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Cover Page

Order ID : O5252

Project ID : 245 Greenwood Ave

Client : RMJ Environomics, Inc.

Lab Sample Number	Client Sample Number
O5252-01	WASTE
O5252-03	WASTE-VOC

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

Signature : _____ Date: 11/21/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **O5252**

	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: **PRIYANKA DAVE** **Date:** **11/21/2023**

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

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LAB CHRONICLE

OrderID:	O5252	**OrderDate:**	11/3/2023 2:14:16 PM
Client:	RMJ Environomics, Inc.	**Project:**	245 Greenwood Ave
Contact:	Jonathan Pereira	**Location:**	I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O5252-01	**WASTE**	**SOIL**			**11/03/23**			**11/03/23**
			Mercury	7471B		11/07/23	11/07/23	
			Metals ICP-TAL	6010D		11/07/23	11/09/23	

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Hit Summary Sheet
SW-846

SDG No.: O5252 **Order ID:** O5252

Client: RMJ Environomics, Inc. **Project ID:** 245 Greenwood Ave

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WASTE								
O5252-01	WASTE	SOIL	Aluminum	3630		2.14	4.43	mg/Kg
O5252-01	WASTE	SOIL	Barium	18.3		0.43	4.43	mg/Kg
O5252-01	WASTE	SOIL	Beryllium	0.25	J	0.012	0.27	mg/Kg
O5252-01	WASTE	SOIL	Cadmium	0.74		0.012	0.27	mg/Kg
O5252-01	WASTE	SOIL	Calcium	16200		3.05	88.7	mg/Kg
O5252-01	WASTE	SOIL	Chromium	11.4		0.051	0.44	mg/Kg
O5252-01	WASTE	SOIL	Cobalt	5.27		0.035	1.33	mg/Kg
O5252-01	WASTE	SOIL	Copper	39.0		0.42	0.89	mg/Kg
O5252-01	WASTE	SOIL	Iron	15400		2.38	4.43	mg/Kg
O5252-01	WASTE	SOIL	Lead	16.5		0.13	0.53	mg/Kg
O5252-01	WASTE	SOIL	Magnesium	5730		3.85	88.7	mg/Kg
O5252-01	WASTE	SOIL	Manganese	131		0.059	0.89	mg/Kg
O5252-01	WASTE	SOIL	Mercury	0.031		0.0070	0.014	mg/Kg
O5252-01	WASTE	SOIL	Nickel	14.0		0.080	1.77	mg/Kg
O5252-01	WASTE	SOIL	Potassium	512		25.4	88.7	mg/Kg
O5252-01	WASTE	SOIL	Sodium	190		31.9	88.7	mg/Kg
O5252-01	WASTE	SOIL	Vanadium	19.0		0.30	1.77	mg/Kg
O5252-01	WASTE	SOIL	Zinc	58.8		0.13	1.77	mg/Kg

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SAMPLE DATA

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Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	11/03/23
Project:	245 Greenwood Ave	Date Received:	11/03/23
Client Sample ID:	WASTE	SDG No.:	O5252
Lab Sample ID:	O5252-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3630		1	2.14	4.43	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-36-0	Antimony	0.12	U	1	0.12	2.22	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-38-2	Arsenic	0.23	U	1	0.23	0.89	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-39-3	Barium	18.3		1	0.43	4.43	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-41-7	Beryllium	0.25	J	1	0.012	0.27	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-43-9	Cadmium	0.74		1	0.012	0.27	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-70-2	Calcium	16200		1	3.05	88.7	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-47-3	Chromium	11.4		1	0.051	0.44	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-48-4	Cobalt	5.27		1	0.035	1.33	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-50-8	Copper	39.0		1	0.42	0.89	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7439-89-6	Iron	15400		1	2.38	4.43	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7439-92-1	Lead	16.5		1	0.13	0.53	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7439-95-4	Magnesium	5730		1	3.85	88.7	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7439-96-5	Manganese	131		1	0.059	0.89	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7439-97-6	Mercury	0.031	*	1	0.0070	0.014	mg/Kg	11/07/23 13:05	11/07/23 16:35	SW7471B	
7440-02-0	Nickel	14.0		1	0.080	1.77	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-09-7	Potassium	512		1	25.4	88.7	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	0.89	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-22-4	Silver	0.056	UN	1	0.056	0.44	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-23-5	Sodium	190		1	31.9	88.7	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-28-0	Thallium	0.39	U	1	0.39	1.77	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-62-2	Vanadium	19.0		1	0.30	1.77	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050
7440-66-6	Zinc	58.8		1	0.13	1.77	mg/Kg	11/07/23 12:30	11/09/23 12:00	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	TCL+30/TAL				

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

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

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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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
ICV61	Mercury	3.90	4.0	98	90 - 110	CV	11/07/2023	16:12	LB128217

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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
CCV74	Mercury	4.96	5.0	99	90 - 110	CV	11/07/2023	16:17	LB128217
CCV75	Mercury	4.95	5.0	99	90 - 110	CV	11/07/2023	16:44	LB128217
CCV76	Mercury	4.98	5.0	100	90 - 110	CV	11/07/2023	17:21	LB128217
CCV77	Mercury	4.93	5.0	99	90 - 110	CV	11/07/2023	17:34	LB128217

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2500	2500	100	90 - 110	P	11/09/2023	11:16	LB128258
	Antimony	1000	1000	100	90 - 110	P	11/09/2023	11:16	LB128258
	Arsenic	1070	1000	106	90 - 110	P	11/09/2023	11:16	LB128258
	Barium	479	520	92	90 - 110	P	11/09/2023	11:16	LB128258
	Beryllium	516	510	101	90 - 110	P	11/09/2023	11:16	LB128258
	Cadmium	521	510	102	90 - 110	P	11/09/2023	11:16	LB128258
	Calcium	9970	10000	100	90 - 110	P	11/09/2023	11:16	LB128258
	Chromium	518	520	100	90 - 110	P	11/09/2023	11:16	LB128258
	Cobalt	505	520	97	90 - 110	P	11/09/2023	11:16	LB128258
	Copper	522	510	102	90 - 110	P	11/09/2023	11:16	LB128258
	Iron	9860	10000	99	90 - 110	P	11/09/2023	11:16	LB128258
	Lead	1030	1000	103	90 - 110	P	11/09/2023	11:16	LB128258
	Magnesium	5880	6000	98	90 - 110	P	11/09/2023	11:16	LB128258
	Manganese	515	520	99	90 - 110	P	11/09/2023	11:16	LB128258
	Nickel	510	530	96	90 - 110	P	11/09/2023	11:16	LB128258
	Potassium	9900	9900	100	90 - 110	P	11/09/2023	11:16	LB128258
	Selenium	1080	1000	108	90 - 110	P	11/09/2023	11:16	LB128258
	Silver	255	250	102	90 - 110	P	11/09/2023	11:16	LB128258
	Sodium	9920	10000	99	90 - 110	P	11/09/2023	11:16	LB128258
	Thallium	1030	1000	103	90 - 110	P	11/09/2023	11:16	LB128258
	Vanadium	498	500	100	90 - 110	P	11/09/2023	11:16	LB128258
	Zinc	1010	1000	101	90 - 110	P	11/09/2023	11:16	LB128258

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	94.5	100	94	80 - 120	P	11/09/2023	11:20	LB128258
	Antimony	49.6	50.0	99	80 - 120	P	11/09/2023	11:20	LB128258
	Arsenic	17.5	20.0	88	80 - 120	P	11/09/2023	11:20	LB128258
	Barium	93.3	100	93	80 - 120	P	11/09/2023	11:20	LB128258
	Beryllium	6.14	6.0	102	80 - 120	P	11/09/2023	11:20	LB128258
	Cadmium	6.23	6.0	104	80 - 120	P	11/09/2023	11:20	LB128258
	Calcium	1990	2000	99	80 - 120	P	11/09/2023	11:20	LB128258
	Chromium	9.32	10.0	93	80 - 120	P	11/09/2023	11:20	LB128258
	Cobalt	29.3	30.0	98	80 - 120	P	11/09/2023	11:20	LB128258
	Copper	21.1	20.0	106	80 - 120	P	11/09/2023	11:20	LB128258
	Iron	105	100	105	80 - 120	P	11/09/2023	11:20	LB128258
	Lead	13.5	12.0	112	80 - 120	P	11/09/2023	11:20	LB128258
	Magnesium	2120	2000	106	80 - 120	P	11/09/2023	11:20	LB128258
	Manganese	20.3	20.0	101	80 - 120	P	11/09/2023	11:20	LB128258
	Nickel	39.8	40.0	99	80 - 120	P	11/09/2023	11:20	LB128258
	Potassium	1950	2000	97	80 - 120	P	11/09/2023	11:20	LB128258
	Selenium	18.5	20.0	93	80 - 120	P	11/09/2023	11:20	LB128258
	Silver	9.77	10.0	98	80 - 120	P	11/09/2023	11:20	LB128258
	Sodium	2010	2000	100	80 - 120	P	11/09/2023	11:20	LB128258
	Thallium	40.8	40.0	102	80 - 120	P	11/09/2023	11:20	LB128258
	Vanadium	40.0	40.0	100	80 - 120	P	11/09/2023	11:20	LB128258
	Zinc	40.6	40.0	102	80 - 120	P	11/09/2023	11:20	LB128258

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9800	10000	98	90 - 110	P	11/09/2023	11:40	LB128258
	Antimony	4790	5000	96	90 - 110	P	11/09/2023	11:40	LB128258
	Arsenic	4840	5000	97	90 - 110	P	11/09/2023	11:40	LB128258
	Barium	9850	10000	98	90 - 110	P	11/09/2023	11:40	LB128258
	Beryllium	244	250	97	90 - 110	P	11/09/2023	11:40	LB128258
	Cadmium	2460	2500	98	90 - 110	P	11/09/2023	11:40	LB128258
	Calcium	24500	25000	98	90 - 110	P	11/09/2023	11:40	LB128258
	Chromium	973	1000	97	90 - 110	P	11/09/2023	11:40	LB128258
	Cobalt	2410	2500	96	90 - 110	P	11/09/2023	11:40	LB128258
	Copper	1210	1250	97	90 - 110	P	11/09/2023	11:40	LB128258
	Iron	4690	5000	94	90 - 110	P	11/09/2023	11:40	LB128258
	Lead	4940	5000	99	90 - 110	P	11/09/2023	11:40	LB128258
	Magnesium	24500	25000	98	90 - 110	P	11/09/2023	11:40	LB128258
	Manganese	2470	2500	99	90 - 110	P	11/09/2023	11:40	LB128258
	Nickel	2410	2500	96	90 - 110	P	11/09/2023	11:40	LB128258
	Potassium	23600	25000	94	90 - 110	P	11/09/2023	11:40	LB128258
	Selenium	4810	5000	96	90 - 110	P	11/09/2023	11:40	LB128258
	Silver	1190	1250	95	90 - 110	P	11/09/2023	11:40	LB128258
	Sodium	23500	25000	94	90 - 110	P	11/09/2023	11:40	LB128258
	Thallium	5130	5000	103	90 - 110	P	11/09/2023	11:40	LB128258
	Vanadium	2450	2500	98	90 - 110	P	11/09/2023	11:40	LB128258
	Zinc	2410	2500	96	90 - 110	P	11/09/2023	11:40	LB128258

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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	Aluminum	83.4	100	83	80 - 120	P	11/09/2023	11:44	LB128258
	Antimony	48.1	50.0	96	80 - 120	P	11/09/2023	11:44	LB128258
	Arsenic	19.4	20.0	97	80 - 120	P	11/09/2023	11:44	LB128258
	Barium	90.8	100	91	80 - 120	P	11/09/2023	11:44	LB128258
	Beryllium	5.94	6.0	99	80 - 120	P	11/09/2023	11:44	LB128258
	Cadmium	6.25	6.0	104	80 - 120	P	11/09/2023	11:44	LB128258
	Calcium	1990	2000	100	80 - 120	P	11/09/2023	11:44	LB128258
	Chromium	9.41	10.0	94	80 - 120	P	11/09/2023	11:44	LB128258
	Cobalt	28.3	30.0	94	80 - 120	P	11/09/2023	11:44	LB128258
	Copper	21.3	20.0	106	80 - 120	P	11/09/2023	11:44	LB128258
	Iron	98.7	100	99	80 - 120	P	11/09/2023	11:44	LB128258
	Lead	12.0	12.0	100	80 - 120	P	11/09/2023	11:44	LB128258
	Magnesium	2100	2000	105	80 - 120	P	11/09/2023	11:44	LB128258
	Manganese	19.8	20.0	99	80 - 120	P	11/09/2023	11:44	LB128258
	Nickel	37.6	40.0	94	80 - 120	P	11/09/2023	11:44	LB128258
	Potassium	1870	2000	93	80 - 120	P	11/09/2023	11:44	LB128258
	Selenium	18.3	20.0	92	80 - 120	P	11/09/2023	11:44	LB128258
	Silver	9.34	10.0	93	80 - 120	P	11/09/2023	11:44	LB128258
	Sodium	1850	2000	93	80 - 120	P	11/09/2023	11:44	LB128258
	Thallium	36.2	40.0	91	80 - 120	P	11/09/2023	11:44	LB128258
	Vanadium	38.9	40.0	97	80 - 120	P	11/09/2023	11:44	LB128258
	Zinc	38.6	40.0	96	80 - 120	P	11/09/2023	11:44	LB128258

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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	Aluminum	9750	10000	98	90 - 110	P	11/09/2023	12:30	LB128258
	Antimony	4960	5000	99	90 - 110	P	11/09/2023	12:30	LB128258
	Arsenic	5070	5000	101	90 - 110	P	11/09/2023	12:30	LB128258
	Barium	9740	10000	97	90 - 110	P	11/09/2023	12:30	LB128258
	Beryllium	245	250	98	90 - 110	P	11/09/2023	12:30	LB128258
	Cadmium	2520	2500	101	90 - 110	P	11/09/2023	12:30	LB128258
	Calcium	24400	25000	98	90 - 110	P	11/09/2023	12:30	LB128258
	Chromium	981	1000	98	90 - 110	P	11/09/2023	12:30	LB128258
	Cobalt	2460	2500	98	90 - 110	P	11/09/2023	12:30	LB128258
	Copper	1240	1250	99	90 - 110	P	11/09/2023	12:30	LB128258
	Iron	4820	5000	96	90 - 110	P	11/09/2023	12:30	LB128258
	Lead	5050	5000	101	90 - 110	P	11/09/2023	12:30	LB128258
	Magnesium	24300	25000	97	90 - 110	P	11/09/2023	12:30	LB128258
	Manganese	2480	2500	99	90 - 110	P	11/09/2023	12:30	LB128258
	Nickel	2470	2500	99	90 - 110	P	11/09/2023	12:30	LB128258
	Potassium	24300	25000	97	90 - 110	P	11/09/2023	12:30	LB128258
	Selenium	5090	5000	102	90 - 110	P	11/09/2023	12:30	LB128258
	Silver	1220	1250	98	90 - 110	P	11/09/2023	12:30	LB128258
	Sodium	24300	25000	97	90 - 110	P	11/09/2023	12:30	LB128258
	Thallium	4570	5000	91	90 - 110	P	11/09/2023	12:30	LB128258
	Vanadium	2430	2500	97	90 - 110	P	11/09/2023	12:30	LB128258
	Zinc	2450	2500	98	90 - 110	P	11/09/2023	12:30	LB128258
CCV03	Aluminum	9830	10000	98	90 - 110	P	11/09/2023	12:57	LB128258
	Antimony	4990	5000	100	90 - 110	P	11/09/2023	12:57	LB128258
	Arsenic	5060	5000	101	90 - 110	P	11/09/2023	12:57	LB128258
	Barium	9800	10000	98	90 - 110	P	11/09/2023	12:57	LB128258
	Beryllium	244	250	98	90 - 110	P	11/09/2023	12:57	LB128258
	Cadmium	2530	2500	101	90 - 110	P	11/09/2023	12:57	LB128258
	Calcium	24400	25000	98	90 - 110	P	11/09/2023	12:57	LB128258
	Chromium	981	1000	98	90 - 110	P	11/09/2023	12:57	LB128258
	Cobalt	2480	2500	99	90 - 110	P	11/09/2023	12:57	LB128258
	Copper	1250	1250	100	90 - 110	P	11/09/2023	12:57	LB128258
	Iron	4860	5000	97	90 - 110	P	11/09/2023	12:57	LB128258
	Lead	5070	5000	101	90 - 110	P	11/09/2023	12:57	LB128258

