4685657
#1	1.817334	.0107403	.0169341	362.0215	.3853378	.1440437
#2	1.842584	.0105595	.0164293	367.3034	.3861670	.1429811
#3	1.838937	.0107445	.0159762	366.3602	.3871876	.1428015

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8375671**	**366.0243**	**4.175438**	**70.11835**	**.4970329**	**-.009607**
Stddev	.0116846	3.5220	.035498	.57867	.0012639	.000866
%RSD	1.395065	.9622257	.8501620	.8252814	.2542979	9.016293
#1	.8243419	361.9644	4.134907	69.45501	.4964118	-.010374
#2	.8464930	367.8496	4.200999	70.51962	.4984872	-.008667
#3	.8418663	368.2590	4.190407	70.38042	.4961996	-.009780

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.018199**	**.6062687**	**6.364169**	**42.63830**	**6.725353**	**-.150089**
Stddev	.024166	.0059860	.008595	.27237	.013013	.006201
%RSD	.4015454	.9873570	.1350538	.6387823	.1934944	4.131758
#1	5.995812	.5997001	6.361347	42.32670	6.734771	-.157238
#2	6.043819	.6114164	6.373820	42.83097	6.730784	-.146869
#3	6.014968	.6076896	6.357339	42.75724	6.710504	-.146159

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3815-02 Acquired: 07/31/2023 18:56:32 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-A-2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479053	F 57.32876	2.120155	.0813964	9.933962	.1374830
Stddev	.0001976	.04388	.030615	.0016258	.072783	.0015124
%RSD	.4123839	.0765387	1.444019	1.997327	.7326694	1.100069
#1	.0479371	57.37566	2.109370	.0831497	9.849953	.1357935
#2	.0480851	57.32191	2.096391	.0799388	9.978045	.1379451
#3	.0476938	57.28870	2.154703	.0811005	9.973887	.1387105

Elem	Sr4077
Units	ppm
Avg	1.917709
Stddev	.016078
%RSD	.8383979
#1	1.899401
#2	1.929531
#3	1.924194

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1364.796	1811.695	48531.27	8248.748	1590.454
Stddev	6.503	2.084	118.95	18.782	3.414
%RSD	.4765084	.1150396	.2451097	.2276987	.2146292
#1	1363.158	1811.138	48408.65	8252.713	1587.732
#2	1359.268	1809.945	48538.96	8228.299	1589.345
#3	1371.962	1814.001	48646.19	8265.231	1594.284

Sample Name: O3815-03 Acquired: 07/31/2023 19:00:24 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUP-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0635412**	**.0051307**	**2.692360**	**.0029505**	**.0103052**	**86.70550**
Stddev	.0034220	.0022227	.009855	.0072583	.0011581	.65650
%RSD	5.385500	43.32099	.3660486	246.0007	11.23777	.7571569
#1	.0625263	.0072997	2.703106	-.004788	.0089875	85.96071
#2	.0607413	.0052344	2.690229	.004033	.0107666	86.95562
#3	.0673558	.0028580	2.683744	.009607	.0111614	87.20018

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.210266**	**.0074830**	**.0106832**	**214.9426**	**.2709743**	**.0953425**
Stddev	.008679	.0001092	.0001642	1.7492	.0002205	.0008687
%RSD	.7171224	1.459880	1.537325	.8137984	.0813882	.9110942
#1	1.200245	.0076056	.0108516	212.9767	.2712194	.0948223
#2	1.215263	.0074474	.0105234	215.5244	.2709116	.0948599
#3	1.215292	.0073960	.0106748	216.3269	.2707919	.0963453

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7258704**	**269.4206**	**2.745689**	**42.76601**	**.3502428**	**-.006882**
Stddev	.0081268	1.6177	.017418	.22937	.0004312	.000246
%RSD	1.119589	.6004382	.6343819	.5363402	.1231042	3.577523
#1	.7164922	267.5986	2.725605	42.51209	.3506916	-.007131
#2	.7302751	269.9751	2.754786	42.82774	.3502049	-.006876
#3	.7308439	270.6882	2.756674	42.95820	.3498318	-.006639

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.588565**	**.4647043**	**3.767923**	**29.05643**	**4.521673**	**-.112295**
Stddev	.313224	.0072288	.003171	.12624	.011162	.004041
%RSD	8.728381	1.555566	.0841516	.4344478	.2468490	3.598733
#1	3.507948	.4563573	3.767273	28.91969	4.532158	-.116041
#2	3.934217	.4688452	3.771368	29.16853	4.509939	-.112832
#3	3.323529	.4689104	3.765127	29.08107	4.522921	-.108013

Sample Name: O3815-03 Acquired: 07/31/2023 19:00:24 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: DUP-01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459859	F 45.11972	1.858784	.0675966	6.875818	.0833425
Stddev	.0007283	.09065	.011263	.0022130	.043919	.0006605
%RSD	1.583780	.2008999	.6059495	3.273759	.6387492	.7924483
#1	.0460636	45.12066	1.862654	.0693946	6.825736	.0826366
#2	.0452218	45.02860	1.867602	.0651251	6.907768	.0834455
#3	.0466722	45.20989	1.846096	.0682700	6.893951	.0839454

Elem	Sr4077
Units	ppm
Avg	1.111727
Stddev	.007965
%RSD	.7164715
#1	1.102600
#2	1.117279
#3	1.115301

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1319.407	1742.148	46614.78	7840.083	1634.899
Stddev	8.232	4.503	358.48	16.542	.402
%RSD	.6239484	.2584777	.7690234	.2109884	.0245890
#1	1322.500	1747.329	46740.98	7851.087	1635.095
#2	1325.645	1739.939	46893.10	7821.060	1634.436
#3	1310.076	1739.176	46210.28	7848.101	1635.165

Sample Name: O3815-04 Acquired: 07/31/2023 19:04:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-B-2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087259**	**.0230977**	**.6123957**	**-.007076**	**.0098249**	**177.2387**
Stddev	.0055789	.0035230	.0021942	.007820	.0021583	.3254
%RSD	63.93568	15.25256	.3583029	110.5193	21.96714	.1835852
#1	.0057249	.0204212	.6149111	-.016044	.0075898	177.0022
#2	.0052897	.0217829	.6108746	-.001681	.0099879	177.6098
#3	.0151630	.0270890	.6114016	-.003502	.0118971	177.1042

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.793213**	**.0100651**	**.0086541**	**82.84284**	**.3762565**	**.2259692**
Stddev	.005659	.0001513	.0001614	.37299	.0020445	.0009357
%RSD	.3155816	1.503370	1.865336	.4502439	.5433854	.4140588
#1	1.787053	.0099830	.0086084	82.46032	.3739561	.2255140
#2	1.798180	.0102397	.0085205	82.86266	.3769470	.2253483
#3	1.794407	.0099726	.0088335	83.20552	.3778664	.2270454

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5690275**	**340.1464**	**4.483575**	**104.6757**	**.4415674**	**-.009462**
Stddev	.0014142	1.5825	.018644	.5218	.0005480	.000364
%RSD	.2485249	.4652541	.4158299	.4985157	.1241106	3.842503
#1	.5706531	338.5237	4.463179	104.1547	.4412036	-.009636
#2	.5680807	340.2301	4.487806	104.6741	.4413009	-.009045
#3	.5683486	341.6854	4.499741	105.1983	.4421977	-.009706

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.20593**	**.5720701**	**.8847437**	**81.68746**	F **11.81100**	**-.176506**
Stddev	.04358	.0008769	.0028165	.19540	.01427	.004518
%RSD	.3888830	.1532870	.3183448	.2392039	.1208509	2.559680
#1	11.15715	.5726680	.8835144	81.64778	11.79653	-.176363
#2	11.21962	.5710634	.8827507	81.89966	11.81141	-.181093
#3	11.24102	.5724788	.8879659	81.51495	11.82507	-.172061

Sample Name: O3815-04 Acquired: 07/31/2023 19:04:17 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-B-2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002071	.7359347	3.196335	.0200614	F 16.96412	.2171205
Stddev	.0001742	.0178876	.002892	.0003065	.03484	.0007675
%RSD	84.11691	2.430595	.0904686	1.527782	.2053514	.3535040
#1	.0000851	.7524064	3.194239	.0197612	16.93740	.2168970
#2	.0004066	.7384915	3.195131	.0203738	17.00352	.2179750
#3	.0001296	.7169063	3.199634	.0200493	16.95144	.2164896

Elem	Sr4077
Units	ppm
Avg	-.149089
Stddev	.002129
%RSD	1.427858
#1	-.147148
#2	-.148755
#3	-.151366

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1456.227	1908.742	51151.76	8470.105	1579.397
Stddev	1.942	1.708	96.15	5.276	2.046
%RSD	.1333749	.0895013	.1879752	.0622905	.1295310
#1	1457.705	1907.379	51251.94	8466.055	1578.413
#2	1456.948	1910.659	51060.22	8476.071	1581.749
#3	1454.027	1908.189	51143.11	8468.188	1578.030

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3815-05 Acquired: 07/31/2023 19:08:10 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-B-7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039654**	**.0212188**	**.7263270**	**-.016521**	**.0093995**	**183.4580**
Stddev	.0164794	.0005276	.0041065	.007535	.0016558	1.0385
%RSD	415.5789	2.486476	.5653840	45.60580	17.61590	.5660461
#1	.0165983	.0218237	.7254613	-.013718	.0085583	182.2727
#2	-.014675	.0208539	.7307974	-.025055	.0113070	183.8936
#3	.009973	.0209787	.7227223	-.010790	.0083332	184.2077

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.966220**	**.0100994**	**.0093319**	**86.16097**	**.3995436**	**.2329186**
Stddev	.012929	.0001043	.0001297	.47497	.0003139	.0004214
%RSD	.6575545	1.032598	1.389315	.5512535	.0785511	.1809351
#1	1.951886	.0102198	.0091920	85.61412	.3992015	.2333229
#2	1.969775	.0100372	.0093558	86.39825	.3998183	.2329508
#3	1.977000	.0100413	.0094479	86.47054	.3996110	.2324819

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6935269**	**358.8061**	**4.799479**	**101.9901**	**.4613598**	**-.009700**
Stddev	.0025463	2.0294	.030191	.4901	.0019225	.000766
%RSD	.3671479	.5655916	.6290441	.4805604	.4167064	7.892238
#1	.6940701	356.4632	4.764736	101.4321	.4627800	-.010561
#2	.6907528	360.0179	4.819332	102.1871	.4621273	-.009094
#3	.6957577	359.9371	4.814370	102.3511	.4591721	-.009445

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.78243**	**.6051061**	**1.031554**	**87.95337**	F **10.27475**	**-.182835**
Stddev	.15221	.0064399	.005101	.28710	.02474	.003558
%RSD	.9644344	1.064256	.4945172	.3264220	.2407719	1.946204
#1	15.64845	.6023184	1.036058	87.65419	10.29878	-.184180
#2	15.75091	.6005298	1.026015	87.97931	10.24936	-.185526
#3	15.94793	.6124702	1.032591	88.22662	10.27612	-.178801

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3815-05 Acquired: 07/31/2023 19:08:10 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: BUILDING-B-7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002369	1.236168	3.923786	.0296683	F 17.91884	.2310299
Stddev	.0006080	.004594	.040373	.0022266	.11272	.0018247
%RSD	256.6043	.3716149	1.028935	7.504948	.6290649	.7898059
#1	-.000215	1.231334	3.905172	.0316229	17.79297	.2289580
#2	.000928	1.240477	3.970109	.0301375	17.95311	.2317346
#3	-.000003	1.236692	3.896078	.0272445	18.01046	.2323972

Elem	Sr4077
Units	ppm
Avg	-.054933
Stddev	.000646
%RSD	1.175894
#1	-.054505
#2	-.055676
#3	-.054618

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1431.392	1886.515	50498.16	8421.190	1578.336
Stddev	7.323	3.730	151.15	26.216	2.887
%RSD	.5115920	.1977164	.2993175	.3113145	.1829151
#1	1427.553	1884.529	50553.38	8437.680	1576.113
#2	1439.836	1890.818	50613.94	8390.960	1581.599
#3	1426.787	1884.199	50327.17	8434.931	1577.296

Reviewed By:bin
On:8/1/2023 5:54:19 AM
Inst Id :P5
LB :LB126674

Sample Name: O3826-01 Acquired: 07/31/2023 19:12:03 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-01-072823 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0182264**	**-.001881**	**.5658206**	**-.001273**	**.0040979**	**98.40079**	**.8846645**
Stddev	.0067185	.000866	.0036077	.006796	.0011715	.71464	.0061345
%RSD	36.86109	46.03671	.6376115	534.0026	28.58811	.7262526	.6934298
#1	.0107807	-.001313	.5617398	-.009038	.0049148	98.22882	.8801838
#2	.0200629	-.001453	.5671358	.003594	.0027557	97.78783	.8821535
#3	.0238357	-.002877	.5685863	.001625	.0046232	99.18573	.8916561

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062985**	**.0063789**	**70.84791**	**.1638112**	**.1041929**	**.3553713**	**185.2293**
Stddev	.0000702	.0003698	.41955	.0002621	.0006922	.0052704	.9994
%RSD	1.114893	5.797025	.5921840	.1600255	.6643602	1.483067	.5395255
#1	.0062182	.0063647	70.52026	.1640562	.1039021	.3518725	184.7171
#2	.0063287	.0067556	70.70270	.1635348	.1036935	.3528083	184.5899
#3	.0063486	.0060165	71.32078	.1638425	.1049830	.3614329	186.3809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.541609**	**44.75612**	**.1961444**	**-.004576**	**7.372908**	**.3419183**	**.8163704**
Stddev	.020483	.21963	.0009633	.000382	.165297	.0030605	.0007140
%RSD	.5783631	.4907222	.4910921	8.351357	2.241956	.8951011	.0874621
#1	3.527020	44.64292	.1963264	-.005011	7.519380	.3411193	.8162875
#2	3.532781	44.61619	.1951031	-.004424	7.193688	.3393364	.8171222
#3	3.565026	45.00926	.1970037	-.004293	7.405654	.3452990	.8157015

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.162006**	**4.394202**	**-.014294**	**.0048646**	**6.967472**	**4.216946**	**.0221791**
Stddev	.117560	.019297	.003377	.0003620	.023488	.019173	.0022818
%RSD	1.283122	.4391457	23.62364	7.442495	.3371126	.4546554	10.28806
#1	9.093677	4.384594	-.011584	.0052406	6.971589	4.233542	.0248139
#2	9.094590	4.381595	-.018077	.0048350	6.942197	4.195959	.0208540
#3	9.297752	4.416417	-.013221	.0045184	6.988629	4.221337	.0208693

Sample Name: O3826-01 Acquired: 07/31/2023 19:12:03 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: HR-01-072823 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.498486**	**.1197847**	**.1145560**
Stddev	.016813	.0007264	.0009974
%RSD	.6729231	.6063938	.8706554
#1	2.496634	.1192453	.1149239
#2	2.482676	.1194981	.1134269
#3	2.516148	.1206106	.1153171

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1429.282**	**1878.453**	**50005.67**	**8308.511**	**1691.989**
Stddev	5.096	7.378	81.00	5.053	4.300
%RSD	.3565330	.3927747	.1619724	.0608223	.2541236
#1	1426.284	1874.833	50014.45	8307.300	1692.561
#2	1426.397	1886.942	49920.65	8314.061	1695.974
#3	1435.166	1873.584	50081.93	8304.174	1687.432

Sample Name: O3833-01 Acquired: 07/31/2023 19:15:59 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 82ND-1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0156970**	**.0045591**	**.1095709**	**.0005793**	**.0038936**	**114.3072**	**.6228948**
Stddev	.0039793	.0022051	.0038572	.0034201	.0038939	.5730	.0029802
%RSD	25.35063	48.36846	3.520262	590.3525	100.0071	.5012878	.4784507
#1	.0125794	.0069866	.1053141	-.002605	.0049040	113.6888	.6194761
#2	.0143325	.0040108	.1105644	.000148	-.000406	114.4125	.6249450
#3	.0201790	.0026797	.1128341	.004194	.007183	114.8203	.6242634

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067088**	**.0037054**	**16.86556**	**.2033745**	**.0949230**	**.2464951**	**158.2404**
Stddev	.0000716	.0000852	.06154	.0002917	.0007076	.0032873	1.0170
%RSD	1.066704	2.299538	.3648647	.1434167	.7454103	1.333616	.6427242
#1	.0067342	.0037100	16.79491	.2036567	.0949858	.2428449	157.3258
#2	.0067642	.0036180	16.89426	.2030742	.0941861	.2474184	158.0598
#3	.0066280	.0037883	16.90750	.2033926	.0955971	.2492220	159.3357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.913437**	**31.76189**	**.1945510**	**-.004191**	**3.160981**	**.2836081**	**.3548662**
Stddev	.021288	.18723	.0021105	.000270	.100260	.0015021	.0021581
%RSD	.5439602	.5894833	1.084821	6.432189	3.171789	.5296391	.6081504
#1	3.889197	31.58452	.1933403	-.003885	3.268756	.2828800	.3551315
#2	3.922023	31.74353	.1933247	-.004298	3.143704	.2853355	.3568794
#3	3.929090	31.95763	.1969880	-.004391	3.070482	.2826087	.3525877

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.02759**	**4.443051**	**-.058883**	**-.001275**	**.4575417**	**7.119211**	**.0089556**
Stddev	.04306	.044345	.005747	.000522	.0107932	.100907	.0006432
%RSD	.3069843	.9980677	9.760090	40.95961	2.358960	1.417386	7.182312
#1	13.98953	4.402928	-.065456	-.000702	.4646770	7.052705	.0096607
#2	14.01891	4.435560	-.056390	-.001399	.4451248	7.069610	.0084009
#3	14.07433	4.490663	-.054804	-.001723	.4628234	7.235319	.0088052

Sample Name: O3833-01 Acquired: 07/31/2023 19:15:59 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: 82ND-1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.787014	.0505878	.0520339
Stddev	.023892	.0009135	.0006066
%RSD	.6308867	1.805820	1.165818
#1	3.763008	.0495865	.0527241
#2	3.787243	.0508014	.0517927
#3	3.810790	.0513757	.0515850

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1513.381	1971.239	52359.27	8535.636	1727.235
Stddev	2.756	7.677	46.41	18.816	10.625
%RSD	.1821053	.3894277	.0886349	.2204451	.6151430
#1	1516.564	1978.153	52370.92	8524.715	1736.289
#2	1511.798	1972.587	52398.75	8557.363	1729.879
#3	1511.783	1962.978	52308.15	8524.830	1715.538

Sample Name: O3834-01 Acquired: 07/31/2023 19:19:57 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0288397**	**-.004654**	**.1054921**	**-.010014**	**.0062831**	**41.18655**	**.5763712**
Stddev	.0066441	.003000	.0043007	.006176	.0006171	.12529	.0029488
%RSD	23.03807	64.46428	4.076828	61.67689	9.821847	.3041983	.5116110
#1	.0364173	-.003016	.1102309	-.014045	.0060715	41.06185	.5730338
#2	.0260897	-.008116	.1018366	-.013094	.0057995	41.18537	.5774555
#3	.0240121	-.002829	.1044088	-.002903	.0069781	41.31242	.5786243

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052781**	**.0032455**	**16.09863**	**.1767701**	**.0681560**	**.1433858**	**162.6728**
Stddev	.0001003	.0001339	.10118	.0008693	.0000662	.0005561	.6335
%RSD	1.899647	4.124486	.6285290	.4917794	.0971044	.3878106	.3894508
#1	.0052224	.0033041	15.99313	.1773337	.0680808	.1428204	162.3075
#2	.0053939	.0033400	16.10791	.1757690	.0681820	.1434050	162.3065
#3	.0052182	.0030923	16.19486	.1772077	.0682052	.1439320	163.4043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.476191**	**12.35306**	**.3758749**	**-.004047**	**.8025914**	**.1903936**	**.3722115**
Stddev	.006826	.08898	.0006618	.000149	.2049063	.0020942	.0011611
%RSD	.1963701	.7203061	.1760743	3.674421	25.53059	1.099955	.3119330
#1	3.468497	12.25396	.3760796	-.004213	.9162805	.1898954	.3735356
#2	3.478560	12.37913	.3764103	-.004003	.9254486	.1885934	.3713676
#3	3.481518	12.42610	.3751350	-.003925	.5660451	.1926920	.3717311

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.616332**	**3.692158**	**-.066510**	**.0034396**	**.7871838**	**2.572149**	**.0063417**
Stddev	.047601	.004817	.002774	.0002313	.0020262	.020841	.0007564
%RSD	.8475406	.1304735	4.170714	6.723291	.2574000	.8102479	11.92741
#1	5.601472	3.695064	-.064131	.0034862	.7883474	2.555826	.0065713
#2	5.669590	3.686597	-.069557	.0036440	.7848441	2.564996	.0054971
#3	5.577934	3.694812	-.065843	.0031886	.7883598	2.595624	.0069567

Sample Name: O3834-01 Acquired: 07/31/2023 19:19:57 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P2A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.028400	.0312404	-.111434
Stddev	.006933	.0015024	.000552
%RSD	.6741536	4.809279	.4955594
#1	1.022907	.0322072	-.111039
#2	1.026103	.0320045	-.111198
#3	1.036190	.0295095	-.112065

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1457.402	1906.579	50781.39	8261.281	1782.662
Stddev	2.429	2.239	162.67	21.541	1.304
%RSD	.1666693	.1174482	.3203347	.2607498	.0731370
#1	1456.946	1905.186	50710.06	8284.496	1781.169
#2	1460.026	1909.162	50967.54	8241.939	1783.576
#3	1455.232	1905.389	50666.57	8257.407	1783.242

Sample Name: O3834-02 Acquired: 07/31/2023 19:23:55 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P2B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0600217**	**-.019755**	**.2258084**	**-.021843**	**.0101620**	**80.50822**	**.7564721**
Stddev	.0062658	.003940	.0019973	.006675	.0030431	1.18404	.0060153
%RSD	10.43924	19.94643	.8845270	30.55678	29.94574	1.470708	.7951746
#1	.0542454	-.024148	.2272478	-.026144	.0110209	79.14556	.7496106
#2	.0591367	-.018583	.2235281	-.025232	.0067818	81.28601	.7608371
#3	.0666830	-.016533	.2266494	-.014154	.0126834	81.09310	.7589687

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0128701**	**.0110808**	**37.34807**	**.5194996**	**.2697258**	**.5086841**	**379.8352**
Stddev	.0001866	.0001763	.32817	.0018743	.0007780	.0080415	5.3216
%RSD	1.450204	1.591297	.8786796	.3607823	.2884453	1.580843	1.401026
#1	.0126724	.0112624	36.96948	.5194682	.2701943	.4995891	373.7970
#2	.0130433	.0110697	37.52332	.5213893	.2688277	.5116106	381.8674
#3	.0128945	.0109102	37.55141	.5176412	.2701553	.5148525	383.8413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.426096**	**45.39259**	**1.641748**	**-.010826**	**2.641030**	**.5023870**	**.7010891**
Stddev	.059966	.55663	.003894	.000537	.165458	.0046068	.0034903
%RSD	.9331647	1.226256	.2371948	4.960185	6.264886	.9169799	.4978348
#1	6.357598	44.75532	1.644643	-.011324	2.456328	.4974590	.6998187
#2	6.469119	45.63882	1.637321	-.010896	2.775690	.5065856	.6984120
#3	6.451570	45.78365	1.643280	-.010257	2.691074	.5031163	.7050367

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.09962**	**7.692724**	**-.175313**	**.0131761**	**.5903995**	**3.465686**	**.0150453**
Stddev	.21545	.019542	.004075	.0004236	.0050082	.040009	.0008012
%RSD	1.426834	.2540266	2.324358	3.214859	.8482791	1.154444	5.324947
#1	14.85116	7.701036	-.177953	.0136560	.5931907	3.435371	.0141222
#2	15.21303	7.670401	-.177367	.0130178	.5846176	3.450653	.0155595
#3	15.23467	7.706736	-.170620	.0128544	.5933901	3.511035	.0154542

Sample Name: O3834-02 Acquired: 07/31/2023 19:23:55 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: B-P2B Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.076222	.1164897	-.268514
Stddev	.033537	.0006798	.003617
%RSD	1.615280	.5835603	1.346989
#1	2.037940	.1157625	-.264532
#2	2.100421	.1171092	-.269415
#3	2.090305	.1165975	-.271595

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.873	2180.182	58250.06	9622.740	1687.639
Stddev	3.419	2.115	306.35	61.324	4.628
%RSD	.2058396	.0969884	.5259251	.6372817	.2742546
#1	1658.008	2178.023	58052.73	9691.544	1682.449
#2	1664.657	2180.273	58094.47	9573.840	1691.338
#3	1659.954	2182.249	58602.98	9602.838	1689.131

Sample Name: CCV06 Acquired: 07/31/2023 19:27:48 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**4.992917**	**4.922714**	**4.811093**	**5.014527**	**4.908885**	**9.568745**	**9.798023**
Stddev	.031894	.017973	.023953	.018123	.015287	.074288	.051862
%RSD	.6387877	.3651062	.4978642	.3614197	.3114088	.7763615	.5293124
#1	5.029487	4.916856	4.827330	5.025685	4.914738	9.491718	9.742184
#2	4.978396	4.908400	4.783584	4.993615	4.891536	9.574566	9.807200
#3	4.970866	4.942885	4.822365	5.024280	4.920380	9.639952	9.844684

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2313508**	**2.366186**	**23.54378**	**.9572837**	**2.392641**	**1.158470**	**5.068080**
Stddev	.0004508	.008197	.15327	.0011165	.005898	.004809	.093315
%RSD	.1948766	.3464215	.6509788	.1166311	.2464854	.4151570	1.841227
#1	.2318439	2.368454	23.38248	.9575028	2.394244	1.155770	5.175143
#2	.2312486	2.357094	23.56135	.9560738	2.386108	1.155616	5.025072
#3	.2309598	2.373011	23.68750	.9582743	2.397571	1.164022	5.004024

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.367013**	**22.90723**	**2.401930**	**1.245658**	**23.60933**	**2.329418**	**2.468864**
Stddev	.011452	.08998	.010272	.005405	.20665	.022620	.015439
%RSD	.4838208	.3928080	.4276385	.4339123	.8752823	.9710732	.6253523
#1	2.354451	22.82063	2.401372	1.239698	23.37898	2.312932	2.466219
#2	2.369716	22.90080	2.391949	1.247035	23.67055	2.320116	2.485455
#3	2.376871	23.00025	2.412470	1.250242	23.77844	2.355206	2.454919

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.38535**	**5.117969**	**4.663931**	**4.872160**	**4.918076**	**4.711186**	**4.753741**
Stddev	.06344	.021107	.022533	.019137	.018926	.019894	.014586
%RSD	.2712619	.4124173	.4831386	.3927761	.3848304	.4222654	.3068237
#1	23.32703	5.129748	4.689949	4.888577	4.915894	4.733305	4.761188
#2	23.37612	5.093601	4.651114	4.851142	4.900335	4.694759	4.736935
#3	23.45289	5.130558	4.650729	4.876762	4.937998	4.705492	4.763100

Sample Name: CCV06 Acquired: 07/31/2023 19:27:48 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.670636**	**4.893190**	**4.705834**
Stddev	.029755	.019741	.091613
%RSD	.6370642	.4034381	1.946792
#1	4.639804	4.871340	4.610408
#2	4.672924	4.898491	4.714007
#3	4.699182	4.909739	4.793086

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1256.955**	**1658.723**	**43771.66**	**7215.038**	**1707.226**
Stddev	3.910	6.288	137.87	23.425	4.221
%RSD	.3110938	.3791129	.3149791	.3246655	.2472234
#1	1260.681	1652.762	43889.76	7189.539	1703.955
#2	1252.884	1665.294	43805.08	7235.603	1711.990
#3	1257.299	1658.111	43620.16	7219.970	1705.733

Sample Name: CCB06 Acquired: 07/31/2023 19:31:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN 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	**-.005944**	**.0004425**	**-.001399**	**.0027354**	**-.001652**	**.0029626**	**-.000557**
Stddev	.002692	.0009152	.002561	.0051410	.001285	.0014357	.000260
%RSD	45.28847	206.8129	183.0899	187.9449	77.79676	48.46147	46.67822
#1	-.008743	.0013747	-.002049	.0022684	-.000191	.0045652	-.000324
#2	-.005714	.0004076	-.003572	-.002156	-.002608	.0025291	-.000838
#3	-.003374	-.000455	.001425	.008094	-.002157	.0017936	-.000510

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000102**	**-.000082**	**-.000961**	**-.000097**	**.0001132**	**.0022300**	**.0071991**
Stddev	.0000351	.000055	.006990	.000100	.0001041	.0027164	.0076640
%RSD	344.5800	66.55872	727.2624	103.1433	91.98990	121.8081	106.4575
#1	.0000429	-.000019	.003144	-.000211	.0000036	.0018397	.0159191
#2	.0000145	-.000114	.003005	-.000025	.0002108	.0051205	.0015317
#3	-.000027	-.000115	-.009032	-.000055	.0001253	-.000270	.0041467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005223**	**-.009195**	**.0001799**	**.0003293**	**-.258087**	**.0014075**	**-.000175**
Stddev	.0002217	.017067	.0003894	.0006079	.179672	.0029562	.000256
%RSD	42.44347	185.6080	216.4940	184.6372	69.61675	210.0330	145.6325
#1	.0007775	-.012401	.0002992	.0001076	-.074490	-.001970	-.000095
#2	.0004109	-.024432	.0004957	-.000137	-.266212	.003525	.000030
#3	.0003784	.009247	-.000255	.001017	-.433558	.002667	-.000461

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.037458**	**-.003491**	**.0028561**	**.0011705**	**.0008950**	**.0031207**	**-.000125**
Stddev	.028918	.000883	.0006366	.0001679	.0000911	.0017310	.001364
%RSD	77.19978	25.29461	22.29024	14.34848	10.17737	55.46755	1093.725
#1	-.070577	-.003268	.0035887	.0013638	.0009089	.0049837	-.001570
#2	-.017212	-.004465	.0024374	.0010875	.0009783	.0028164	.001141
#3	-.024586	-.002741	.0025421	.0010602	.0007977	.0015621	.000055

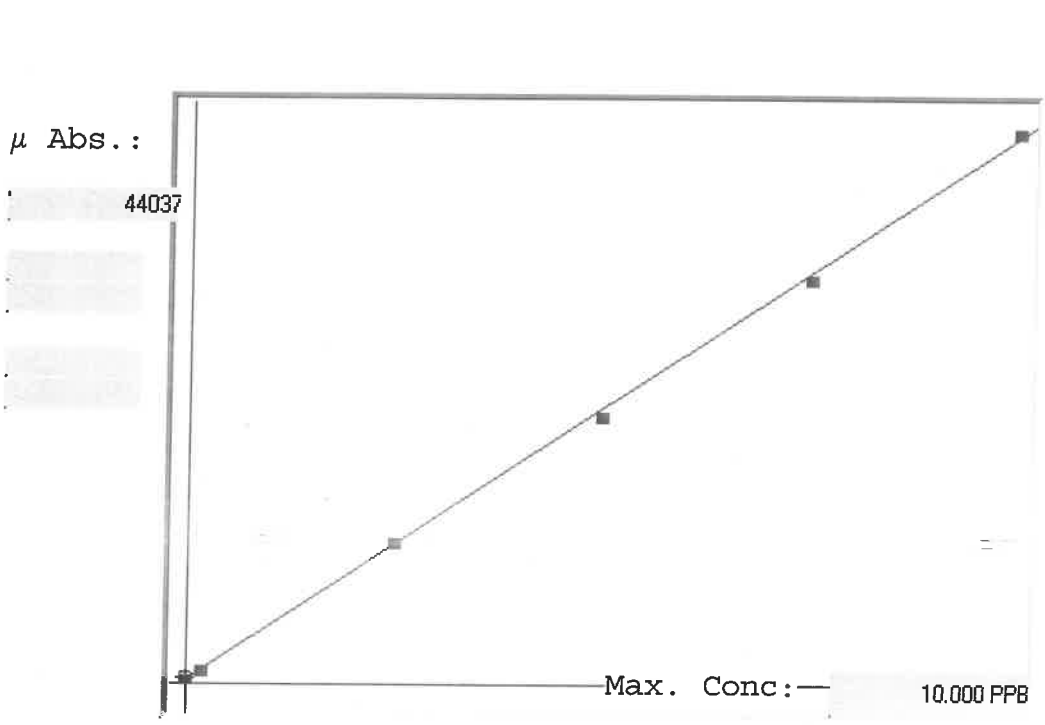
Sample Name: CCB06 Acquired: 07/31/2023 19:31:44 Type: Unk
Method: NON EPA-6010-200.7(v155) Mode: CONC Corr. Factor: 1.000000
User: BIN Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0010354	.0006804	.0002159
Stddev	.0009287	.0015231	.0001504
%RSD	89.69073	223.8558	69.65223
#1	.0020128	-.000880	.0003870
#2	.0001646	.002163	.0001566
#3	.0009289	.000758	.0001043

Int. Std.	Y_2243	Y_2243	Y_3600	Y_3710	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1308.519	1717.258	45378.44	7295.460	1831.955
Stddev	6.031	3.026	309.77	37.158	3.673
%RSD	.4608747	.1762162	.6826300	.5093303	.2005110
#1	1302.815	1718.444	45180.89	7253.010	1834.612
#2	1307.913	1719.511	45218.97	7322.090	1833.489
#3	1314.830	1713.818	45735.45	7311.280	1827.763

LB126505

7470A INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	o/o1)
0.0	0.000	0.037	0.037	458	0.000	458	0				1
0.2	0.200	0.206	0.006	1190	0.0 %	1190					3
2.5	2.500	2.549	0.049	11335	0.0 %	11335					2
5.0	5.000	4.889	-0.111	21469	0.0 %	21469					2
7.5	7.500	7.417	-0.083	32415	0.0 %	32415					1
10.0	10.000	10.102	0.102	44037	0.0 %	44037					1

LB126505 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 19 Jul 2023 09:04:32