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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	Magnesium	24200	25000	97	90 - 110	P	11/09/2023	12:57	LB128258
	Manganese	2470	2500	99	90 - 110	P	11/09/2023	12:57	LB128258
	Nickel	2480	2500	99	90 - 110	P	11/09/2023	12:57	LB128258
	Potassium	24300	25000	97	90 - 110	P	11/09/2023	12:57	LB128258
	Selenium	5080	5000	102	90 - 110	P	11/09/2023	12:57	LB128258
	Silver	1220	1250	97	90 - 110	P	11/09/2023	12:57	LB128258
	Sodium	24300	25000	97	90 - 110	P	11/09/2023	12:57	LB128258
	Thallium	5030	5000	101	90 - 110	P	11/09/2023	12:57	LB128258
	Vanadium	2440	2500	98	90 - 110	P	11/09/2023	12:57	LB128258
	Zinc	2440	2500	98	90 - 110	P	11/09/2023	12:57	LB128258
CCV04	Aluminum	9830	10000	98	90 - 110	P	11/09/2023	14:00	LB128258
	Antimony	5070	5000	101	90 - 110	P	11/09/2023	14:00	LB128258
	Arsenic	5200	5000	104	90 - 110	P	11/09/2023	14:00	LB128258
	Barium	9750	10000	98	90 - 110	P	11/09/2023	14:00	LB128258
	Beryllium	250	250	100	90 - 110	P	11/09/2023	14:00	LB128258
	Cadmium	2560	2500	102	90 - 110	P	11/09/2023	14:00	LB128258
	Calcium	24400	25000	97	90 - 110	P	11/09/2023	14:00	LB128258
	Chromium	997	1000	100	90 - 110	P	11/09/2023	14:00	LB128258
	Cobalt	2490	2500	100	90 - 110	P	11/09/2023	14:00	LB128258
	Copper	1260	1250	101	90 - 110	P	11/09/2023	14:00	LB128258
	Iron	4980	5000	100	90 - 110	P	11/09/2023	14:00	LB128258
	Lead	5110	5000	102	90 - 110	P	11/09/2023	14:00	LB128258
	Magnesium	24200	25000	97	90 - 110	P	11/09/2023	14:00	LB128258
	Manganese	2460	2500	98	90 - 110	P	11/09/2023	14:00	LB128258
	Nickel	2500	2500	100	90 - 110	P	11/09/2023	14:00	LB128258
	Potassium	25000	25000	100	90 - 110	P	11/09/2023	14:00	LB128258
	Selenium	5290	5000	106	90 - 110	P	11/09/2023	14:00	LB128258
	Silver	1250	1250	100	90 - 110	P	11/09/2023	14:00	LB128258
	Sodium	25000	25000	100	90 - 110	P	11/09/2023	14:00	LB128258
	Thallium	5170	5000	103	90 - 110	P	11/09/2023	14:00	LB128258
	Vanadium	2430	2500	97	90 - 110	P	11/09/2023	14:00	LB128258
	Zinc	2500	2500	100	90 - 110	P	11/09/2023	14:00	LB128258
CCV05	Aluminum	9770	10000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Antimony	4870	5000	97	90 - 110	P	11/09/2023	14:46	LB128258

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4930	5000	99	90 - 110	P	11/09/2023	14:46	LB128258
	Barium	9760	10000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Beryllium	240	250	96	90 - 110	P	11/09/2023	14:46	LB128258
	Cadmium	2480	2500	99	90 - 110	P	11/09/2023	14:46	LB128258
	Calcium	24400	25000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Chromium	981	1000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Cobalt	2450	2500	98	90 - 110	P	11/09/2023	14:46	LB128258
	Copper	1230	1250	98	90 - 110	P	11/09/2023	14:46	LB128258
	Iron	4870	5000	97	90 - 110	P	11/09/2023	14:46	LB128258
	Lead	4970	5000	99	90 - 110	P	11/09/2023	14:46	LB128258
	Magnesium	24000	25000	96	90 - 110	P	11/09/2023	14:46	LB128258
	Manganese	2460	2500	98	90 - 110	P	11/09/2023	14:46	LB128258
	Nickel	2440	2500	98	90 - 110	P	11/09/2023	14:46	LB128258
	Potassium	24500	25000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Selenium	4920	5000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Silver	1220	1250	97	90 - 110	P	11/09/2023	14:46	LB128258
	Sodium	24400	25000	98	90 - 110	P	11/09/2023	14:46	LB128258
	Thallium	5050	5000	101	90 - 110	P	11/09/2023	14:46	LB128258
	Vanadium	2430	2500	97	90 - 110	P	11/09/2023	14:46	LB128258
	Zinc	2420	2500	97	90 - 110	P	11/09/2023	14:46	LB128258
CCV06	Aluminum	9700	10000	97	90 - 110	P	11/09/2023	15:33	LB128258
	Antimony	5070	5000	101	90 - 110	P	11/09/2023	15:33	LB128258
	Arsenic	5220	5000	104	90 - 110	P	11/09/2023	15:33	LB128258
	Barium	9630	10000	96	90 - 110	P	11/09/2023	15:33	LB128258
	Beryllium	241	250	96	90 - 110	P	11/09/2023	15:33	LB128258
	Cadmium	2540	2500	102	90 - 110	P	11/09/2023	15:33	LB128258
	Calcium	24200	25000	97	90 - 110	P	11/09/2023	15:33	LB128258
	Chromium	994	1000	99	90 - 110	P	11/09/2023	15:33	LB128258
	Cobalt	2490	2500	100	90 - 110	P	11/09/2023	15:33	LB128258
	Copper	1260	1250	101	90 - 110	P	11/09/2023	15:33	LB128258
	Iron	5040	5000	101	90 - 110	P	11/09/2023	15:33	LB128258
	Lead	5060	5000	101	90 - 110	P	11/09/2023	15:33	LB128258
	Magnesium	23700	25000	95	90 - 110	P	11/09/2023	15:33	LB128258
	Manganese	2450	2500	98	90 - 110	P	11/09/2023	15:33	LB128258

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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	2490	2500	100	90 - 110	P	11/09/2023	15:33	LB128258
	Potassium	26200	25000	105	90 - 110	P	11/09/2023	15:33	LB128258
	Selenium	5290	5000	106	90 - 110	P	11/09/2023	15:33	LB128258
	Silver	1260	1250	101	90 - 110	P	11/09/2023	15:33	LB128258
	Sodium	26700	25000	107	90 - 110	P	11/09/2023	15:33	LB128258
	Thallium	5090	5000	102	90 - 110	P	11/09/2023	15:33	LB128258
	Vanadium	2390	2500	96	90 - 110	P	11/09/2023	15:33	LB128258
	Zinc	2510	2500	100	90 - 110	P	11/09/2023	15:33	LB128258
CCV07	Aluminum	9940	10000	99	90 - 110	P	11/09/2023	16:19	LB128258
	Antimony	5030	5000	101	90 - 110	P	11/09/2023	16:19	LB128258
	Arsenic	5150	5000	103	90 - 110	P	11/09/2023	16:19	LB128258
	Barium	9780	10000	98	90 - 110	P	11/09/2023	16:19	LB128258
	Beryllium	247	250	99	90 - 110	P	11/09/2023	16:19	LB128258
	Cadmium	2530	2500	101	90 - 110	P	11/09/2023	16:19	LB128258
	Calcium	24700	25000	99	90 - 110	P	11/09/2023	16:19	LB128258
	Chromium	1010	1000	101	90 - 110	P	11/09/2023	16:19	LB128258
	Cobalt	2480	2500	99	90 - 110	P	11/09/2023	16:19	LB128258
	Copper	1260	1250	100	90 - 110	P	11/09/2023	16:19	LB128258
	Iron	5090	5000	102	90 - 110	P	11/09/2023	16:19	LB128258
	Lead	5030	5000	101	90 - 110	P	11/09/2023	16:19	LB128258
	Magnesium	24100	25000	96	90 - 110	P	11/09/2023	16:19	LB128258
	Manganese	2490	2500	100	90 - 110	P	11/09/2023	16:19	LB128258
	Nickel	2470	2500	99	90 - 110	P	11/09/2023	16:19	LB128258
	Potassium	25800	25000	103	90 - 110	P	11/09/2023	16:19	LB128258
	Selenium	5230	5000	105	90 - 110	P	11/09/2023	16:19	LB128258
	Silver	1280	1250	102	90 - 110	P	11/09/2023	16:19	LB128258
	Sodium	26000	25000	104	90 - 110	P	11/09/2023	16:19	LB128258
	Thallium	5190	5000	104	90 - 110	P	11/09/2023	16:19	LB128258
	Vanadium	2430	2500	97	90 - 110	P	11/09/2023	16:19	LB128258
	Zinc	2560	2500	102	90 - 110	P	11/09/2023	16:19	LB128258
CCV08	Aluminum	9760	10000	98	90 - 110	P	11/09/2023	17:07	LB128258
	Antimony	4810	5000	96	90 - 110	P	11/09/2023	17:07	LB128258
	Arsenic	4860	5000	97	90 - 110	P	11/09/2023	17:07	LB128258
	Barium	9600	10000	96	90 - 110	P	11/09/2023	17:07	LB128258

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Beryllium	238	250	95	90 - 110	P	11/09/2023	17:07	LB128258
	Cadmium	2430	2500	97	90 - 110	P	11/09/2023	17:07	LB128258
	Calcium	24300	25000	97	90 - 110	P	11/09/2023	17:07	LB128258
	Chromium	971	1000	97	90 - 110	P	11/09/2023	17:07	LB128258
	Cobalt	2410	2500	96	90 - 110	P	11/09/2023	17:07	LB128258
	Copper	1220	1250	98	90 - 110	P	11/09/2023	17:07	LB128258
	Iron	4790	5000	96	90 - 110	P	11/09/2023	17:07	LB128258
	Lead	4860	5000	97	90 - 110	P	11/09/2023	17:07	LB128258
	Magnesium	23700	25000	95	90 - 110	P	11/09/2023	17:07	LB128258
	Manganese	2450	2500	98	90 - 110	P	11/09/2023	17:07	LB128258
	Nickel	2390	2500	96	90 - 110	P	11/09/2023	17:07	LB128258
	Potassium	24400	25000	98	90 - 110	P	11/09/2023	17:07	LB128258
	Selenium	4870	5000	97	90 - 110	P	11/09/2023	17:07	LB128258
	Silver	1210	1250	96	90 - 110	P	11/09/2023	17:07	LB128258
	Sodium	24400	25000	98	90 - 110	P	11/09/2023	17:07	LB128258
	Thallium	4920	5000	98	90 - 110	P	11/09/2023	17:07	LB128258
	Vanadium	2400	2500	96	90 - 110	P	11/09/2023	17:07	LB128258
	Zinc	2400	2500	96	90 - 110	P	11/09/2023	17:07	LB128258
CCV09	Aluminum	9760	10000	98	90 - 110	P	11/09/2023	17:56	LB128258
	Antimony	4950	5000	99	90 - 110	P	11/09/2023	17:56	LB128258
	Arsenic	5090	5000	102	90 - 110	P	11/09/2023	17:56	LB128258
	Barium	9560	10000	96	90 - 110	P	11/09/2023	17:56	LB128258
	Beryllium	245	250	98	90 - 110	P	11/09/2023	17:56	LB128258
	Cadmium	2500	2500	100	90 - 110	P	11/09/2023	17:56	LB128258
	Calcium	24300	25000	97	90 - 110	P	11/09/2023	17:56	LB128258
	Chromium	986	1000	99	90 - 110	P	11/09/2023	17:56	LB128258
	Cobalt	2470	2500	99	90 - 110	P	11/09/2023	17:56	LB128258
	Copper	1250	1250	100	90 - 110	P	11/09/2023	17:56	LB128258
	Iron	4900	5000	98	90 - 110	P	11/09/2023	17:56	LB128258
	Lead	4980	5000	100	90 - 110	P	11/09/2023	17:56	LB128258
	Magnesium	23800	25000	95	90 - 110	P	11/09/2023	17:56	LB128258
	Manganese	2450	2500	98	90 - 110	P	11/09/2023	17:56	LB128258
	Nickel	2450	2500	98	90 - 110	P	11/09/2023	17:56	LB128258
	Potassium	25000	25000	100	90 - 110	P	11/09/2023	17:56	LB128258

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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
CCV09	Selenium	5110	5000	102	90 - 110	P	11/09/2023	17:56	LB128258
	Silver	1240	1250	99	90 - 110	P	11/09/2023	17:56	LB128258
	Sodium	25100	25000	101	90 - 110	P	11/09/2023	17:56	LB128258
	Thallium	4890	5000	98	90 - 110	P	11/09/2023	17:56	LB128258
	Vanadium	2390	2500	96	90 - 110	P	11/09/2023	17:56	LB128258
	Zinc	2470	2500	99	90 - 110	P	11/09/2023	17:56	LB128258
CCV10	Aluminum	9710	10000	97	90 - 110	P	11/09/2023	18:32	LB128258
	Antimony	4740	5000	95	90 - 110	P	11/09/2023	18:32	LB128258
	Arsenic	4800	5000	96	90 - 110	P	11/09/2023	18:32	LB128258
	Barium	9530	10000	95	90 - 110	P	11/09/2023	18:32	LB128258
	Beryllium	244	250	98	90 - 110	P	11/09/2023	18:32	LB128258
	Cadmium	2420	2500	97	90 - 110	P	11/09/2023	18:32	LB128258
	Calcium	24100	25000	96	90 - 110	P	11/09/2023	18:32	LB128258
	Chromium	958	1000	96	90 - 110	P	11/09/2023	18:32	LB128258
	Cobalt	2400	2500	96	90 - 110	P	11/09/2023	18:32	LB128258
	Copper	1200	1250	96	90 - 110	P	11/09/2023	18:32	LB128258
	Iron	4560	5000	91	90 - 110	P	11/09/2023	18:32	LB128258
	Lead	4860	5000	97	90 - 110	P	11/09/2023	18:32	LB128258
	Magnesium	23800	25000	95	90 - 110	P	11/09/2023	18:32	LB128258
	Manganese	2440	2500	98	90 - 110	P	11/09/2023	18:32	LB128258
	Nickel	2380	2500	95	90 - 110	P	11/09/2023	18:32	LB128258
	Potassium	23400	25000	94	90 - 110	P	11/09/2023	18:32	LB128258
	Selenium	4780	5000	96	90 - 110	P	11/09/2023	18:32	LB128258
	Silver	1180	1250	95	90 - 110	P	11/09/2023	18:32	LB128258
	Sodium	23200	25000	93	90 - 110	P	11/09/2023	18:32	LB128258
	Thallium	4900	5000	98	90 - 110	P	11/09/2023	18:32	LB128258
	Vanadium	2380	2500	95	90 - 110	P	11/09/2023	18:32	LB128258
	Zinc	2370	2500	95	90 - 110	P	11/09/2023	18:32	LB128258
CCV11	Aluminum	9620	10000	96	90 - 110	P	11/09/2023	19:05	LB128258
	Antimony	4900	5000	98	90 - 110	P	11/09/2023	19:05	LB128258
	Arsenic	5010	5000	100	90 - 110	P	11/09/2023	19:05	LB128258
	Barium	9490	10000	95	90 - 110	P	11/09/2023	19:05	LB128258
	Beryllium	244	250	98	90 - 110	P	11/09/2023	19:05	LB128258
	Cadmium	2480	2500	99	90 - 110	P	11/09/2023	19:05	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Calcium	23900	25000	96	90 - 110	P	11/09/2023	19:05	LB128258
	Chromium	974	1000	97	90 - 110	P	11/09/2023	19:05	LB128258
	Cobalt	2420	2500	97	90 - 110	P	11/09/2023	19:05	LB128258
	Copper	1230	1250	98	90 - 110	P	11/09/2023	19:05	LB128258
	Iron	4850	5000	97	90 - 110	P	11/09/2023	19:05	LB128258
	Lead	4960	5000	99	90 - 110	P	11/09/2023	19:05	LB128258
	Magnesium	23700	25000	95	90 - 110	P	11/09/2023	19:05	LB128258
	Manganese	2430	2500	97	90 - 110	P	11/09/2023	19:05	LB128258
	Nickel	2420	2500	97	90 - 110	P	11/09/2023	19:05	LB128258
	Potassium	24500	25000	98	90 - 110	P	11/09/2023	19:05	LB128258
	Selenium	5070	5000	102	90 - 110	P	11/09/2023	19:05	LB128258
	Silver	1230	1250	98	90 - 110	P	11/09/2023	19:05	LB128258
	Sodium	24600	25000	98	90 - 110	P	11/09/2023	19:05	LB128258
	Thallium	4920	5000	98	90 - 110	P	11/09/2023	19:05	LB128258
	Vanadium	2370	2500	95	90 - 110	P	11/09/2023	19:05	LB128258
	Zinc	2410	2500	96	90 - 110	P	11/09/2023	19:05	LB128258

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Metals

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CRDL STANDARD FOR AA & ICP

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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	0.17	0.2	83	40 - 160	CV	11/07/2023	16:21	LB128217
CRI01	Aluminum	96.1	100	96	40 - 160	P	11/09/2023	11:28	LB128258
	Antimony	50.2	50.0	100	40 - 160	P	11/09/2023	11:28	LB128258
	Arsenic	23.5	20.0	117	40 - 160	P	11/09/2023	11:28	LB128258
	Barium	91.2	100	91	40 - 160	P	11/09/2023	11:28	LB128258
	Beryllium	5.95	6.0	99	40 - 160	P	11/09/2023	11:28	LB128258
	Cadmium	6.35	6.0	106	40 - 160	P	11/09/2023	11:28	LB128258
	Calcium	1970	2000	99	40 - 160	P	11/09/2023	11:28	LB128258
	Chromium	9.44	10.0	94	40 - 160	P	11/09/2023	11:28	LB128258
	Cobalt	28.9	30.0	96	40 - 160	P	11/09/2023	11:28	LB128258
	Copper	21.3	20.0	106	40 - 160	P	11/09/2023	11:28	LB128258
	Iron	97.1	100	97	40 - 160	P	11/09/2023	11:28	LB128258
	Lead	11.9	12.0	99	40 - 160	P	11/09/2023	11:28	LB128258
	Magnesium	2110	2000	106	40 - 160	P	11/09/2023	11:28	LB128258
	Manganese	19.8	20.0	99	40 - 160	P	11/09/2023	11:28	LB128258
	Nickel	39.6	40.0	99	40 - 160	P	11/09/2023	11:28	LB128258
	Potassium	2000	2000	100	40 - 160	P	11/09/2023	11:28	LB128258
	Selenium	21.8	20.0	109	40 - 160	P	11/09/2023	11:28	LB128258
	Silver	9.54	10.0	95	40 - 160	P	11/09/2023	11:28	LB128258
	Sodium	2000	2000	100	40 - 160	P	11/09/2023	11:28	LB128258
	Thallium	30.6	40.0	77	40 - 160	P	11/09/2023	11:28	LB128258
	Vanadium	38.9	40.0	97	40 - 160	P	11/09/2023	11:28	LB128258
	Zinc	40.7	40.0	102	40 - 160	P	11/09/2023	11:28	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB61	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2023	16:15	LB128217

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB74	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2023	16:19	LB128217
CCB75	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2023	16:46	LB128217
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2023	17:23	LB128217
CCB77	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2023	17:37	LB128217

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/09/2023	11:24	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	11:24	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	11:24	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	11:24	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	11:24	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	11:24	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	11:24	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	11:24	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	11:24	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	11:24	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	11:24	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	11:24	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	11:24	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	11:24	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	11:24	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	11:24	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	11:24	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	11:24	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	11:24	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	11:24	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	11:24	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	11:24	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/09/2023	11:48	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	11:48	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	11:48	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	11:48	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	11:48	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	11:48	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	11:48	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	11:48	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	11:48	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	11:48	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	11:48	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	11:48	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	11:48	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	11:48	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	11:48	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	11:48	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	11:48	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	11:48	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	11:48	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	11:48	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	11:48	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	11:48	LB128258
CCB02	Aluminum	100	+/-100	U	100	P	11/09/2023	12:34	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	12:34	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	12:34	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	12:34	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	12:34	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	12:34	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	12:34	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	12:34	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	12:34	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	12:34	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	12:34	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	12:34	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	12:34	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	12:34	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	12:34	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	12:34	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	12:34	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	12:34	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	11/09/2023	12:34	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	12:34	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	12:34	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	12:34	LB128258
CCB03	Aluminum	100	+/-100	U	100	P	11/09/2023	13:00	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	13:00	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	13:00	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	13:00	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	13:00	LB128258
	Cadmium	0.22	+/-6.00	J	6.00	P	11/09/2023	13:00	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	13:00	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	13:00	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	13:00	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	13:00	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	13:00	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	13:00	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	13:00	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	13:00	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	13:00	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	13:00	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	13:00	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	13:00	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	13:00	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	13:00	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	13:00	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	13:00	LB128258
CCB04	Aluminum	100	+/-100	U	100	P	11/09/2023	14:04	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	14:04	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	14:04	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	14:04	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	14:04	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	14:04	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	14:04	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	14:04	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	14:04	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	14:04	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	14:04	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	14:04	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	14:04	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	14:04	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	14:04	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	14:04	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	14:04	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	14:04	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	14:04	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	14:04	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	14:04	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	14:04	LB128258
CCB05	Aluminum	100	+/-100	U	100	P	11/09/2023	14:50	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	14:50	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	14:50	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	14:50	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	14:50	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	14:50	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	14:50	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	14:50	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	14:50	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	14:50	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	14:50	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	14:50	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	14:50	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	14:50	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	14:50	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	14:50	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	14:50	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	14:50	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	14:50	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	14:50	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	14:50	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	14:50	LB128258
CCB06	Aluminum	100	+/-100	U	100	P	11/09/2023	15:37	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	15:37	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	15:37	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	15:37	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	15:37	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	15:37	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	15:37	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	15:37	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	15:37	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	15:37	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	11/09/2023	15:37	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	15:37	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	15:37	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	15:37	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	15:37	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	15:37	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	15:37	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	15:37	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	15:37	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	15:37	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	15:37	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	15:37	LB128258
CCB07	Aluminum	100	+/-100	U	100	P	11/09/2023	16:23	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	16:23	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	16:23	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	16:23	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	16:23	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	16:23	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	16:23	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	16:23	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	16:23	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	16:23	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	16:23	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	16:23	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	16:23	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	16:23	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	16:23	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	16:23	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	16:23	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	16:23	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	16:23	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	16:23	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	16:23	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	16:23	LB128258
CCB08	Aluminum	100	+/-100	U	100	P	11/09/2023	17:11	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	17:11	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	17:11	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	17:11	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	17:11	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	17:11	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Calcium	2000	+/-2000	U	2000	P	11/09/2023	17:11	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	17:11	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	17:11	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	17:11	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	17:11	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	17:11	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	17:11	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	17:11	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	17:11	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	17:11	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	17:11	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	17:11	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	17:11	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	17:11	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	17:11	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	17:11	LB128258
CCB09	Aluminum	100	+/-100	U	100	P	11/09/2023	18:00	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	18:00	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	18:00	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	18:00	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	18:00	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	18:00	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	18:00	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	18:00	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	18:00	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	18:00	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	18:00	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	18:00	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	18:00	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	18:00	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	18:00	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	18:00	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	18:00	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	18:00	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	18:00	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	18:00	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	18:00	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	18:00	LB128258
CCB10	Aluminum	100	+/-100	U	100	P	11/09/2023	18:36	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	18:36	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	18:36	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	18:36	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	18:36	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	18:36	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	18:36	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	18:36	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	18:36	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	18:36	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	18:36	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	18:36	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	18:36	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	18:36	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	18:36	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	18:36	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	18:36	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	18:36	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	18:36	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	18:36	LB128258
	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	18:36	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	18:36	LB128258
CCB11	Aluminum	100	+/-100	U	100	P	11/09/2023	19:09	LB128258
	Antimony	50.0	+/-50.0	U	50.0	P	11/09/2023	19:09	LB128258
	Arsenic	20.0	+/-20.0	U	20.0	P	11/09/2023	19:09	LB128258
	Barium	100	+/-100	U	100	P	11/09/2023	19:09	LB128258
	Beryllium	6.00	+/-6.00	U	6.00	P	11/09/2023	19:09	LB128258
	Cadmium	6.00	+/-6.00	U	6.00	P	11/09/2023	19:09	LB128258
	Calcium	2000	+/-2000	U	2000	P	11/09/2023	19:09	LB128258
	Chromium	10.0	+/-10.0	U	10.0	P	11/09/2023	19:09	LB128258
	Cobalt	30.0	+/-30.0	U	30.0	P	11/09/2023	19:09	LB128258
	Copper	20.0	+/-20.0	U	20.0	P	11/09/2023	19:09	LB128258
	Iron	100	+/-100	U	100	P	11/09/2023	19:09	LB128258
	Lead	12.0	+/-12.0	U	12.0	P	11/09/2023	19:09	LB128258
	Magnesium	2000	+/-2000	U	2000	P	11/09/2023	19:09	LB128258
	Manganese	20.0	+/-20.0	U	20.0	P	11/09/2023	19:09	LB128258
	Nickel	40.0	+/-40.0	U	40.0	P	11/09/2023	19:09	LB128258
	Potassium	2000	+/-2000	U	2000	P	11/09/2023	19:09	LB128258
	Selenium	20.0	+/-20.0	U	20.0	P	11/09/2023	19:09	LB128258
	Silver	10.0	+/-10.0	U	10.0	P	11/09/2023	19:09	LB128258
	Sodium	2000	+/-2000	U	2000	P	11/09/2023	19:09	LB128258
	Thallium	40.0	+/-40.0	U	40.0	P	11/09/2023	19:09	LB128258

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Vanadium	40.0	+/-40.0	U	40.0	P	11/09/2023	19:09	LB128258
	Zinc	40.0	+/-40.0	U	40.0	P	11/09/2023	19:09	LB128258

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Metals
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PREPARATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB156977BL		**SOLID**		**Batch Number:**	**PB156977**		**Prep Date:**	**11/07/2023**	
	Mercury	0.013	<0.013	U	0.013	CV	11/07/2023	16:28	LB128217

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Metals
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PREPARATION BLANK SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB156965BL		**SOLID**		**Batch Number:**	**PB156965**		**Prep Date:**	**11/07/2023**	
	Aluminum	4.72	<4.72	U	4.72	P	11/09/2023	11:52	LB128258
	Antimony	2.36	<2.36	U	2.36	P	11/09/2023	11:52	LB128258
	Arsenic	0.94	<0.94	U	0.94	P	11/09/2023	11:52	LB128258
	Barium	4.72	<4.72	U	4.72	P	11/09/2023	11:52	LB128258
	Beryllium	0.28	<0.28	U	0.28	P	11/09/2023	11:52	LB128258
	Cadmium	0.28	<0.28	U	0.28	P	11/09/2023	11:52	LB128258
	Calcium	94.3	<94.3	U	94.3	P	11/09/2023	11:52	LB128258
	Chromium	0.47	<0.47	U	0.47	P	11/09/2023	11:52	LB128258
	Cobalt	1.42	<1.42	U	1.42	P	11/09/2023	11:52	LB128258
	Copper	0.94	<0.94	U	0.94	P	11/09/2023	11:52	LB128258
	Iron	4.72	<4.72	U	4.72	P	11/09/2023	11:52	LB128258
	Lead	0.57	<0.57	U	0.57	P	11/09/2023	11:52	LB128258
	Magnesium	94.3	<94.3	U	94.3	P	11/09/2023	11:52	LB128258
	Manganese	0.94	<0.94	U	0.94	P	11/09/2023	11:52	LB128258
	Nickel	1.89	<1.89	U	1.89	P	11/09/2023	11:52	LB128258
	Potassium	94.3	<94.3	U	94.3	P	11/09/2023	11:52	LB128258
	Selenium	0.94	<0.94	U	0.94	P	11/09/2023	11:52	LB128258
	Silver	0.47	<0.47	U	0.47	P	11/09/2023	11:52	LB128258
	Sodium	94.3	<94.3	U	94.3	P	11/09/2023	11:52	LB128258
	Thallium	1.89	<1.89	U	1.89	P	11/09/2023	11:52	LB128258
	Vanadium	1.89	<1.89	U	1.89	P	11/09/2023	11:52	LB128258
	Zinc	1.89	<1.89	U	1.89	P	11/09/2023	11:52	LB128258

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Metals
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INTERFERENCE CHECK SAMPLE