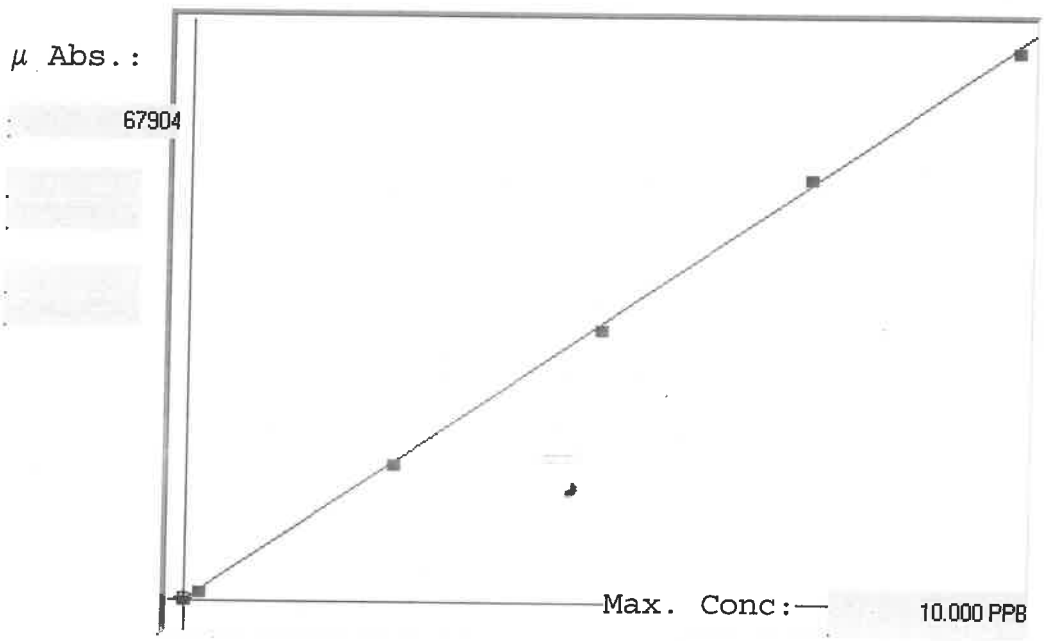
Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	458	-	0.0000	7470A	PPB	19 Jul 2023 09:36:19	S	Std
0.2 - 1	50.2	1190	-	0.2000	7470A	PPB	19 Jul 2023 09:38:38	S	Std
2.5 - 1	52.5	11335	-	2.5000	7470A	PPB	19 Jul 2023 09:40:55	S	Std
5.0 - 1	5 5	21469	-	5.0000	7470A	PPB	19 Jul 2023 09:43:13	S	Std
7.5 - 1	57.5	32415	-	7.5000	7470A	PPB	19 Jul 2023 09:45:29	S	Std
10.0 - 1	510	44037	-	10.0000	7470A	PPB	19 Jul 2023 09:47:44	S	Std
ICV75 - 1	ICV75	18637	4.2353		-7470A	PPB	19 Jul 2023 09:50:39	U	SMPL
ICB75 - 1	ICB75	156	-0.0329		-7470A	PPB	19 Jul 2023 09:52:54	U	SMPL
CCV61 - 1	CCV61	21372	4.8670		-7470A	PPB	19 Jul 2023 09:55:08	U	SMPL
CCB61 - 1	CCB61	183	-0.0267		-7470A	PPB	19 Jul 2023 09:57:24	U	SMPL
CRA - 1	CRA	1145	0.1955		-7470A	PPB	19 Jul 2023 09:59:40	U	SMPL
HighStd - 1	HighStd	44434	10.1933		-7470A	PPB	19 Jul 2023 10:01:55	U	SMPL
ChkStd - 1	ChkStd	30652	7.0103		-7470A	PPB	19 Jul 2023 10:04:10	U	SMPL
PB154279BL - 1	PBW	409	0.0255		-7470A	PPB	19 Jul 2023 10:06:26	U	SMPL
PB154279BS - 1	LCSW	15791	3.5780		-7470A	PPB	19 Jul 2023 10:08:42	U	SMPL
O3637-01 - 1	A508	12967	2.9258		-7470A	PPB	19 Jul 2023 10:11:00	U	SMPL
O3637-01DUP - 1	A508DUP	11053	2.4838		-7470A	PPB	19 Jul 2023 10:13:16	U	SMPL
O3637-01MS - 1	A508MS	27870	6.3677		-7470A	PPB	19 Jul 2023 10:15:39	U	SMPL
O3637-01MSD - 1	A508MSD	27991	6.3957		-7470A	PPB	19 Jul 2023 10:17:59	U	SMPL
O3645-08 - 1	RINSATE-BLANK	273	-0.0059		-7470A	PPB	19 Jul 2023 10:20:15	U	SMPL
CCV62 - 1	CCV62	21403	4.8742		-7470A	PPB	19 Jul 2023 10:22:32	U	SMPL
CCB62 - 1	CCB62	237	-0.0142		-7470A	PPB	19 Jul 2023 10:24:49	U	SMPL
O3637-01LX5 - 1		2369	0.4782		-7470A	PPB	19 Jul 2023 10:27:04	U	SMPL
O3637-01A - 1		29083	6.6479		-7470A	PPB	19 Jul 2023 10:29:19	U	SMPL
CCV63 - 1	CCV63	21530	4.9035		-7470A	PPB	19 Jul 2023 10:31:34	U	SMPL
CCB63 - 1	CCB63	217	-0.0188		-7470A	PPB	19 Jul 2023 10:33:51	U	SMPL

LB126507

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.4636e-004

C= -8.0446e-003

Rho= 0.9997978

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	O/D
0.0	0.000	0.042	0.042	339	0.000	339					-12
0.2	0.200	0.177	-0.023	1264	0.0 %	1264					-1
2.5	2.500	2.478	-0.022	16985	0.0 %	16985					-1
5.0	5.000	4.930	-0.070	33742	0.0 %	33742					2
7.5	7.500	7.643	0.143	52279	0.0 %	52279					-1
10.0	10.000	9.930	-0.070	67904	0.0 %	67904					

LB126507 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 19 Jul 2023 11:24:06

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	339	-	0.00000	7471B	PPB	19 Jul 2023 11:32:21	S	Std
0.2 - 1	50.2	1264	-	0.20000	7471B	PPB	19 Jul 2023 11:34:37	S	Std
2.5 - 1	52.5	16985	-	2.50000	7471B	PPB	19 Jul 2023 11:36:55	S	Std
5.0 - 1	55	33742	-	5.00000	7471B	PPB	19 Jul 2023 11:39:12	S	Std
7.5 - 1	57.5	52279	-	7.50000	7471B	PPB	19 Jul 2023 11:44:10	S	Std
10.0 - 1	510	67904	-	10.00000	7471B	PPB	19 Jul 2023 11:46:26	S	Std
ICV76 - 1	ICV76	28355	4.1419	-	7471B	PPB	19 Jul 2023 11:49:14	U	SMPL
ICB76 - 1	ICB76	173	0.0173	-	7471B	PPB	19 Jul 2023 11:51:28	U	SMPL
CCV64 - 1	CCV64	33151	4.8438	-	7471B	PPB	19 Jul 2023 11:53:43	U	SMPL
CCB64 - 1	CCB64	171	0.0170	-	7471B	PPB	19 Jul 2023 11:55:58	U	SMPL
CRA - 1	CRA	1245	0.1742	-	7471B	PPB	19 Jul 2023 11:58:14	U	SMPL
HighStd - 1	HighStd	67557	9.8793	-	7471B	PPB	19 Jul 2023 12:00:29	U	SMPL
ChkStd - 1	ChkStd	47342	6.9207	-	7471B	PPB	19 Jul 2023 12:05:33	U	SMPL
PB154277BL - 1	PBS	-7	-0.0091	-	7471B	PPB	19 Jul 2023 12:07:48	U	SMPL
PB154277BS - 1	LCSS	26066	3.8069	-	7471B	PPB	19 Jul 2023 12:10:06	U	SMPL
O3638-01 - 1	TP1	8527	1.2399	-	7471B	PPB	19 Jul 2023 12:12:22	U	SMPL
O3638-01DUP - 1	TP1DUP	8138	1.1830	-	7471B	PPB	19 Jul 2023 12:14:38	U	SMPL
O3638-01MS - 1	TP1MS	36230	5.2944	-	7471B	PPB	19 Jul 2023 12:16:54	U	SMPL
O3638-01MSD - 1	TP1MSD	33099	4.8362	-	7471B	PPB	19 Jul 2023 12:19:11	U	SMPL
O3638-11 - 1	TP2	73607	10.7648	-	7471B	PPB	19 Jul 2023 12:21:27	U	SMPL
CCV65 - 1	CCV65	33287	4.8637	-	7471B	PPB	19 Jul 2023 12:23:42	U	SMPL
CCB65 - 1	CCB65	183	0.0187	-	7471B	PPB	19 Jul 2023 12:25:59	U	SMPL
O3638-21 - 1	TP6	8600	1.2506	-	7471B	PPB	19 Jul 2023 12:28:14	U	SMPL
O3638-31 - 1	TP7	3915	0.5649	-	7471B	PPB	19 Jul 2023 12:30:29	U	SMPL
O3639-01 - 1	TP3	5498	0.7966	-	7471B	PPB	19 Jul 2023 12:32:44	U	SMPL
O3639-11 - 1	TP4	4307	0.6223	-	7471B	PPB	19 Jul 2023 12:34:59	U	SMPL
O3639-21 - 1	TP5	2200	0.3139	-	7471B	PPB	19 Jul 2023 12:37:15	U	SMPL
O3639-31 - 1	TP10	2584	0.3701	-	7471B	PPB	19 Jul 2023 12:39:31	U	SMPL
O3640-01 - 1	TP9	3109	0.4470	-	7471B	PPB	19 Jul 2023 12:41:48	U	SMPL
O3640-11 - 1	TP8	4125	0.5957	-	7471B	PPB	19 Jul 2023 12:44:05	U	SMPL
O3640-21 - 1	TP12	8828	1.2840	-	7471B	PPB	19 Jul 2023 12:46:22	U	SMPL
O3640-31 - 1	TP11	8550	1.2433	-	7471B	PPB	19 Jul 2023 12:48:37	U	SMPL
CCV66 - 1	CCV66	33365	4.8751	-	7471B	PPB	19 Jul 2023 12:50:52	U	SMPL
CCB66 - 1	CCB66	180	0.0183	-	7471B	PPB	19 Jul 2023 12:53:08	U	SMPL
O3641-01 - 1	TP13	3222	0.4635	-	7471B	PPB	19 Jul 2023 12:55:25	U	SMPL
O3641-11 - 1	TP14	4380	0.6330	-	7471B	PPB	19 Jul 2023 12:57:40	U	SMPL
O3641-21 - 1	TP16	1515	0.2137	-	7471B	PPB	19 Jul 2023 12:59:55	U	SMPL
O3641-31 - 1	TP15	3203	0.4607	-	7471B	PPB	19 Jul 2023 13:02:11	U	SMPL
PB154278BL - 1	PBS	40	-0.0022	-	7471B	PPB	19 Jul 2023 13:04:26	U	SMPL
PB154278BS - 1	LCSS	25283	3.6923	-	7471B	PPB	19 Jul 2023 13:06:43	U	SMPL
O3645-01 - 1	SB-02-(3-5)	8016	1.1651	-	7471B	PPB	19 Jul 2023 13:08:59	U	SMPL
O3645-02 - 1	SB-04-(1-5)	416001	HIGH	-	7471B	PPB	19 Jul 2023 13:11:16	X	
O3645-02DUP - 1	SB-04-(1-5)DUP	470209	HIGH	-	7471B	PPB	19 Jul 2023 13:13:05	X	
O3645-03 - 1	SB-07-(1-3)	7255	1.0538	-	7471B	PPB	19 Jul 2023 13:14:55	U	SMPL
CCV67 - 1	CCV67	33624	4.9130	-	7471B	PPB	19 Jul 2023 13:17:13	U	SMPL
CCB67 - 1	CCB67	121	0.0097	-	7471B	PPB	19 Jul 2023 13:19:28	U	SMPL
O3645-04 - 1	SB-08-(10.5-2.0)	131395	19.2224	-	7471B	PPB	19 Jul 2023 13:21:43	U	SMPL
O3645-05 - 1	SB-09-(2.0-4.0)	21697	3.1674	-	7471B	PPB	19 Jul 2023 13:23:58	U	SMPL
O3645-06 - 1	SB-10-(0.5-2.0)	1656084	HIGH	-	7471B	PPB	19 Jul 2023 13:26:16	X	
O3645-07 - 1	DUP	4411	0.6375	-	7471B	PPB	19 Jul 2023 13:28:03	U	SMPL
O3645-09 - 1	O3645-02MS	536504	HIGH	-	7471B	PPB	19 Jul 2023 13:32:09	X	
O3645-10 - 1	O3645-02MSD	418918	HIGH	-	7471B	PPB	19 Jul 2023 13:33:59	X	
O3646-01 - 1	GATE-1	6473	0.9393	-	7471B	PPB	19 Jul 2023 13:35:50	U	SMPL
O3646-04 - 1	YARD-1	4535	0.6557	-	7471B	PPB	19 Jul 2023 13:38:09	U	SMPL
O3647-01 - 1	SAMPLE-1	2665	0.3820	-	7471B	PPB	19 Jul 2023 13:40:25	U	SMPL
O3648-01 - 1	OK-01-071723	615	0.0820	-	7471B	PPB	19 Jul 2023 13:42:40	U	SMPL
CCV68 - 1	CCV68	33953	4.9612	-	7471B	PPB	19 Jul 2023 13:44:56	U	SMPL
CCB68 - 1	CCB68	-21	-0.0111	-	7471B	PPB	19 Jul 2023 13:47:11	U	SMPL
O3652-01 - 1	TP19	1375	0.1932	-	7471B	PPB	19 Jul 2023 13:49:27	U	SMPL
O3652-11 - 1	TP18	2519	0.3606	-	7471B	PPB	19 Jul 2023 13:51:42	U	SMPL
O3652-21 - 1	TP17	1827	0.2593	-	7471B	PPB	19 Jul 2023 13:53:57	U	SMPL
O3653-01 - 1	TP20	1068	0.1483	-	7471B	PPB	19 Jul 2023 13:56:13	U	SMPL
O3653-11 - 1	TP21	766	0.1041	-	7471B	PPB	19 Jul 2023 13:58:29	U	SMPL
O3653-21 - 1	TP22	1715	0.2430	-	7471B	PPB	19 Jul 2023 14:00:45	U	SMPL
O3654-01 - 1	72-12016	4851	0.7019	-	7471B	PPB	19 Jul 2023 14:03:01	U	SMPL
O3638-11DLX2 - 1		36528	5.3380	-	7471B	PPB	19 Jul 2023 14:05:18	U	SMPL
CCV69 - 1	CCV69	34450	5.0339	-	7471B	PPB	19 Jul 2023 14:07:35	U	SMPL
CCB69 - 1	CCB69	260	0.0300	-	7471B	PPB	19 Jul 2023 14:09:51	U	SMPL
O3638-01LX5 - 1		1539	0.2172	-	7471B	PPB	19 Jul 2023 14:12:06	U	SMPL
O3638-01A - 1		35144	5.1355	-	7471B	PPB	19 Jul 2023 14:14:23	U	SMPL
O3645-02LX5 - 1		120656	17.6507	-	7471B	PPB	19 Jul 2023 14:16:39	U	SMPL
O3645-02A - 1		472916	HIGH	-	7471B	PPB	19 Jul 2023 14:18:55	X	
O3645-02DLX10 - 1		61487	8.9909	-	7471B	PPB	19 Jul 2023 14:20:45	U	SMPL
O3645-02DUPDLX10 - 1		66575	9.7356	-	7471B	PPB	19 Jul 2023 14:25:41	U	SMPL
O3645-09DLX10 - 1		64041	9.3647	-	7471B	PPB	19 Jul 2023 14:27:56	U	SMPL
O3645-10DLX10 - 1		61623	9.0108	-	7471B	PPB	19 Jul 2023 14:30:12	U	SMPL
O3645-02LDLX50 - 1		12498	1.8211	-	7471B	PPB	19 Jul 2023 14:32:28	U	SMPL
O3645-02ADLX10 - 1		63641	9.3062	-	7471B	PPB	19 Jul 2023 14:40:17	U	SMPL
CCV70 - 1	CCV70	33773	4.9348	-	7471B	PPB	19 Jul 2023 14:42:34	U	SMPL
CCB70 - 1	CCB70	173	0.0173	-	7471B	PPB	19 Jul 2023 14:44:50	U	SMPL
O3645-04DLX5 - 1		28944	4.2281	-	7471B	PPB	19 Jul 2023 14:47:06	U	SMPL

LB126507 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 19 Jul 2023 11:24:06

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
O3645-06DLX10 - 1		1015414	HIGH		-7471B	PPB	19 Jul 2023 14:49:22	X	
O3645-06DL2X100 - 1		203836	29.8245		-7471B	PPB	19 Jul 2023 14:55:11	U	SMPL
O3645-06DL2X1000 - 1		21447	3.1308		-7471B	PPB	19 Jul 2023 14:57:27	U	SMPL
CCV71 - 1	CCV71	34588	5.0541		-7471B	PPB	19 Jul 2023 14:59:45	U	SMPL
CCB71 - 1	CCB71	59	0.0006		-7471B	PPB	19 Jul 2023 15:02:01	U	SMPL

CHEMTECH

Water Metals Preparation Sheet

PB154230

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK #3 2. N/A

Temp : 1. 96°C 2. N/A

Start Digest Date: 07/17/2023 **Time :** 12:00 **Temp :** 96 °C

End Digest Date: 07/17/2023 **Time :** 16:00 **Temp :** 96 °C

Digestion tube ID: M5586

Block thermometer ID: HG-DIG. #3

Dig Technician Signature:

Supervisor Signature: BH

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M5319
LFS-2	0.25	M5324
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	M5611
1:1 HCL	5.00	MP74325
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:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/17/23 16:05	Dig. Lab	BH / Metals Lab
	Preparation Group	Analysis Group

CHEMTECH

Water Metals Preparation Sheet

PB154230

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
O3616-01	FRAC-TOTE-COMP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3-1
O3637-01	A508	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	2
O3637-01DUP	A508DUP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3
O3637-01MS	A508MS	<2	50	50	Colorless	Colorless	Clear	Clear	M5319,M5324	4
O3637-01MSD	A508MSD	<2	50	50	Colorless	Colorless	Clear	Clear	M5319,M5324	5
O3645-08	RINSATE-BLANK	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	6
PB154230BL	PBW230	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	7
PB154230BS	LCS230	<2	50	50	Colorless	Colorless	Clear	Clear	M5319,M5324	8

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB154230 **WorkList ID :** 171933 **Department :** Digestion **Date :** 07-17-2023 11:13:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-08	RINSATE-BLANK	Water	Metals ICP-RCRA	1:1 HNO3 to pH < 2	LABE01	I11	07/12/2023	6010D
O3616-01	FRAC-TOTE-COMP	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I11	07/13/2023	6010D
O3637-01	A508	Water	Metals PSEG Group2	1:1 HNO3 to pH < 2	PSEG03	I11	07/14/2023	6010D

Date/Time 7/17/23 11:20
Raw Sample Received by: ATL Lab
Raw Sample Relinquished by:

Date/Time 7/17/23 12:10
Raw Sample Received by:
Raw Sample Relinquished by: ATL Lab

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB154232

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK#3 2. N/A

Temp : 1. 95°C 2. N/A

Start Digest Date: 07/18/2023 **Time :** 12:30 **Temp :** 95 °C

End Digest Date: 07/18/2023 **Time :** 15:30 **Temp :** 95 °C

Digestion tube ID: M5593

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: AJ

Supervisor Signature: BH

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M5319
LFS-2	1.00	M5324
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP75962
Conc. HNO3	5.00	M5611
30% H2O2	3.00	M5567
Conc. HCL	10.00	M5614
PTFE Boiling Stones	N/A	M5582
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:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/18/23 15:40	At Dig. Lab	BH / Metals lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB154232

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3641-01	TP13	N/A	2.38	100	Brown	Brown	Medium	No	N/A	3-1
O3641-11	TP14	N/A	2.07	100	Brown	Brown	Medium	No	N/A	2
O3641-21	TP16	N/A	2.17	100	Brown	Brown	Medium	No	N/A	3
O3641-31	TP15	N/A	2.42	100	Brown	Brown	Medium	No	N/A	4
O3645-01	SB-02-(3-5)	N/A	2.04	100	Brown	Brown	Medium	No	N/A	5
O3645-02	SB-04-(1-5)	N/A	2.44	100	Brown	Brown	Medium	No	N/A	6
O3645-02DUP	SB-04-(1-5)DUP	N/A	2.43	100	Brown	Brown	Medium	No	N/A	24
O3645-03	SB-07-(1-3)	N/A	2.36	100	Brown	Brown	Medium	No	N/A	7
O3645-04	SB-08-(10.5-2.0)	N/A	2.14	100	Brown	Brown	Medium	No	N/A	8
O3645-05	SB-09-(2.0-4.0)	N/A	2.32	100	Brown	Brown	Medium	No	N/A	9
O3645-06	SB-10-(0.5-2.0)	N/A	2.42	100	Brown	Brown	Medium	No	N/A	10
O3645-07	DUP	N/A	2.32	100	Brown	Brown	Medium	No	N/A	11
O3645-09	O3645-02MS	N/A	2.39	100	Brown	Brown	Medium	No	M5319,M5324	13
O3645-10	O3645-02MSD	N/A	2.42	100	Brown	Brown	Medium	No	M5319,M5324	14
O3646-01	GATE-1	N/A	2.32	100	Brown	Brown	Medium	No	N/A	15
O3646-04	YARD-1	N/A	2.24	100	Brown	Brown	Medium	No	N/A	16
O3647-01	SAMPLE-1	N/A	2.26	100	Brown	Brown	Medium	No	N/A	17
O3648-01	OK-01-071723	N/A	2.41	100	Brown	Brown	Medium	No	N/A	18
O3652-01	TP19	N/A	2.39	100	Brown	Brown	Medium	No	N/A	19
O3652-11	TP18	N/A	2.16	100	Brown	Brown	Medium	No	N/A	20
O3652-21	TP17	N/A	2.10	100	Brown	Brown	Medium	No	N/A	21
PB154232BL	PBS232	N/A	2.20	100	Colorless	Colorless	Fine	No	N/A	22
PB154232BS	LCS232	N/A	2.18	100	Colorless	Colorless	Fine	No	M5319,M5324	23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB154232 **WorkList ID :** 171935 **Department :** Digestion **Date :** 07-18-2023 11:18:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-01	SB-02-(3-5)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/12/2023	6010D
O3645-02	SB-04-(1-5)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/12/2023	6010D
O3645-03	SB-07-(1-3)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/13/2023	6010D
O3645-04	SB-08-(10.5-2.0)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/13/2023	6010D
O3645-05	SB-09-(2.0-4.0)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/13/2023	6010D
O3645-06	SB-10-(0.5-2.0)	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/13/2023	6010D
O3645-07	DUP	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/13/2023	6010D
O3645-09	O3645-02MS	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/12/2023	6010D
O3645-10	O3645-02MSD	Solid	Metals ICP-RCRA	Cool 4 deg C	LABE01	I11	07/12/2023	6010D
O3647-01	SAMPLE-1	Solid	Metals ICP-TAL	Cool 4 deg C	PREM01	I11	07/12/2023	6010D
O3641-01	TP13	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/13/2023	6010D
O3641-11	TP14	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/14/2023	6010D
O3641-21	TP16	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/14/2023	6010D
O3641-31	TP15	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/14/2023	6010D
O3646-01	GATE-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/14/2023	6010D
O3646-04	YARD-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/17/2023	6010D
O3652-01	TP19	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/17/2023	6010D
O3652-11	TP18	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/17/2023	6010D
O3652-21	TP17	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	I11	07/17/2023	6010D
O3648-01	OK-01-071723	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG05	I11	07/17/2023	6010D

Date/Time 7/18/23 11:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Date/Time 7/18/23 12:40
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154278

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Temp : 1. 95°C 2. N/A

Start Digest Date: 07/18/2023 **Time :** 13:30 **Temp :** 95 °C

End Digest Date: 07/18/2023 **Time :** 14:00 **Temp :** 94 °C

Digestion tube ID: M5586

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MG

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP76326
CCV	30mL	MP76328
CRA	30mL	MP76330
Blank Spike	0.48mL	MP76319
Matrix Spike	0.48mL	MP76319

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP76332
KMnO4	4.5mL	MP76339
Hydroxylamine HCL	2.0mL	MP76340
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP76320
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP76321
2.5 ppb	S2.5	30mL	MP76322
5.0 ppb	S5.0	30mL	MP76323
7.5 ppb	S7.5	30mL	MP76324
10.0 ppb	S10.0	30mL	MP76325
ICV	ICV	30mL	MP76326
ICB	ICB	30mL	MP76327
CCV	CCV	30mL	MP76328
CCB	CCB	30mL	MP76329
CRI	CRI	30mL	MP76330
CHK STD	CHK STD	30mL	MP76331

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/18/23 @ 14:40	MG - Dig. Lab	MG - MCW Lab
	Preparation Group	**Analysis Group**

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154278

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
O3645-01	SB-02-(3-5)	0.58	35	NA	N/A	3-22
O3645-02	SB-04-(1-5)	0.57	35	NA	N/A	23
O3645-02DUP	SB-04-(1-5)DUP	0.56	35	NA	N/A	24
O3645-03	SB-07-(1-3)	0.59	35	NA	N/A	25
O3645-04	SB-08-(10.5-2.0)	0.52	35	NA	N/A	26
O3645-05	SB-09-(2.0-4.0)	0.50	35	NA	N/A	27
O3645-06	SB-10-(0.5-2.0)	0.53	35	NA	N/A	28
O3645-07	DUP	0.54	35	NA	N/A	29
O3645-09	O3645-02MS	0.56	35	NA	MP76319	30
O3645-10	O3645-02MSD	0.56	35	NA	MP76319	31
O3646-01	GATE-1	0.60	35	NA	N/A	32
O3646-04	YARD-1	0.56	35	NA	N/A	33
O3647-01	SAMPLE-1	0.51	35	NA	N/A	34
O3648-01	OK-01-071723	0.52	35	NA	N/A	35
O3652-01	TP19	0.59	35	NA	N/A	36
O3652-11	TP18	0.51	35	NA	N/A	37
O3652-21	TP17	0.51	35	NA	N/A	38
O3653-01	TP20	0.60	35	NA	N/A	39
O3653-11	TP21	0.57	35	NA	N/A	40
O3653-21	TP22	0.50	35	NA	N/A	41
O3654-01	72-12016	0.53	35	NA	N/A	42
PB154278BL	PBS278	0.52	35	NA	N/A	43
PB154278BS	LCS278	0.56	35	NA	MP76319	44

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 071823_7471B **WorkList ID :** 171949 **Department :** Digestion **Date :** 07-18-2023 08:22:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-01	SB-02-(3-5)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/12/2023	7471B
O3645-02	SB-04-(1-5)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/12/2023	7471B
O3645-03	SB-07-(1-3)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/13/2023	7471B
O3645-04	SB-08-(10.5-2.0)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/13/2023	7471B
O3645-05	SB-09-(2.0-4.0)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/13/2023	7471B
O3645-06	SB-10-(0.5-2.0)	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/13/2023	7471B
O3645-07	DUP	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/12/2023	7471B
O3645-09	O3645-02MS	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/12/2023	7471B
O3645-10	O3645-02MSD	Solid	Mercury	Cool 4 deg C	LABE01	I11	07/12/2023	7471B
O3647-01	SAMPLE-1	Solid	Mercury	Cool 4 deg C	PREM01	I11	07/13/2023	7471B
O3646-01	GATE-1	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3646-04	YARD-1	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3652-01	TP19	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3652-11	TP18	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3652-21	TP17	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3653-01	TP20	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3653-11	TP21	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3653-21	TP22	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3654-01	72-12016	Solid	Mercury	Cool 4 deg C	PSEG03	I11	07/17/2023	7471B
O3648-01	OK-01-071723	Solid	Mercury	Cool 4 deg C	PSEG05	I11	07/17/2023	7471B

Date/Time 7/18/23 @ 12:50
Raw Sample Received by: MB - DIG LAB
Raw Sample Relinquished by: [signature]

Date/Time 7/18/23 @ 13:50
Raw Sample Received by: [signature]
Raw Sample Relinquished by: MB-DIG LAB

CHEMTECH

Water Mercury Preparation Sheet

PB154279

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Temp : 1. 95°C 2. N/A

Start Digest Date: 07/18/2023 **Time :** 15:40 **Temp :** 95 °C

End Digest Date: 07/18/2023 **Time :** 17:40 **Temp :** 94 °C

Digestion tube ID: M5586

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP76326
CCV	30mL	MP76328
CRA	30mL	MP76330
Blank Spike	0.48mL	MP76319
Matrix Spike	0.48mL	MP76319

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP76338
KMnO4	4.5mL	MP76339
K2S2O8	2.5mL	MP75998
Hydroxylamine HCL	2.0mL	MP76340
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP76320
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP76321
2.5 ppb	S2.5	30mL	MP76322
5.0 ppb	S5.0	30mL	MP76323
7.5 ppb	S7.5	30mL	MP76324
10.0 ppb	S10.0	30mL	MP76325
ICV	ICV	30mL	MP76326
ICB	ICB	30mL	MP76327
CCV	CCV	30mL	MP76328
CCB	CCB	30mL	MP76329
CRI	CRI	30mL	MP76330
CHK STD	CHK STD	30mL	MP76331

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/18/23 @ 18:10	MB Bldg. Lab	MB Orchard Lab
	Preparation Group	**Analysis Group**

CHEMTECH

Water Mercury Preparation Sheet

PB154279

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
O3637-01	A508	30	30	<2	N/A	3-1
O3637-01DUP	A508DUP	30	30	<2	N/A	2
O3637-01MS	A508MS	30	30	<2	MP76319	3
O3637-01MSD	A508MSD	30	30	<2	MP76319	4
O3645-08	RINSATE-BLANK	30	30	<2	N/A	5
PB154279BL	PBW279	30	30	<2	N/A	6
PB154279BS	LCS279	30	30	<2	MP76319	7

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 071723_7470 **WorkList ID :** 171938 **Department :** Digestion **Date :** 07-17-2023 12:03:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-08	RINSATE-BLANK	Water	Mercury	1:1 HNO3 to pH < 2	LABE01	I11	07/12/2023	7470A
O3637-01	A508	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I11	07/14/2023	7470A

Date/Time 7/18/23 15:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 7/18/23 16:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3638-01	TP1	1	1.15	8.81	9.96	9.14	90.7	
O3638-03	TP1-A	2	1.15	8.60	9.75	8.52	85.7	
O3638-04	TP1-B	3	1.13	8.60	9.73	8.88	90.1	
O3638-05	TP1-C	4	1.13	8.58	9.71	8.74	88.7	
O3638-06	TP1-D	5	1.12	8.51	9.63	8.58	87.7	
O3638-07	TP1-E	6	1.13	8.72	9.85	9.05	90.8	
O3638-08	TP1-F	7	1.16	8.47	9.63	8.47	86.3	
O3638-09	TP1-G	8	1.14	8.79	9.93	9.16	91.2	
O3638-10	TP1-H	9	1.12	8.44	9.56	8.55	88.0	
O3638-11	TP2	10	1.12	8.65	9.77	8.52	85.5	
O3638-13	TP2-A	11	1.15	8.81	9.96	8.99	89.0	
O3638-14	TP2-B	12	1.13	8.45	9.58	8.38	85.8	
O3638-15	TP2-C	13	1.12	8.66	9.78	8.55	85.8	
O3638-16	TP2-D	14	1.18	8.50	9.68	8.68	88.2	
O3638-17	TP2-E	15	1.18	8.54	9.72	8.52	85.9	
O3638-18	TP2-F	16	1.19	8.66	9.85	8.61	85.7	
O3638-19	TP2-G	17	1.15	8.80	9.95	8.69	85.7	
O3638-20	TP2-H	18	1.12	8.41	9.53	8.24	84.7	
O3638-21	TP6	19	1.14	8.82	9.96	9.31	92.6	
O3638-23	TP6-A	20	1.16	8.80	9.96	9.29	92.4	
O3638-24	TP6-B	21	1.11	8.55	9.66	8.72	89.0	
O3638-25	TP6-C	22	1.19	8.63	9.82	9.14	92.1	
O3638-26	TP6-D	23	1.12	8.71	9.83	8.84	88.6	
O3638-27	TP6-E	24	1.14	8.42	9.56	8.86	91.7	
O3638-28	TP6-F	25	1.11	8.86	9.97	9.24	91.8	
O3638-29	TP6-G	26	1.12	8.58	9.7	8.67	88.0	
O3638-30	TP6-H	27	1.14	8.84	9.98	9.22	91.4	
O3638-31	TP7	28	1.18	8.72	9.9	8.96	89.2	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3638-33	TP7-A	29	1.12	8.61	9.73	8.68	87.8	
O3638-34	TP7-B	30	1.11	8.52	9.63	8.6	87.9	
O3638-35	TP7-C	31	1.18	8.81	9.99	9.37	93.0	
O3638-36	TP7-D	32	1.11	8.86	9.97	8.76	86.3	
O3638-37	TP7-E	33	1.19	8.57	9.76	8.73	88.0	
O3638-38	TP7-F	34	1.19	8.52	9.71	8.72	88.4	
O3638-39	TP7-G	35	1.13	8.59	9.72	8.71	88.2	
O3638-40	TP7-H	36	1.15	8.83	9.98	9.14	90.5	
O3639-01	TP3	37	1.12	8.70	9.82	8.57	85.6	
O3639-03	TP3-A	38	1.12	8.68	9.8	8.48	84.8	
O3639-04	TP3-B	39	1.13	8.85	9.98	9.06	89.6	
O3639-05	TP3-C	40	1.18	8.72	9.9	8.53	84.3	
O3639-06	TP3-D	41	1.13	8.55	9.68	8.66	88.1	
O3639-07	TP3-E	42	1.19	8.41	9.6	8.48	86.7	
O3639-08	TP3-F	43	1.19	8.63	9.82	8.7	87.0	
O3639-09	TP3-G	44	1.18	8.68	9.86	8.74	87.1	
O3639-10	TP3-H	45	1.11	8.50	9.61	8.65	88.7	
O3639-11	TP4	46	1.19	8.53	9.72	8.67	87.7	
O3639-13	TP4-A	47	1.15	8.51	9.66	8.36	84.7	
O3639-14	TP4-B	48	1.14	8.55	9.69	8.6	87.3	
O3639-15	TP4-C	49	1.12	8.68	9.8	8.6	86.2	
O3639-16	TP4-D	50	1.19	8.72	9.91	8.81	87.4	
O3639-17	TP4-E	51	1.15	8.54	9.69	8.64	87.7	
O3639-18	TP4-F	52	1.12	8.65	9.77	8.72	87.9	
O3639-19	TP4-G	53	1.14	8.83	9.97	8.86	87.4	
O3639-20	TP4-H	54	1.12	8.85	9.97	8.65	85.1	
O3639-21	TP5	55	1.12	8.46	9.58	8.77	90.4	
O3639-23	TP5-A	56	1.14	8.81	9.95	9.28	92.4	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3639-24	TP5-B	57	1.17	8.60	9.77	8.97	90.7	
O3639-25	TP5-C	58	1.15	8.81	9.96	9.21	91.5	
O3639-26	TP5-D	59	1.15	8.38	9.53	8.79	91.2	
O3639-27	TP5-E	60	1.19	8.43	9.62	8.91	91.6	
O3639-28	TP5-F	61	1.19	8.55	9.74	9.00	91.3	
O3639-29	TP5-G	62	1.18	8.60	9.78	8.91	89.9	
O3639-30	TP5-H	63	1.12	8.47	9.59	8.7	89.5	
O3639-31	TP10	64	1.12	8.77	9.89	8.64	85.7	
O3639-33	TP10-A	65	1.15	8.60	9.75	8.63	87.0	
O3639-34	TP10-B	66	1.15	8.59	9.74	8.65	87.3	
O3639-35	TP10-C	67	1.17	8.60	9.77	8.63	86.7	
O3639-36	TP10-D	68	1.16	8.83	9.99	9.47	94.1	
O3639-37	TP10-E	69	1.19	8.57	9.76	8.63	86.8	
O3639-38	TP10-F	70	1.16	8.82	9.98	9.5	94.6	
O3639-39	TP10-G	71	1.16	8.77	9.93	8.78	86.9	
O3639-40	TP10-H	72	1.15	8.81	9.96	9.14	90.7	
O3640-01	TP9	73	1.12	8.47	9.59	8.72	89.7	
O3640-03	TP9-A	74	1.17	8.53	9.7	8.77	89.1	
O3640-04	TP9-B	75	1.15	8.82	9.97	9.34	92.9	
O3640-05	TP9-C	76	1.12	8.56	9.68	8.83	90.1	
O3640-06	TP9-D	77	1.11	8.69	9.8	8.88	89.4	
O3640-07	TP9-E	78	1.13	8.69	9.82	8.92	89.6	
O3640-08	TP9-F	79	1.16	8.83	9.99	9.41	93.4	
O3640-09	TP9-G	80	1.19	8.59	9.78	8.94	90.2	
O3640-10	TP9-H	81	1.19	8.60	9.79	8.93	90.0	
O3640-11	TP8	82	1.12	8.80	9.92	8.91	88.5	
O3640-13	TP8-A	83	1.11	8.88	9.99	9.55	95.0	
O3640-14	TP8-B	84	1.19	8.72	9.91	8.81	87.4	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