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	255000	255000	100	216000	294000	11/09/2023	11:32	LB128258
	Antimony	2.59			-50	50	11/09/2023	11:32	LB128258
	Arsenic	-8.50			-20	20	11/09/2023	11:32	LB128258
	Barium	8.01	6.0	134	-94	106	11/09/2023	11:32	LB128258
	Beryllium	0.95			-6	6	11/09/2023	11:32	LB128258
	Cadmium	2.48	1.0	248	-5	7	11/09/2023	11:32	LB128258
	Calcium	247000	245000	101	208000	282000	11/09/2023	11:32	LB128258
	Chromium	56.7	52.0	109	42	62	11/09/2023	11:32	LB128258
	Cobalt	0.28			-30	30	11/09/2023	11:32	LB128258
	Copper	21.9	2.0	1095	-18	22	11/09/2023	11:32	LB128258
	Iron	99900	101000	99	85600	116500	11/09/2023	11:32	LB128258
	Lead	-0.43			-12	12	11/09/2023	11:32	LB128258
	Magnesium	252000	255000	99	216000	294000	11/09/2023	11:32	LB128258
	Manganese	20.4	7.0	291	-13	27	11/09/2023	11:32	LB128258
	Nickel	3.62	2.0	181	-38	42	11/09/2023	11:32	LB128258
	Potassium	-237			0	0	11/09/2023	11:32	LB128258
	Selenium	-8.44			-20	20	11/09/2023	11:32	LB128258
	Silver	-3.77			-10	10	11/09/2023	11:32	LB128258
	Sodium	2.92			0	0	11/09/2023	11:32	LB128258
	Thallium	2.78			-40	40	11/09/2023	11:32	LB128258
	Vanadium	4.73			-40	40	11/09/2023	11:32	LB128258
	Zinc	1.57			-40	40	11/09/2023	11:32	LB128258
ICSAB01	Aluminum	251000	247000	102	209000	285000	11/09/2023	11:36	LB128258
	Antimony	611	618	99	525	711	11/09/2023	11:36	LB128258
	Arsenic	103	104	99	88.4	120	11/09/2023	11:36	LB128258
	Barium	499	537	93	437	637	11/09/2023	11:36	LB128258
	Beryllium	506	495	102	420	570	11/09/2023	11:36	LB128258
	Cadmium	1040	972	107	826	1120	11/09/2023	11:36	LB128258
	Calcium	246000	235000	105	199000	271000	11/09/2023	11:36	LB128258
	Chromium	565	542	104	460	624	11/09/2023	11:36	LB128258
	Cobalt	508	476	107	404	548	11/09/2023	11:36	LB128258
	Copper	516	511	101	434	588	11/09/2023	11:36	LB128258
	Iron	99100	99300	100	84400	114500	11/09/2023	11:36	LB128258
	Lead	50.0	49.0	102	37	61	11/09/2023	11:36	LB128258
	Magnesium	250000	248000	101	210000	286000	11/09/2023	11:36	LB128258
	Manganese	523	507	103	430	584	11/09/2023	11:36	LB128258
	Nickel	1010	954	106	810	1100	11/09/2023	11:36	LB128258
	Potassium	-151			0	0	11/09/2023	11:36	LB128258
	Selenium	46.6	46.0	101	26	66	11/09/2023	11:36	LB128258
	Silver	203	201	101	170	232	11/09/2023	11:36	LB128258
	Sodium	17.7			0	0	11/09/2023	11:36	LB128258
	Thallium	108	108	100	68	148	11/09/2023	11:36	LB128258
	Vanadium	504	491	103	417	565	11/09/2023	11:36	LB128258
	Zinc	1030	952	108	809	1095	11/09/2023	11:36	LB128258

CHEMTECH

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: RMJ Environomics, Inc. **level:** low **sdg no.:** O5252

contract: RMJE02 **lab code:** CHEM **case no.:** O5252 **sas no.:** O5252

matrix: Solid **sample id:** O5257-05 **client id:** WC-2MS

Percent Solids for Sample: 91.4 **Spiked ID:** O5257-05MS **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.45		0.10		0.29	118		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: RMJ Environomics, Inc. **level:** low **sdg no.:** O5252

contract: RMJE02 **lab code:** CHEM **case no.:** O5252 **sas no.:** O5252

matrix: Solid **sample id:** O5257-05 **client id:** WC-2MSD

Percent Solids for Sample: 91.4 **Spiked ID:** O5257-05MSD **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.38		0.10		0.29	94		CV

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metals
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MATRIX SPIKE SUMMARY

client: RMJ Environomics, Inc. **level:** low **sdg no.:** O5252

contract: RMJE02 **lab code:** CHEM **case no.:** O5252 **sas no.:** O5252

matrix: Solid **sample id:** O5270-01 **client id:** OR-3-110623MS

Percent Solids for Sample: 92.7 **Spiked ID:** O5270-01MS **Percent Solids for Spike Sample:** 92.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5680		5340		89.5	377		P
Antimony	mg/Kg	75 - 125	33.4		4.48		35.8	81		P
Arsenic	mg/Kg	75 - 125	31.6		0.23	J	35.8	88		P
Barium	mg/Kg	75 - 125	33.9		25.5		9.0	94		P
Beryllium	mg/Kg	75 - 125	7.49		0.30		9.0	80		P
Cadmium	mg/Kg	75 - 125	9.52		0.43		9.0	101		P
Calcium	mg/Kg	75 - 125	3050		2760		44.8	638		P
Chromium	mg/Kg	75 - 125	26.3		11.5		17.9	82		P
Cobalt	mg/Kg	75 - 125	18.1		8.70		9.0	105		P
Copper	mg/Kg	75 - 125	46.6		34.5		13.4	90		P
Iron	mg/Kg	75 - 125	12500		11400		130	842		P
Lead	mg/Kg	75 - 125	66.6		20.3		44.8	103		P
Magnesium	mg/Kg	75 - 125	3390		3150		89.5	265		P
Manganese	mg/Kg	75 - 125	154		140		9.0	155		P
Nickel	mg/Kg	75 - 125	36.3		13.5		22.4	102		P
Potassium	mg/Kg	75 - 125	1780		1300		450	107		P
Selenium	mg/Kg	75 - 125	74.0		0.87	U	89.5	83		P
Silver	mg/Kg	75 - 125	2.44		0.43	U	3.4	72	N	P
Sodium	mg/Kg	75 - 125	441		307		130	104		P
Thallium	mg/Kg	75 - 125	78.2		1.73	U	89.5	87		P
Vanadium	mg/Kg	75 - 125	28.7		17.1		13.4	87		P
Zinc	mg/Kg	75 - 125	96.8		85.3		9.0	128		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: RMJ Environomics, Inc. **level:** low **sdg no.:** O5252

contract: RMJE02 **lab code:** CHEM **case no.:** O5252 **sas no.:** O5252

matrix: Solid **sample id:** O5270-01 **client id:** OR-3-110623MSD

Percent Solids for Sample: 92.7 **Spiked ID:** O5270-01MSD **Percent Solids for Spike Sample:** 92.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5730		5340		89.2	435		P
Antimony	mg/Kg	75 - 125	33.9		4.48		35.7	83		P
Arsenic	mg/Kg	75 - 125	32.0		0.23	J	35.7	89		P
Barium	mg/Kg	75 - 125	34.2		25.5		8.9	98		P
Beryllium	mg/Kg	75 - 125	7.63		0.30		8.9	82		P
Cadmium	mg/Kg	75 - 125	9.71		0.43		8.9	104		P
Calcium	mg/Kg	75 - 125	3090		2760		44.6	741		P
Chromium	mg/Kg	75 - 125	26.5		11.5		17.8	84		P
Cobalt	mg/Kg	75 - 125	18.3		8.70		8.9	108		P
Copper	mg/Kg	75 - 125	46.7		34.5		13.4	91		P
Iron	mg/Kg	75 - 125	12600		11400		130	945		P
Lead	mg/Kg	75 - 125	67.4		20.3		44.6	106		P
Magnesium	mg/Kg	75 - 125	3400		3150		89.2	279		P
Manganese	mg/Kg	75 - 125	155		140		8.9	168		P
Nickel	mg/Kg	75 - 125	36.7		13.5		22.3	104		P
Potassium	mg/Kg	75 - 125	1800		1300		450	111		P
Selenium	mg/Kg	75 - 125	76.1		0.87	U	89.2	85		P
Silver	mg/Kg	75 - 125	2.50		0.43	U	3.3	76		P
Sodium	mg/Kg	75 - 125	448		307		130	108		P
Thallium	mg/Kg	75 - 125	90.8		1.73	U	89.2	102		P
Vanadium	mg/Kg	75 - 125	29.0		17.1		13.4	89		P
Zinc	mg/Kg	75 - 125	97.1		85.3		8.9	132		P

CHEMTECH

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Matrix: Solid **Level:** LOW **Client ID:** OR-3-110623A

Sample ID: O5270-01 **Spiked ID:** O5270-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	mg/Kg	75 - 125	2.11		0.43	U	3.20	66		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **Level:** LOW **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Matrix: Solid **Sample ID:** O5257-05 **Client ID:** WC-2DUP

Percent Solids for Sample: 91.4 **Duplicate ID** O5257-05DUP **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.10		0.084		21	*	CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **Level:** LOW **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Matrix: Solid **Sample ID:** O5257-05MS **Client ID:** WC-2MSD

Percent Solids for Sample: 91.4 **Duplicate ID** O5257-05MSD **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.45		0.38		17		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **Level:** LOW **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Matrix: Solid **Sample ID:** O5270-01 **Client ID:** OR-3-110623DUP

Percent Solids for Sample: 92.7 **Duplicate ID** O5270-01DUP **Percent Solids for Spike Sample:** 92.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5340		5450		2		P
Antimony	mg/Kg	20	4.48		4.52		1		P
Arsenic	mg/Kg	20	0.23	J	0.26	J	11		P
Barium	mg/Kg	20	25.5		26.0		2		P
Beryllium	mg/Kg	20	0.30		0.32		4		P
Cadmium	mg/Kg	20	0.43		0.44		4		P
Calcium	mg/Kg	20	2760		2850		3		P
Chromium	mg/Kg	20	11.5		11.6		1		P
Cobalt	mg/Kg	20	8.70		8.86		2		P
Copper	mg/Kg	20	34.5		35.0		1		P
Iron	mg/Kg	20	11400		11700		3		P
Lead	mg/Kg	20	20.3		20.7		2		P
Magnesium	mg/Kg	20	3150		3210		2		P
Manganese	mg/Kg	20	140		143		2		P
Nickel	mg/Kg	20	13.5		13.8		2		P
Potassium	mg/Kg	20	1300		1340		3		P
Selenium	mg/Kg	20	0.87	U	0.87	U			P
Silver	mg/Kg	20	0.43	U	0.44	U			P
Sodium	mg/Kg	20	307		315		3		P
Thallium	mg/Kg	20	1.73	U	1.74	U			P
Vanadium	mg/Kg	20	17.1		17.5		2		P
Zinc	mg/Kg	20	85.3		87.0		2		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **Level:** LOW **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Matrix: Solid **Sample ID:** O5270-01MS **Client ID:** OR-3-110623MSD

Percent Solids for Sample: 92.7 **Duplicate ID** O5270-01MSD **Percent Solids for Spike Sample:** 92.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5680		5730		1		P
Antimony	mg/Kg	20	33.4		33.9		1		P
Arsenic	mg/Kg	20	31.6		32.0		1		P
Barium	mg/Kg	20	33.9		34.2		1		P
Beryllium	mg/Kg	20	7.49		7.63		2		P
Cadmium	mg/Kg	20	9.52		9.71		2		P
Calcium	mg/Kg	20	3050		3090		1		P
Chromium	mg/Kg	20	26.3		26.5		1		P
Cobalt	mg/Kg	20	18.1		18.3		1		P
Copper	mg/Kg	20	46.6		46.7		0		P
Iron	mg/Kg	20	12500		12600		1		P
Lead	mg/Kg	20	66.6		67.4		1		P
Magnesium	mg/Kg	20	3390		3400		0		P
Manganese	mg/Kg	20	154		155		1		P
Nickel	mg/Kg	20	36.3		36.7		1		P
Potassium	mg/Kg	20	1780		1800		1		P
Selenium	mg/Kg	20	74.0		76.1		3		P
Silver	mg/Kg	20	2.44		2.50		2		P
Sodium	mg/Kg	20	441		448		2		P
Thallium	mg/Kg	20	78.2		90.8		15		P
Vanadium	mg/Kg	20	28.7		29.0		1		P
Zinc	mg/Kg	20	96.8		97.1		0		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

LABORATORY CONTROL SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB156965BS							
Aluminum	mg/Kg	97.1	93.7		96	80 - 120	P
Antimony	mg/Kg	38.8	37.1		96	80 - 120	P
Arsenic	mg/Kg	38.8	38.4		99	80 - 120	P
Barium	mg/Kg	9.7	8.87		91	80 - 120	P
Beryllium	mg/Kg	9.7	9.45		97	80 - 120	P
Cadmium	mg/Kg	9.7	9.41		97	80 - 120	P
Calcium	mg/Kg	48.5	48.6	J	100	80 - 120	P
Chromium	mg/Kg	19.4	18.8		97	80 - 120	P
Cobalt	mg/Kg	9.7	9.25		95	80 - 120	P
Copper	mg/Kg	14.6	14.4		99	80 - 120	P
Iron	mg/Kg	150	136		91	80 - 120	P
Lead	mg/Kg	48.5	47.1		97	80 - 120	P
Magnesium	mg/Kg	97.1	93.9	J	97	80 - 120	P
Manganese	mg/Kg	9.7	9.66		100	80 - 120	P
Nickel	mg/Kg	24.3	23.2		96	80 - 120	P
Potassium	mg/Kg	490	456		93	80 - 120	P
Selenium	mg/Kg	97.1	93.0		96	80 - 120	P
Silver	mg/Kg	3.6	3.50		97	80 - 120	P
Sodium	mg/Kg	150	136		91	80 - 120	P
Thallium	mg/Kg	97.1	95.1		98	80 - 120	P
Vanadium	mg/Kg	14.6	14.1		97	80 - 120	P
Zinc	mg/Kg	9.7	9.48		98	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB156977BS							
Mercury	mg/Kg	0.27	0.28		102	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-2L

Lab Name: Chemtech Consulting Group **Contract:** RMJE02

Lab Code: CHEM **Lb No.:** lb128217 **Lab Sample ID :** O5257-05L **SDG No.:** O5252

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.10		0.27		154		CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-3-110623L

Lab Name: Chemtech Consulting Group **Contract:** RMJE02

Lab Code: CHEM **Lb No.:** lb128258 **Lab Sample ID :** O5270-01L **SDG No.:** O5252

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	5340		6260		17		P
Antimony	4.48		5.10	J	14		P
Arsenic	0.23	J	4.33	U	100.0		P
Barium	25.5		30.1		18		P
Beryllium	0.30		0.38	J	25		P
Cadmium	0.43		0.25	J	40		P
Calcium	2760		3340		21		P
Chromium	11.5		13.7		19		P
Cobalt	8.70		8.61		1		P
Copper	34.5		41.6		20		P
Iron	11400		13200		16		P
Lead	20.3		20.3		0		P
Magnesium	3150		3750		19		P
Manganese	140		168		20		P
Nickel	13.5		13.5		0		P
Potassium	1300		1480		14		P
Selenium	0.87	U	4.33	U			P
Silver	0.43	U	2.17	U			P
Sodium	307		351	J	15		P
Thallium	1.73	U	8.66	U			P
Vanadium	17.1		20.6		21		P
Zinc	85.3		101		18		P

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METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Case No.:** O5252 **SAS No.:** O5252

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

CHEMTECH

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Method:**

Case No.: O5252 **SAS No.:** O5252

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB156965**						
O5252-01	WASTE	SAM	SOLID	11/07/2023	2.49	100.0	90.60
O5270-01DUP	OR-3-110623DUP	DUP	SOLID	11/07/2023	2.48	100.0	92.70
O5270-01MS	OR-3-110623MS	MS	SOLID	11/07/2023	2.41	100.0	92.70
O5270-01MSD	OR-3-110623MSD	MSD	SOLID	11/07/2023	2.42	100.0	92.70
PB156965BL	PB156965BL	MB	SOLID	11/07/2023	2.12	100.0	100.00
PB156965BS	PB156965BS	LCS	SOLID	11/07/2023	2.06	100.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: RMJ Environomics, Inc. **SDG No.:** O5252

Contract: RMJE02 **Lab Code:** CHEM **Method:**

Case No.: O5252 **SAS No.:** O5252

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB156977**						
O5252-01	WASTE	SAM	SOLID	11/07/2023	0.54	35.0	90.60
O5257-05DUP	WC-2DUP	DUP	SOLID	11/07/2023	0.56	35.0	91.40
O5257-05MS	WC-2MS	MS	SOLID	11/07/2023	0.52	35.0	91.40
O5257-05MSD	WC-2MSD	MSD	SOLID	11/07/2023	0.53	35.0	91.40
PB156977BL	PB156977BL	MB	SOLID	11/07/2023	0.55	35.0	100.00
PB156977BS	PB156977BS	LCS	SOLID	11/07/2023	0.52	35.0	100.00

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metals
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ANALYSIS RUN LOG

Client: RMJ Environomics, Inc. **Contract:** RMJE02

Lab code: CHEM **Case no.:** O5252 **Sas no.:** O5252 **Sdg no.:** O5252

Instrument id number: **Method:** **Run number:** LB128217

Start date: 11/07/2023 **End date:** 11/07/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1555	HG
S0.2	S0.2	1	1558	HG
S2.5	S2.5	1	1600	HG
S5	S5	1	1602	HG
S7.5	S7.5	1	1607	HG
S10	S10	1	1609	HG
ICV61	ICV61	1	1612	HG
ICB61	ICB61	1	1615	HG
CCV74	CCV74	1	1617	HG
CCB74	CCB74	1	1619	HG
CRA	CRA	1	1621	HG
PB156977BL	PB156977BL	1	1628	HG
PB156977BS	PB156977BS	1	1631	HG
O5252-01	WASTE	1	1635	HG
CCV75	CCV75	1	1644	HG
CCB75	CCB75	1	1646	HG
O5257-05DUP	WC-2DUP	1	1712	HG
O5257-05MS	WC-2MS	1	1714	HG
O5257-05MSD	WC-2MSD	1	1716	HG
CCV76	CCV76	1	1721	HG
CCB76	CCB76	1	1723	HG
O5257-05L	WC-2L	5	1730	HG
CCV77	CCV77	1	1734	HG
CCB77	CCB77	1	1737	HG

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metals
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ANALYSIS RUN LOG

Client: RMJ Environomics, Inc. **Contract:** RMJE02

Lab code: CHEM **Case no.:** O5252 **Sas no.:** O5252 **Sdg no.:** O5252

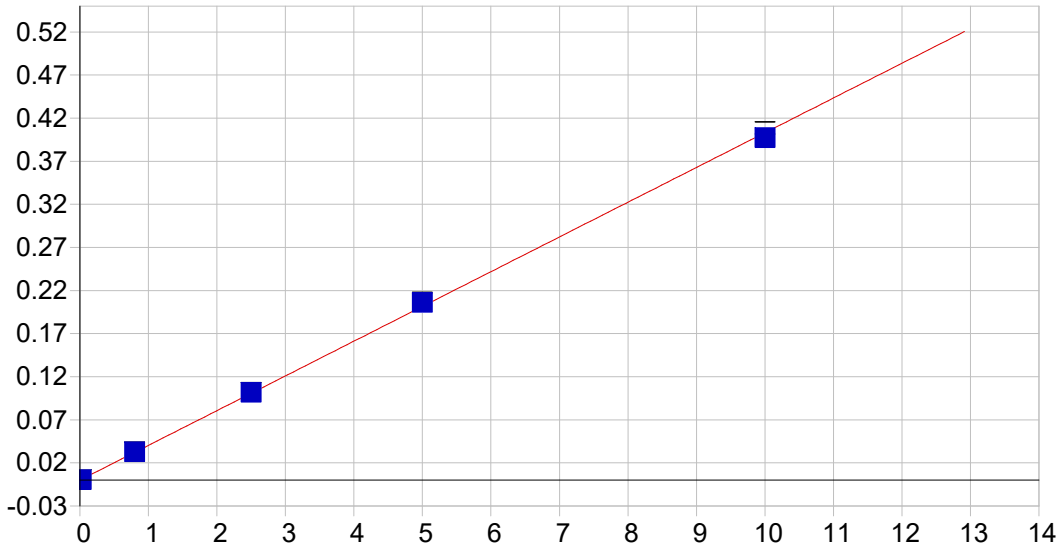
Instrument id number: **Method:** **Run number:** LB128258

Start date: 11/09/2023 **End date:** 11/09/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1053	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1101	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1105	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1112	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1120	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1124	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1128	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1132	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1136	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1140	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1144	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB156965BL	PB156965BL	1	1152	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB156965BS	PB156965BS	1	1156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5252-01	WASTE	1	1200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1230	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1234	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5270-01DUP	OR-3-110623DUP	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5270-01L	OR-3-110623L	5	1242	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5270-01MS	OR-3-110623MS	1	1245	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5270-01MSD	OR-3-110623MSD	1	1249	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O5270-01A	OR-3-110623A	1	1253	Ag
CCV03	CCV03	1	1257	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1400	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1446	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1533	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1537	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1707	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1711	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1756	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	1800	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	1832	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	1836	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	1905	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	1909	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

CHEMTECH

METAL
RAW DATA

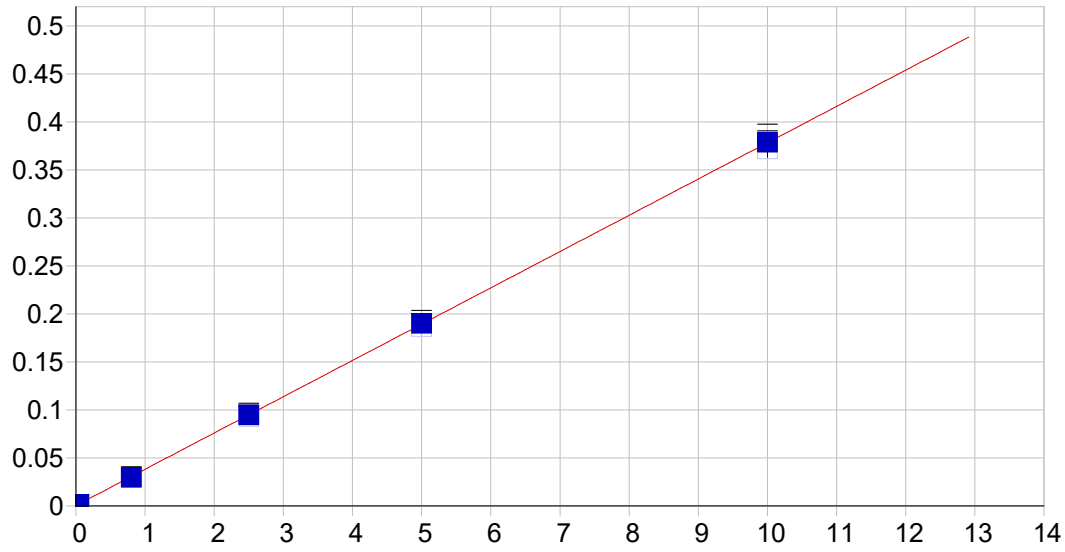


As 189.042 {479}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.040312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.006089		
Predicted MQL:	0.020297		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.02000	.01562	-.004	-21.9	.00062	.000	1
S3	2.5000	2.5248	.025	.993	.10169	.000	1
S4	5.0000	5.1120	.112	2.24	.20590	.001	1
S5	10.000	9.8552	-.145	-1.45	.39693	.007	1
S2	.80000	.81235	.012	1.54	.03271	.001	1

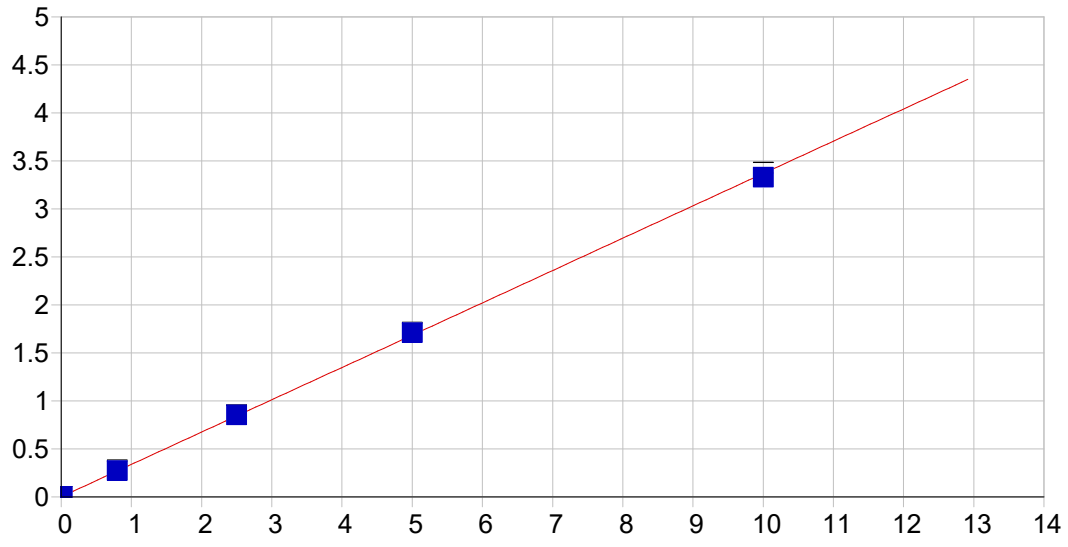


Tl 190.856 {477}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000390	Re-Slope:	1.000000
A1 (Gain):	0.037792	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.005554		
Predicted MQL:	0.018514		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00039	.000	1
S1	.04000	.03755	-.002	-6.12	.00171	.000	1
S3	2.5000	2.4973	-.003	-.108	.09303	.002	1
S4	5.0000	5.0170	.017	.340	.18651	.003	1
S5	10.000	10.010	.010	.102	.37173	.009	1
S2	.80000	.77779	-.022	-2.78	.02923	.001	1

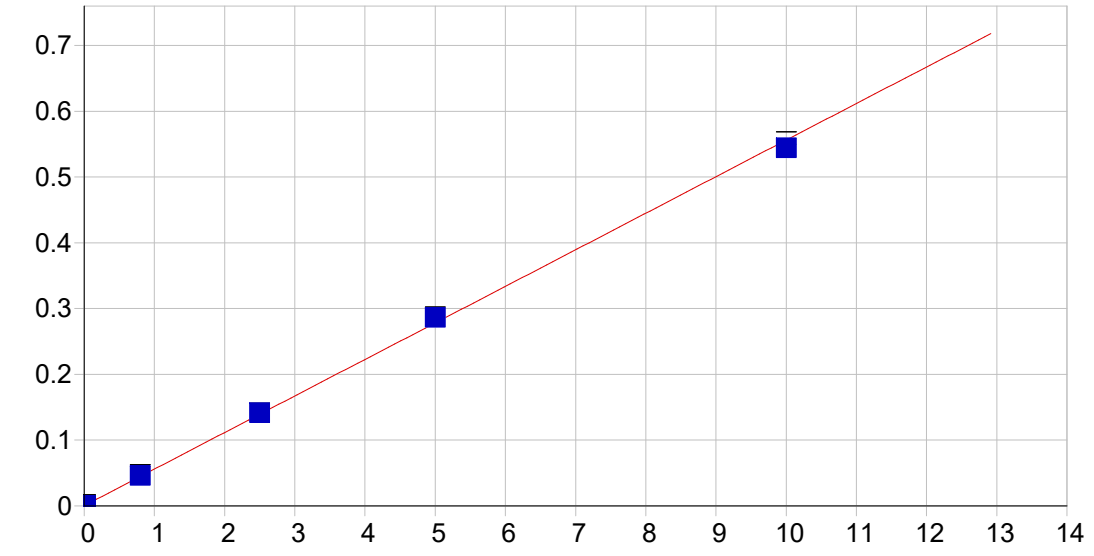


Pb 220.353 {453}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001620	Re-Slope:	1.000000
A1 (Gain):	0.336660	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.001917		
Predicted MQL:	0.006388		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00162	.001	1
S1	.01200	.01350	.002	12.5	.00609	.000	1
S3	2.5000	2.5341	.034	1.36	.85399	.003	1
S4	5.0000	5.0762	.076	1.52	1.7091	.005	1
S5	10.000	9.8827	-.117	-1.17	3.3257	.056	1
S2	.80000	.80553	.006	.691	.27257	.006	1

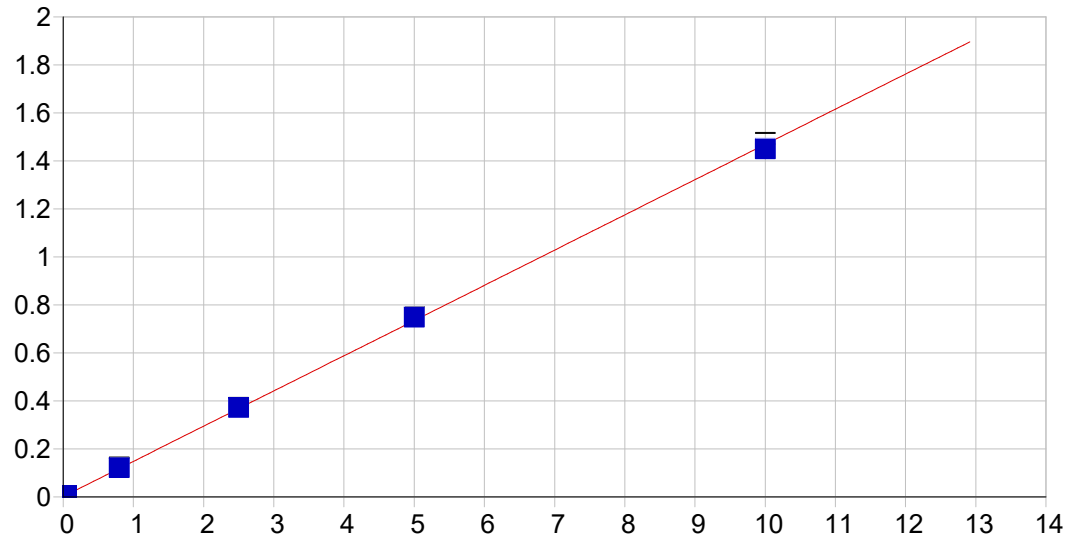


Se 196.090 {472}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000361	Re-Slope:	1.000000
A1 (Gain):	0.055578	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.005779		
Predicted MQL:	0.019264		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00036	.000	1
S1	.02000	.02106	.001	5.29	.00153	.000	1
S3	2.5000	2.5387	.039	1.55	.14141	.000	1
S4	5.0000	5.1477	.148	2.95	.28637	.001	1
S5	10.000	9.7870	-.213	-2.13	.54412	.009	1
S2	.80000	.82554	.026	3.19	.04623	.001	1