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Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3640-15	TP8-C	85	1.14	8.84	9.98	9.56	95.2	
O3640-16	TP8-D	86	1.19	8.70	9.89	8.79	87.4	
O3640-17	TP8-E	87	1.15	8.84	9.99	9.03	89.1	
O3640-18	TP8-F	88	1.12	8.45	9.57	8.58	88.3	
O3640-19	TP8-G	89	1.19	8.63	9.82	8.89	89.2	
O3640-20	TP8-H	90	1.14	8.53	9.67	8.59	87.3	
O3640-21	TP12	91	1.11	8.87	9.98	8.81	86.8	
O3640-23	TP12-A	92	1.16	8.60	9.76	8.56	86.0	
O3640-24	TP12-B	93	1.19	8.63	9.82	8.84	88.6	
O3640-25	TP12-C	94	1.17	8.52	9.69	8.66	87.9	
O3640-26	TP12-D	95	1.14	8.66	9.8	8.76	88.0	
O3640-27	TP12-E	96	1.16	8.48	9.64	8.65	88.3	
O3640-28	TP12-F	97	1.16	8.77	9.93	8.82	87.3	
O3640-29	TP12-G	98	1.12	8.45	9.57	8.41	86.3	
O3640-30	TP12-H	99	1.18	8.57	9.75	8.72	88.0	
O3640-31	TP11	100	1.12	8.62	9.74	8.7	87.9	
O3640-33	TP11-A	101	1.12	8.87	9.99	9.54	94.9	
O3640-34	TP11-B	102	1.14	8.83	9.97	8.7	85.6	
O3640-35	TP11-C	103	1.12	8.61	9.73	8.48	85.5	
O3640-36	TP11-D	104	1.15	8.79	9.94	9.1	90.4	
O3640-37	TP11-E	105	1.15	8.40	9.55	8.7	89.9	
O3640-38	TP11-F	106	1.15	8.82	9.97	8.96	88.5	
O3640-39	TP11-G	107	1.15	8.84	9.99	9.31	92.3	
O3640-40	TP11-H	108	1.17	8.59	9.76	8.82	89.1	
O3641-01	TP13	109	1.14	8.83	9.97	8.4	82.2	
O3641-03	TP13-A	110	1.19	8.47	9.66	8.34	84.4	
O3641-04	TP13-B	111	1.1	8.68	9.78	8.33	83.3	
O3641-05	TP13-C	112	1.13	8.37	9.5	8.15	83.9	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
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Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3641-06	TP13-D	113	1.17	8.58	9.75	8.28	82.9	
O3641-07	TP13-E	114	1.13	8.69	9.82	8.42	83.9	
O3641-08	TP13-F	115	1.19	8.47	9.66	8.02	80.6	
O3641-09	TP13-G	116	1.14	8.37	9.51	8.16	83.9	
O3641-10	TP13-H	117	1.12	8.63	9.75	8.4	84.4	
O3641-11	TP14	118	1.18	8.52	9.7	8.4	84.7	
O3641-13	TP14-A	119	1.12	8.72	9.84	8.67	86.6	
O3641-14	TP14-B	120	1.14	8.80	9.94	8.62	85.0	
O3641-15	TP14-C	121	1.16	8.41	9.57	8.31	85.0	
O3641-16	TP14-D	122	1.17	8.58	9.75	8.5	85.4	
O3641-17	TP14-E	123	1.17	8.45	9.62	8.33	84.7	
O3641-18	TP14-F	124	1.15	8.82	9.97	9.09	90.0	
O3641-19	TP14-G	125	1.18	8.54	9.72	8.54	86.2	
O3641-20	TP14-H	126	1.18	8.66	9.84	8.24	81.5	
O3641-21	TP16	127	1.18	8.54	9.72	8.6	86.9	
O3641-23	TP16-A	128	1.16	8.74	9.9	8.78	87.2	
O3641-24	TP16-B	129	1.19	8.55	9.74	7.9	78.5	
O3641-25	TP16-C	130	1.17	8.77	9.94	8.75	86.4	
O3641-26	TP16-D	131	1.19	8.53	9.72	8.53	86.0	
O3641-27	TP16-E	132	1.15	8.80	9.95	8.28	81.0	
O3641-28	TP16-F	133	1.19	8.50	9.69	7.71	76.7	
O3641-29	TP16-G	134	1.19	8.47	9.66	7.4	73.3	
O3641-30	TP16-H	135	1.15	8.37	9.52	7.47	75.5	
O3641-31	TP15	136	1.12	8.71	9.83	8.37	83.2	
O3641-33	TP15-A	137	1.12	8.46	9.58	7.86	79.7	
O3641-34	TP15-B	138	1.15	8.38	9.53	7.93	80.9	
O3641-35	TP15-C	139	1.17	8.50	9.67	8.06	81.1	
O3641-36	TP15-D	140	1.16	8.68	9.84	8.8	88.0	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
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Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3641-37	TP15-E	141	1.16	8.78	9.94	8.57	84.4	
O3641-38	TP15-F	142	1.15	8.84	9.99	8.4	82.0	
O3641-39	TP15-G	143	1.18	8.57	9.75	7.99	79.5	
O3641-40	TP15-H	144	1.15	8.80	9.95	8.32	81.5	
O3643-01	01A-01B-01C	145	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O3644-01	01A-01B-01C	146	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O3645-01	SB-02-(3-5)	147	1.15	8.81	9.96	8.75	86.3	
O3645-02	SB-04-(1-5)	148	1.15	8.36	9.51	8.78	91.3	
O3645-03	SB-07-(1-3)	149	1.13	8.75	9.88	8.09	79.5	
O3645-04	SB-08-(10.5-2.0)	150	1.13	8.40	9.53	7.4	74.6	
O3645-05	SB-09-(2.0-4.0)	151	1.19	8.71	9.9	8.11	79.4	
O3645-06	SB-10-(0.5-2.0)	152	1.19	8.43	9.62	8.21	83.3	
O3645-07	DUP	153	1.18	8.81	9.99	8.3	80.8	
O3645-09	O3645-02MS	154	1.15	8.36	9.51	8.78	91.3	
O3645-10	O3645-02MSD	155	1.15	8.36	9.51	8.78	91.3	
O3646-01	GATE-1	164	1.14	8.85	9.99	8.52	83.4	
O3646-03	GATE-1-EPH-2	165	1.12	8.85	9.97	8.53	83.7	
O3646-04	YARD-1	166	1.18	8.45	9.63	8.8	90.2	
O3646-06	YARD-1-EPH-2	167	1.1	8.79	9.89	8.36	82.6	
O3647-01	SAMPLE-1	156	1.16	8.50	9.66	8.89	90.9	
O3648-01	OK-01-071723	168	1.13	8.45	9.58	7.93	80.5	
O3648-02	OK-01-071723-EPH-2	169	1.13	8.45	9.58	7.93	80.5	
O3649-01	X182-S5	157	1.15	8.50	9.65	8.14	82.2	
O3649-02	X182-B4	158	1.15	8.81	9.96	8.58	84.3	
O3649-03	X182-S3	159	1.12	8.72	9.84	8.9	89.2	
O3649-04	X182-B3	160	1.13	8.53	9.66	8.51	86.5	
O3649-05	X182-B3-DUP	161	1.19	8.71	9.9	8.85	87.9	
O3649-06	X182-S4	162	1.16	8.83	9.99	9.39	93.2	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
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Weight Check 1.0g: 1.00
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OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3650-01	NWB-1933	163	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
O3654-01	72-12016	170	1.19	8.57	9.76	8.96	90.7	
O3654-03	72-12016-EPH-2	171	1.18	8.54	9.72	9.15	93.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

113126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3638-01	TP1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-03	TP1-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-04	TP1-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-05	TP1-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-06	TP1-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-07	TP1-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-08	TP1-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-09	TP1-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-10	TP1-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-11	TP2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-13	TP2-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-14	TP2-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-15	TP2-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-16	TP2-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-17	TP2-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-18	TP2-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-19	TP2-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-20	TP2-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-21	TP6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-23	TP6-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-24	TP6-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

Date/Time 07-17-23 ~~07-16-23~~ 15:00

Raw Sample Received by: JD (CCC)

Raw Sample Relinquished by: L. C (Sm)

Date/Time 07-17-23 ~~07-16-23~~ 17:20

Raw Sample Received by: L. C Sm

Raw Sample Relinquished by: JD (CCC)

VB 126475

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3638-25	TP6-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-26	TP6-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-27	TP6-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-28	TP6-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-29	TP6-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-30	TP6-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-31	TP7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-33	TP7-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-34	TP7-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-35	TP7-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-36	TP7-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-37	TP7-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-38	TP7-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-39	TP7-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-40	TP7-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-01	TP3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-03	TP3-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-04	TP3-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-05	TP3-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-06	TP3-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-07	TP3-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

JP 07-17-23

Date/Time 07-16-23 1510

Raw Sample Received by: JP COC

Raw Sample Relinquished by: L.C (Sm)

JP 07-17-23

Date/Time 07-16-23 1720

Raw Sample Received by: L.C (Sm)

Raw Sample Relinquished by: JP COC

VB 126475

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3639-08	TP3-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-09	TP3-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-10	TP3-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-11	TP4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-13	TP4-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-14	TP4-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-15	TP4-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-16	TP4-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-17	TP4-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-18	TP4-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-19	TP4-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-20	TP4-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-21	TP5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-23	TP5-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-24	TP5-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-25	TP5-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-26	TP5-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-27	TP5-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-28	TP5-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-29	TP5-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-30	TP5-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

JD 07-17-23

Date/Time ~~07-16-23~~ 15:00

Raw Sample Received by: JD (UPS)

Raw Sample Relinquished by: T.C (Son)

JD 07-17-23

Date/Time ~~07-16-23~~ 7:20

Raw Sample Received by: T.C (Son)

Raw Sample Relinquished by: JD (UPS)

WORKLIST(Hardcopy Internal Chain)

126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3639-31	TP10	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-33	TP10-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-34	TP10-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-35	TP10-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-36	TP10-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-37	TP10-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-38	TP10-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-39	TP10-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-40	TP10-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-01	TP9	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-03	TP9-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-04	TP9-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-05	TP9-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-06	TP9-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-07	TP9-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-08	TP9-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-09	TP9-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-10	TP9-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-11	TP8	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-13	TP8-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-14	TP8-B JP	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11 JP 07-17-23	07/14/2023	Chemtech -SO

Date/Time ~~07-16-23~~ 07-17-23 1510

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by: L.C (Sm)

Date/Time ~~07-16-23~~ 1420

Raw Sample Received by: L.C (Sm)

Raw Sample Relinquished by: JP (WC)

MB 126475

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3640-15	TP8-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-16	TP8-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-17	TP8-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-18	TP8-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-19	TP8-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-20	TP8-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-21	TP12	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-23	TP12-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-24	TP12-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-25	TP12-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-26	TP12-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-27	TP12-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-28	TP12-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-29	TP12-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-30	TP12-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-31	TP11	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-33	TP11-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-34	TP11-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-35	TP11-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-36	TP11-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-37	TP11-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

30

Date/Time 07-17-23 ~~07-16-23~~ 15:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: L.C (sm)

Date/Time 07-17-23 JP ~~07-16-23~~ 17:20

Raw Sample Received by: L.C (sm)

Raw Sample Relinquished by: JD (WC)

VB 126475

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3640-38	TP11-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-39	TP11-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-40	TP11-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-01	TP13	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-03	TP13-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-04	TP13-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-05	TP13-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-06	TP13-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-07	TP13-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-08	TP13-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-09	TP13-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-10	TP13-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-11	TP14	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-13	TP14-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-14	TP14-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-15	TP14-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-16	TP14-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-17	TP14-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-18	TP14-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-19	TP14-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-20	TP14-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

JD 07-17-23

Date/Time 07-16-23 15:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: L.C (Sm)

JD 07-17-23

Date/Time 07-16-23 17:40

Raw Sample Received by: L.C (Sm)

Raw Sample Relinquished by: JD (WC)

Page 6 of 9

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

WORKLIST(Hardcopy Internal Chain)

1B 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3641-21	TP16	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-23	TP16-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-24	TP16-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-25	TP16-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-26	TP16-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-27	TP16-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-28	TP16-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-29	TP16-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-30	TP16-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-31	TP15	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-33	TP15-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-34	TP15-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-35	TP15-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-36	TP15-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-37	TP15-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-38	TP15-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-39	TP15-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-40	TP15-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3643-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	I11	07/17/2023	Chemtech -SO
O3644-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	I11	07/17/2023	Chemtech -SO
O3645-01	SB-02-(3-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO

07-17-23 JP

Date/Time 07-16-23 15:00

Raw Sample Received by: JP (COC)

Raw Sample Relinquished by: T.C Sm

JP 07-17-23

Date/Time 07-16-23 17:20

Raw Sample Received by: T.C Sm

Raw Sample Relinquished by: JP (COC)

WORKLIST(Hardcopy Internal Chain)

VB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-02	SB-04-(1-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3645-03	SB-07-(1-3)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-04	SB-08-(10.5-2.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-05	SB-09-(2.0-4.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-06	SB-10-(0.5-2.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-07	DUP	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-09	O3645-02MS	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3645-10	O3645-02MSD	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3646-01	GATE-1	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3646-03	GATE-1-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3646-04	YARD-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3646-06	YARD-1-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3647-01	SAMPLE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3648-01	OK-01-071723	Solid	Percent Solids	Cool 4 deg C	PREM01	I11	07/13/2023	Chemtech -SO
O3648-02	OK-01-071723-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/17/2023	Chemtech -SO
O3649-01	X182-S5	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/17/2023	Chemtech -SO
O3649-02	X182-B4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-03	X182-S3	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-04	X182-B3	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-05	X182-B3-DUP	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-06	X182-S4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO

TP 07-17-23

Date/Time 07-16-23 15:00

Raw Sample Received by: JDC (COC)

Raw Sample Relinquished by: K. Cline

Date/Time 07-17-23 07-16-23 TP 17:20

Raw Sample Received by: K. Cline

Raw Sample Relinquished by: JDC (COC)

WORKLIST(Hardcopy Internal Chain)

NB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3650-01	NWB-1933	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3654-01	72-12016	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3654-03	72-12016-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO

07-17-23 JP

Date/Time ~~07-16-23~~ 15:00

Raw Sample Received by: JP (COC)

Raw Sample Relinquished by: L.C (sm)

JP 07-17-23

Date/Time ~~07-16-23~~ 17:20

Raw Sample Received by: L.C (sm)

Raw Sample Relinquished by: JP (COC)

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126505

Review By	jaswal	Review On	7/19/2023 1:06:06 PM
Supervise By	bin	Supervise On	7/19/2023 1:06:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/19/23 09:36		mohan	OK
2	S0.2	S0.2	CAL2	07/19/23 09:38		mohan	OK
3	S2.5	S2.5	CAL3	07/19/23 09:40		mohan	OK
4	S5	S5	CAL4	07/19/23 09:43		mohan	OK
5	S7.5	S7.5	CAL5	07/19/23 09:45		mohan	OK
6	S10	S10	CAL6	07/19/23 09:47		mohan	OK
7	ICV75	ICV75	ICV	07/19/23 09:50		mohan	OK
8	ICB75	ICB75	ICB	07/19/23 09:52		mohan	OK
9	CCV61	CCV61	CCV	07/19/23 09:55		mohan	OK
10	CCB61	CCB61	CCB	07/19/23 09:57		mohan	OK
11	CRA	CRA	CRDL	07/19/23 09:59		mohan	OK
12	HighStd	HighStd	HIGH STD	07/19/23 10:01		mohan	OK
13	ChkStd	ChkStd	SAM	07/19/23 10:04		mohan	OK
14	PB154279BL	PB154279BL	MB	07/19/23 10:06		mohan	OK
15	PB154279BS	PB154279BS	LCS	07/19/23 10:08		mohan	OK
16	O3637-01	A508	SAM	07/19/23 10:11		mohan	OK
17	O3637-01DUP	A508DUP	DUP	07/19/23 10:13		mohan	OK
18	O3637-01MS	A508MS	MS	07/19/23 10:15		mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126505

Review By	jaswal	Review On	7/19/2023 1:06:06 PM
Supervise By	bin	Supervise On	7/19/2023 1:06:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

19	O3637-01MSD	A508MSD	MSD	07/19/23 10:17		mohan	OK
20	O3645-08	RINSATE-BLANK	SAM	07/19/23 10:20		mohan	OK
21	CCV62	CCV62	CCV	07/19/23 10:22		mohan	OK
22	CCB62	CCB62	CCB	07/19/23 10:24		mohan	OK
23	O3637-01L	A508L	SD	07/19/23 10:27		mohan	OK
24	O3637-01A	A508A	PS	07/19/23 10:29		mohan	OK
25	CCV63	CCV63	CCV	07/19/23 10:31		mohan	OK
26	CCB63	CCB63	CCB	07/19/23 10:33		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126507

Review By	mohan	Review On	7/20/2023 10:40:29 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:54:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/19/23 11:32		mohan	OK
2	S0.2	S0.2	CAL2	07/19/23 11:34		mohan	OK
3	S2.5	S2.5	CAL3	07/19/23 11:36		mohan	OK
4	S5	S5	CAL4	07/19/23 11:39		mohan	OK
5	S7.5	S7.5	CAL5	07/19/23 11:44		mohan	OK
6	S10	S10	CAL6	07/19/23 11:46		mohan	OK
7	ICV76	ICV76	ICV	07/19/23 11:49		mohan	OK
8	ICB76	ICB76	ICB	07/19/23 11:51		mohan	OK
9	CCV64	CCV64	CCV	07/19/23 11:53		mohan	OK
10	CCB64	CCB64	CCB	07/19/23 11:55		mohan	OK
11	CRA	CRA	CRDL	07/19/23 11:58		mohan	OK
12	HighStd	HighStd	HIGH STD	07/19/23 12:00		mohan	OK
13	ChkStd	ChkStd	SAM	07/19/23 12:05		mohan	OK
14	PB154277BL	PB154277BL	MB	07/19/23 12:07		mohan	OK
15	PB154277BS	PB154277BS	LCS	07/19/23 12:10		mohan	OK
16	O3638-01	TP1	SAM	07/19/23 12:12		mohan	OK
17	O3638-01DUP	TP1DUP	DUP	07/19/23 12:14		mohan	OK
18	O3638-01MS	TP1MS	MS	07/19/23 12:16		mohan	OK

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Instrument ID: CV1

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Review By	mohan	Review On	7/20/2023 10:40:29 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:54:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

19	O3638-01MSD	TP1MSD	MSD	07/19/23 12:19		mohan	OK
20	O3638-11	TP2	SAM	07/19/23 12:21	Hg High	mohan	Dilution
21	CCV65	CCV65	CCV	07/19/23 12:23		mohan	OK
22	CCB65	CCB65	CCB	07/19/23 12:25		mohan	OK
23	O3638-21	TP6	SAM	07/19/23 12:28		mohan	OK
24	O3638-31	TP7	SAM	07/19/23 12:30		mohan	OK
25	O3639-01	TP3	SAM	07/19/23 12:32		mohan	OK
26	O3639-11	TP4	SAM	07/19/23 12:34		mohan	OK
27	O3639-21	TP5	SAM	07/19/23 12:37		mohan	OK
28	O3639-31	TP10	SAM	07/19/23 12:39		mohan	OK
29	O3640-01	TP9	SAM	07/19/23 12:41		mohan	OK
30	O3640-11	TP8	SAM	07/19/23 12:44		mohan	OK
31	O3640-21	TP12	SAM	07/19/23 12:46		mohan	OK
32	O3640-31	TP11	SAM	07/19/23 12:48		mohan	OK
33	CCV66	CCV66	CCV	07/19/23 12:50		mohan	OK
34	CCB66	CCB66	CCB	07/19/23 12:53		mohan	OK
35	O3641-01	TP13	SAM	07/19/23 12:55		mohan	OK
36	O3641-11	TP14	SAM	07/19/23 12:57		mohan	OK
37	O3641-21	TP16	SAM	07/19/23 12:59		mohan	OK
38	O3641-31	TP15	SAM	07/19/23 13:02		mohan	OK

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Review By	mohan	Review On	7/20/2023 10:40:29 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:54:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

39	PB154278BL	PB154278BL	MB	07/19/23 13:04		mohan	OK
40	PB154278BS	PB154278BS	LCS	07/19/23 13:06		mohan	OK
41	O3645-01	SB-02-(3-5)	SAM	07/19/23 13:08		mohan	OK
42	O3645-02	SB-04-(1-5)	SAM	07/19/23 13:11	Hg High	mohan	Dilution
43	O3645-02DUP	SB-04-(1-5)DUP	DUP	07/19/23 13:13	Hg High	mohan	Dilution
44	O3645-03	SB-07-(1-3)	SAM	07/19/23 13:14		mohan	OK
45	CCV67	CCV67	CCV	07/19/23 13:17		mohan	OK
46	CCB67	CCB67	CCB	07/19/23 13:19		mohan	OK
47	O3645-04	SB-08-(0.5-2.0)	SAM	07/19/23 13:21	Hg High	mohan	Dilution
48	O3645-05	SB-09-(2.0-4.0)	SAM	07/19/23 13:23		mohan	OK
49	O3645-06	SB-10-(0.5-2.0)	SAM	07/19/23 13:26	Hg High	mohan	Dilution
50	O3645-07	DUP	SAM	07/19/23 13:28		mohan	OK
51	O3645-09	SB-04-(1-5)MS	MS	07/19/23 13:32	Hg High	mohan	Dilution
52	O3645-10	SB-04-(1-5)MSD	MSD	07/19/23 13:33	Hg High	mohan	Dilution
53	O3646-01	GATE-1	SAM	07/19/23 13:35		mohan	OK
54	O3646-04	YARD-1	SAM	07/19/23 13:38		mohan	OK
55	O3647-01	SAMPLE-1	SAM	07/19/23 13:40		mohan	OK
56	O3648-01	OK-01-071723	SAM	07/19/23 13:42		mohan	OK
57	CCV68	CCV68	CCV	07/19/23 13:44		mohan	OK
58	CCB68	CCB68	CCB	07/19/23 13:47		mohan	OK

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Review By	mohan	Review On	7/20/2023 10:40:29 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:54:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

59	O3652-01	TP19	SAM	07/19/23 13:49		mohan	OK
60	O3652-11	TP18	SAM	07/19/23 13:51		mohan	OK
61	O3652-21	TP17	SAM	07/19/23 13:53		mohan	OK
62	O3653-01	TP20	SAM	07/19/23 13:56		mohan	OK
63	O3653-11	TP21	SAM	07/19/23 13:58		mohan	OK
64	O3653-21	TP22	SAM	07/19/23 14:00		mohan	OK
65	O3654-01	72-12016	SAM	07/19/23 14:03		mohan	OK
66	O3638-11DL	TP2DL	SAM	07/19/23 14:05	2X for Hg	mohan	Confirms
67	CCV69	CCV69	CCV	07/19/23 14:07		mohan	OK
68	CCB69	CCB69	CCB	07/19/23 14:09		mohan	OK
69	O3638-01L	TP1L	SD	07/19/23 14:12		mohan	OK
70	O3638-01A	TP1A	PS	07/19/23 14:14		mohan	OK
71	O3645-02L	SB-04-(1-5)L	SD	07/19/23 14:16	Hg High	mohan	Dilution
72	O3645-02A	SB-04-(1-5)A	PS	07/19/23 14:18		mohan	OK
73	O3645-02DL	SB-04-(1-5)DL	SAM	07/19/23 14:20	10X for Hg	mohan	Confirms
74	O3645-02DUPDL	SB-04-(1-5)DUPDL	DUP	07/19/23 14:25	10X for Hg	mohan	Confirms
75	O3645-09DL	SB-04-(1-5)MSDL	MS	07/19/23 14:27	10X for Hg	mohan	Confirms
76	O3645-10DL	SB-04-(1-5)MSDDL	MSD	07/19/23 14:30	10X for Hg	mohan	Confirms
77	O3645-02LDL	SB-04-(1-5)LDL	SD	07/19/23 14:32	50X for Hg	mohan	Confirms
78	O3645-02ADL	SB-04-(1-5)ADL	PS	07/19/23 14:40	Not Required	mohan	Not Ok

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126507

Review By	mohan	Review On	7/20/2023 10:40:29 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:54:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP76320,MP76321,MP76322,MP76323,MP76324,MP76325
ICV Standard	MP76326
CCV Standard	MP76328
ICSA Standard	
CRI Standard	MP76330
LCS Standard	
Chk Standard	MP76327,MP76329,MP76331,MP76341

79	CCV70	CCV70	CCV	07/19/23 14:42		mohan	OK
80	CCB70	CCB70	CCB	07/19/23 14:44		mohan	OK
81	O3645-04DL	SB-08-(0.5-2.0)DL	SAM	07/19/23 14:47	5X for Hg	mohan	Confirms
82	O3645-06DL	SB-10-(0.5-2.0)DL	SAM	07/19/23 14:49	10X for Hg , Still High	mohan	Dilution
83	O3645-06DL2	SB-10-(0.5-2.0)DL2	SAM	07/19/23 14:55	100X for Hg , Still High	mohan	Dilution
84	O3645-06DL3	SB-10-(0.5-2.0)DL3	SAM	07/19/23 14:57	1000X for Hg	mohan	Confirms
85	CCV71	CCV71	CCV	07/19/23 14:59		mohan	OK
86	CCB71	CCB71	CCB	07/19/23 15:02		mohan	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/19/23 12:25		BIN	OK
2	S1	S1	CAL2	07/19/23 12:29		BIN	OK
3	S2	S2	CAL3	07/19/23 12:33		BIN	OK
4	S3	S3	CAL4	07/19/23 12:37		BIN	OK
5	S4	S4	CAL5	07/19/23 12:41		BIN	OK
6	S5	S5	CAL6	07/19/23 12:45		BIN	OK
7	ICV01	ICV01	ICV	07/19/23 13:05	ICV Fail for Sb,Co,Mg,Ni,K,V (95-105) (200.7)	BIN	OK
8	ICB01	ICB01	ICB	07/19/23 13:13		BIN	OK
9	CRI01	CRI01	CRDL	07/19/23 13:17		BIN	OK
10	ICSA01	ICSA01	ICSA	07/19/23 13:21		BIN	OK
11	ICSAB01	ICSAB01	ICSAB	07/19/23 13:25		BIN	OK
12	ICSADL	ICSADL	ICSA	07/19/23 13:29		BIN	OK
13	ICSABDL	ICSABDL	ICSAB	07/19/23 13:33		BIN	OK
14	CCV01	CCV01	CCV	07/19/23 13:37		BIN	OK
15	LLCCV01	LLCCV01	LLCCV	07/19/23 13:45		BIN	OK
16	CCB01	CCB01	CCB	07/19/23 13:50		BIN	OK
17	O3596-01DL	001-WILLETS-PT-BL\	SAM	07/19/23 13:54	10X For Fe	BIN	Confirms
18	O3596-01DUPDL	001-WILLETS-PT-BL\	DUP	07/19/23 13:58	10X For Fe	BIN	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

19	O3596-01LDL	001-WILLETS-PT-BL	SD	07/19/23 14:02	Not Required	BIN	Not Ok
20	O3596-01MSDL	001-WILLETS-PT-BL	MS	07/19/23 14:06	10X For Fe	BIN	Confirms
21	O3596-01MSDDL	001-WILLETS-PT-BL	MSD	07/19/23 14:10	10X For Fe	BIN	Confirms
22	O3596-01ADL	001-WILLETS-PT-BL	PS	07/19/23 14:14	Not Required	BIN	Not Ok
23	O3582-01	MAIN-CELL	SAM	07/19/23 14:18		BIN	OK
24	O3582-02	EX-CELL	SAM	07/19/23 14:22		BIN	OK
25	O3637-01	A508	SAM	07/19/23 14:46		BIN	OK
26	O3637-01DUP	A508DUP	DUP	07/19/23 14:50		BIN	OK
27	CCV02	CCV02	CCV	07/19/23 14:54		BIN	OK
28	CCB02	CCB02	CCB	07/19/23 14:58		BIN	OK
29	O3637-01L	A508L	SD	07/19/23 15:02		BIN	OK
30	O3637-01MS	A508MS	MS	07/19/23 15:06		BIN	OK
31	O3637-01MSD	A508MSD	MSD	07/19/23 15:10		BIN	OK
32	O3637-01A	A508A	PS	07/19/23 15:13	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
33	PB154230BL	PB154230BL	MB	07/19/23 15:17		BIN	OK
34	PB154230BS	PB154230BS	LCS	07/19/23 15:21		BIN	OK
35	O3616-01	FRAC-TOTE-COMP	SAM	07/19/23 15:25		BIN	OK
36	O3632-01DL	SB-01-(2-4)DL	SAM	07/19/23 15:29	10X For Fe	BIN	Confirms
37	LR CHECK 2	LR CHECK 2	HIGH STD	07/19/23 15:59		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

38	CCV03	CCV03	CCV	07/19/23 16:03		BIN	OK
39	CCB03	CCB03	CCB	07/19/23 16:07		BIN	OK
40	PB154232BL	PB154232BL	MB	07/19/23 16:11		BIN	OK
41	PB154232BS	PB154232BS	LCS	07/19/23 16:15		BIN	OK
42	O3641-01	TP13	SAM	07/19/23 16:19		BIN	OK
43	O3641-11	TP14	SAM	07/19/23 16:23		BIN	OK
44	O3641-21	TP16	SAM	07/19/23 16:27		BIN	OK
45	O3641-31	TP15	SAM	07/19/23 16:31		BIN	OK
46	O3645-01	SB-02-(3-5)	SAM	07/19/23 16:35		BIN	OK
47	O3645-02	SB-04-(1-5)	SAM	07/19/23 16:39		BIN	OK
48	O3645-02DUP	SB-04-(1-5)DUP	DUP	07/19/23 16:43		BIN	OK
49	O3645-02L	SB-04-(1-5)L	SD	07/19/23 16:47		BIN	OK
50	CCV04	CCV04	CCV	07/19/23 16:51		BIN	OK
51	CCB04	CCB04	CCB	07/19/23 16:55		BIN	OK
52	O3645-09	SB-04-(1-5)MS	MS	07/19/23 16:59		BIN	OK
53	O3645-10	SB-04-(1-5)MSD	MSD	07/19/23 17:03		BIN	OK
54	O3645-02A	SB-04-(1-5)A	PS	07/19/23 17:07	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
55	O3645-03	SB-07-(1-3)	SAM	07/19/23 17:11		BIN	OK
56	O3645-04	SB-08-(0.5-2.0)	SAM	07/19/23 17:15		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

57	O3645-05	SB-09-(2.0-4.0)	SAM	07/19/23 17:19		BIN	OK
58	O3645-06	SB-10-(0.5-2.0)	SAM	07/19/23 17:23	Zn high	BIN	Dilution
59	O3645-07	DUP	SAM	07/19/23 17:27		BIN	OK
60	O3646-01	GATE-1	SAM	07/19/23 17:31		BIN	OK
61	LR CHECK 1	LR CHECK 1	HIGH STD	07/19/23 17:40		BIN	OK
62	CCV05	CCV05	CCV	07/19/23 17:44		BIN	OK
63	CCB05	CCB05	CCB	07/19/23 17:48		BIN	OK
64	O3646-04	YARD-1	SAM	07/19/23 17:52		BIN	OK
65	O3647-01	SAMPLE-1	SAM	07/19/23 17:56		BIN	OK
66	O3648-01	OK-01-071723	SAM	07/19/23 18:00		BIN	OK
67	O3652-01	TP19	SAM	07/19/23 18:04		BIN	OK
68	O3652-11	TP18	SAM	07/19/23 18:08		BIN	OK
69	O3652-21	TP17	SAM	07/19/23 18:12		BIN	OK
70	PB154274BL	PB154274BL	MB	07/19/23 18:16		BIN	OK
71	PB154274BS	PB154274BS	LCS	07/19/23 18:20		BIN	OK
72	O3653-01	TP20	SAM	07/19/23 18:24		BIN	OK
73	O3653-11	TP21	SAM	07/19/23 18:28		BIN	OK
74	CCV06	CCV06	CCV	07/19/23 18:39		BIN	OK
75	CCB06	CCB06	CCB	07/19/23 18:43		BIN	OK
76	O3653-21	TP22	SAM	07/19/23 18:47		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

77	O3654-01	72-12016	SAM	07/19/23 18:51		BIN	OK
78	O3654-01DUP	72-12016DUP	DUP	07/19/23 18:55		BIN	OK
79	O3654-01L	72-12016L	SD	07/19/23 18:59		BIN	OK
80	O3654-01MS	72-12016MS	MS	07/19/23 19:03		BIN	OK
81	O3654-01MSD	72-12016MSD	MSD	07/19/23 19:07		BIN	OK
82	O3654-01A	72-12016A	PS	07/19/23 19:10	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
83	O3655-01	MARION-COMP	SAM	07/19/23 19:14		BIN	OK
84	O3657-01	BERGENSWITCH-CC	SAM	07/19/23 19:18		BIN	OK
85	O3657-03	BERGENSWITCH-CC	SAM	07/19/23 19:22		BIN	OK
86	CCV07	CCV07	CCV	07/19/23 19:26		BIN	OK
87	CCB07	CCB07	CCB	07/19/23 19:30		BIN	OK
88	O3659-01	HR-2-071823	SAM	07/19/23 19:34		BIN	OK
89	O3659-03	HR-3-071823	SAM	07/19/23 19:38		BIN	OK
90	O3659-05	HR-4-071823	SAM	07/19/23 19:42		BIN	OK
91	O3662-01	BUR-1276	SAM	07/19/23 19:46		BIN	OK
92	O3680-01	TP-3	SAM	07/19/23 19:50		BIN	OK
93	PB154292BL	PB154292BL	MB	07/19/23 19:54		BIN	OK
94	PB154292BS	PB154292BS	LCS	07/19/23 19:58		BIN	OK
95	PB154272TB	PB154272TB	MB	07/19/23 20:02		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

96	O3646-02	GATE-1	SAM	07/19/23 20:06		BIN	OK
97	O3646-05	YARD-1	SAM	07/19/23 20:10		BIN	OK
98	CCV08	CCV08	CCV	07/19/23 20:14		BIN	OK
99	CCB08	CCB08	CCB	07/19/23 20:18		BIN	OK
100	O3652-02	TP19	SAM	07/19/23 20:22		BIN	OK
101	O3652-12	TP18	SAM	07/19/23 20:26		BIN	OK
102	O3652-22	TP17	SAM	07/19/23 20:30		BIN	OK
103	O3653-02	TP20	SAM	07/19/23 20:34		BIN	OK
104	O3653-12	TP21	SAM	07/19/23 20:38		BIN	OK
105	O3653-22	TP22	SAM	07/19/23 20:42		BIN	OK
106	O3654-02	72-12016	SAM	07/19/23 20:46		BIN	OK
107	O3654-02DUP	72-12016DUP	DUP	07/19/23 20:50		BIN	OK
108	O3654-02L	72-12016L	SD	07/19/23 20:55		BIN	OK
109	O3654-02MS	72-12016MS	MS	07/19/23 20:59		BIN	OK
110	CCV09	CCV09	CCV	07/19/23 21:03		BIN	OK
111	CCB09	CCB09	CCB	07/19/23 21:07		BIN	OK
112	O3654-02MSD	72-12016MSD	MSD	07/19/23 21:11		BIN	OK
113	O3654-02A	72-12016A	PS	07/19/23 21:15	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
114	CCV10	CCV10	CCV	07/19/23 21:19		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126517

Review By	bin	Review On	7/20/2023 10:55:21 AM
Supervise By	jaswal	Supervise On	7/20/2023 10:58:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP76316,MP76277,MP76274,MP76273,MP76272,MP76271
ICV Standard	MP76275
CCV Standard	MP76276
ICSA Standard	MP76269,MP76270
CRI Standard	
LCS Standard	
Chk Standard	MP76267,MP76268,MP76278,MP76279

115	CCB10	CCB10	CCB	07/19/23 21:22		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126674

Review By	jaswal	Review On	8/1/2023 5:53:51 AM
Supervise By	bin	Supervise On	8/1/2023 5:54:19 AM

STD. NAME	STD REF.#
ICAL Standard	MP76523,MP76469,MP76465,MP76464,MP76463,MP76461
ICV Standard	MP76466
CCV Standard	MP76467
ICSA Standard	MP76460,MP76461
CRI Standard	
LCS Standard	
Chk Standard	MP76458,MP76206,MP76470,MP76471

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/31/23 13:01		BIN	OK
2	S1	S1	CAL2	07/31/23 13:06		BIN	OK
3	S2	S2	CAL3	07/31/23 13:10		BIN	OK
4	S3	S3	CAL4	07/31/23 13:14		BIN	OK
5	S4	S4	CAL5	07/31/23 13:17		BIN	OK
6	S5	S5	CAL6	07/31/23 13:21		BIN	OK
7	ICV01	ICV01	ICV	07/31/23 13:25		BIN	OK
8	LLCCV01	LLCCV01	LLCCV	07/31/23 13:42		BIN	OK
9	ICB01	ICB01	ICB	07/31/23 13:47		BIN	OK
10	CRI01	CRI01	CRDL	07/31/23 13:51		BIN	OK
11	ICSA01	ICSA01	ICSA	07/31/23 13:55		BIN	OK
12	ICSAB01	ICSAB01	ICSAB	07/31/23 13:59		BIN	OK
13	CCV01	CCV01	CCV	07/31/23 14:03		BIN	OK
14	CCB01	CCB01	CCB	07/31/23 14:07		BIN	OK
15	O3784-01DL	OS-2DL	SAM	07/31/23 14:11	10X Ca,Mg	BIN	Confirms
16	PB154503BL	PB154503BL	MB	07/31/23 15:43	Not Use	BIN	Not Ok
17	PB154503BS	PB154503BS	LCS	07/31/23 15:47	Not Use	BIN	Not Ok
18	O3782-01	22-MW-01I	SAM	07/31/23 15:51	Not Use	BIN	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126674

Review By	jaswal	Review On	8/1/2023 5:53:51 AM
Supervise By	bin	Supervise On	8/1/2023 5:54:19 AM

STD. NAME	STD REF.#
ICAL Standard	MP76523,MP76469,MP76465,MP76464,MP76463,MP76461
ICV Standard	MP76466
CCV Standard	MP76467
ICSA Standard	MP76460,MP76461
CRI Standard	
LCS Standard	
Chk Standard	MP76458,MP76206,MP76470,MP76471

19	O3782-02	22-MW-01I	SAM	07/31/23 15:55	Not Use	BIN	Not Ok
20	O3782-03	LEA-6I	SAM	07/31/23 15:59		BIN	OK
21	O3782-04	LEA-6I	SAM	07/31/23 16:03		BIN	OK
22	O3782-05	22-MW-06S	SAM	07/31/23 16:07		BIN	OK
23	LR CHECK 2	LR CHECK 2	HIGH STD	07/31/23 16:11		BIN	OK
24	CCV02	CCV02	CCV	07/31/23 16:21		BIN	OK
25	CCB02	CCB02	CCB	07/31/23 16:25		BIN	OK
26	O3782-06	22-MW-06S	SAM	07/31/23 16:29		BIN	OK
27	O3782-15	EB-01	SAM	07/31/23 16:33		BIN	OK
28	O3782-16	EB-01	SAM	07/31/23 16:37		BIN	OK
29	O3808-01	1709	SAM	07/31/23 16:41		BIN	OK
30	O3808-01DUP	1709DUP	DUP	07/31/23 16:45		BIN	OK
31	O3808-01L	1709L	SD	07/31/23 16:49		BIN	OK
32	O3808-01MS	1709MS	MS	07/31/23 16:53		BIN	OK
33	O3808-01MSD	1709MSD	MSD	07/31/23 16:57		BIN	OK
34	O3808-01A	1709A	PS	07/31/23 17:01	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
35	O3808-09	1710-1715	SAM	07/31/23 17:05		BIN	OK
36	CCV03	CCV03	CCV	07/31/23 17:09		BIN	OK
37	CCB03	CCB03	CCB	07/31/23 17:13		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126674

Review By	jaswal	Review On	8/1/2023 5:53:51 AM
Supervise By	bin	Supervise On	8/1/2023 5:54:19 AM

STD. NAME	STD REF.#
ICAL Standard	MP76523,MP76469,MP76465,MP76464,MP76463,MP76461
ICV Standard	MP76466
CCV Standard	MP76467
ICSA Standard	MP76460,MP76461
CRI Standard	
LCS Standard	
Chk Standard	MP76458,MP76206,MP76470,MP76471

38	PB154504BL	PB154504BL	MB	07/31/23 17:17		BIN	OK
39	PB154504BS	PB154504BS	LCS	07/31/23 17:21		BIN	OK
40	O3645-08	RINSATE-BLANK	SAM	07/31/23 17:25		BIN	OK
41	LR CHECK 1	LR CHECK 1	HIGH STD	07/31/23 17:29		BIN	OK
42	O3810-01	B-P3A	SAM	07/31/23 17:33		BIN	OK
43	O3810-02	B-P3B	SAM	07/31/23 17:37		BIN	OK
44	O3810-03	B-P16A	SAM	07/31/23 17:41		BIN	OK
45	O3810-04	B-P16B	SAM	07/31/23 17:45		BIN	OK
46	O3810-05	B-P7A	SAM	07/31/23 17:49		BIN	OK
47	O3810-06	B-P7B	SAM	07/31/23 17:53		BIN	OK
48	CCV04	CCV04	CCV	07/31/23 17:57		BIN	OK
49	CCB04	CCB04	CCB	07/31/23 18:01		BIN	OK
50	O3810-07	B-P15B	SAM	07/31/23 18:05		BIN	OK
51	O3810-08	B-P1A	SAM	07/31/23 18:09		BIN	OK
52	O3810-09	B-P1B	SAM	07/31/23 18:13		BIN	OK
53	O3810-09DUP	B-P1BDUP	DUP	07/31/23 18:17		BIN	OK
54	O3810-09L	B-P1BL	SD	07/31/23 18:21		BIN	OK
55	O3810-09MS	B-P1BMS	MS	07/31/23 18:25		BIN	OK
56	O3810-09MSD	B-P1BMSD	MSD	07/31/23 18:29		BIN	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB126674

Review By	jaswal	Review On	8/1/2023 5:53:51 AM
Supervise By	bin	Supervise On	8/1/2023 5:54:19 AM

STD. NAME	STD REF.#
ICAL Standard	MP76523,MP76469,MP76465,MP76464,MP76463,MP76461
ICV Standard	MP76466
CCV Standard	MP76467
ICSA Standard	MP76460,MP76461
CRI Standard	
LCS Standard	
Chk Standard	MP76458,MP76206,MP76470,MP76471

57	O3810-09A	B-P1BA	PS	07/31/23 18:32	0.1 ml of LFS-1(M5319) and LFS-2(M5324) each into 10ml of original sample	BIN	OK
58	O3810-11	B-P08A	SAM	07/31/23 18:36		BIN	OK
59	O3810-12	B-P08B	SAM	07/31/23 18:40		BIN	OK
60	CCV05	CCV05	CCV	07/31/23 18:44		BIN	OK
61	CCB05	CCB05	CCB	07/31/23 18:48		BIN	OK
62	O3815-01	BUILDING-A-1-(0-5)	SAM	07/31/23 18:52	K High	BIN	Dilution
63	O3815-02	BUILDING-A-2-(0-5)	SAM	07/31/23 18:56		BIN	OK
64	O3815-03	DUP-01	SAM	07/31/23 19:00		BIN	OK
65	O3815-04	BUILDING-B-21-(0-5)	SAM	07/31/23 19:04	K High	BIN	Dilution
66	O3815-05	BUILDING-B-7-(0-5)	SAM	07/31/23 19:08	K High	BIN	Dilution
67	O3826-01	HR-01-072823	SAM	07/31/23 19:12		BIN	OK
68	O3833-01	82ND-1	SAM	07/31/23 19:15		BIN	OK
69	O3834-01	B-P2A	SAM	07/31/23 19:19		BIN	OK
70	O3834-02	B-P2B	SAM	07/31/23 19:23		BIN	OK
71	CCV06	CCV06	CCV	07/31/23 19:27		BIN	OK
72	CCB06	CCB06	CCB	07/31/23 19:31		BIN	OK

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Prep Standard - Chemical Standard Summary

Order ID : O3645

Test : Mercury,Metals ICP-RCRA

Prepbatch ID : PB154230,PB154232,PB154278,PB154279,

Sequence ID/Qc Batch ID: LB126505,LB126507,LB126517,LB126517,LB126517,LB126674,

Standard ID :
MP74325,MP75145,MP75962,MP75998,MP76077,MP76206,MP76266,MP76267,MP76268,MP76269,MP76270,MP762
71,MP76272,MP76273,MP76274,MP76275,MP76276,MP76277,MP76278,MP76279,MP76316,MP76319,MP76320,MP7
6321,MP76322,MP76323,MP76324,MP76325,MP76326,MP76327,MP76328,MP76329,MP76330,MP76331,MP76332,M
P76338,MP76339,MP76340,MP76341,MP76457,MP76458,MP76460,MP76461,MP76462,MP76463,MP76464,MP76465
,MP76466,MP76467,MP76468,MP76469,MP76470,MP76471,MP76523,

Chemical ID :
M4251,M4397,M4459,M4583,M4589,M4657,M4768,M4825,M4874,M4876,M4877,M4878,M4880,M4881,M4882,M4883,
M4884,M4885,M4886,M4888,M4889,M4891,M4893,M4901,M4916,M4920,M4939,M4960,M4961,M5019,M5020,M5062,
M5100,M5128,M5184,M5192,M5193,M5200,M5201,M5218,M5221,M5224,M5226,M5227,M5289,M5290,M5293,M5296,
M5298,M5319,M5324,M5387,M5394,M5429,M5449,M5452,M5468,M5469,M5513,M5521,M5527,M5528,M5557,M5567,
M5582,M5587,M5597,M5599,M5606,M5609,M5611,M5612,M5613,M5614,M5616,M5620,W2606,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP74325	03/09/2023	09/07/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 03/23/2023

FROM 1250.00000ml of M5449 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP75145	05/01/2023	08/31/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/02/2023

FROM 125.00000ml of M5452 + 2350.00000ml of W2606 + 25.00000ml of M5527 = 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
169	1:1HNO3	MP75962	06/23/2023	12/10/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 06/23/2023

FROM 1250.00000ml of M5587 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP75998	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000ml of M4397 + 2000.00000ml of W2606 = 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
2950	ICP AES S1/CRI STOCK STD	MP76077	06/29/2023	07/24/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 06/29/2023

FROM 0.03000ml of M4876 + 0.03000ml of M4877 + 0.05000ml of M4657 + 0.05000ml of M4885 + 0.05000ml of M4893 + 0.05000ml of M5298 + 0.06000ml of M4881 + 0.10000ml of M4874 + 0.10000ml of M4880 + 0.10000ml of M4883 + 0.10000ml of M4939 + 0.10000ml of M5184 + 0.10000ml of M5226 + 0.10000ml of M5469 + 0.15000ml of M4825 + 0.20000ml of M4768 + 0.20000ml of M4886 + 0.20000ml of M4888 + 0.20000ml of M4889 + 0.20000ml of M4891 + 0.20000ml of M5227 + 0.25000ml of M5224 + 0.50000ml of M4901 + 0.50000ml of M5387 + 1.00000ml of M4878 + 1.00000ml of M5193 + 1.00000ml of M5200 + 1.00000ml of M5201 + 1.00000ml of M5468 + 2.00000ml of M4882 + 2.00000ml of M4884 + 87.38000ml of MP75145 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP76206	07/03/2023	10/31/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/07/2023

FROM 1.00000ml of M4961 + 10.00000ml of M4960 + 1969.00000ml of W2606 + 20.00000ml of M5597 = 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP76266	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 125.00000ml of M5606 + 2350.00000ml of W2606 + 25.00000ml of M5609 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP76267	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 200.00000ml of M5609 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP76268	07/10/2023	10/31/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 1.00000ml of M4961 + 10.00000ml of M4960 + 1969.00000ml of W2606 + 20.00000ml of M5609 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP76269	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 10.00000ml of M5128 + 90.00000ml of MP76266 = 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
3494	ICP AES ICSAB SOLN-1	MP76270	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 0.10000ml of M4589 + 0.10000ml of M4880 + 0.10000ml of M4882 + 0.10000ml of M4939 + 0.10000ml of M5469 + 10.00000ml of M5128 + 10.00000ml of M5221 + 79.50000ml of MP76266 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP76271	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 5.00000ml of M4880 + 5.00000ml of M4882 + 5.00000ml of M4939 + 5.00000ml of M5100 + 5.00000ml of M5224 + 5.00000ml of M5296 + 5.00000ml of M5394 + 5.00000ml of M5469 + 460.00000ml of MP76266 = 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	MP76272	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 100.00000ml of MP76266 + 100.00000ml of MP76271 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP76273	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 150.00000ml of MP76266 + 50.00000ml of MP76271 = Final Quantity: 200.000 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	MP76274	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 16.00000ml of MP76271 + 184.00000ml of MP76266 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP76275	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 0.02500ml of M5019 + 0.02500ml of M5020 + 0.02500ml of M5429 + 0.25000ml of M5218 + 0.25000ml of M5469 + 10.00000ml of M5293 + 89.42500ml of MP76266 = 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	MP76276	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 100.00000ml of MP76266 + 100.00000ml of MP76271 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP76277	07/03/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 196.00000ml of MP75145 + 4.00000ml of MP76077 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3651	LR CHECK 1	MP76278	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 10.00000ml of M5201 + 18.00000ml of M5193 + 18.00000ml of M5200 + 18.00000ml of M5468 + 20.00000ml of M5289 + 9.00000ml of M5298 + 7.00000ml of MP75145 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3652	LR CHECK2	MP76279	07/10/2023	07/23/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/13/2023

FROM 10.00000ml of M5387 + 2.50000ml of M5513 + 25.00000ml of M5521 + 3.50000ml of M4891 + 4.50000ml of M5184 + 5.00000ml of M4768 + 54.50000ml of MP76266 = 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP76316	07/13/2023	07/19/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/18/2023

FROM 125.00000ml of M5557 + 235000.00000ml of W2606 + 25.00000ml of M5599 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76319	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 07/19/2023

FROM 1.00000ml of M5612 + 2.50000ml of M5062 + 96.50000ml of W2606 = 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	MP76320	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 247.50000ml of W2606 = 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	MP76321	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 247.30000ml of W2606 + 0.20000ml of MP76319 = 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	MP76322	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 245.00000ml of W2606 + 2.50000ml of MP76319 = 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	MP76323	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 242.50000ml of W2606 + 5.00000ml of MP76319 = 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	MP76324	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 240.00000ml of W2606 + 7.50000ml of MP76319 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76325	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 237.50000ml of W2606 + 10.00000ml of MP76319 = 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
1346	Hg ICV SOLUTION	MP76326	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5612 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76327	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 247.50000ml of W2606 = 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
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76328	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5612 + 10.00000ml of MP76319 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76329	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5612 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP76330	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 247.30000ml of W2606 + 0.20000ml of MP76319 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP76331	07/18/2023	07/19/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/19/2023

FROM 2.50000ml of M5612 + 240.50000ml of W2606 + 7.00000ml of MP76319 = 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
887	AQUA REGIA FOR HG ON 7471A	MP76332	07/18/2023	07/19/2023	Mohan Bera	None	None	Sarabjit Jaswal 07/19/2023

FROM 150.00000ml of M5557 + 50.00000ml of M5612 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP76338	07/18/2023	01/11/2024	Mohan Bera	None	None	Sarabjit Jaswal 07/19/2023

FROM 1600.00000ml of M5613 + 800.00000ml of M5612 = Final Quantity: 3200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP76339	07/18/2023	01/18/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/19/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP76340	07/18/2023	01/18/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/19/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4251 + 240.00000gram of M4459 = 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
68	STANNOUS CHLORIDE SOLUTION	MP76341	07/19/2023	07/20/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/19/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5557 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP76457	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 125.00000ml of M5614 + 2350.00000ml of W2606 + 25.00000ml of M5620 = 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
903	ICP AES RINSE SOLN	MP76458	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 200.00000ml of M5620 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP76460	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 10.00000ml of M5128 + 90.00000ml of MP76457 = 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
3494	ICP AES ICSAB SOLN-1	MP76461	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 0.10000ml of M4589 + 0.10000ml of M4880 + 0.10000ml of M4882 + 0.10000ml of M4939 + 0.10000ml of M5469 + 10.00000ml of M5128 + 10.00000ml of M5221 + 79.50000ml of MP76457 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP76462	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 455.00000ml of M4939 + 5.00000ml of M4880 + 5.00000ml of M4882 + 5.00000ml of M5100 + 5.00000ml of M5224 + 5.00000ml of M5296 + 5.00000ml of M5394 + 5.00000ml of M5469 + 5.00000ml of MP76457 = 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	MP76463	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 100.00000ml of MP76457 + 100.00000ml of MP76462 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP76464	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 150.00000ml of MP76457 + 50.00000ml of MP76462 = Final Quantity: 200.000 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	MP76465	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 16.00000ml of MP76462 + 184.00000ml of MP76457 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP76466	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 0.02500ml of M5019 + 0.02500ml of M5020 + 0.02500ml of M5429 + 0.25000ml of M5218 + 0.25000ml of M5469 + 10.00000ml of M5293 + 89.42500ml of MP76457 = 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	MP76467	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 100.00000ml of MP76457 + 100.00000ml of MP76462 = 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	MP76468	07/24/2023	08/26/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 0.03000ml of M4876 + 0.03000ml of M4877 + 0.05000ml of M4657 + 0.05000ml of M4885 + 0.05000ml of M5289 + 0.05000ml of M5298 + 0.06000ml of M4881 + 0.10000ml of M4874 + 0.10000ml of M4880 + 0.10000ml of M4883 + 0.10000ml of M4939 + 0.10000ml of M5184 + 0.10000ml of M5469 + 0.10000ml of M5521 + 0.15000ml of M4825 + 0.20000ml of M4886 + 0.20000ml of M4888 + 0.20000ml of M4889 + 0.20000ml of M4891 + 0.20000ml of M5227 + 0.25000ml of M5224 + 0.50000ml of M4901 + 0.50000ml of M5387 + 1.00000ml of M5192 + 1.00000ml of M5193 + 1.00000ml of M5200 + 1.00000ml of M5201 + 1.00000ml of M5290 + 2.00000ml of M4882 + 2.00000ml of M4884 + 87.58000ml of MP75145 = 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	MP76469	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 2.00000ml of MP76468 + 98.00000ml of MP76457 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3651	LR CHECK 1	MP76470	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 10.00000ml of M5201 + 18.00000ml of M5193 + 18.00000ml of M5200 + 18.00000ml of M5468 + 20.00000ml of M5289 + 9.00000ml of M5298 + 7.00000ml of MP76457 = 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
3652	LR CHECK2	MP76471	07/24/2023	08/06/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/25/2023

FROM 10.00000ml of M5387 + 2.50000ml of M5513 + 25.00000ml of M5521 + 3.50000ml of M4891 + 4.50000ml of M5184 + 54.50000ml of MP76457 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP76523	07/27/2023	08/02/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 07/28/2023

FROM 125.00000ml of M5616 + 2350.00000ml of W2606 + 25.00000ml of M5620 = Final Quantity: 2500.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	12/19/2018 / mohan	12/05/2018 / mohan	M4251

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000227540	09/24/2025	08/16/2019 / RICHARD	07/17/2019 / RICHARD	M4397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Labpure	0919120 / Boiling Stones	26275770	07/07/2025	07/03/2020 / mohan	05/07/2020 / mohan	M4583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	R2-MEB694243	06/29/2024	07/13/2020 / bin	07/02/2020 / bin	M4589

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	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

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	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

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	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

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	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

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	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4878

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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	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

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	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

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	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

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	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

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	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

CHEMICAL RECEIPT LOG BOOK

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	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

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	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	062321	06/23/2024	04/01/2022 / bin	06/25/2021 / jaswal	M4893

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	031921	03/19/2024	08/06/2021 / jaswal	08/06/2021 / jaswal	M4901

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

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	030221	03/02/2024	09/23/2021 / bin	09/22/2021 / bin	M4939

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58139 / Y, 10000 PPM, 500 ml	052521	05/25/2024	10/09/2021 / jaswal	01/25/2019 / jaswal	M4961

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	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

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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	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

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 #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	R2-MEB689870	02/14/2024	03/14/2022 / bin	04/29/2020 / bin	M5100

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	10/27/2023	04/27/2023 / jaswal	04/20/2021 / bin	M5128

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	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

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

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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.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

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	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

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	07/01/2024	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	10/27/2023	04/27/2023 / jaswal	04/20/2021 / bin	M5221

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	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

CHEMICAL RECEIPT LOG BOOK

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	022822	02/28/2025	06/15/2022 / bin	03/30/2022 / bin	M5226

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	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	071222	07/12/2025	09/02/2022 / jaswal	07/21/2022 / jaswal	M5290

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	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

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	09/19/2023	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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	S2-MEB710999	10/18/2025	06/07/2023 / bin	08/11/2022 / bin	M5319

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	R2-MEB693161	05/20/2024	06/07/2023 / bin	08/11/2022 / bin	M5324

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	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

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	11/28/2023	11/28/2022 / bin	09/19/2022 / bin	M5394

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

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)	22D1462006	09/07/2023	03/07/2023 / Al-Terek	02/24/2022 / Al-Terek	M5449

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)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

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	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

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	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

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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-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	10/17/2023	04/25/2023 / jaswal	01/13/2023 / Al-Terek	M5527

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	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

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)	22D1462006	11/26/2023	07/11/2023 / bin	02/24/2022 / Al-Terek	M5557

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	08/29/2024	06/01/2023 / jaswal	06/01/2023 / jaswal	M5567

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	06/11/2024	06/17/2023 / Al-Terek	06/12/2023 / jaswal	M5582

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)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

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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-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

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)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

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	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

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)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

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)	23B0262006	01/11/2024	07/25/2023 / Al-Terek	01/13/2023 / Al-Terek	M5611

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)	23B0262006	01/11/2024	07/17/2023 / jaswal	01/13/2023 / Al-Terek	M5612

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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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000265056	11/05/2025	07/13/2023 / mohan	07/07/2023 / mohan	M5613

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	01/18/2024	07/17/2023 / Al-Terek	04/11/2022 / Al-Terek	M5614

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	01/18/2024	07/26/2023 / mohan	04/11/2022 / Al-Terek	M5616

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)	23B0262006	01/25/2024	07/24/2023 / Al-Terek	01/13/2023 / Al-Terek	M5620

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5613
2B

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000265056
Manufactured Date: 2020/05/12
Retest Date: 2025/05/11
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	< 1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	< 1.0
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000265056

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	3.3
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	< 0.2
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	17.8
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	1.5
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

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:	R2-MEB689870
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 ± 0.24 µg/mL	Calcium, Ca	5 000 ± 20 µg/mL
Chromium, Cr	200.0 ± 1.2 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 ± 1.9 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Potassium, K	5 000 ± 18 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 18 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.1 µg/mL

Density: 1.116 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	EDTA	928	928
Co	ICP Assay	traceable to 3113	M2-CO661665
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	ICP 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:

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

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$u_{char\ a}$ = the errors from characterization

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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.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

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- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

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10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 14, 2020

- 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 14, 2024**

- The date after which this CRM/RM should not be used.

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12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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inorganicventures.com

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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.

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$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

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4.0 TRACEABILITY TO NIST

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- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

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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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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: _____

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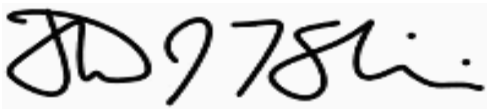
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

avantor™ | J.T.Baker®

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

M4251
JB

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Potassium Permanganate
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination

avantor™ | J.T.Baker®

M4397
Supplied – 07.17.19
Opened – 08.16.19
exp – 09.24.25

Material No.: 3227-05
Batch No.: 0000227540
Manufactured Date: 2018/09/26
Retest Date: 2025/09/24
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay ($KMnO_4$)	>= 99.0 %	99.0
ACS - Insoluble Matter	<= 0.2 %	< 0.1
ACS - Chloride and Chlorate (as Cl)	<= 0.005 %	0.005
ACS - Sulfate (SO_4)	<= 0.02 %	0.02
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	0.004

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

RS
08.16.19

James Ethier
Jamie Ethier
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Avantor Performance Materials, LLC
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M45P3
Expt 17 - 5784
MB

SAINT-GOBAIN

Manufacturer:
Saint-Gobain Performance Plastics
11 Sicho Drive
Poestenkill, NY 12140

Certificate of Conformance

Part Number/ Revision:	D1069103 / 0	**Customer Part Number/ Revision:**	1069103 / N/A
Description:	*PTFE BOILING STONES-450 GRAMS		
Lot Number:	26275770	**Lot Quantity:**	10 EA
Date of Manufacture (MM/DD/YY)	03/23/20	**Expiration Date: (MM/DD/YY)**	N/A
Post Processing Run Number: (Refer to the attached Certificate for Additional Detail)		N/A	

We certify the material listed above confirms in full with the following specifications:

All items have been manufactured, inspected, tested, and accepted in accordance with our Quality Management system, ISO 9001-2015. Documentation substantiating this certification is kept on record per the Company's retention policy and is available for review.
All materials and processes used in manufacturing conform to the materials and/or manufacturing specifications and notes indicated on the purchase order, drawing, specifications, quality assurance requirements, or other applicable documents effective on the date of manufacture.
Saint-Gobain does not warrant the product for any particular application and it is the responsibility of the user to conduct tests that are deemed necessary to determine the suitability of the product for any particular use. Saint-Gobain's sole responsibility shall be for failure to manufacture the product in accordance with specifications and requirements of the buyer, and from defects in material and workmanship. This warranty is expressly made in lieu of any and all other warranties and Saint-Gobain's sole liability shall be to replace any product not in conformance with the specification and requirements of the buyer.

Quality Approval:	Jonathan Kowalka	**Date:**	05/13/20

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	R2-MEB694243
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 ± 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	**1 000 ± 7 µg/mL**		

Density: 1.031 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 follow ing 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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

June 29, 2020

- 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 29, 2024**

- 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

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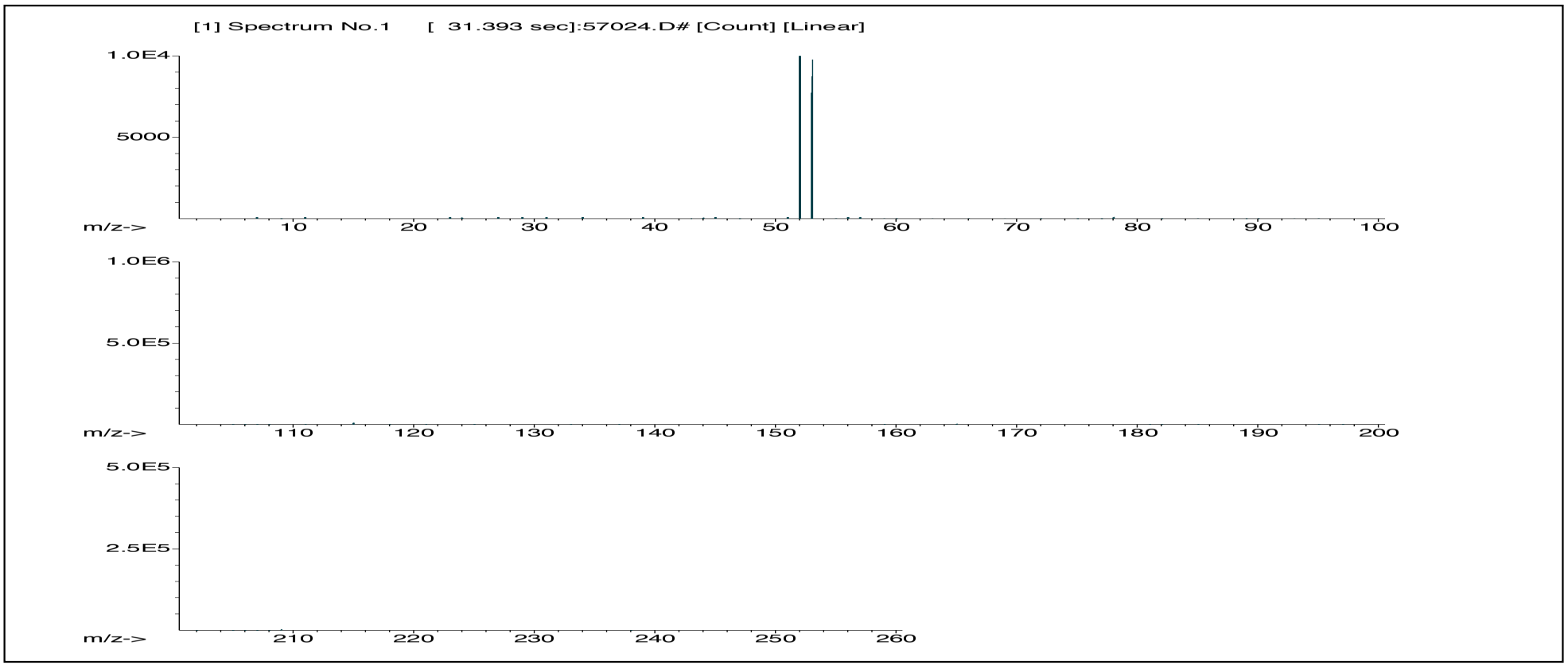
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	19410105	Nitric Acid	
Lot Number:	**082620**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	082623			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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	121619	0.1000	200.0	0.084	1000	10000.2	**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 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	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M4768 R: 10/28/2020 BH

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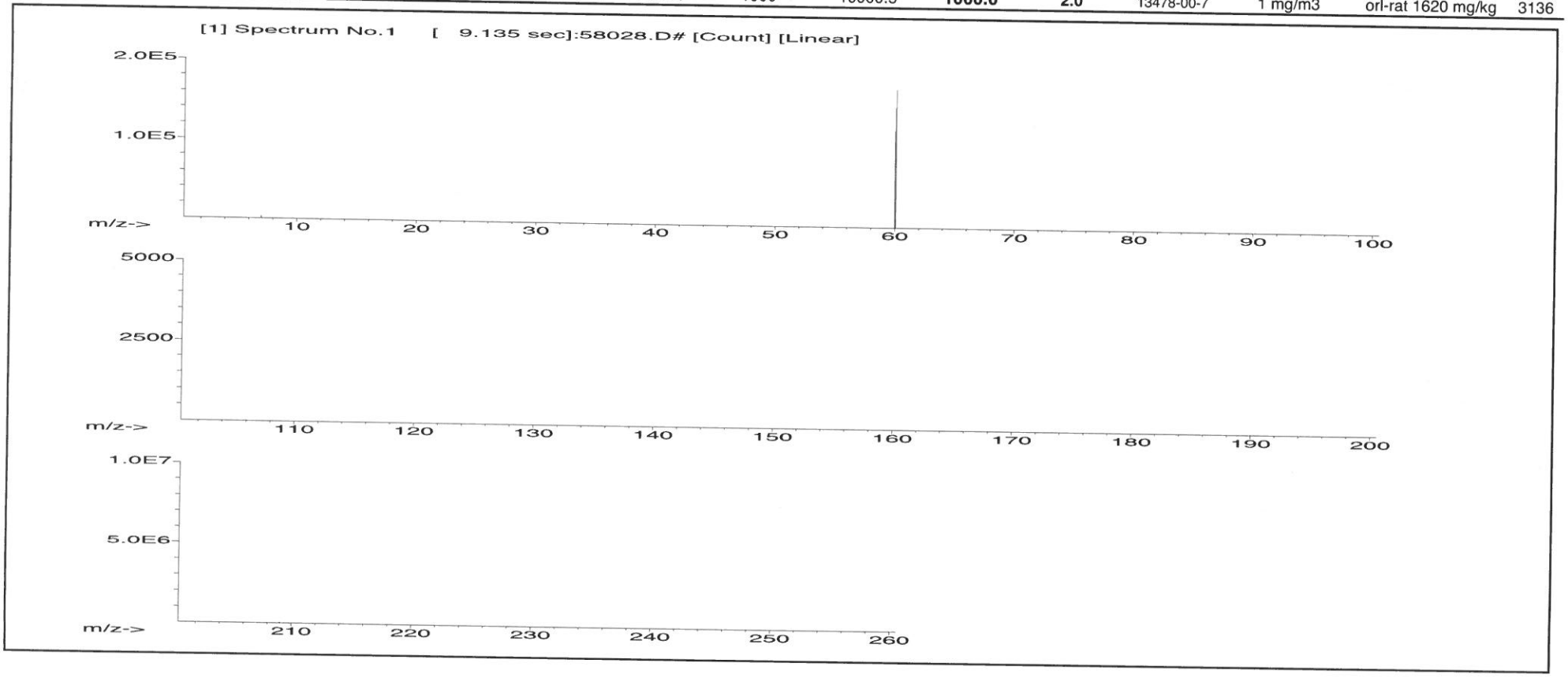
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**			
Lot Number:	**072420**	19410105	Nitric Acid	
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072423			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By: Lawrence Barry 072420