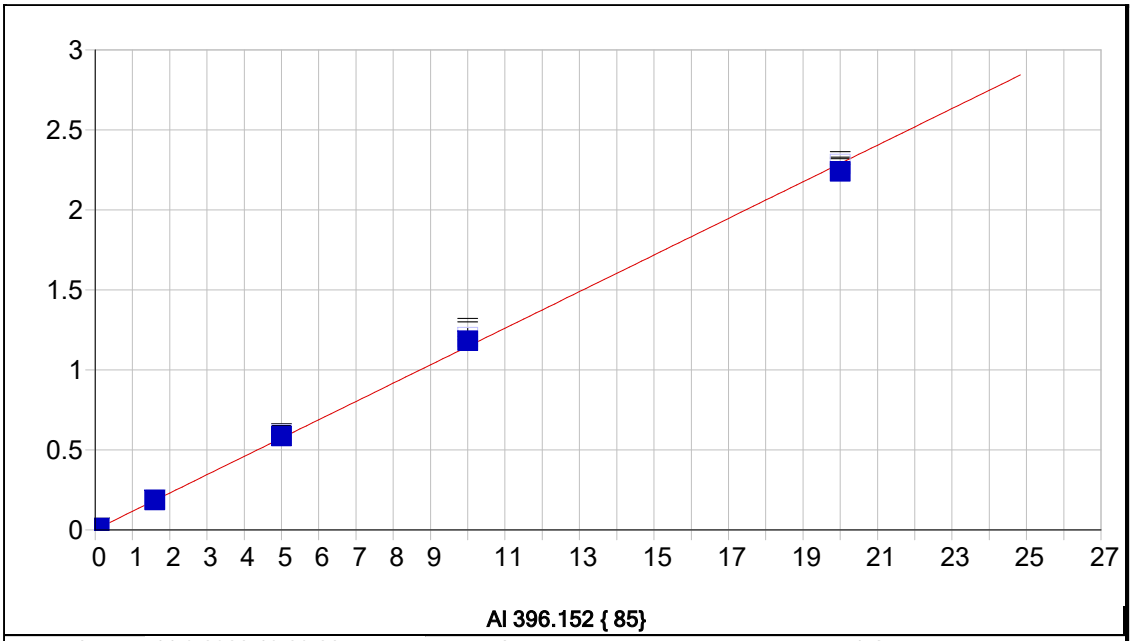


Sb 206.833 {463}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001230	Re-Slope:	1.000000
A1 (Gain):	0.146728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.002945		
Predicted MQL:	0.009816		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00123	.000	1
S1	.05000	.04773	-.002	-4.55	.00825	.000	1
S3	2.5000	2.5244	.024	.975	.37262	.000	1
S4	5.0000	5.0913	.091	1.83	.75026	.000	1
S5	10.000	9.8708	-.129	-1.29	1.4535	.023	1
S2	.80000	.81580	.016	1.98	.12125	.003	1

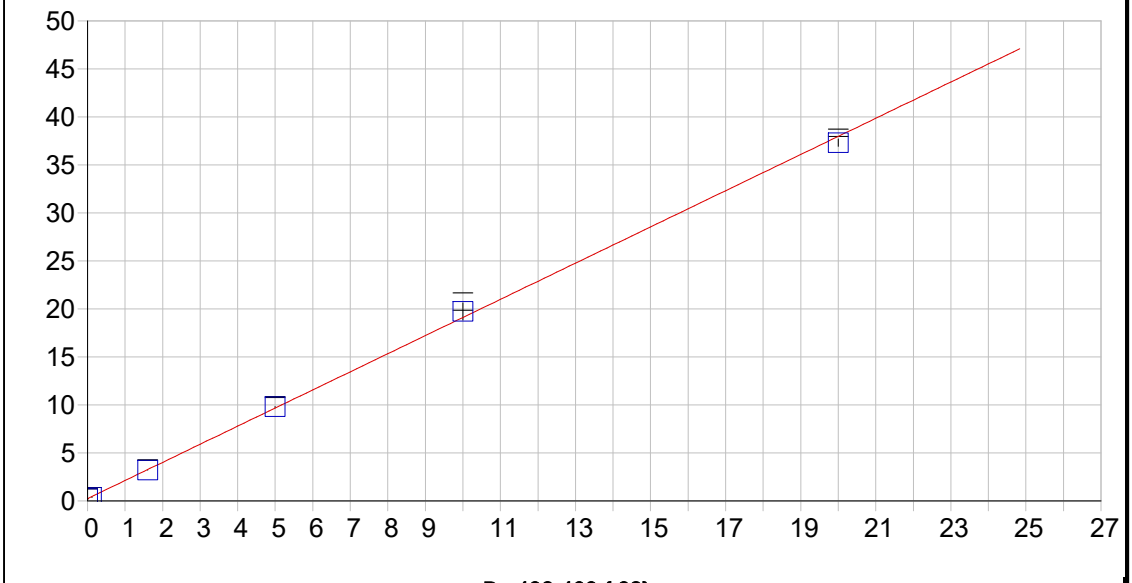


Al 396.152 { 85}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001775	Re-Slope:	1.000000
A1 (Gain):	0.114417	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999706	Status:	OK.
Std Error of Est:	0.000210		
Predicted MDL:	0.012607		
Predicted MQL:	0.042024		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00178	.001	1
S1	.10000	.09190	-.008	-8.10	.01318	.001	1
S3	5.0000	5.1095	.110	2.19	.59749	.005	1
S4	10.000	10.316	.316	3.16	1.2043	.056	1
S5	20.000	19.569	-.431	-2.15	2.2852	.017	1
S2	1.6000	1.6140	.014	.876	.19000	.001	1

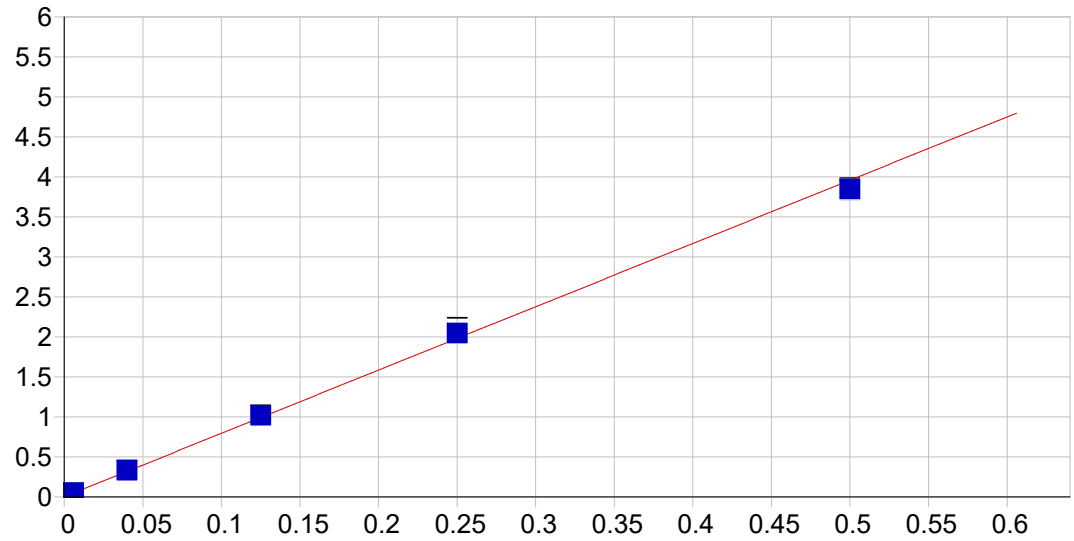


Ba 493.409 { 68}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.243035	Re-Slope:	1.000000
A1 (Gain):	1.886483	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999737	Status:	OK.
Std Error of Est:	0.003208		
Predicted MDL:	0.002193		
Predicted MQL:	0.007309		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.24305	.002	1
S1	.10000	.08884	-.011	-11.2	.41064	.003	1
S3	5.0000	5.0621	.062	1.24	9.7927	.044	1
S4	10.000	10.327	.327	3.27	19.724	.901	1
S5	20.000	19.651	-.349	-1.75	37.314	.378	1
S2	1.6000	1.5716	-.028	-1.77	3.2078	.021	1

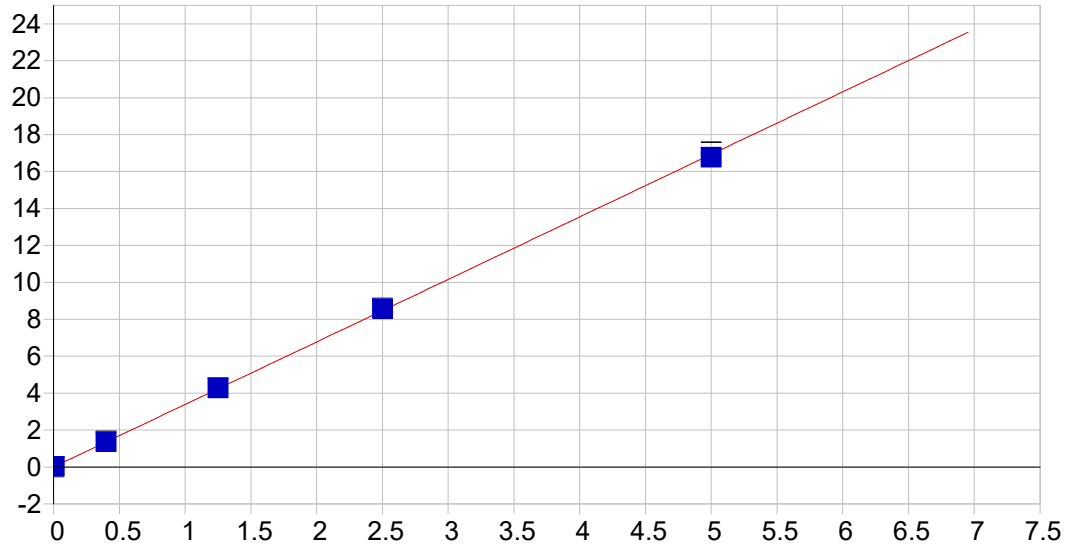


Be 234.861 {144}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002891	Re-Slope:	1.000000
A1 (Gain):	7.912696	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999536	Status:	OK.
Std Error of Est:	0.000691		
Predicted MDL:	0.000070		
Predicted MQL:	0.000234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00289	.001	1
S1	.00600	.00600	.000	.031	.05003	.001	1
S3	.12500	.12874	.004	3.00	1.0172	.002	1
S4	.25000	.25855	.009	3.42	2.0398	.071	1
S5	.50000	.48616	-.014	-2.77	3.8320	.015	1
S2	.04000	.04155	.002	3.87	.33024	.003	1

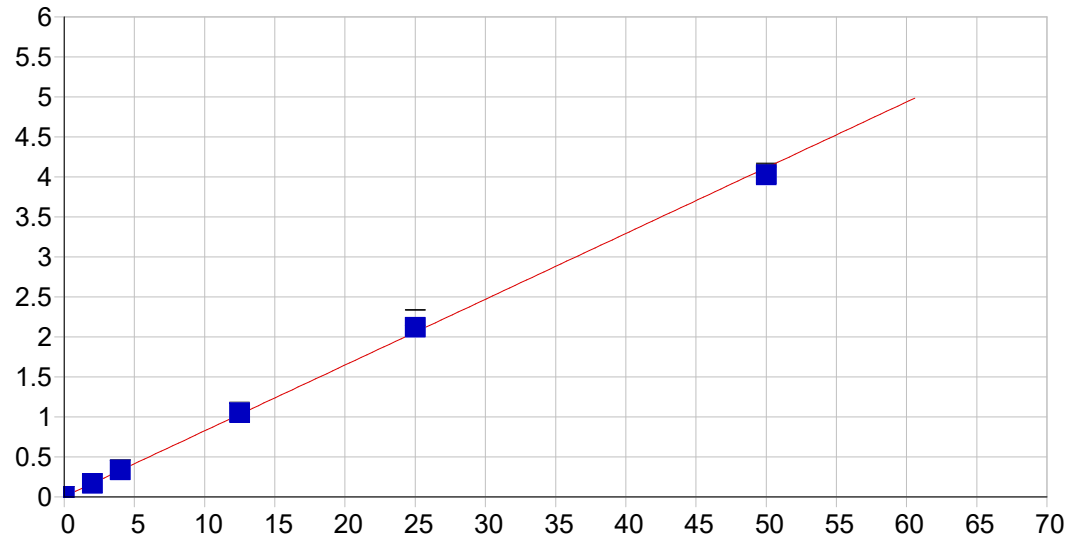


Cd 226.502 {449}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000059	Re-Slope:	1.000000
A1 (Gain):	3.386015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000334		
Predicted MDL:	0.000138		
Predicted MQL:	0.000459		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.00600	.00657	.001	9.46	.02224	.000	1
S3	1.2500	1.2612	.011	.894	4.2730	.005	1
S4	2.5000	2.5331	.033	1.33	8.5826	.018	1
S5	5.0000	4.9520	-.048	-.961	16.778	.281	1
S2	.40000	.40315	.003	.786	1.3659	.031	1

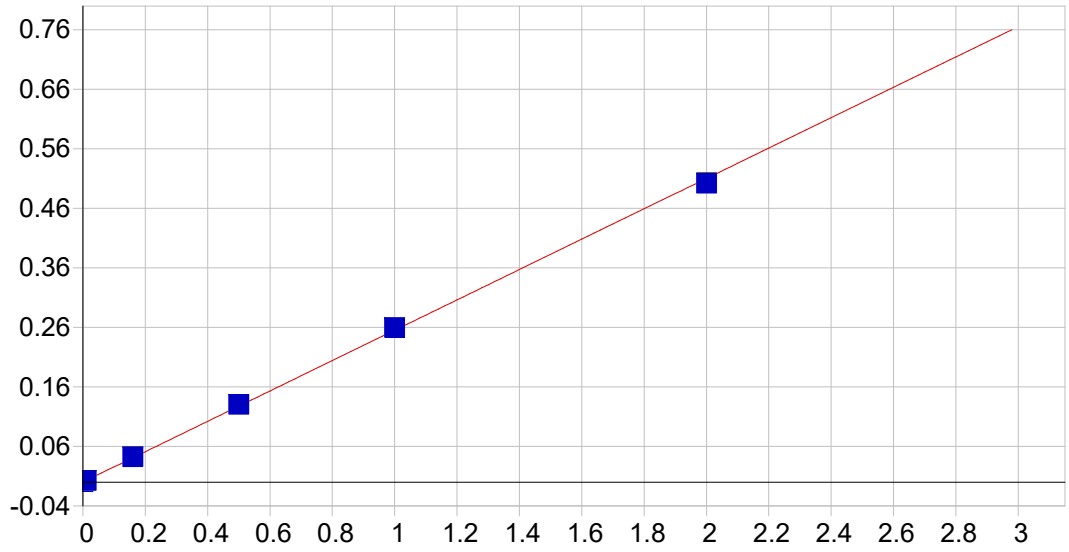


Ca 373.690 { 90}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003807	Re-Slope:	1.000000
A1 (Gain):	0.082216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999725	Status:	OK.
Std Error of Est:	0.001017		
Predicted MDL:	0.013331		
Predicted MQL:	0.044437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00007	-.000	.000	.00380	.001	1
S2	4.0000	4.0434	.043	1.09	.33531	.003	1
S3	12.500	12.773	.273	2.18	1.0510	.005	1
S4	25.000	25.750	.750	3.00	2.1151	.097	1
S5	50.000	48.951	-1.05	-2.10	4.0167	.020	1
S1	2.0000	1.9825	-.018	-.875	.16668	.002	1