Reviewed By: Pedro L. Rentas 072420

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	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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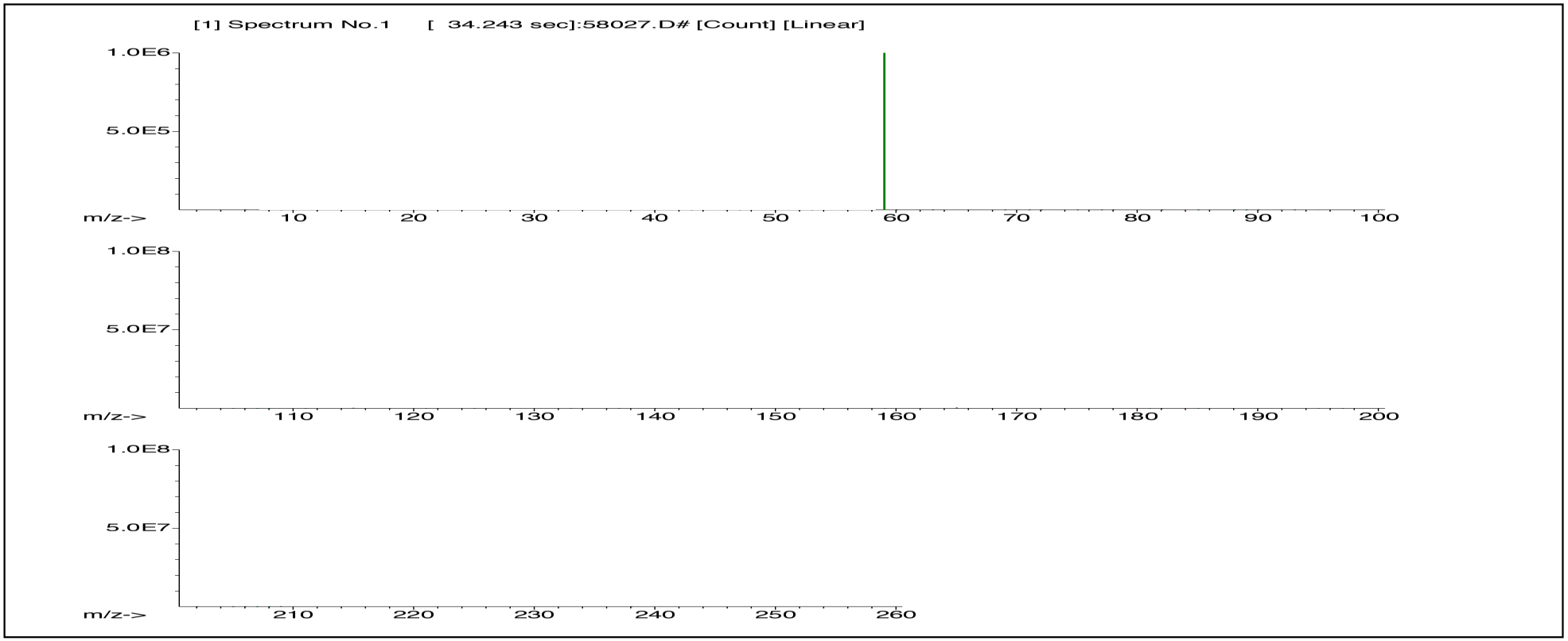
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57027**	19410105	Nitric Acid	
Lot Number:	**020821**			
Description:	**Cobalt (Co)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	020824			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry 020821
Reviewed By:	Pedro L. Rentas 020821

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 nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 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	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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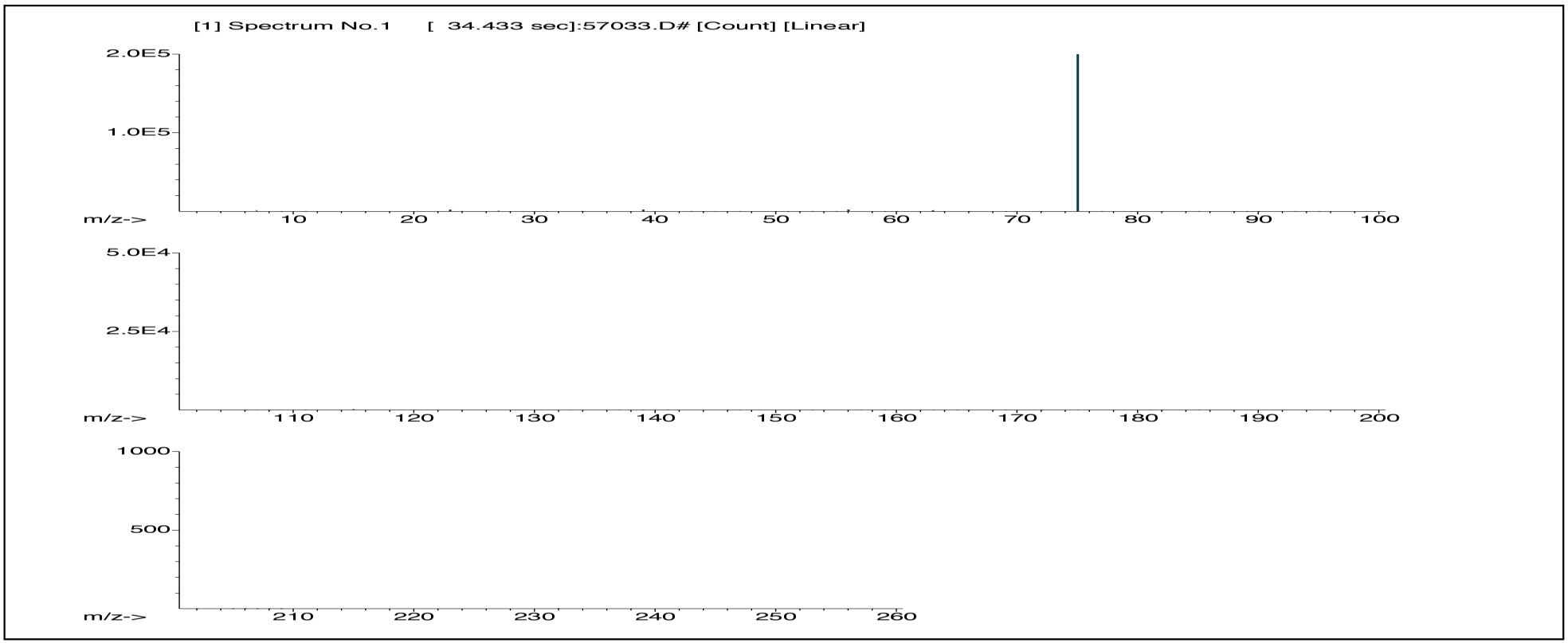
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57033**	19410105	Nitric Acid	
Lot Number:	**012521**			
Description:	**Arsenic (As)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	012524			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

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	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



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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	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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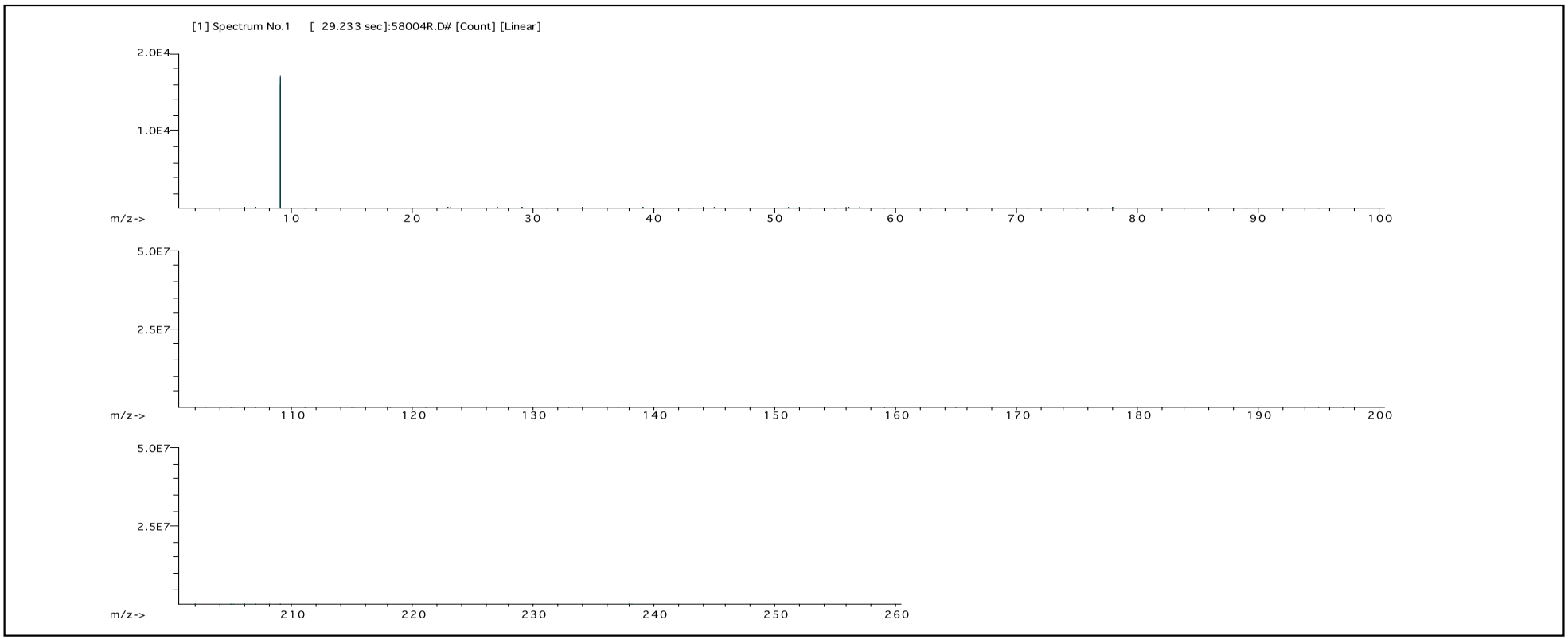
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	19410105	Nitric Acid	
Lot Number:	**030221**			
Description:	**Beryllium (Be)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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 acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



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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	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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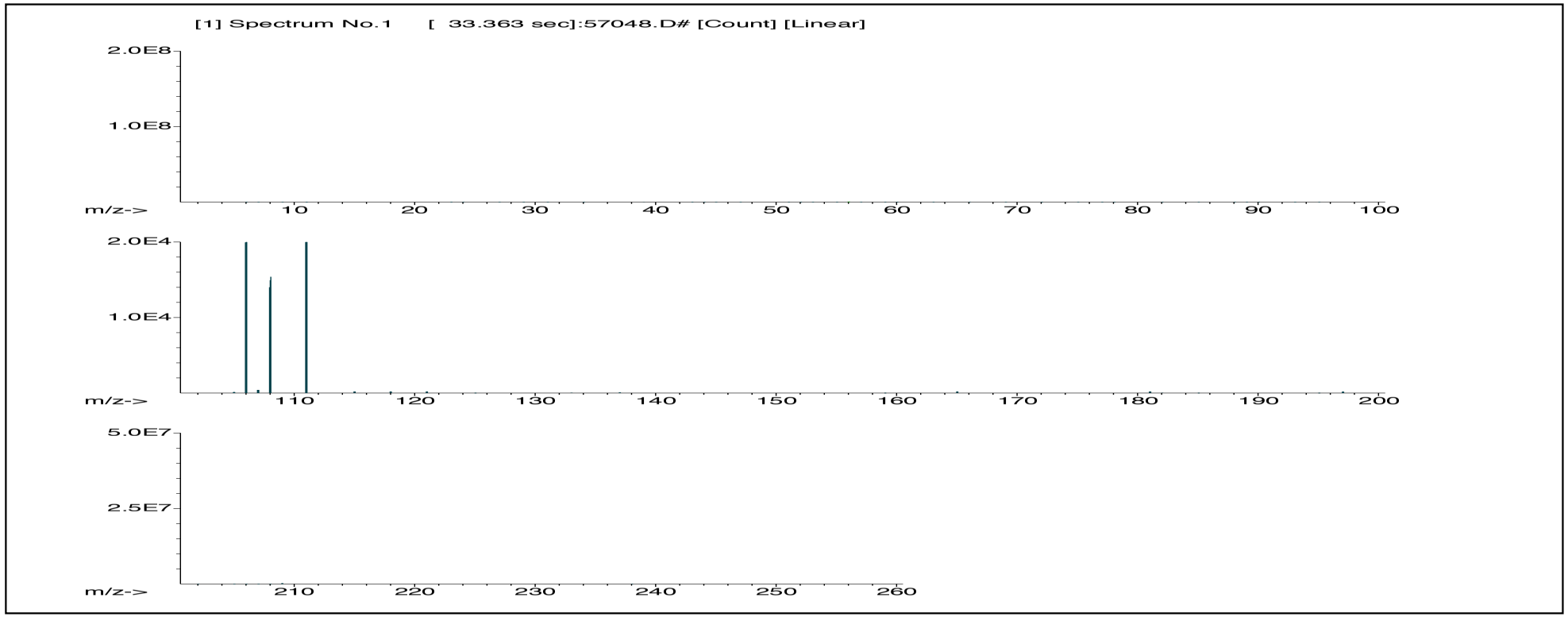
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
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:	Giovanni Esposito 072821
Reviewed By:	Pedro L. Rentas 072821

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. Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M4878 R: 8/5/21

CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 072821
Description: Molybdenum (Mo)

Expiration Date: 072824
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	10.0 (mL)	Ammonium hydroxide	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

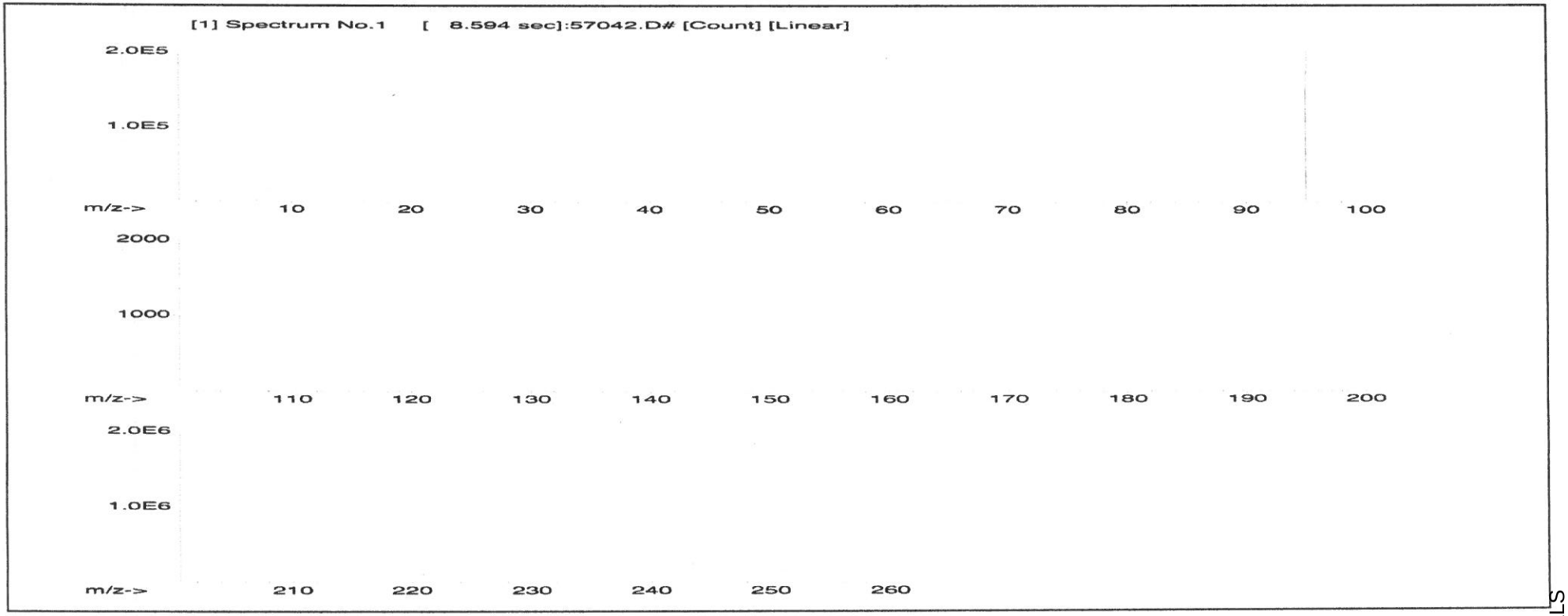
Giovanni Esposito

Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

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	042220	0.1000	200.0	0.084	1000	10000.9	**1000.0**	**2.2**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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Revised

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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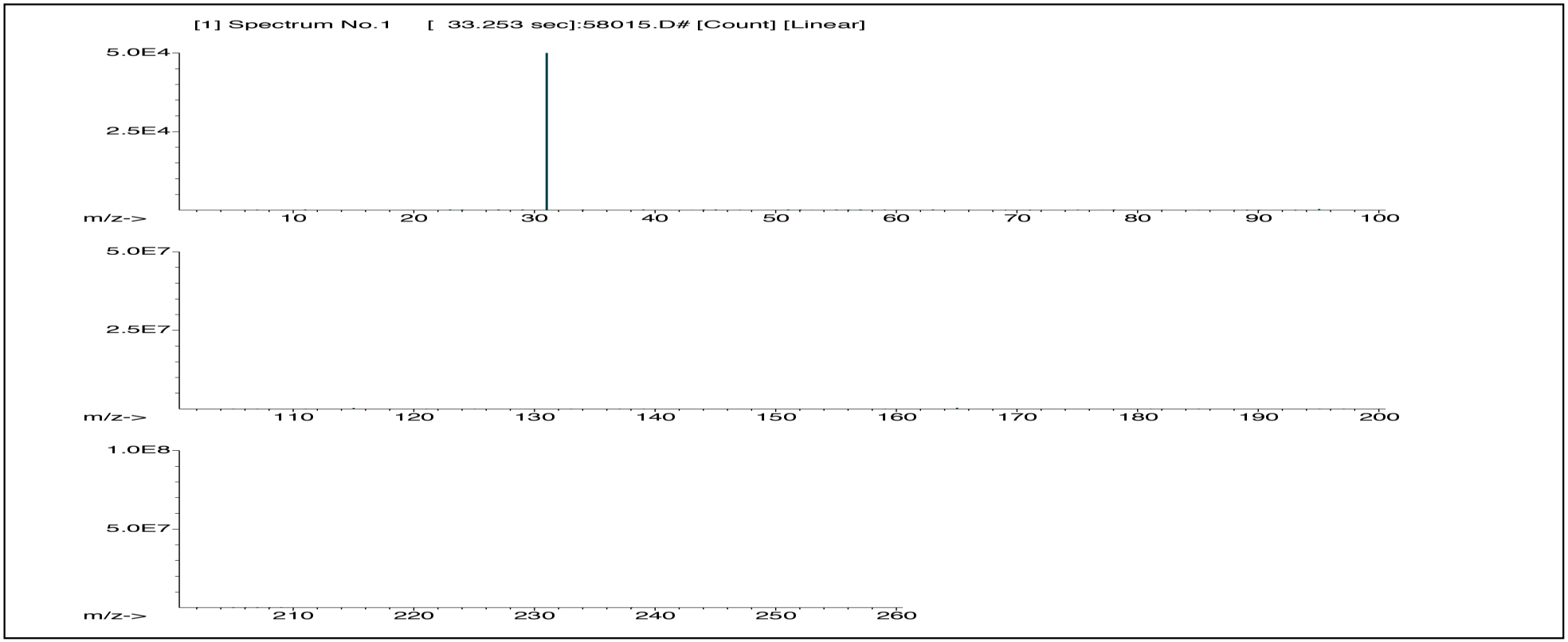
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
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	051121
Reviewed By:	Pedro L. Rentas	051121

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 dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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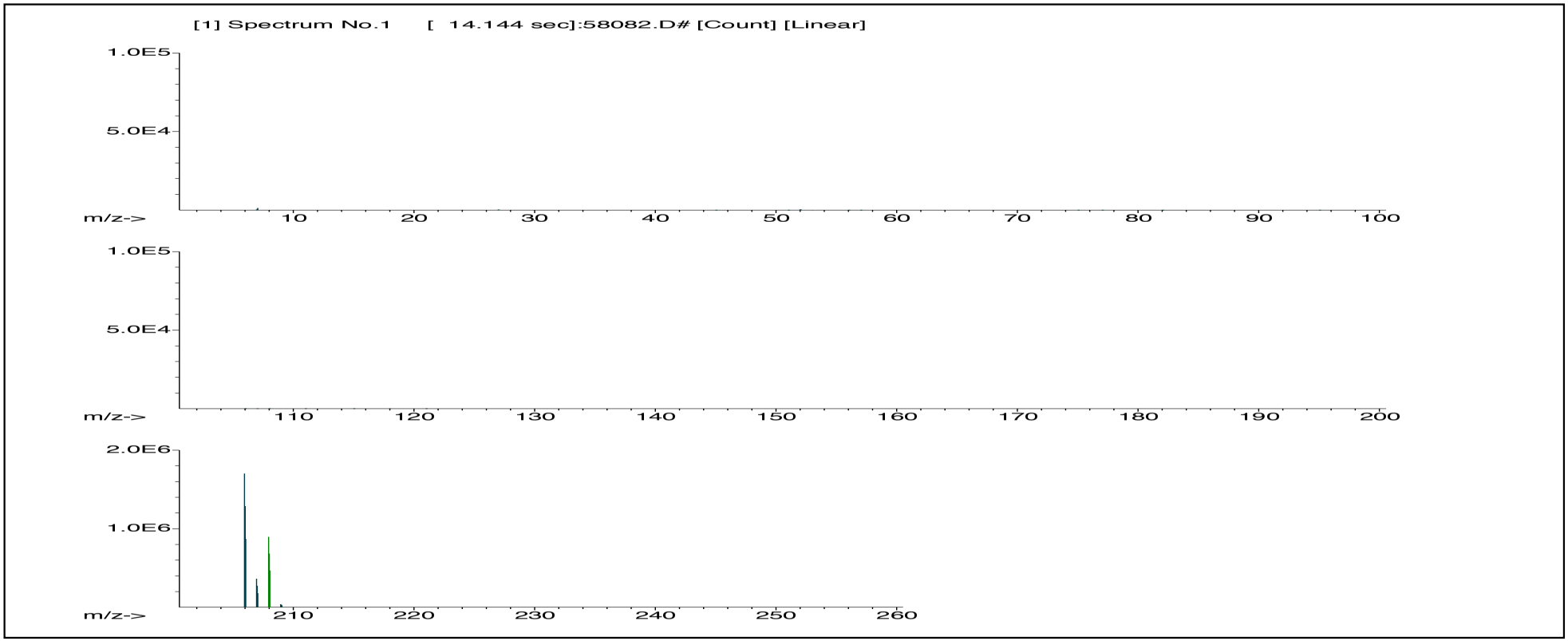
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224			
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	062221
Reviewed By:	Pedro L. Rentas	062221

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. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

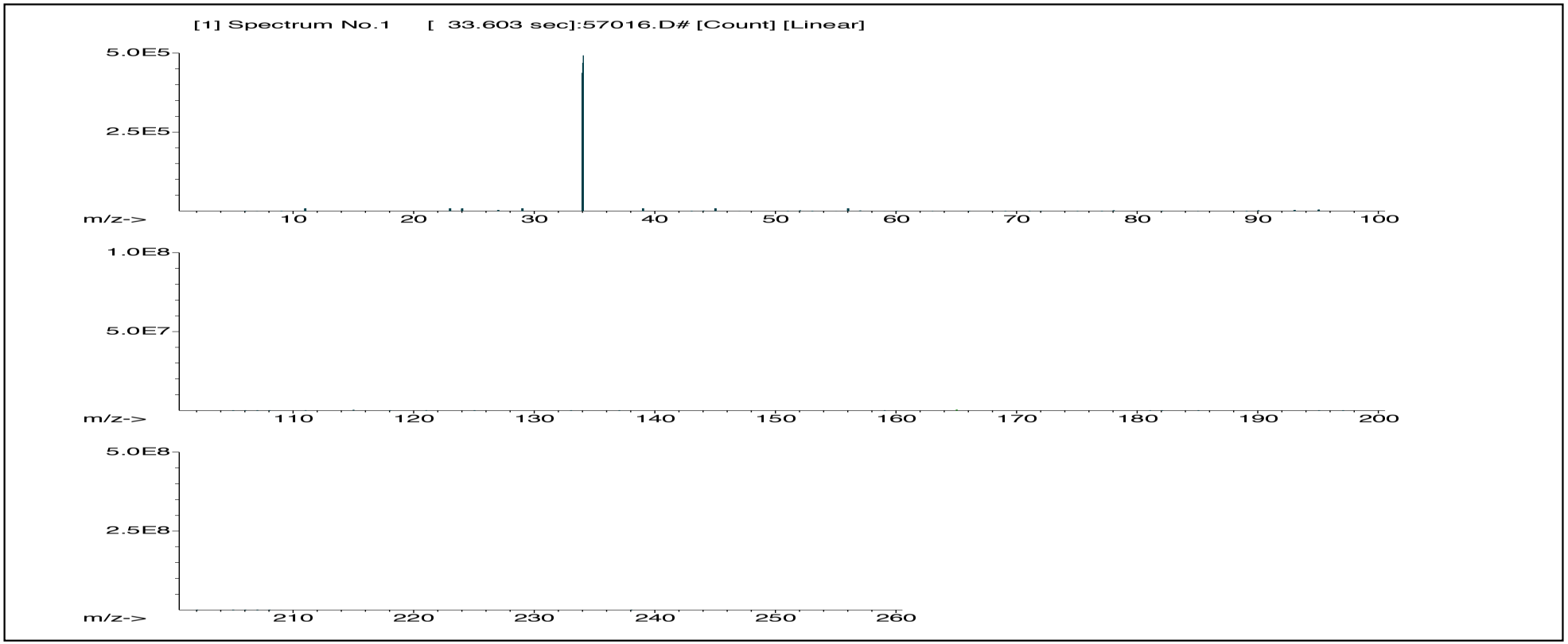
Part Number: **57016**
Lot Number: **051721**
Description: **Sulfur (S)**

Expiration Date: 051724
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): 1999.48 0.058 Flask Uncertainty

Lot #	**Solvent:**
051721	ASTM Type 1 Water

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

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 sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



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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	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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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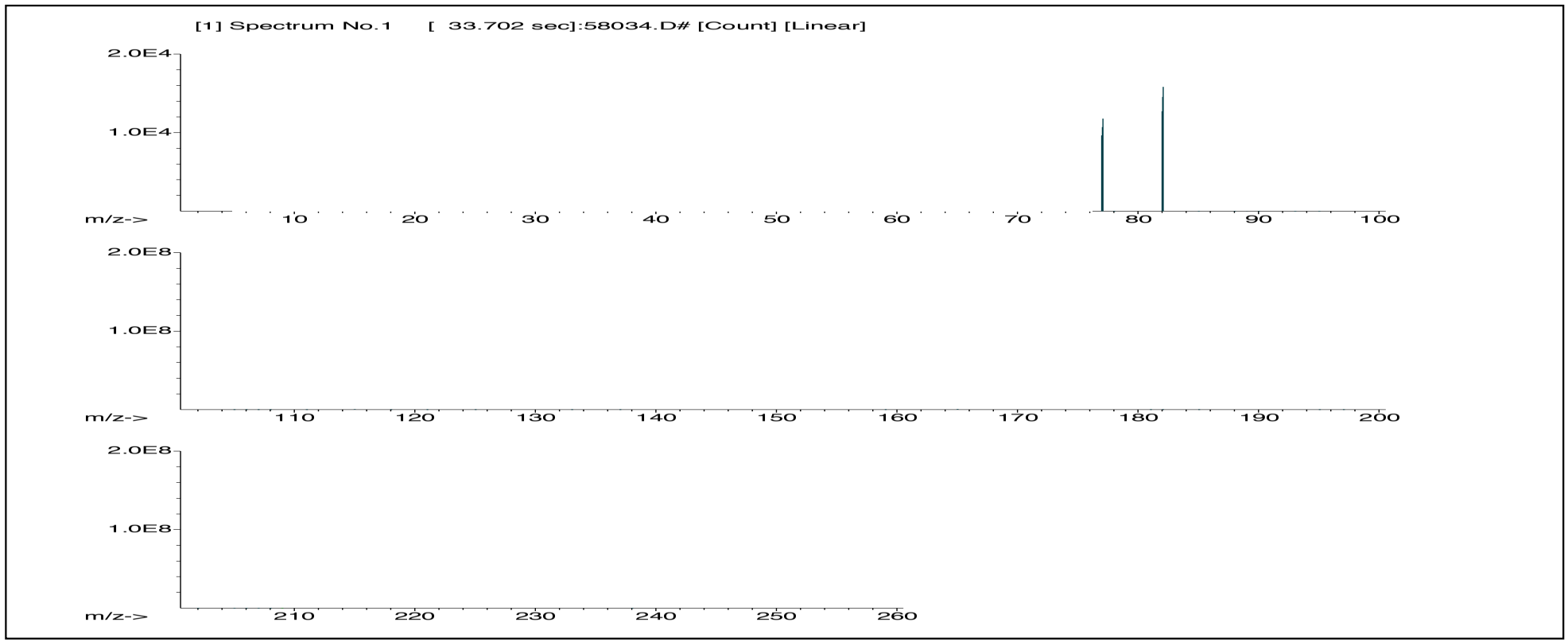
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	070224		(mL)	
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:	Giovanni Esposito 070221
Reviewed By:	Pedro L. Rentas 070221

	Part	Lot	Dilution	Initial	Uncertainty	Nominal	Initial	**Final**	Expanded Uncertainty	**SDS Information** (Solvent Safety Info. On Attached pg.)			NIST
Compound	Number	Number	Factor	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	**Conc. (µg/mL)**	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



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	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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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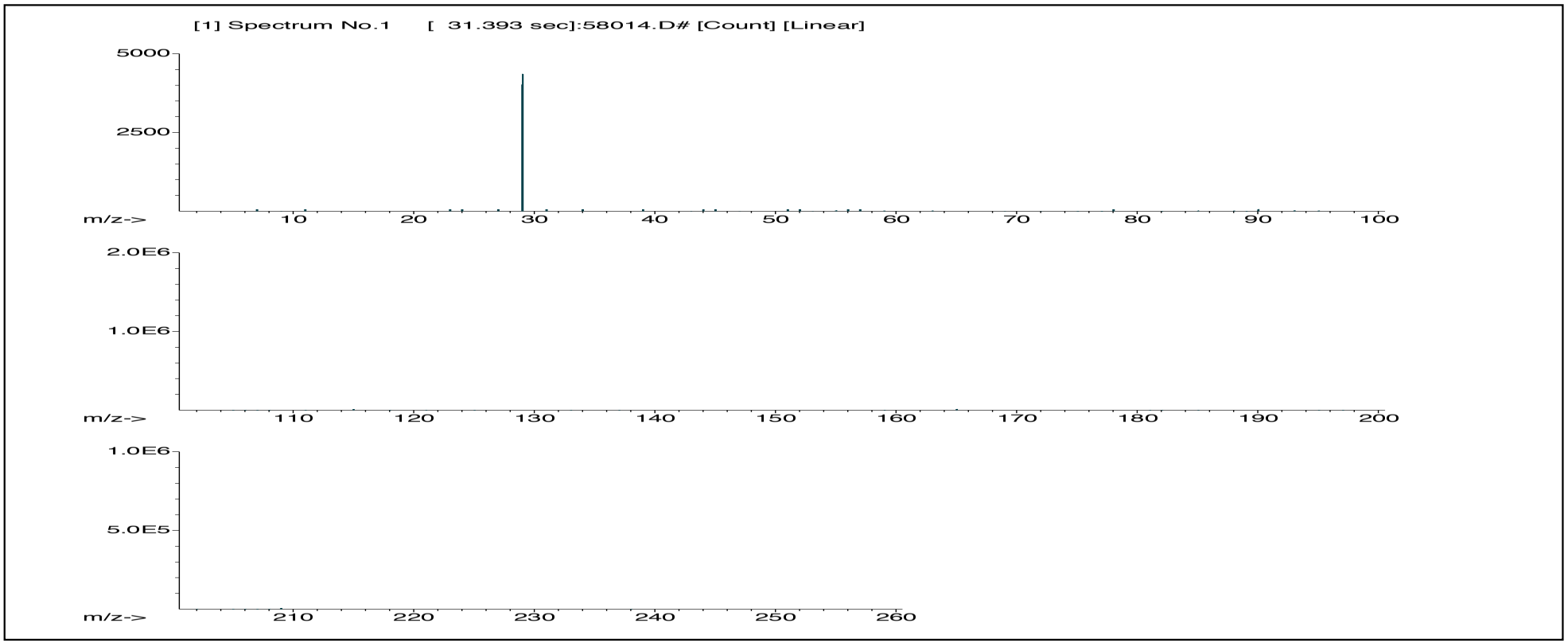
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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	030921
	Reviewed By:	Pedro L. Rentas	030921

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 hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 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	<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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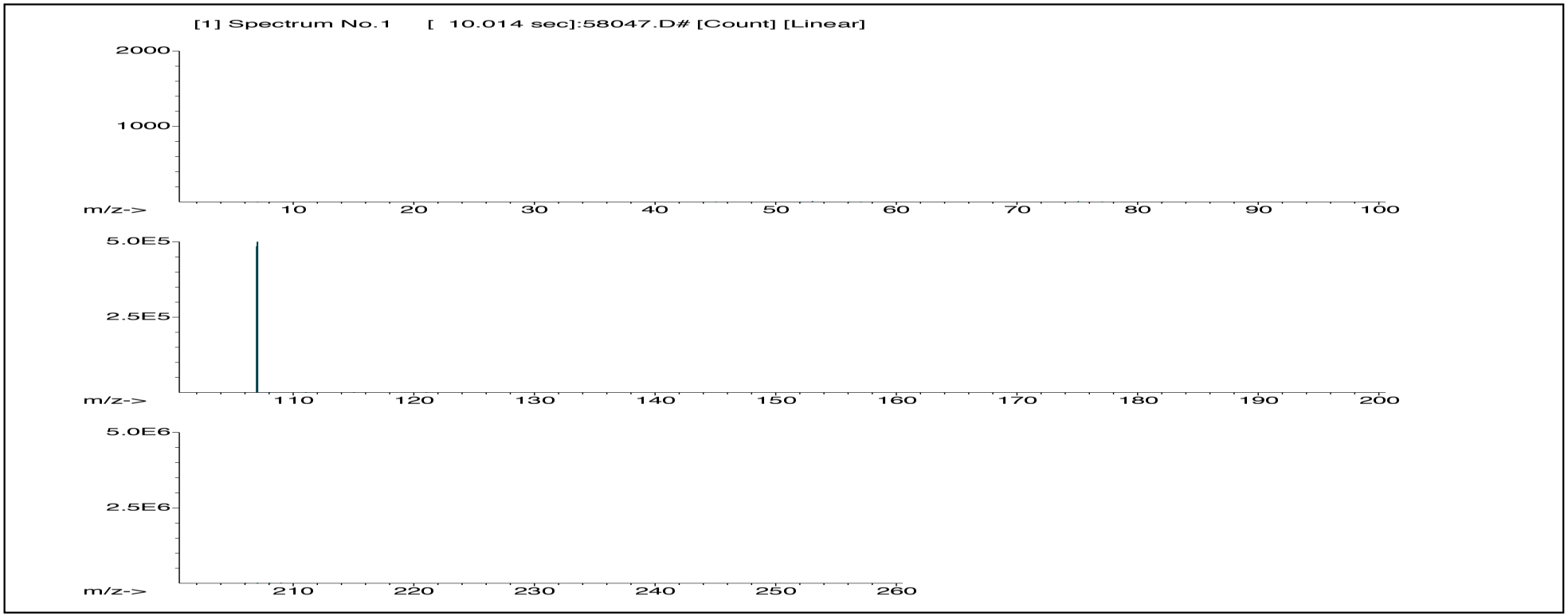
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	072924		(mL)	
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:	Giovanni Esposito	072921
Reviewed By:	Pedro L. Rentas	072921

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. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



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	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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

Part Number: **57050**
Lot Number: **021121**
Description: **Tin (Sn)**

Expiration Date: 021124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060

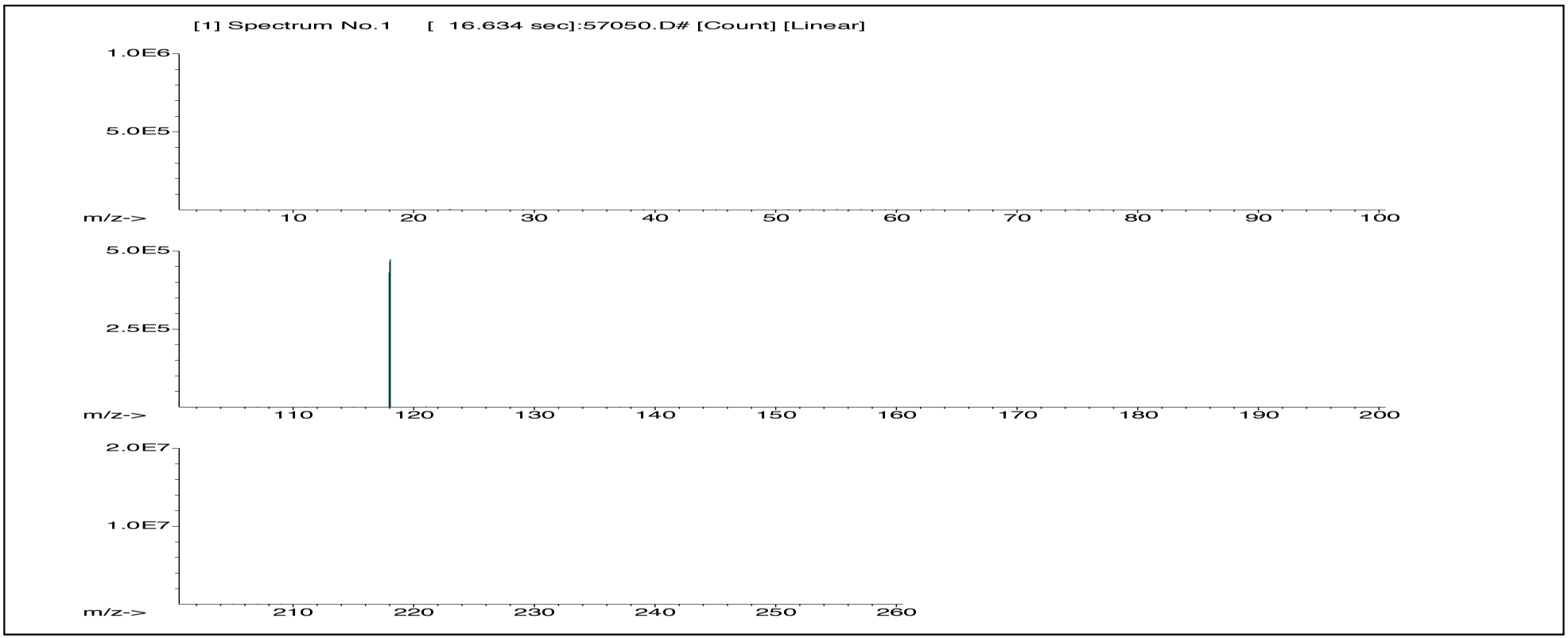
Volume shown below was diluted to (mL): 1999.78 ± 0.265 Flask Uncertainty

Lot #	**Solvent:**	
19410105	Nitric Acid	
240241	Hydrochloric acid	
2.0%	40.0	Nitric Acid
6.0%	120.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

	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 hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



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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	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:

Certified by:

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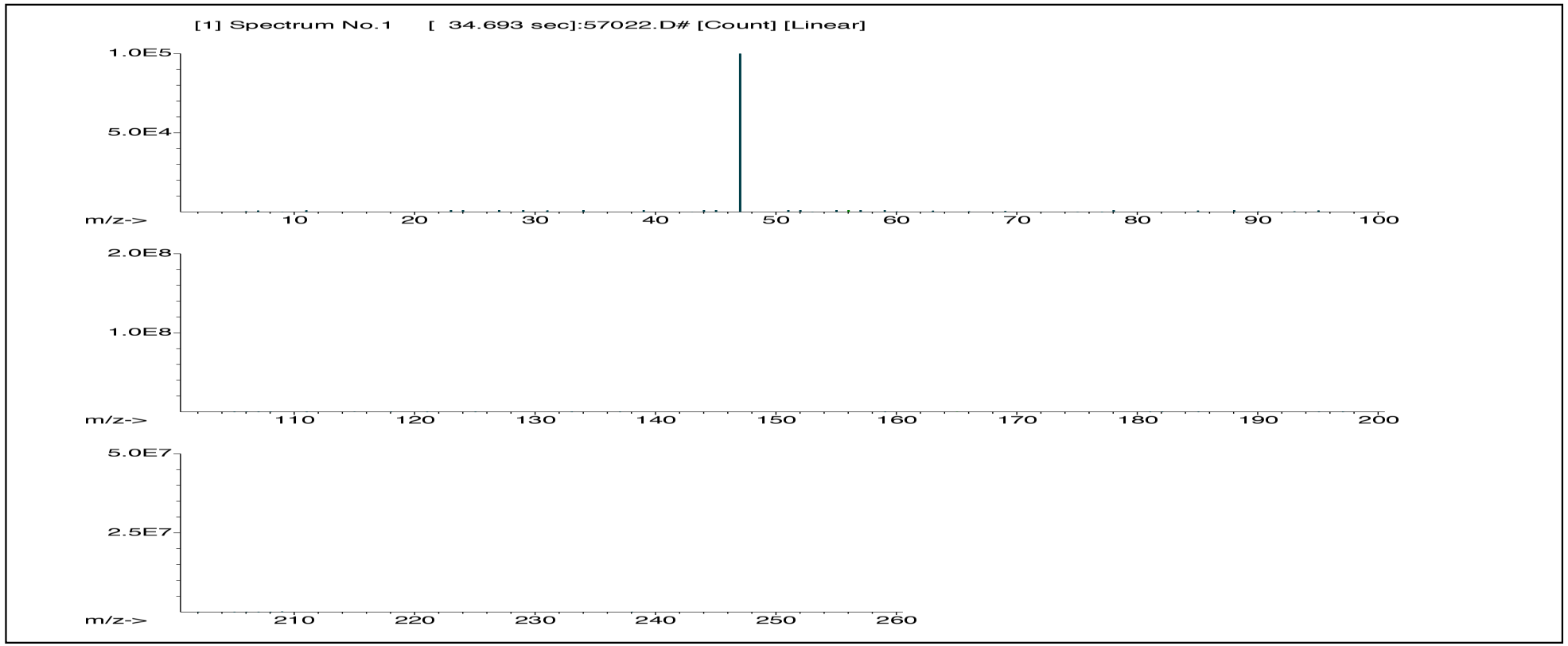
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070724			
Recommended Storage:	Ambient (20 ºC)			
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 070721
Reviewed By:	Pedro L. Rentas 070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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 hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
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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
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Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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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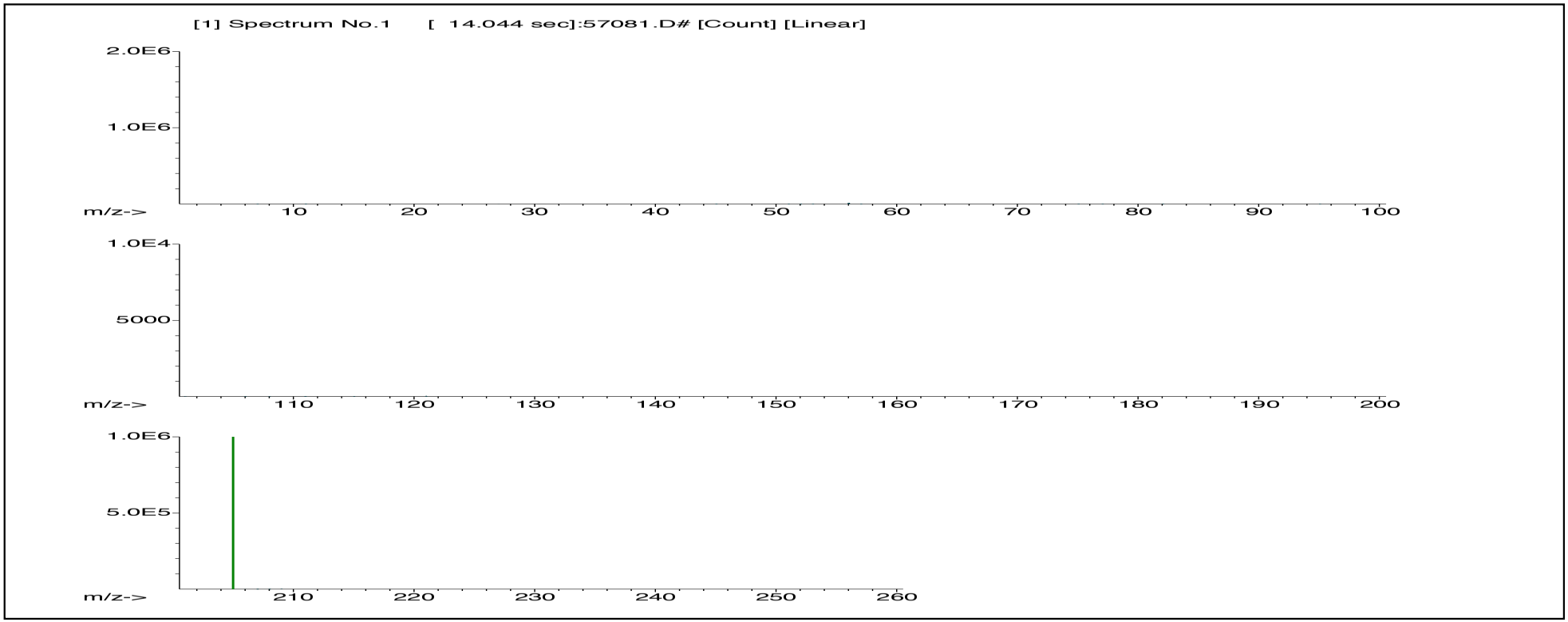
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	073024		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

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. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



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	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.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58030**	20370011	Nitric Acid	
Lot Number:	**031921**			
Description:	**Zinc (Zn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	031924		(mL)	
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	

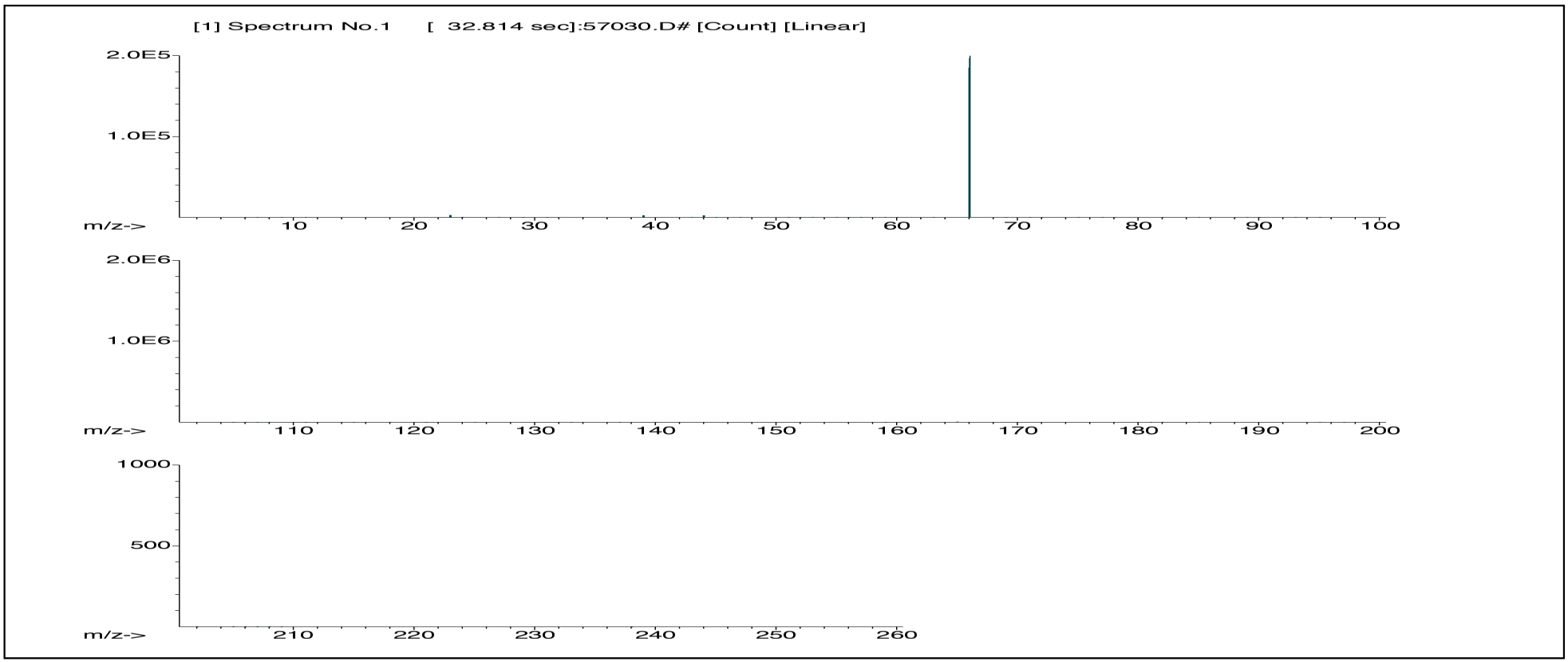
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

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. Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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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	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.
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Certified Reference Material CRM

M4893 R: 06/25/21

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CERTIFIED WEIGHT REPORT:

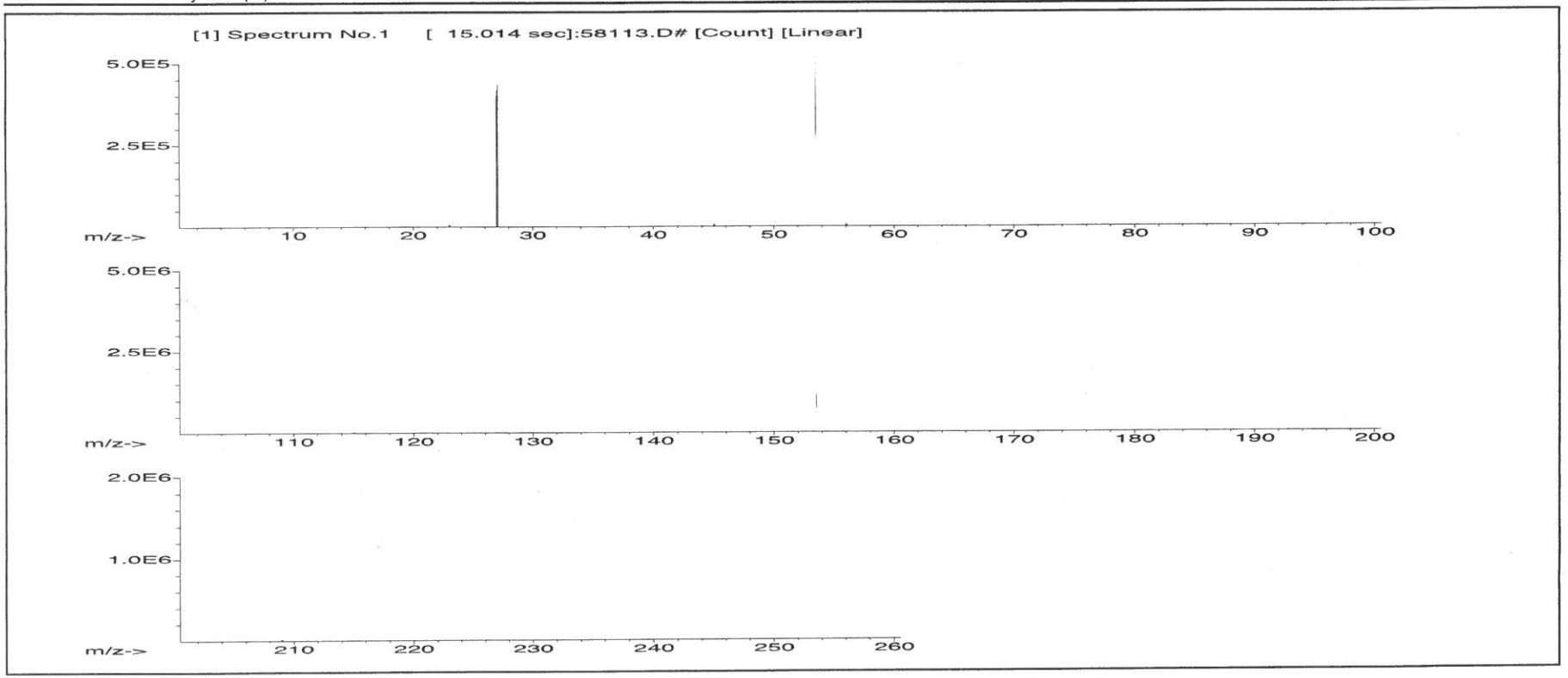
Part Number: 58113
Lot Number: 062321
Description: Aluminum (Al)
Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	19410105	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Gabriel Helland
Formulated By: Gabriel Helland 062321

Pedro Rentas
Reviewed By: Pedro L. Rentas 062321

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	ALZ072019A2	10000	99.999	0.10	7.20	138.9074	138.9175	**10000.7**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)
Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

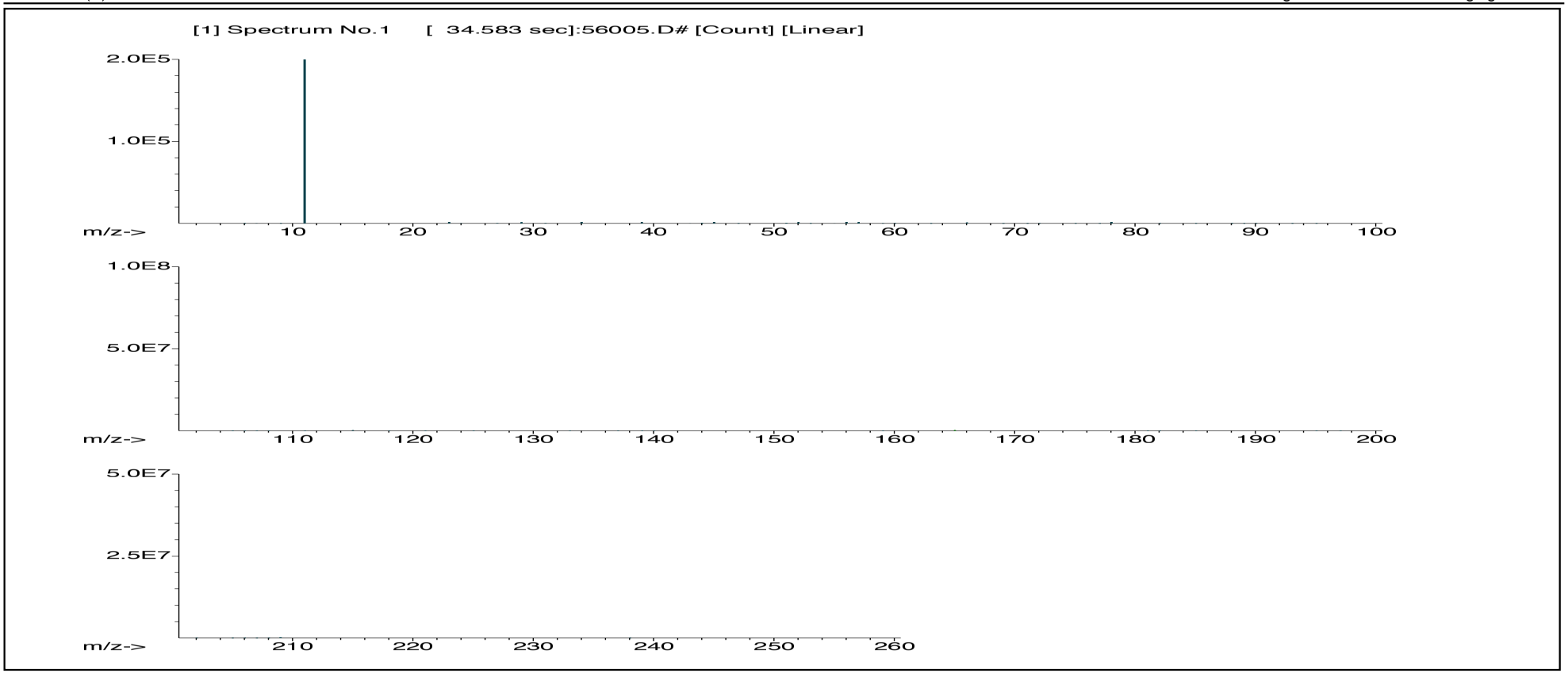
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

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. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certificate of Analysis

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201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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Certificate of Analysis

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201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
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	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
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%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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R: 09/22/21 RL

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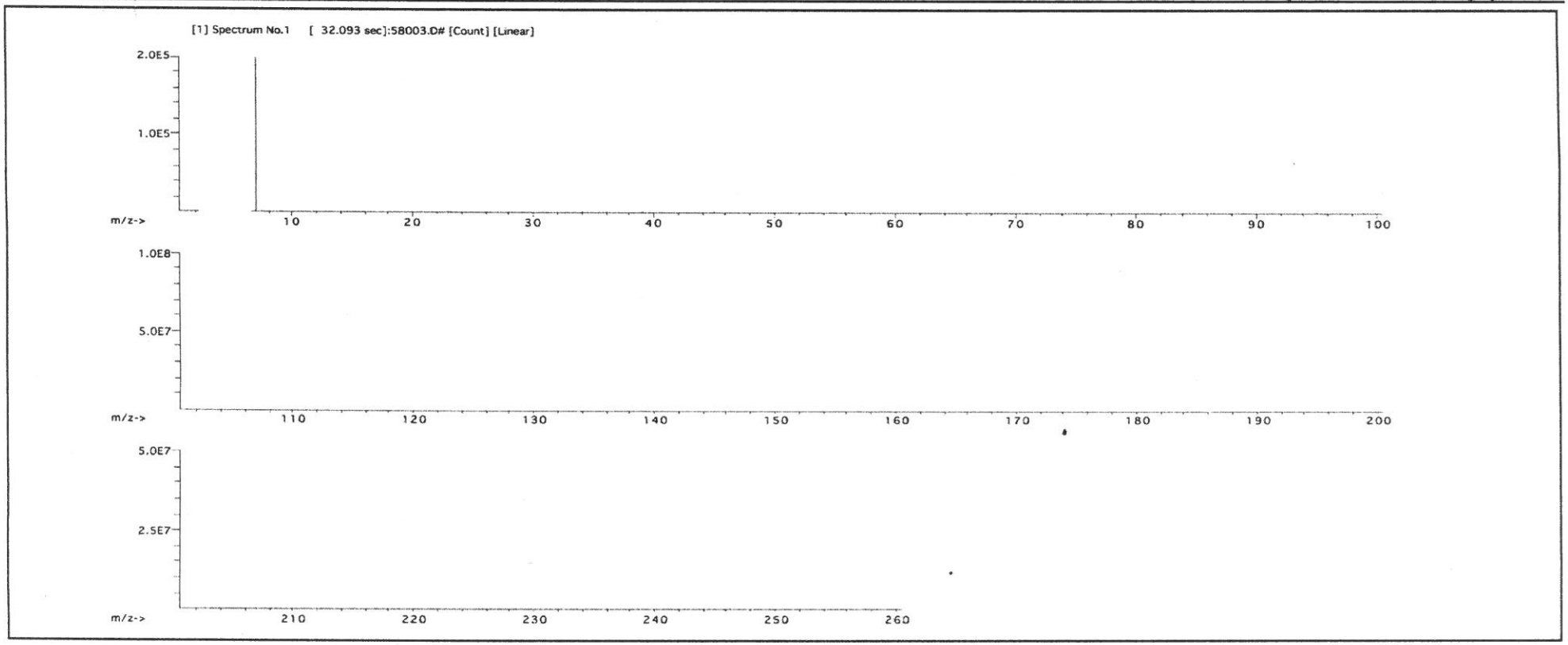
Revised

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57003**	19410105	Nitric Acid	
Lot Number:	**030221**			
Description:	**Lithium (Li)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

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	010320	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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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.

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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

M4960 R: 10/08/21 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58149
Lot Number: 100721
Description: Indium (In)

Expiration Date: 100724
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

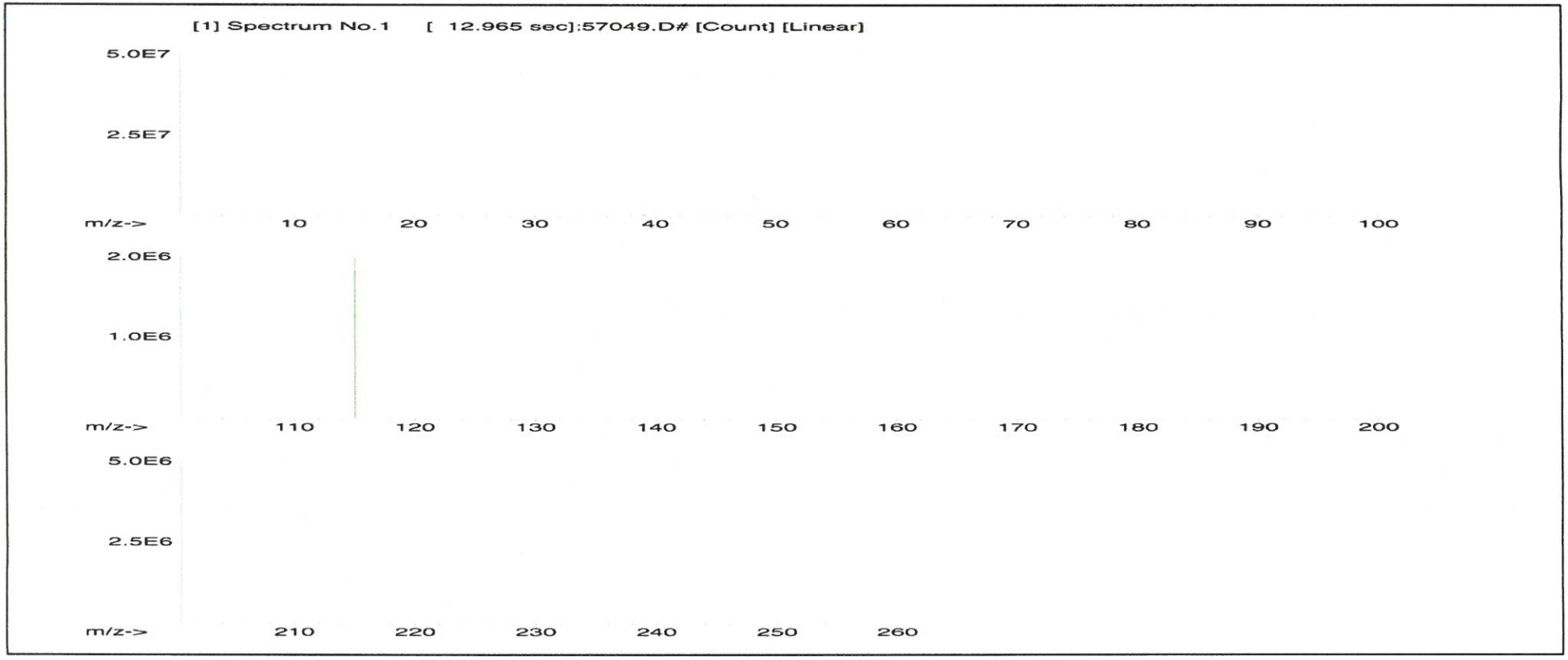
Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

	Lot #		
Solvent:	20370011	Nitric Acid	
5%	25.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	T	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M4961 R: 10/08/21 BH

Certified Reference Material CRM

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Revised

CERTIFIED WEIGHT REPORT:

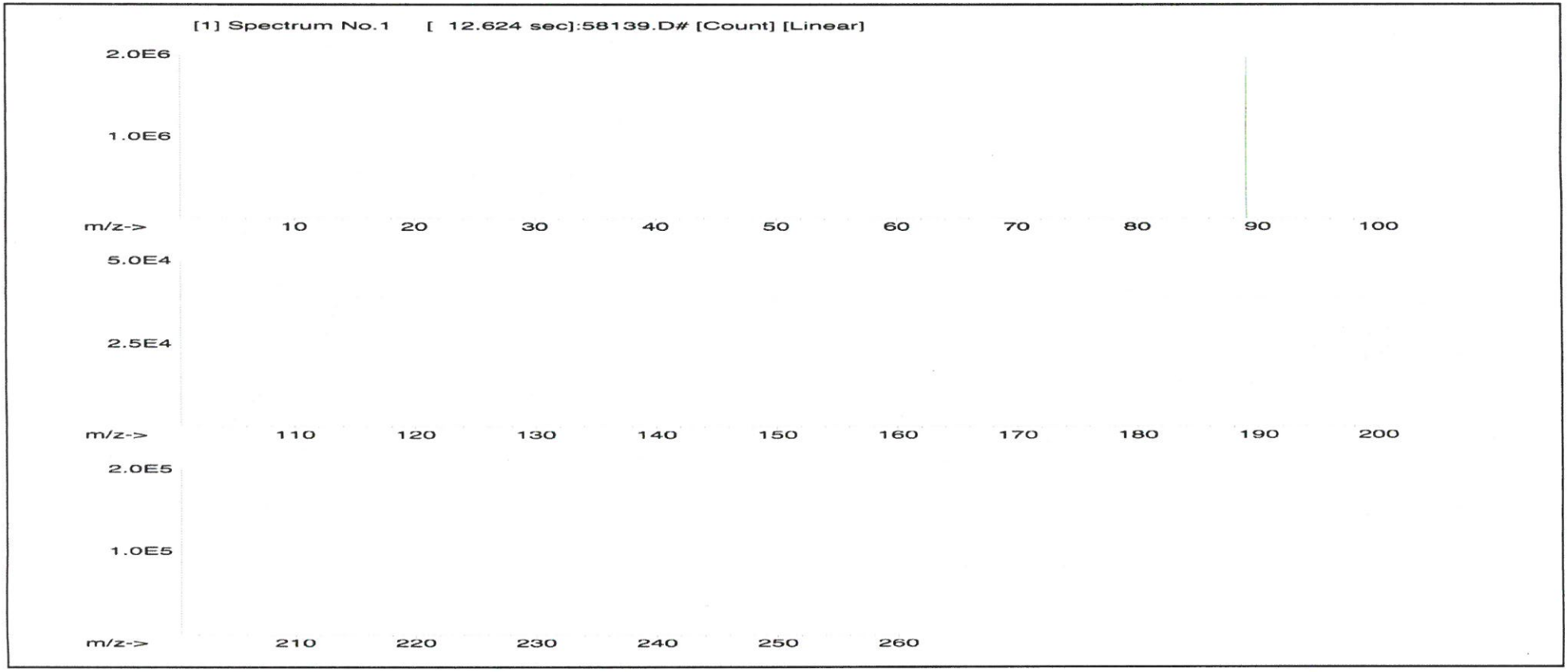
Part Number: **58139**
Lot Number: **052521**
Description: **Yttrium (Y)**

Expiration Date: 052524
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 #	
Solvent:	20370011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	052521
Reviewed By:	Pedro L. Rentas	052521

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. Yttrium (III) Oxide (Y)	IN087	YV012015B1	10000	99.999	0.10	77.9	25.6744	25.6745	**10000.0**	**20.0**	1314-36-9	NA	NA	NA



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Certified Reference Material CRM

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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	T
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

IN 5019 R: 12/09/21 (BH)

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CERTIFIED WEIGHT REPORT:

Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

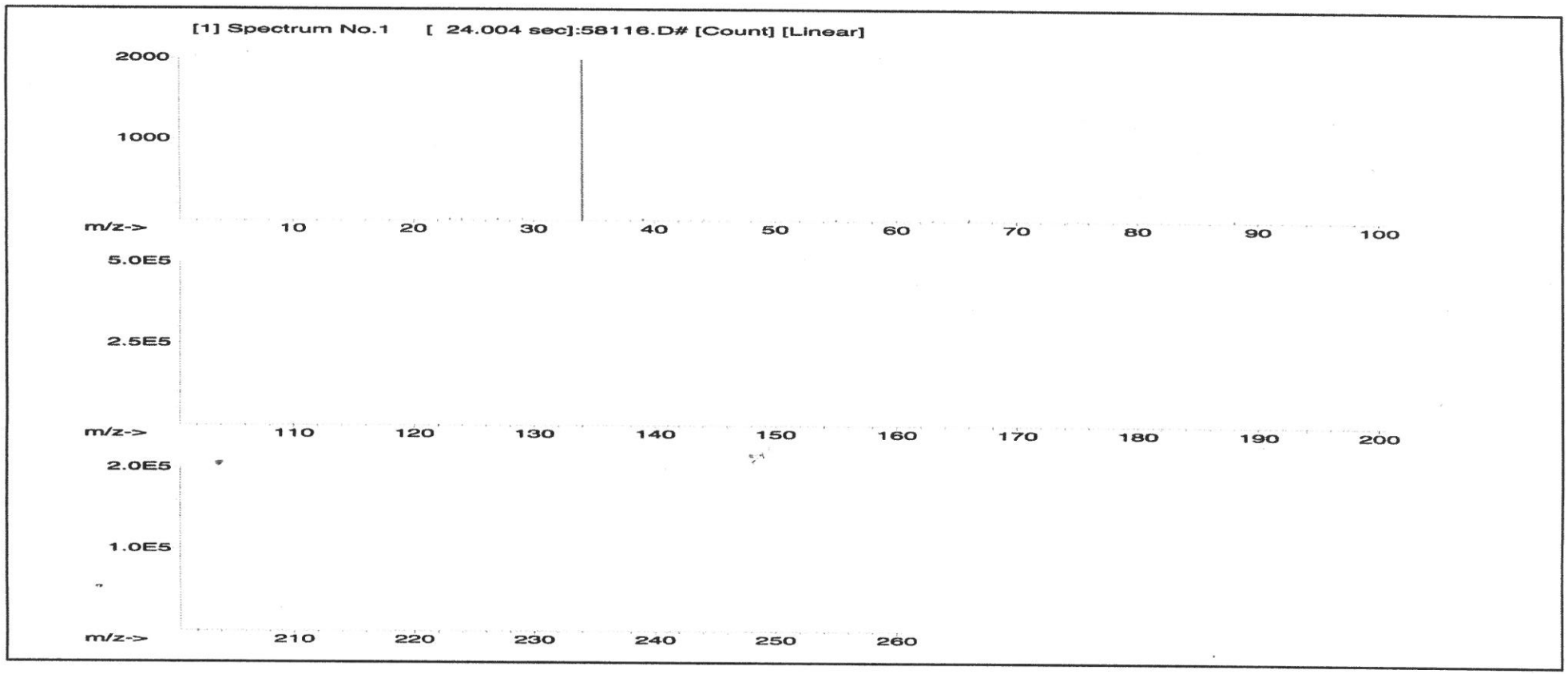
Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060
Weight shown below was diluted to (mL): 1999.53