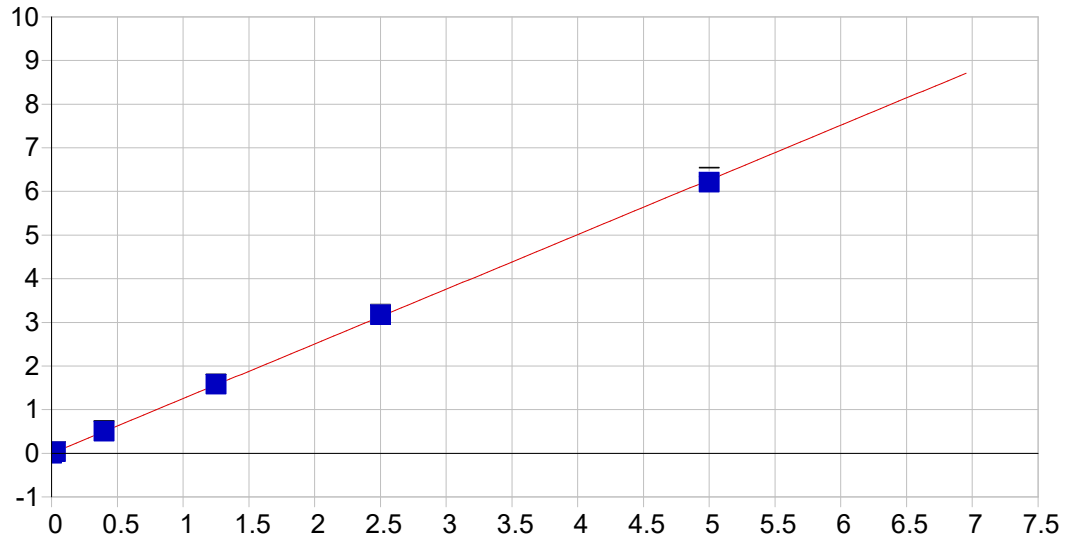


Cr 267.716 {126}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000097	Re-Slope:	1.000000
A1 (Gain):	0.255144	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999834	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000546		
Predicted MQL:	0.001818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00010	.000	1
S1	.01000	.00982	-.000	-1.80	.00260	.000	1
S3	.50000	.51112	.011	2.22	.13055	.000	1
S4	1.0000	1.0164	.016	1.64	.25951	.000	1
S5	2.0000	1.9675	-.033	-1.63	.50223	.001	1
S2	.16000	.16517	.005	3.23	.04225	.000	1

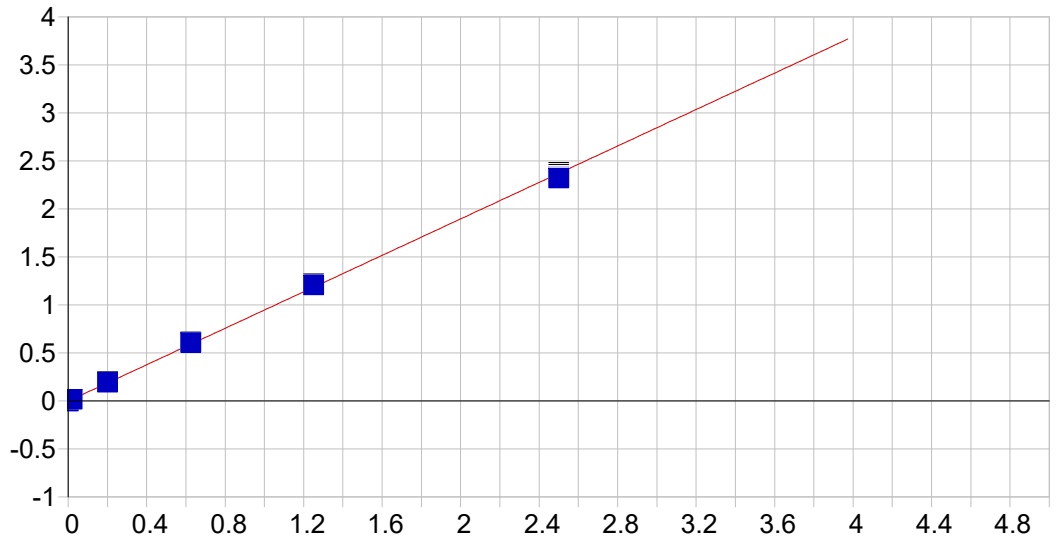


Co 228.616 {448}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000285	Re-Slope:	1.000000
A1 (Gain):	1.252899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000249		
Predicted MDL:	0.000362		
Predicted MQL:	0.001205		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.03000	.02891	-.001	-3.62	.03578	.000	1
S3	1.2500	1.2616	.012	.930	1.5831	.001	1
S4	2.5000	2.5296	.030	1.18	3.1744	.011	1
S5	5.0000	4.9574	-.043	-.852	6.2215	.102	1
S2	.40000	.40245	.002	.613	.50480	.011	1

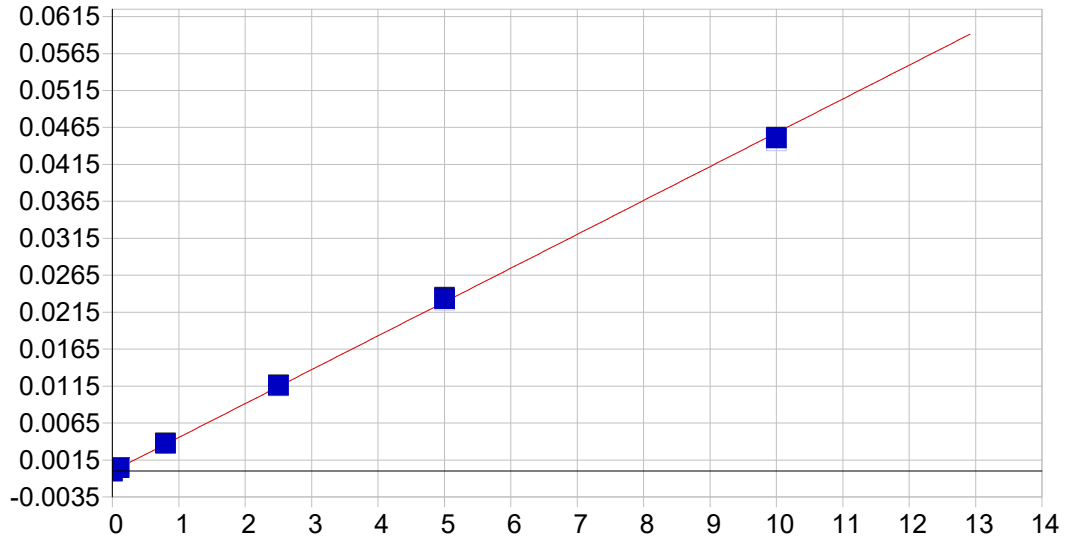


Cu 224.700 {450}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002902	Re-Slope:	1.000000
A1 (Gain):	0.949408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999736	Status:	OK.
Std Error of Est:	0.000258		
Predicted MDL:	0.000697		
Predicted MQL:	0.002323		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00290	.001	1
S1	.02000	.02137	.001	6.83	.01758	.000	1
S3	.62500	.64201	.017	2.72	.61126	.001	1
S4	1.2500	1.2752	.025	2.01	1.2170	.002	1
S5	2.5000	2.4483	-.052	-2.07	2.3401	.040	1
S2	.20000	.20817	.008	4.08	.19622	.004	1

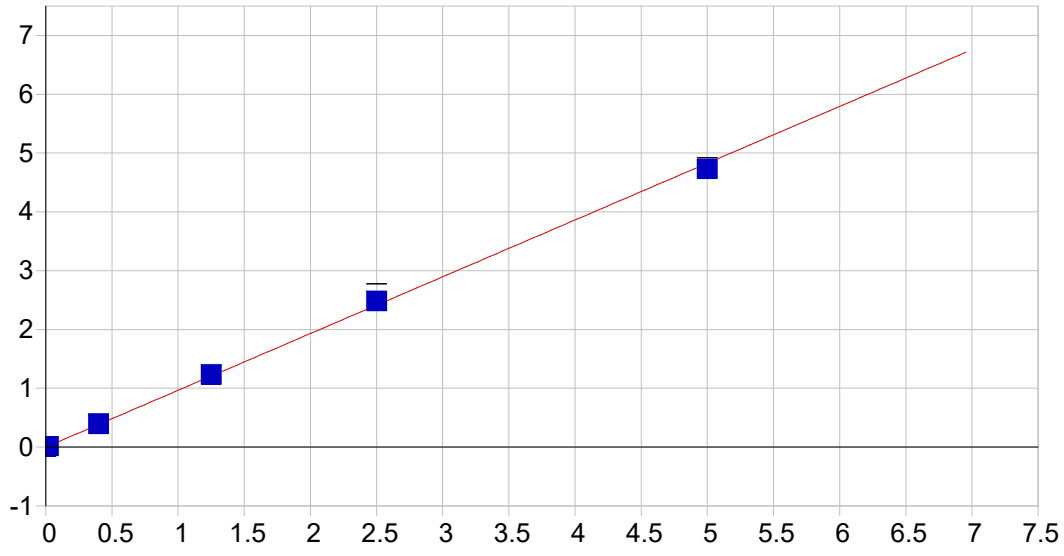


Fe 240.488 {140}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.004581	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.010155		
Predicted MQL:	0.033849		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00003	.000	1
S1	.10000	.10585	.006	5.85	.00045	.000	1
S3	2.5000	2.5372	.037	1.49	.01149	.000	1
S4	5.0000	5.0926	.093	1.85	.02310	.000	1
S5	10.000	9.8397	-.160	-1.60	.04465	.000	1
S2	.80000	.82454	.025	3.07	.00371	.000	1

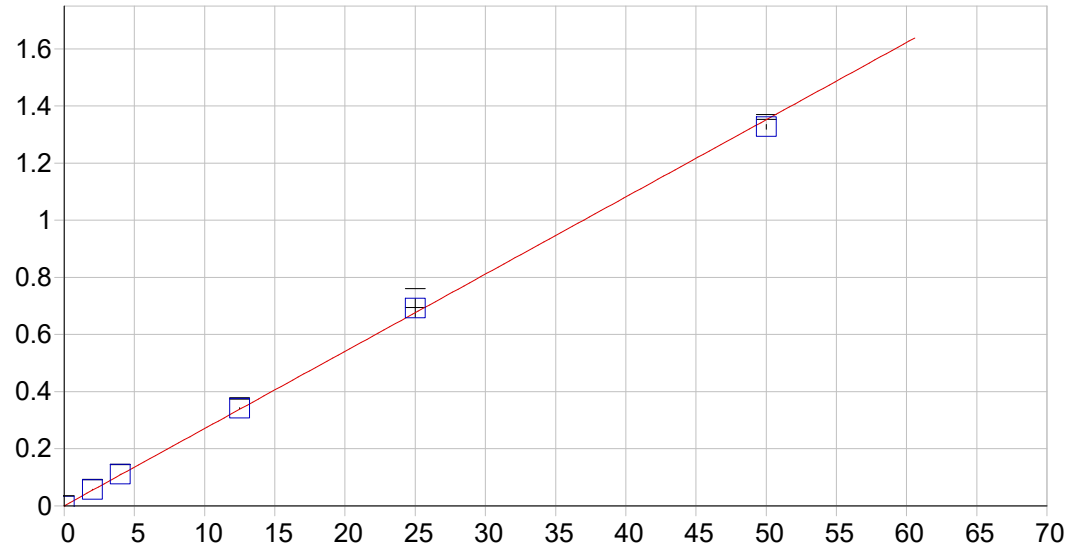


Mn 257.610 {131}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.965543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999734	Status:	OK.
Std Error of Est:	0.000369		
Predicted MDL:	0.000447		
Predicted MQL:	0.001491		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.02000	.01922	-.001	-3.91	.01864	.000	1
S3	1.2500	1.2723	.022	1.78	1.2287	.009	1
S4	2.5000	2.5738	.074	2.95	2.4855	.122	1
S5	5.0000	4.8970	-.103	-2.06	4.7288	.022	1
S2	.40000	.40768	.008	1.92	.39376	.002	1

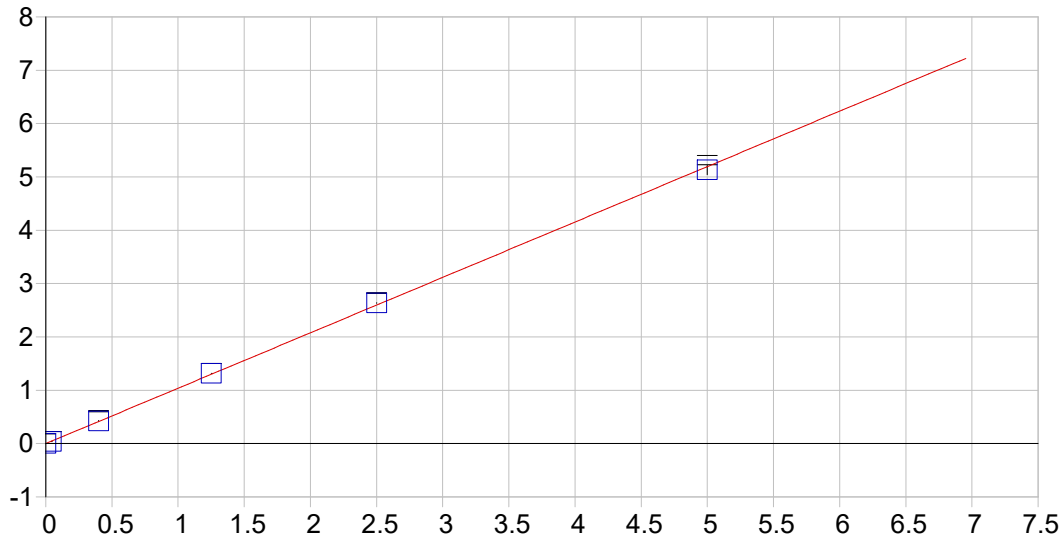


Mg 279.079 {121}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000547	Re-Slope:	1.000000
A1 (Gain):	0.027030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.000297		
Predicted MDL:	0.019951		
Predicted MQL:	0.066502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00054	.000	1
S2	4.0000	4.0696	.070	1.74	.11055	.001	1
S3	12.500	12.631	.131	1.05	.34197	.002	1
S4	25.000	25.608	.608	2.43	.69273	.033	1
S5	50.000	49.081	-.919	-1.84	1.3272	.008	1
S1	2.0000	2.1095	.110	5.48	.05757	.000	1