Lot #
Solvent: 011421 ASTM Type 1 Water

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

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	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



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AR-1539 Certificate Number
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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	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:

Certified by:

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Certified Reference Material CRM

BH MS020 R: 12/09/21

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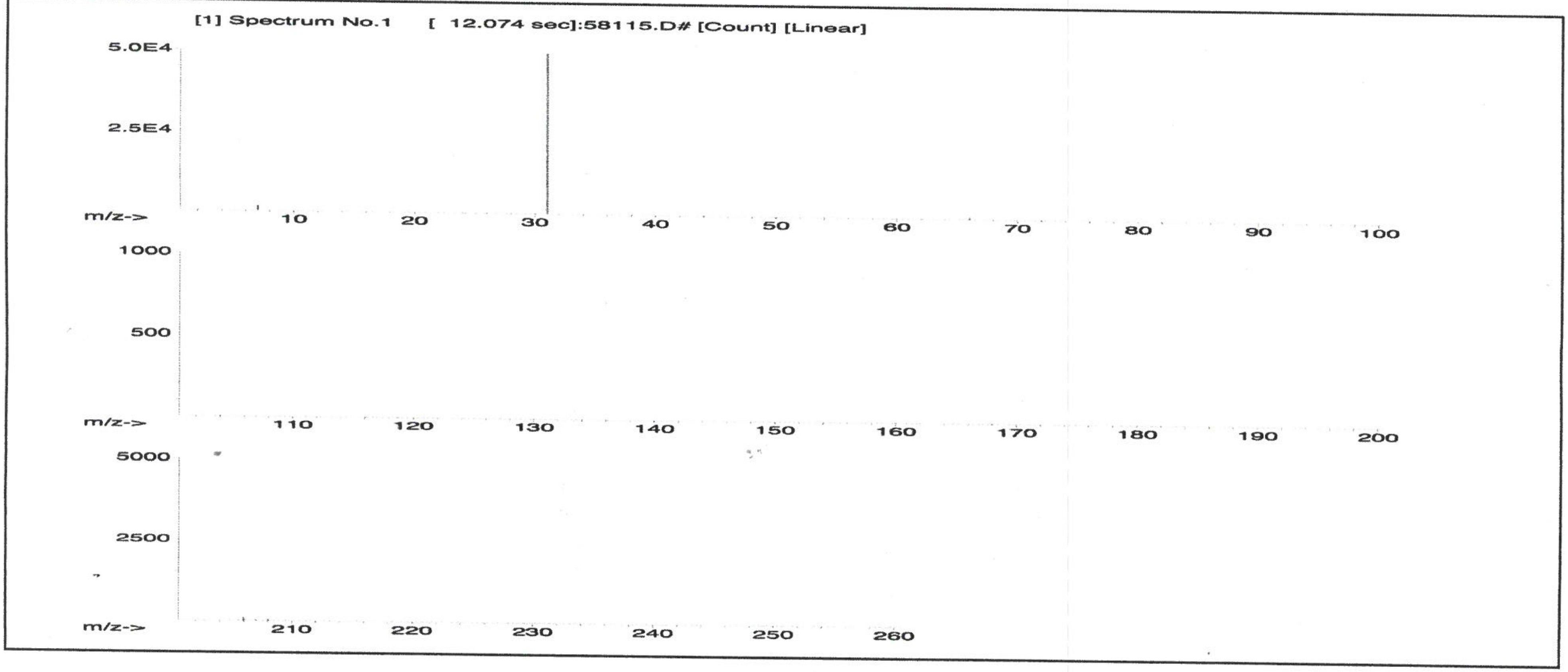
CERTIFIED WEIGHT REPORT:

Part Number:	**57115**		Lot #	
Lot Number:	**032921**	**Solvent:**	20370011	Nitric Acid
Description:	**Phosphorous (P)**			
		2%	60.0 (mL)	Nitric Acid
Expiration Date:	032924			
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):	3000.41	0.058 Flask Uncertainty		

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



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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

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F: 540-585-3012
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M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. 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% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); 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

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

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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R: 6/2/22

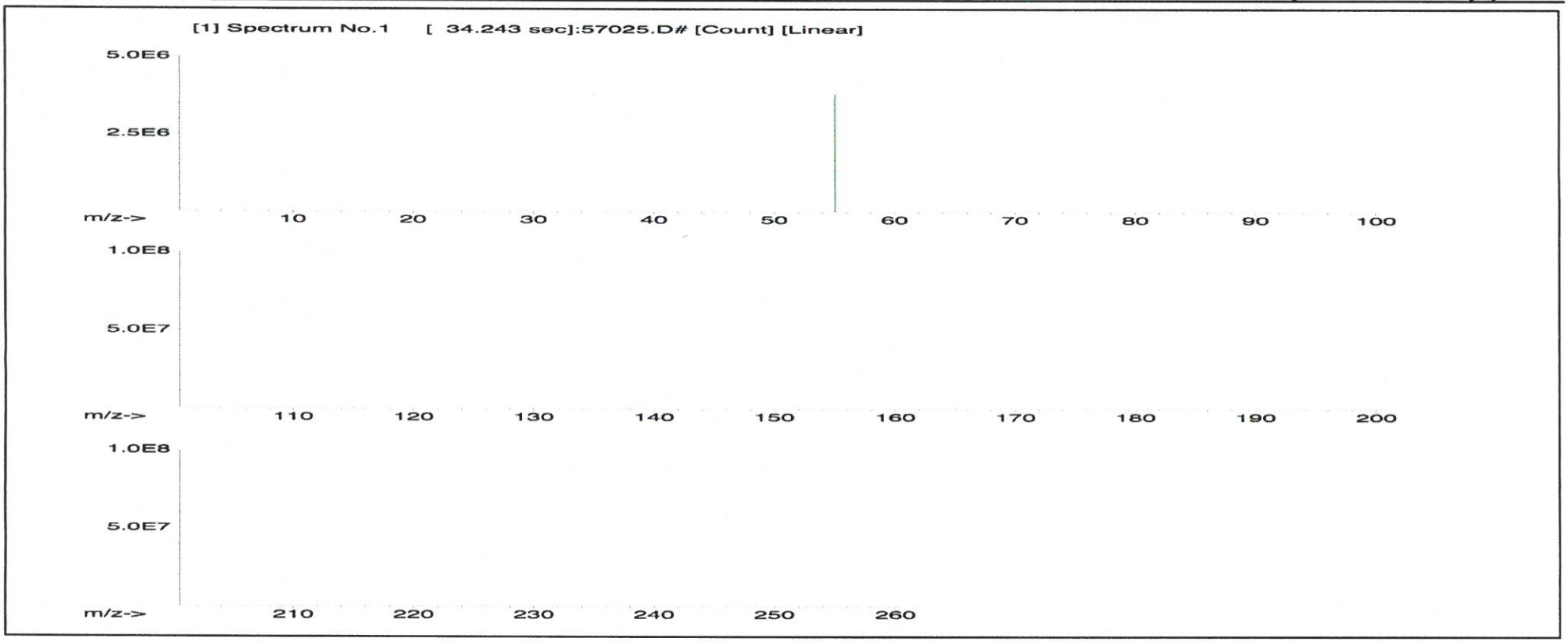
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:	
Part Number:	**58025**			
Lot Number:	**060122**	20510011	Nitric Acid	
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	060125			
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 060122
Reviewed By:	Pedro L. Rentas 060122

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	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



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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	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:

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 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

M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

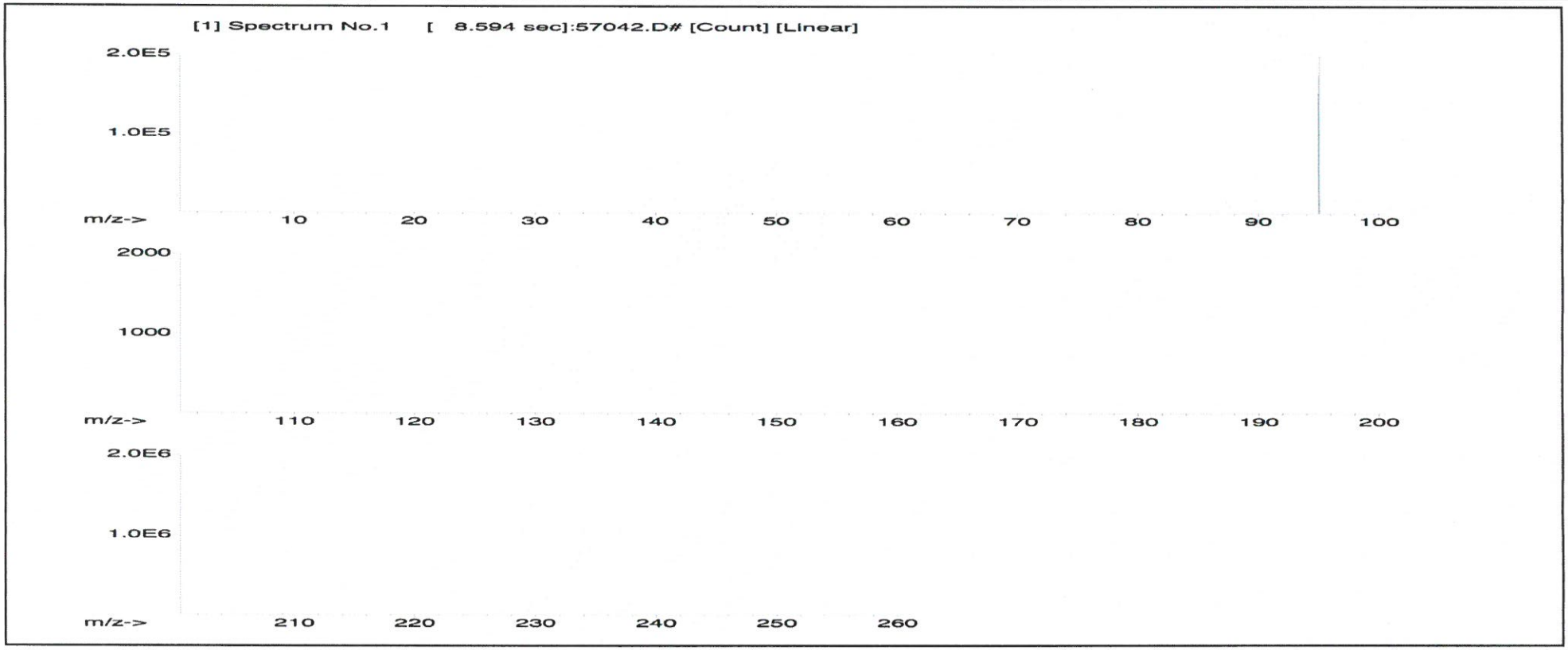
Part Number:	**57042**
Lot Number:	**051722**
Description:	**Molybdenum (Mo)**
Expiration Date:	051725
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB
Volume shown below was diluted to (mL):	3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By: Lawrence Barry 051722

Reviewed By: Pedro L. Rentas 051722

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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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).

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M5193
R: 09/23/21

Certified Reference Material CRM BA

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 082021
Description: Calcium (Ca)

Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

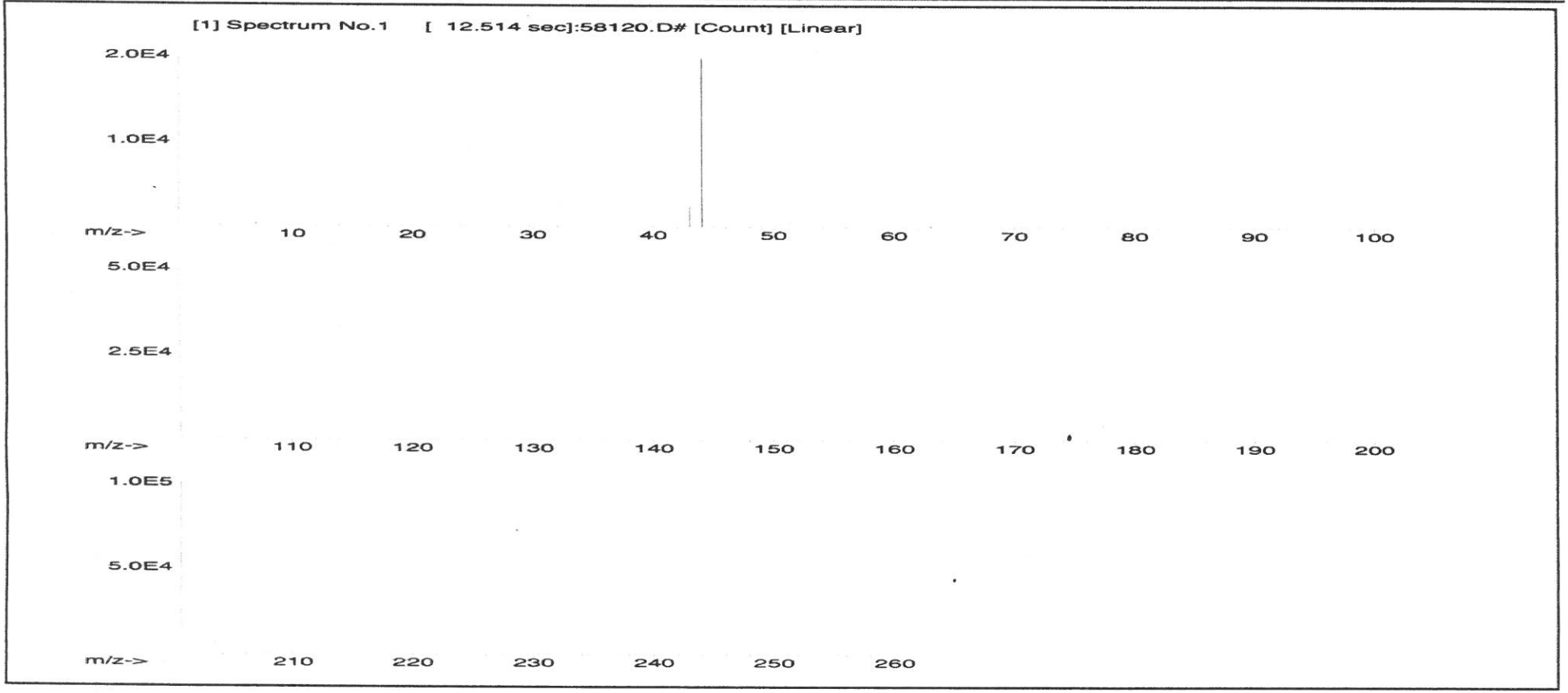
	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

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	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



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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	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M 5700 R: 10/05/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

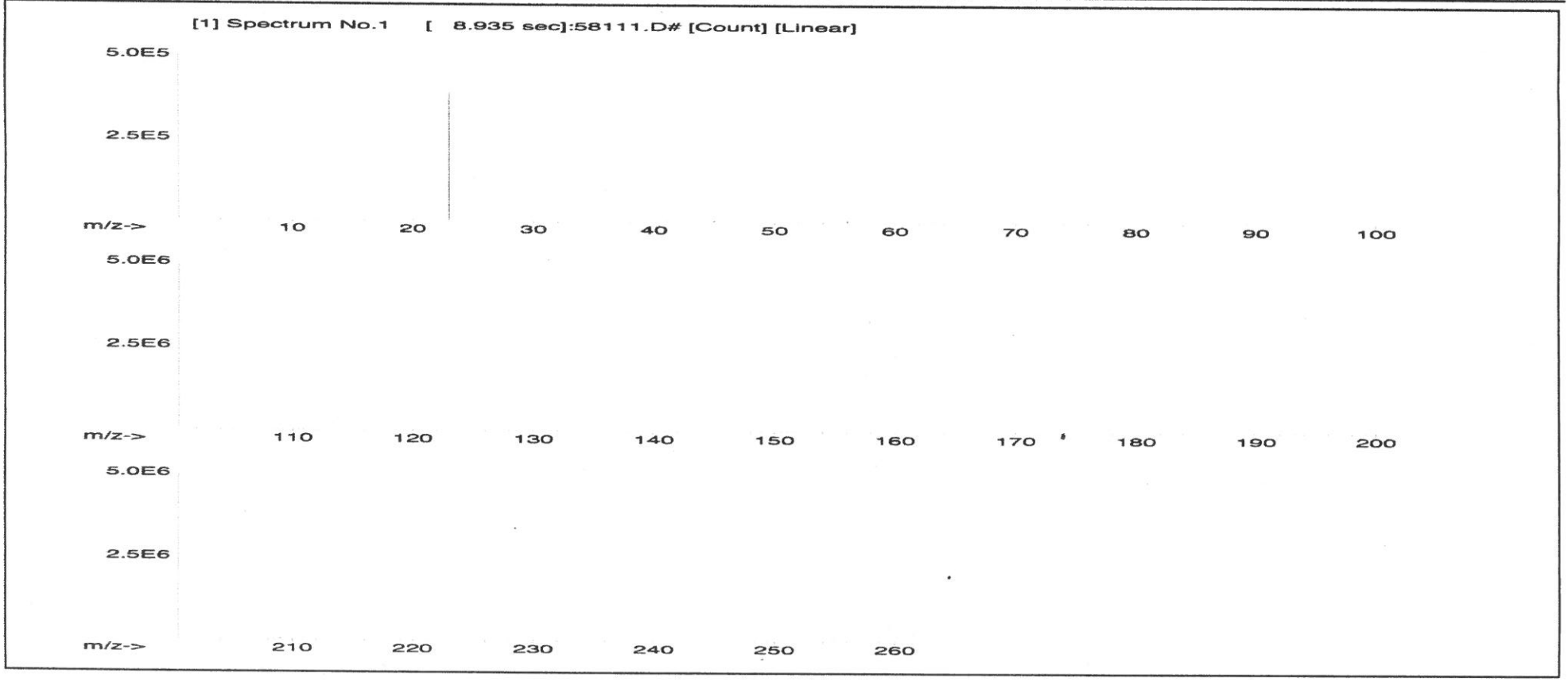
Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

Lot #		
Solvent: 20370011		Nitric Acid
2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty
	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092121
Reviewed By:	Pedro L. Rentas	092121

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	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



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Certified Reference Material CRM

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AR-1539 Certificate Number
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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	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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M 5/20
R: 10/05/21 BH

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number:	**57119**		**Lot #**		
Lot Number:	**062321**	**Solvent:**	20370011	Nitric Acid	
Description:	**Potassium (K)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062324				
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		

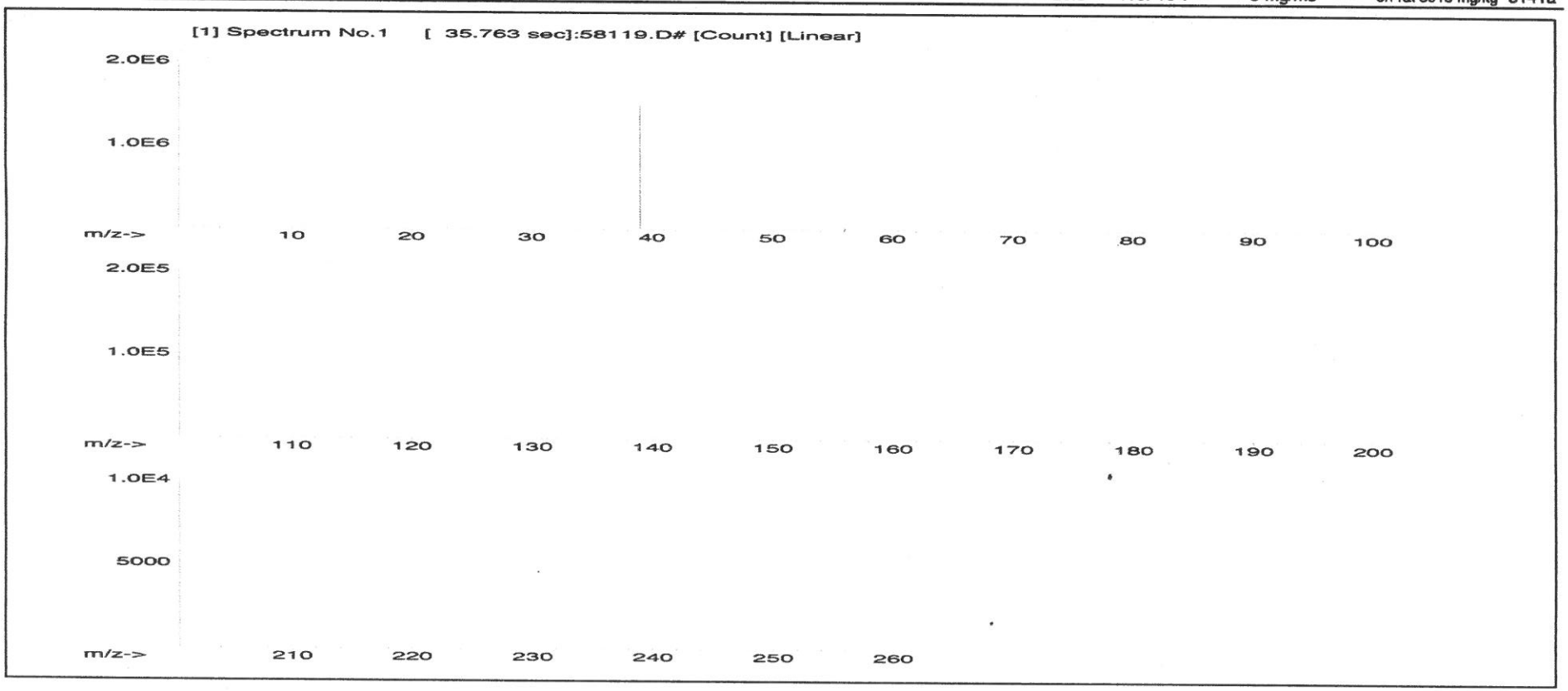
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

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	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	ori-rat 3015 mg/kg	3141a



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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	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**			
Lot Number:	**101521**	20370011	Nitric Acid	
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	101524			
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):	2000.25	0.116	Flask Uncertainty	

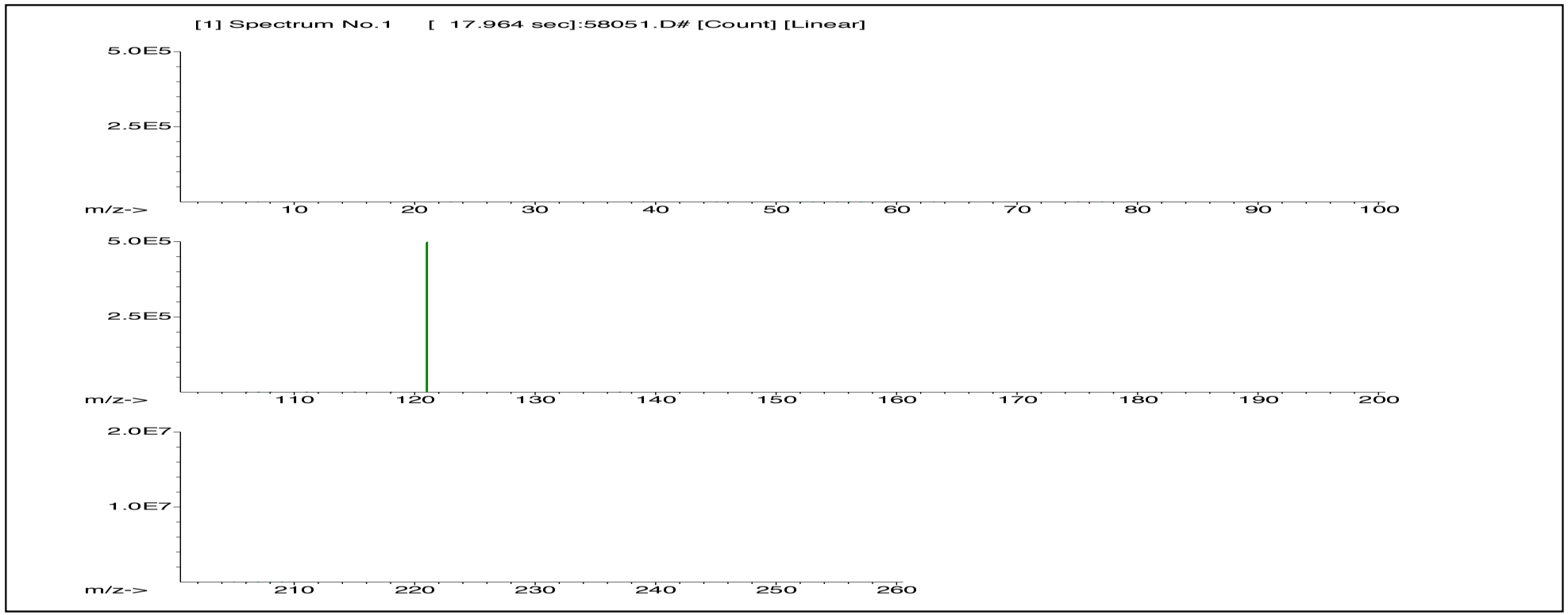
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

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	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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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	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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 03/30/22

O3645-METALS

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CERTIFIED WEIGHT REPORT:

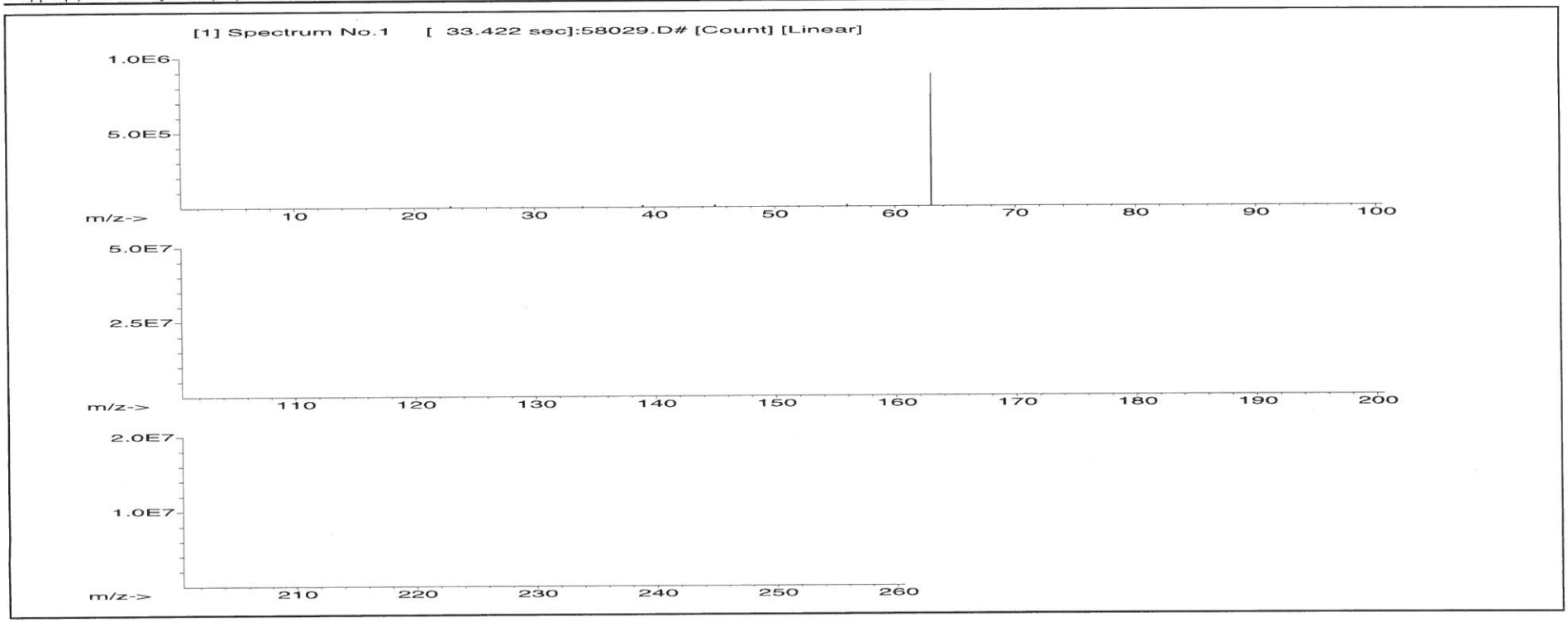
Part Number: 58029
Lot Number: 022822
Description: Copper (Cu)
Expiration Date: 022825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:		
20370011	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 022822
Pedro Rentas
Reviewed By: Pedro L. Rentas 022822

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	020821	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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).

M5227 R: 10/18/2021

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**100121**	20370011	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	100124			
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):	3000.4	0.06	Flask Uncertainty	

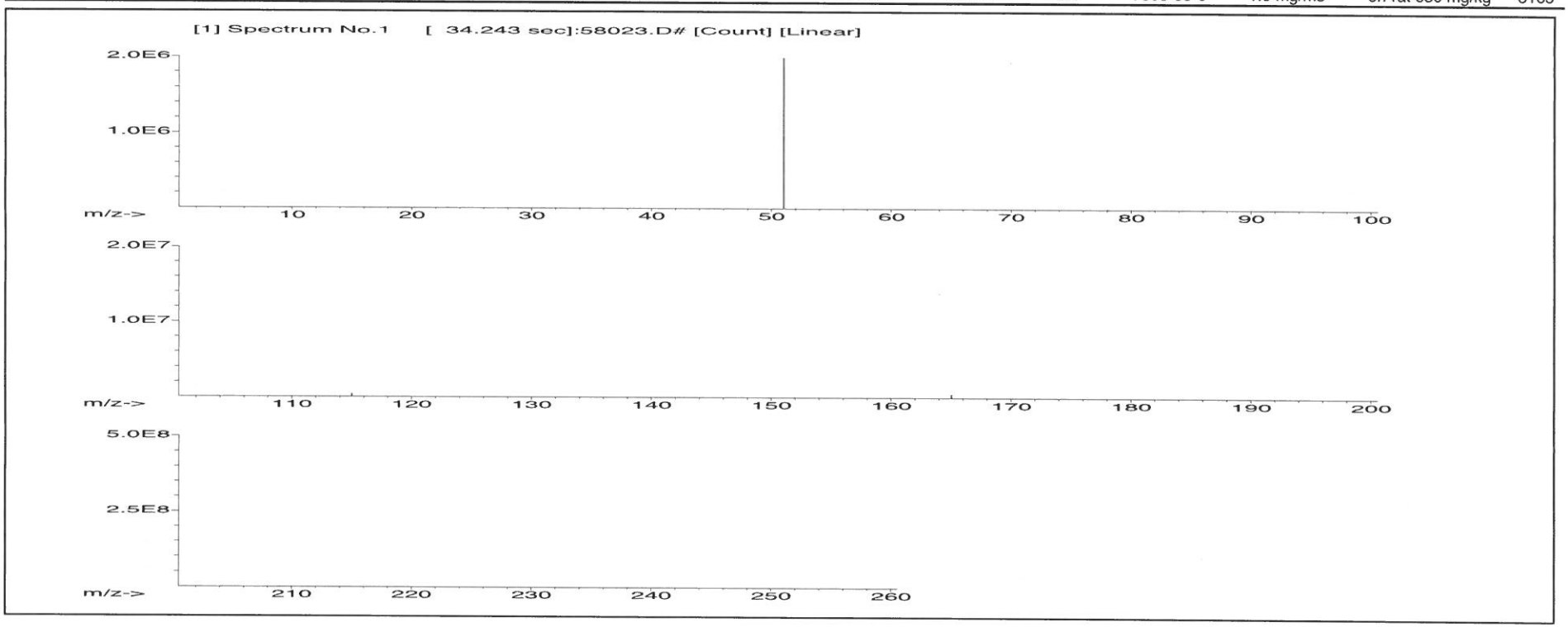
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

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	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



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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	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Part # **57023** Lot # **100121**

Printed: 11/18/2021, 11:15:07 PM

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M5289 R: 07/12/22 BH

Certified Reference Material CRM

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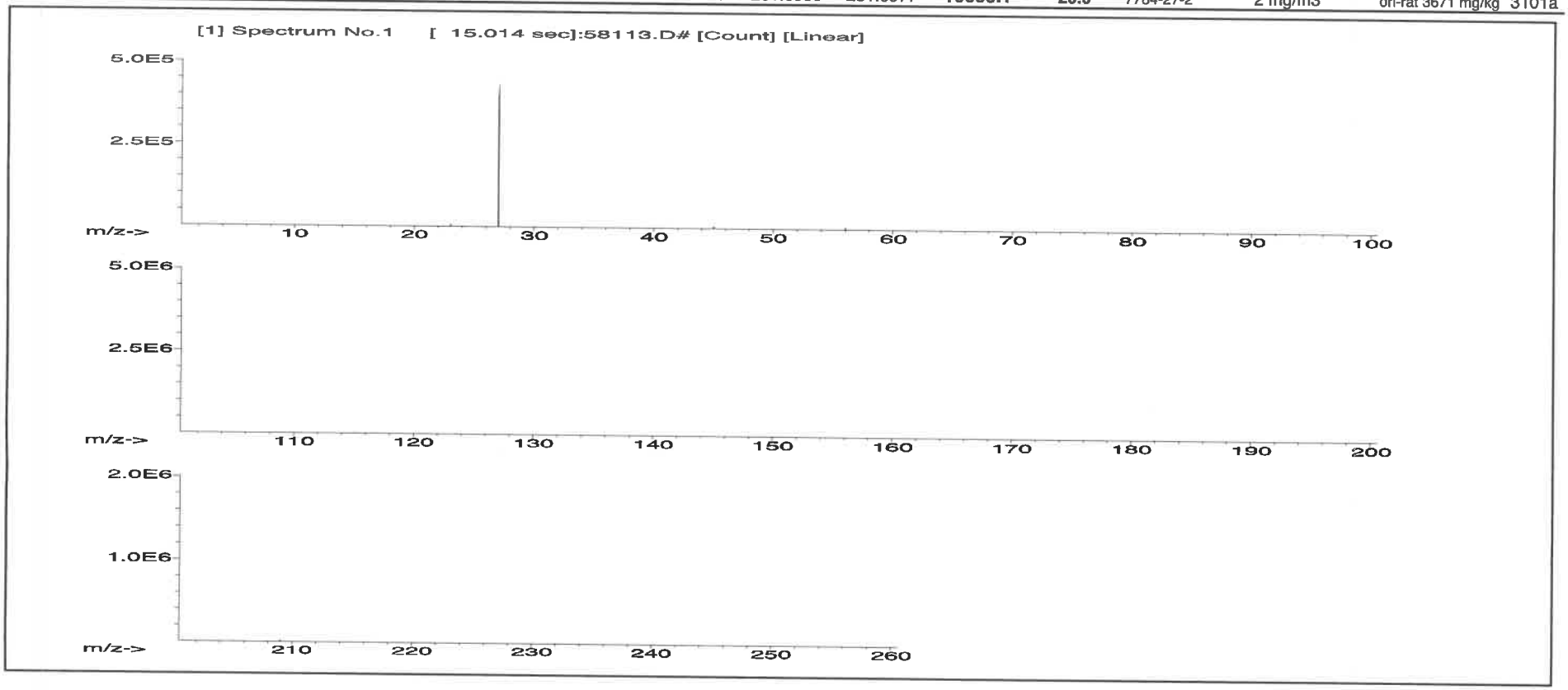
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**				
Lot Number:	**070622**				
Description:	**Aluminum (Al)**				
			Lot #		
		Solvent:	20370011	Nitric Acid	
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070625				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

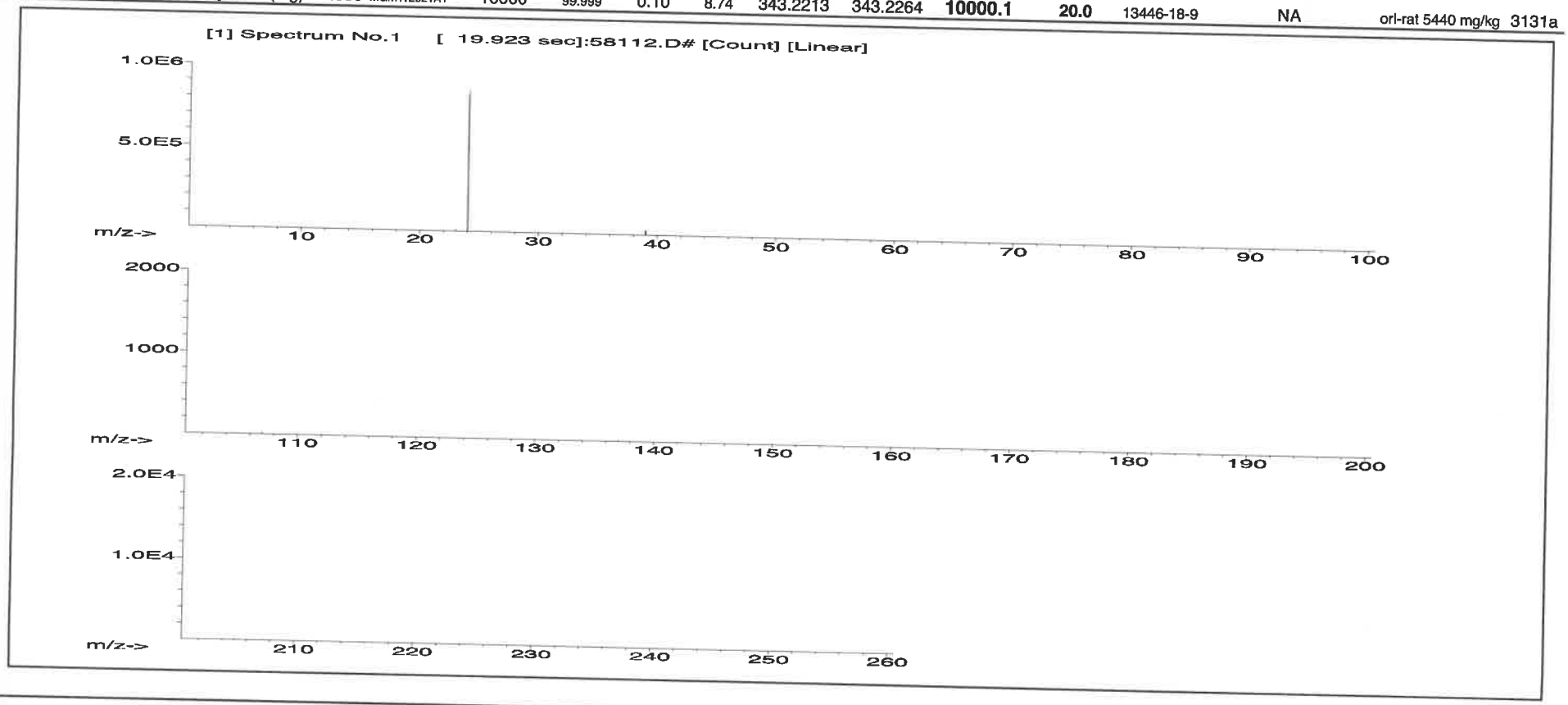
Part Number: 58112
Lot Number: 071222
Description: Magnesium (Mg)

Expiration Date: 071225
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 071222
Reviewed By: Pedro L. Rentas 071222

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	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2264	**10000.1**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	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	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) =Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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).

R : 4/20/21

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.

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

SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

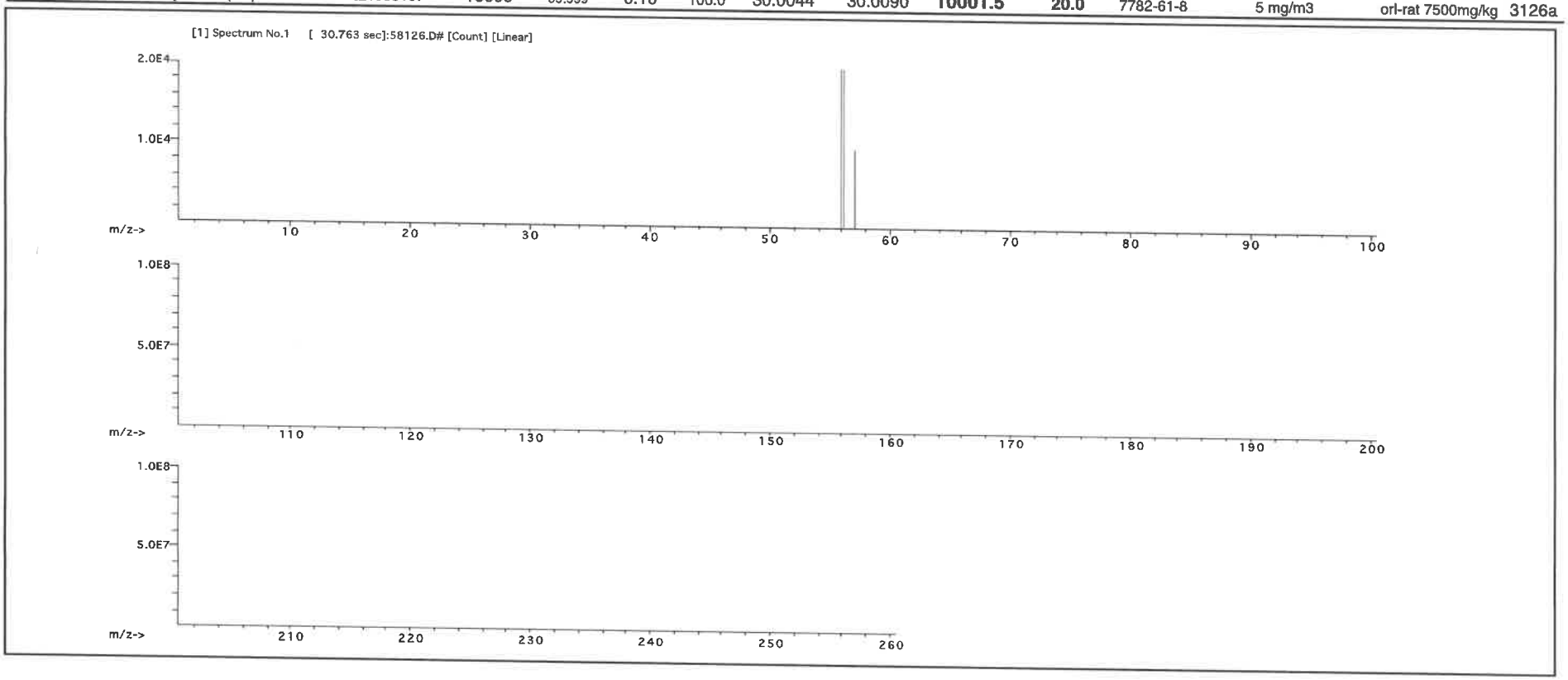
M5298

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Giovanni Esposito
Formulated By: Giovanni Esposito 020422
Reviewed By: Pedro L. Rentas 020422

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(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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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	<0.5	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	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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: 09/08/22 (BA)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

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AR-1539 Certificate Number
https://Absolutestandards.com

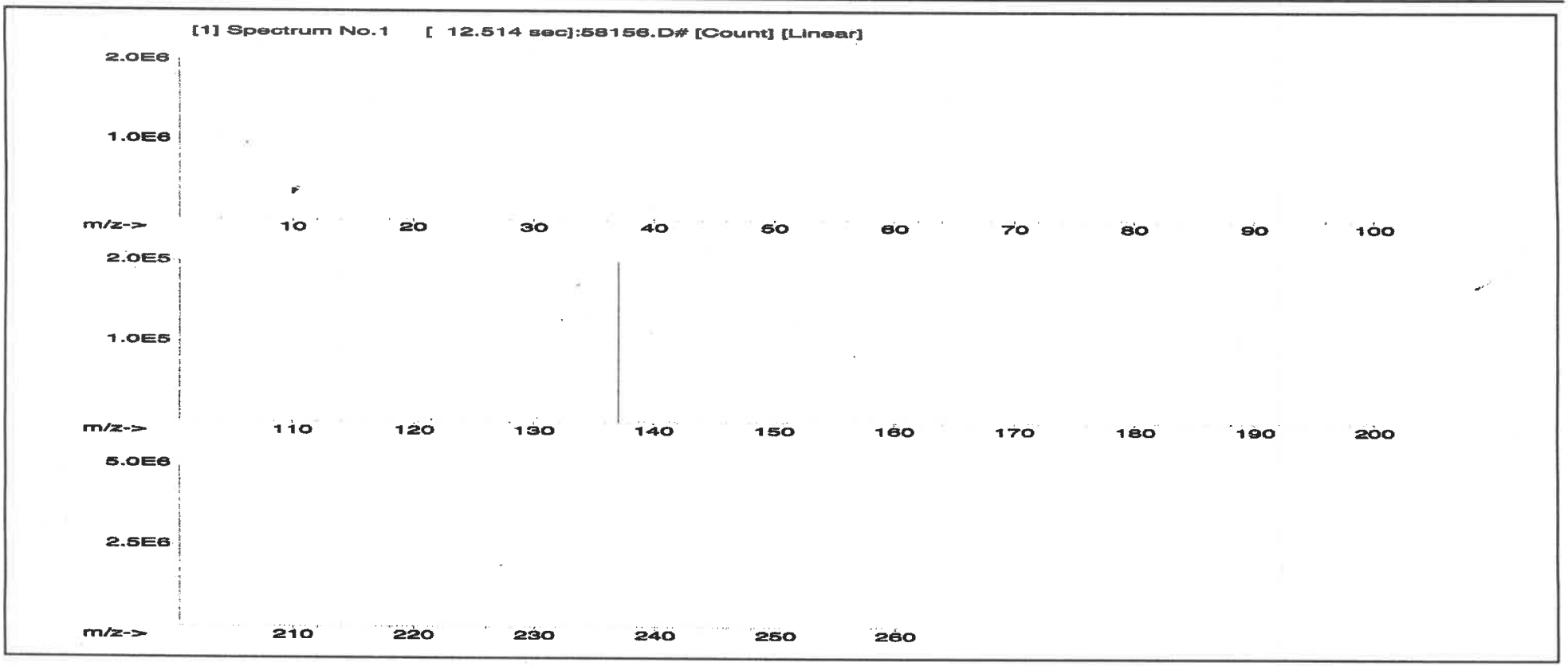
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

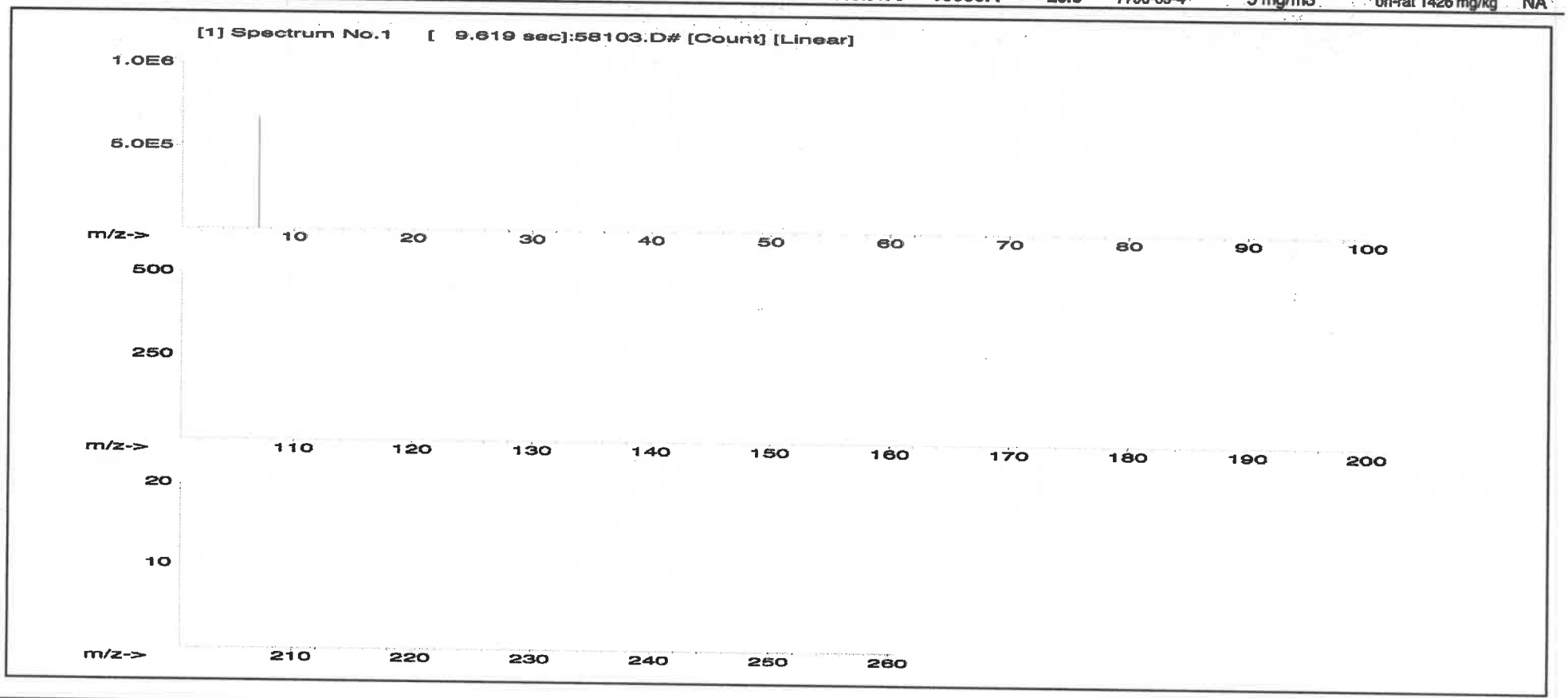
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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).

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
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	< 0.5 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	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 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	2 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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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	0.7 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	< 5.0 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	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 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	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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Avantor Performance Materials, LLC
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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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 Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
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	< 0.5 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	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 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	2 ppb

>>> Continued on page 2 >>>

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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	0.7 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	< 5.0 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	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 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	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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 Ethier
Vice President Global Quality

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R: 03/14/23 M5468

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CERTIFIED WEIGHT REPORT:

Part Number:	**58112**
Lot Number:	**120922**
Description:	**Magnesium (Mg)**
Expiration Date:	120925
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	10000
NIST Test Number:	6UTB
Weight shown below was diluted to (mL):	3000.41

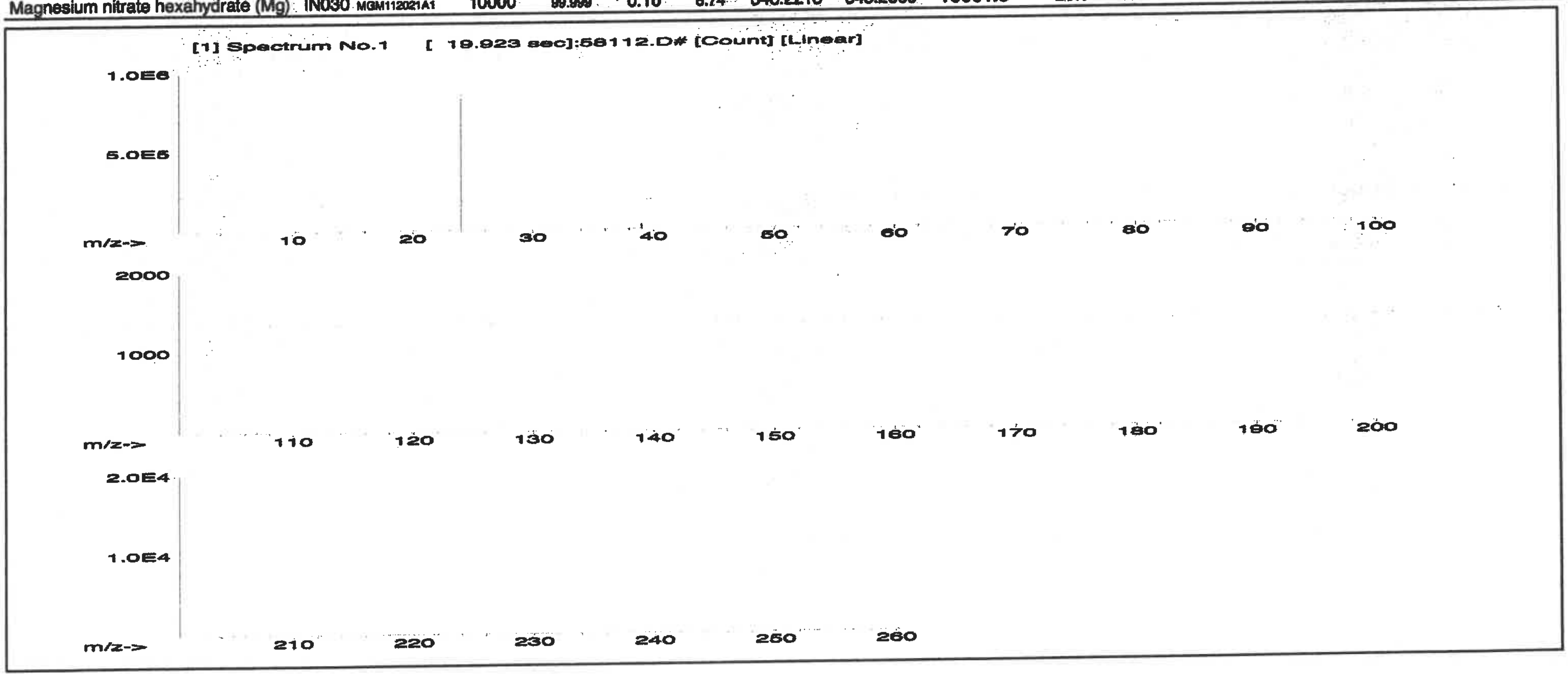
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito
Formulated By: Giovanni Esposito 120922

Pedro Rentas
Reviewed By: Pedro L. Rentas 120922

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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M 5513 R: 03/17/23 BF

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

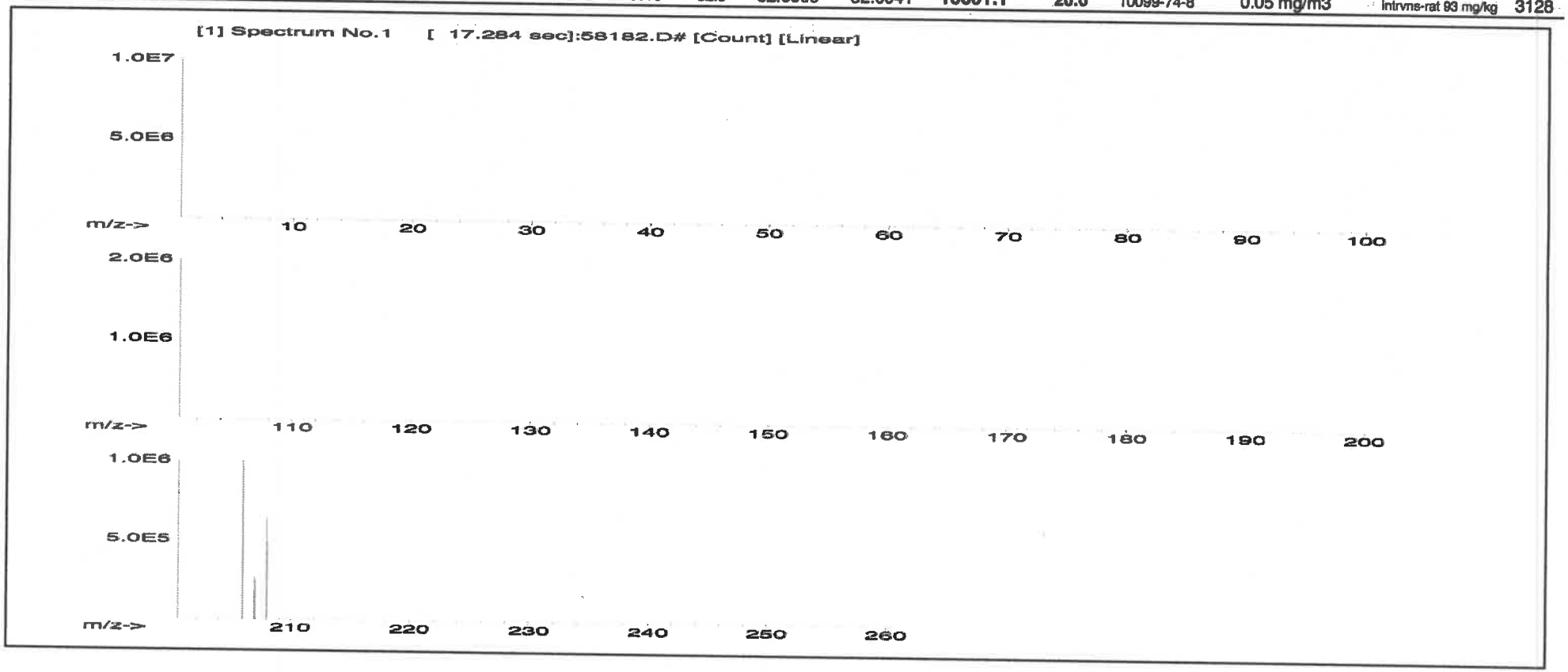
Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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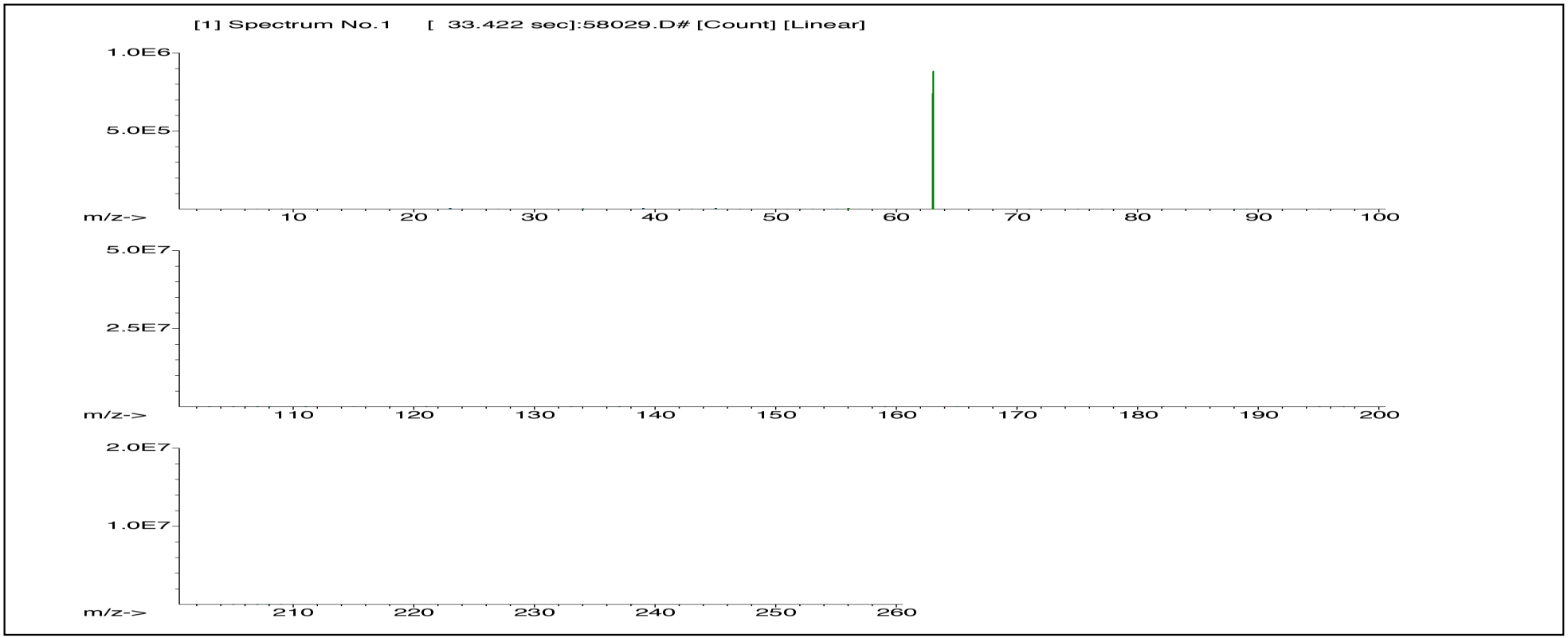
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
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:	Eli Aliaga 102622
Reviewed By:	Pedro L. Rentas 102622

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	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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Certified Reference Material CRM

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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* 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

M5522 M5523 M5524
M5525 M5526 M5527

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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

Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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Avantor Performance Materials, LLC
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Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5555 M5556 M5557
M5558

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
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	< 0.5 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	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 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	2 ppb

>>> Continued on page 2 >>>

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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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	0.7 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	< 5.0 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	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 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	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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 Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-55118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
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	< 0.5 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	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 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	2 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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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	0.7 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	< 5.0 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	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 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	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

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 Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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
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avantor™ | J.T.Baker

Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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 >>>

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avantor™ | J.T.Baker

Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

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 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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 >>>

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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
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Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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
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Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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

Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5614 M5615 M5616
M5617 M5618 M5619

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 >>>

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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 >>>

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5614 M5615 M5616
M5617 M5618 M5619

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 >>>

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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 >>>

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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Nitric Acid
CMOS

M5620 M5621 M5622
M5623 M5624

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 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	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 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	4.2 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

Material No.: 9606-03
Batch No.: 23B0262006

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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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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.: 23B0262006

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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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

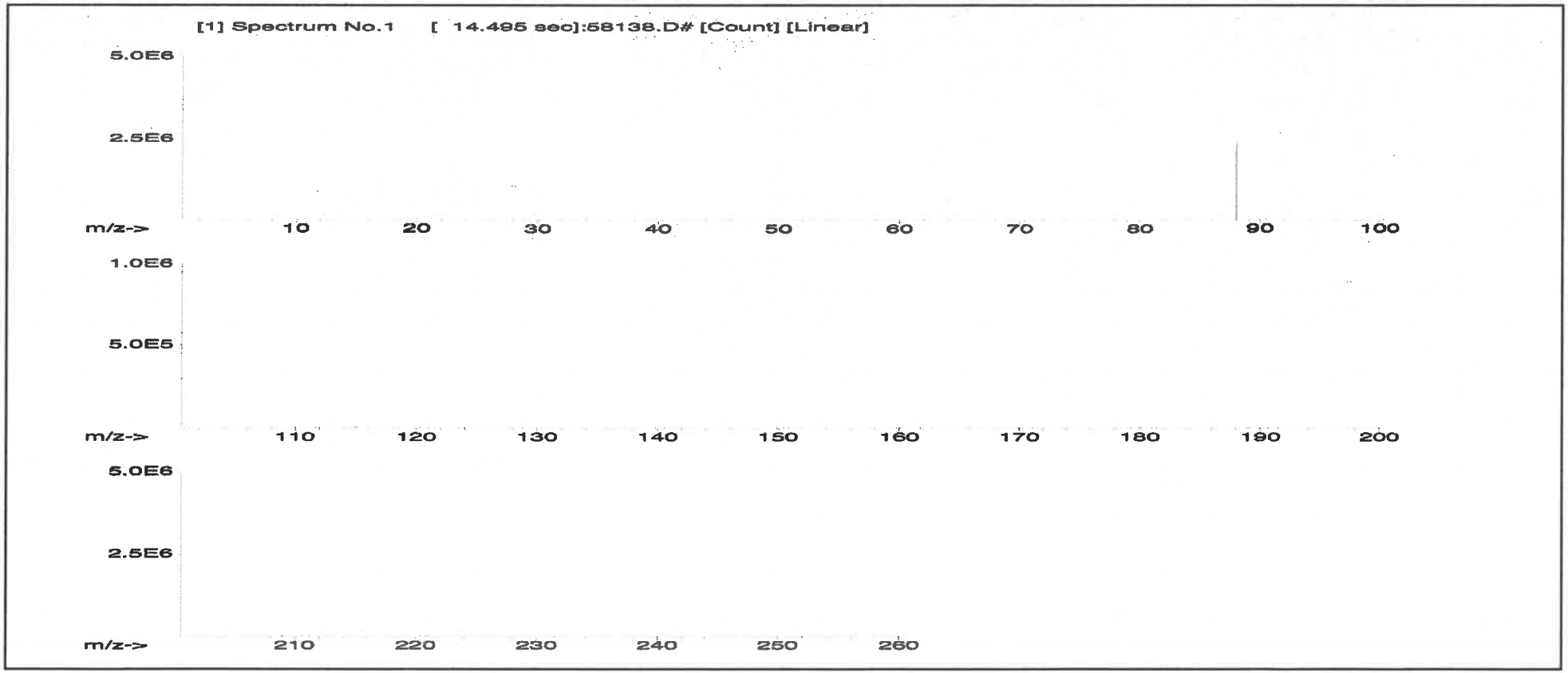
R: 03/16/23, M5469, M5470, M5471, M5472

CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**56138**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**082922**			
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid
Expiration Date:	082925			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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Certified Reference Material CRM

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	S2-MEB710999
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 ± 0.5 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.10 µg/mL
Boron, B	30.00 ± 0.20 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 ± 0.20 µg/mL	Cobalt, Co	20.00 ± 0.09 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.5 µg/mL	Lithium, Li	20.00 ± 0.09 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.09 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 ± 1.6 µg/mL	Silver, Ag	7.50 ± 0.05 µg/mL
Sodium, Na	300.0 ± 1.1 µg/mL	Strontium, Sr	20.00 ± 0.09 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: 1.037 g/mL (measured at 20 ± 4 ºC)

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	110830
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
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
Ca	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
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
Sr	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	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

- 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

October 18, 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

- **October 18, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

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-2
Lot Number:	R2-MEB693161
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	**80.0 ± 0.6 µg/mL**	**Molybdenum, Mo**	**40.00 ± 0.17 µg/mL**
Silica, SiO2	**200.0 ± 1.5 µg/mL**	**Tin, Sn**	**70.0 ± 0.3 µg/mL**
Titanium, Ti	**20.00 ± 0.12 µg/mL**		

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

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	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The follow ing 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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

May 20, 2020

- 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

- **May 20, 2024**

- 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
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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. 03645
QUOTE NO.
COC Number 2040304

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LaBella Associates
ADDRESS: 300 Pearl Street
CITY Buffalo STATE: NY ZIP: 14202
ATTENTION: Andy Benkleman
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Mackenna Parcels
PROJECT NO.: LOCATION: Niagara Falls
PROJECT MANAGER: Andy Benkleman
e-mail: abenkleman@labellapc.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME 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)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 VOCs (TCL + 5 TICs)
2 SVOCs (TCL + 10 TICs)
3 PCBs (TCL)
4 Metals + Hg (RCRA)
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	SB-02 (3-5')	Soil	C		7/12/23	1230	2	X	X	X	X						
2.	SB-04 (1-5')	Soil	C		7/12/23	1315	6	X	X	X	X						MS/MSD
3.	SB-07 (1-3')	Soil	C		7/13/23	1030	2	X	X	X	X						
4.	SB-08 (0.5-2.0')	Soil	C		7/13/23	1100	2	X	X	X	X						
5.	SB-09 (2.0-4.0')	Soil	C		7/13/23	1130	2	X	X	X	X						
6.	SB-10 (0.5-2.0')	Soil	C		7/13/23	1200	2	X	X	X	X						
7.	DUP	Soil	C		7/12/23	—	2	X	X	X	X						
8.	Rinsate Blank	H_2O		G	7/12/23	1215	4	X	X	X	X						
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/12/23	1. Sample Fridge/Freezer
2.	7/13/23	2. FEDEX
3. FedEx	7-13-23 0912	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 24.3 °C
Comments: SB-02, SB-04 and DUP frozen on 7/12/23 @ 1600

* ICE Melted

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Samantha Beazley <Samantha@chemtech.net>
Sent: Monday, July 17, 2023 11:40 AM
To: 'abenkleman@labellapc.com'
Subject: RE: Login Summary Details For Project Mackenna Parcels-O3645.

Good Morning,

Note that there was no sample volume received in the terracore kit for sample “SB-09-(2.0-4.0)”. The lab will not be able to analyze this sample for VOC.

Respectfully,

Samantha Beazley
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3148
samantha@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Monday, July 17, 2023 10:12 AM
To: abenkleman@labellapc.com
Cc: Samantha@chemtech.net
Subject: Login Summary Details For Project Mackenna Parcels-O3645.

To Andrew T. Benkleman;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: O3645
Project ID	: Mackenna Parcels
Download File	: https://chemtech.net/secureLogin.aspx
Order Date	: 7/17/2023 9:31:59 AM
CHEMTECH’s Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH’s Sales Executive	: Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
EDD Type : Excel NY SB 7/20/23
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O3645-01	SB-02-(3-5)	Solid	07/12/2023	12:30					
					VOCMS Group1		8260D	10 Bus. Days	
O3645-02	SB-04-(1-5)	Solid	07/12/2023	13:15					
					VOCMS Group1		8260D	10 Bus. Days	
O3645-03	SB-07-(1-3)	Solid	07/13/2023	10:30					
					VOCMS Group1		8260D	10 Bus. Days	
O3645-04	SB-08 ~~(10.5-2.0)~~ (0.5-2.0)	Solid	07/13/2023	11:00					
					VOCMS Group1		8260D	10 Bus. Days	
~~O3645-05~~	~~SB-09-(2.0-4.0)~~	~~Solid~~	~~07/13/2023~~	~~11:30~~					
					~~VOCMS Group1~~		~~8260D~~	~~10 Bus. Days~~	
O3645-06	SB-10-(0.5-2.0)	Solid	07/13/2023	12:00					
					VOCMS Group1		8260D	10 Bus. Days	
O3645-07	DUP	Solid	07/12/2023	00:00					
					VOCMS Group1		8260D	10 Bus. Days	
O3645-08	RINSATE-BLANK	Water	07/12/2023	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
O3645-09	O3645-02MS	Solid	07/12/2023	13:15					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
SB 7/20/23
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260D	10 Bus. Days		
O3645-10	O3645-02MSD	Solid	07/12/2023	13:15						
					VOCMS Group1		8260D	10 Bus. Days		

Relinguished By : DW
Date / Time : 7/17/23 0950

Received By : Sam
Date / Time : 7/17/23 9.50

Storage Area : VOA Refridgerator Room

Reg #6
Ext
Reg #4