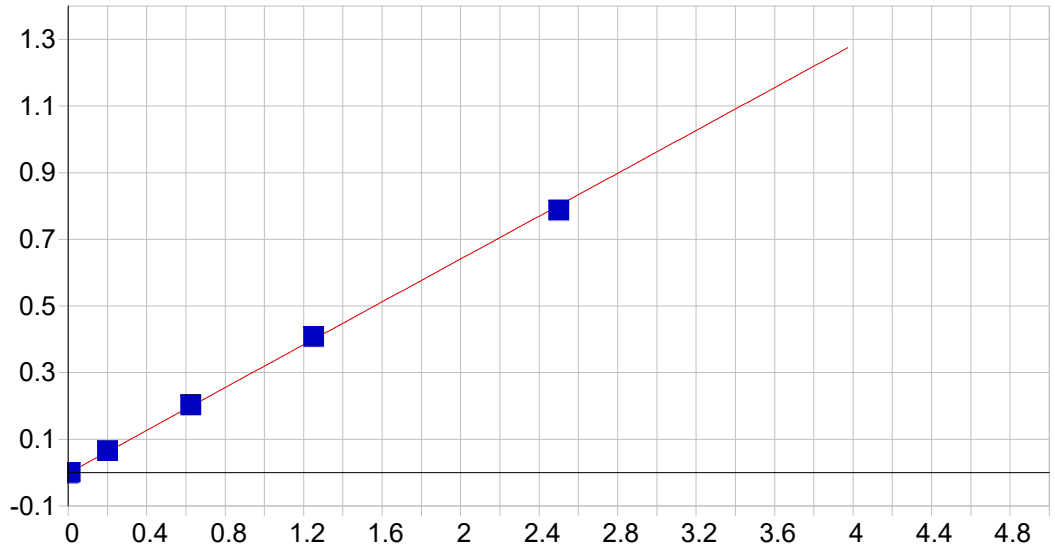


Ni 231.604 {446}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000802	Re-Slope:	1.000000
A1 (Gain):	1.038858	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.000328		
Predicted MDL:	0.000494		
Predicted MQL:	0.001645		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00080	.000	1
S1	.04000	.03925	-.001	-1.87	.03997	.000	1
S3	1.2500	1.2674	.017	1.39	1.3158	.002	1
S4	2.5000	2.5369	.037	1.48	2.6347	.006	1
S5	5.0000	4.9394	-.061	-1.21	5.1305	.088	1
S2	.40000	.40708	.007	1.77	.42209	.009	1

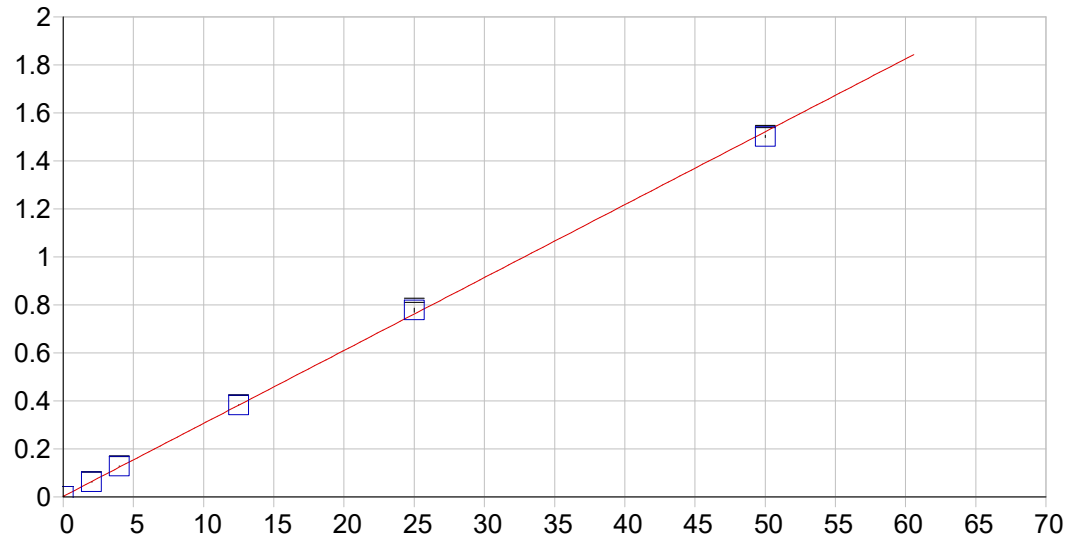


Ag 328.068 {103}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001838	Re-Slope:	1.000000
A1 (Gain):	0.321411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999781	Status:	OK.
Std Error of Est:	0.000056		
Predicted MDL:	0.000727		
Predicted MQL:	0.002425		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00184	.000	1
S1	.01000	.00944	-.001	-5.61	.00117	.000	1
S3	.62500	.63616	.011	1.79	.20183	.000	1
S4	1.2500	1.2742	.024	1.94	.40610	.001	1
S5	2.5000	2.4553	-.045	-1.79	.78409	.000	1
S2	.20000	.20990	.010	4.95	.06537	.001	1

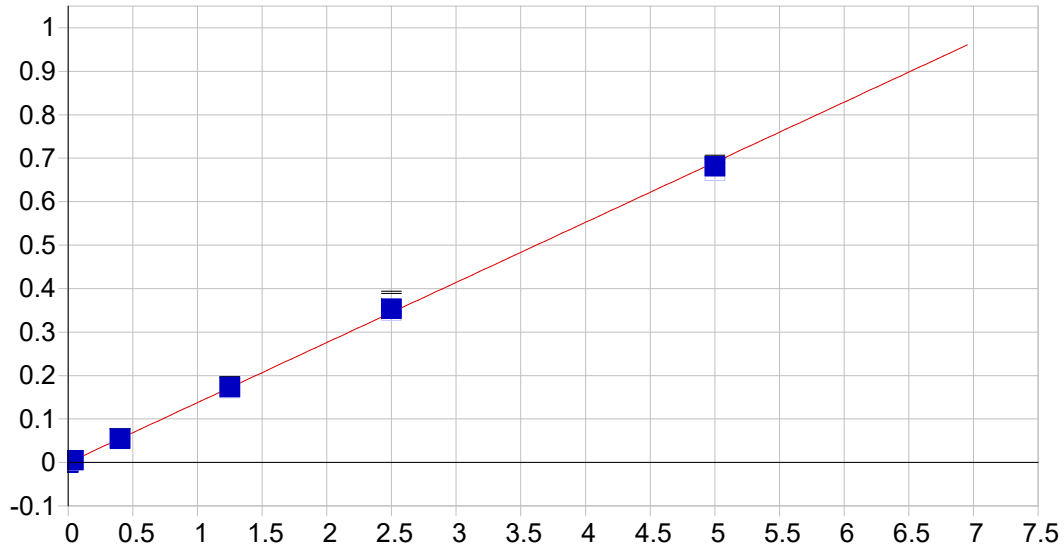


Na 589.592 { 57}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002607	Re-Slope:	1.000000
A1 (Gain):	0.030376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999873	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	0.014209		
Predicted MQL:	0.047364		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00007	-.000	.000	.00260	.000	1
S2	4.0000	4.1273	.127	3.18	.12798	.001	1
S3	12.500	12.500	-.000	-.003	.38229	.001	1
S4	25.000	25.530	.530	2.12	.77809	.009	1
S5	50.000	49.354	-.646	-1.29	1.5017	.004	1
S1	2.0000	1.9896	-.010	-.519	.06304	.000	1

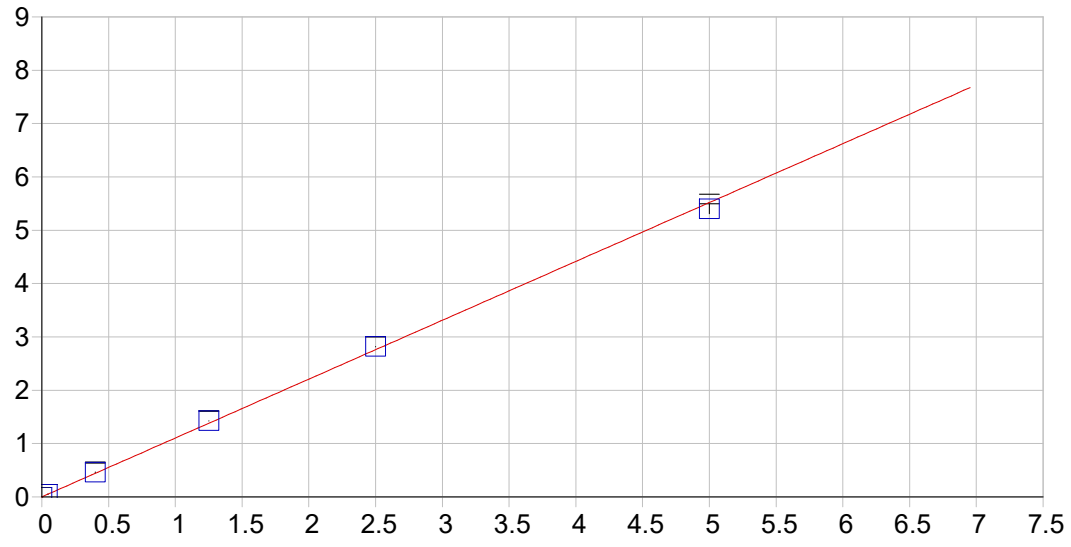


V 292.402 {115}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000573	Re-Slope:	1.000000
A1 (Gain):	0.138252	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.003728		
Predicted MQL:	0.012428		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00057	.000	1
S1	.04000	.03981	-.000	-.464	.00472	.000	1
S3	1.2500	1.2571	.007	.572	.17071	.001	1
S4	2.5000	2.5638	.064	2.55	.34883	.017	1
S5	5.0000	4.9293	-.071	-1.41	.67084	.003	1
S2	.40000	.39993	-.000	-.018	.05391	.000	1

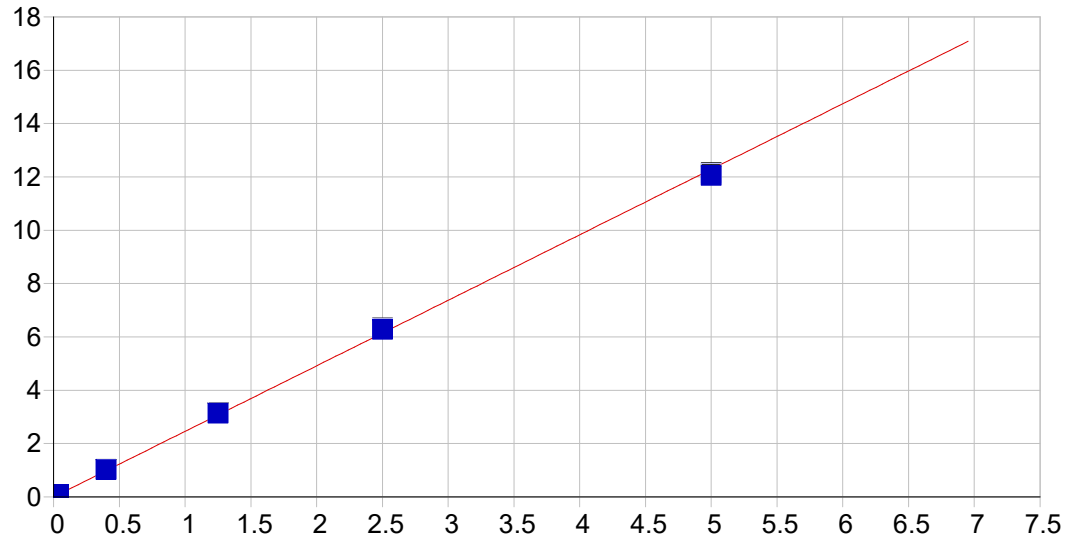


Zn 206.200 {464}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000822	Re-Slope:	1.000000
A1 (Gain):	1.103704	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999705	Status:	OK.
Std Error of Est:	0.000629		
Predicted MDL:	0.000293		
Predicted MQL:	0.000976		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00082	.000	1
S1	.04000	.04071	.001	1.79	.04576	.000	1
S3	1.2500	1.2912	.041	3.30	1.4259	.002	1
S4	2.5000	2.5521	.052	2.09	2.8176	.001	1
S5	5.0000	4.8908	-.109	-2.18	5.3988	.091	1
S2	.40000	.41514	.015	3.78	.45901	.009	1

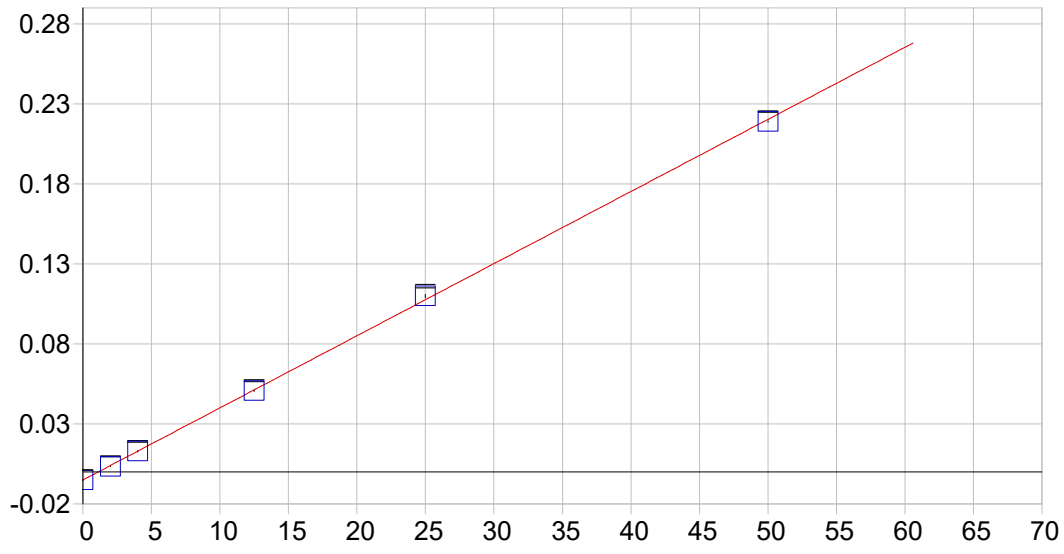


Zn 213.856 {158}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001515	Re-Slope:	1.000000
A1 (Gain):	2.456961	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.001228		
Predicted MDL:	0.000406		
Predicted MQL:	0.001354		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00151	.001	1
S1	.04000	.04018	.000	.452	.10093	.001	1
S3	1.2500	1.2756	.026	2.04	3.1569	.006	1
S4	2.5000	2.5536	.054	2.14	6.3184	.015	1
S5	5.0000	4.9043	-.096	-1.91	12.137	.025	1
S2	.40000	.41631	.016	4.08	1.0312	.004	1

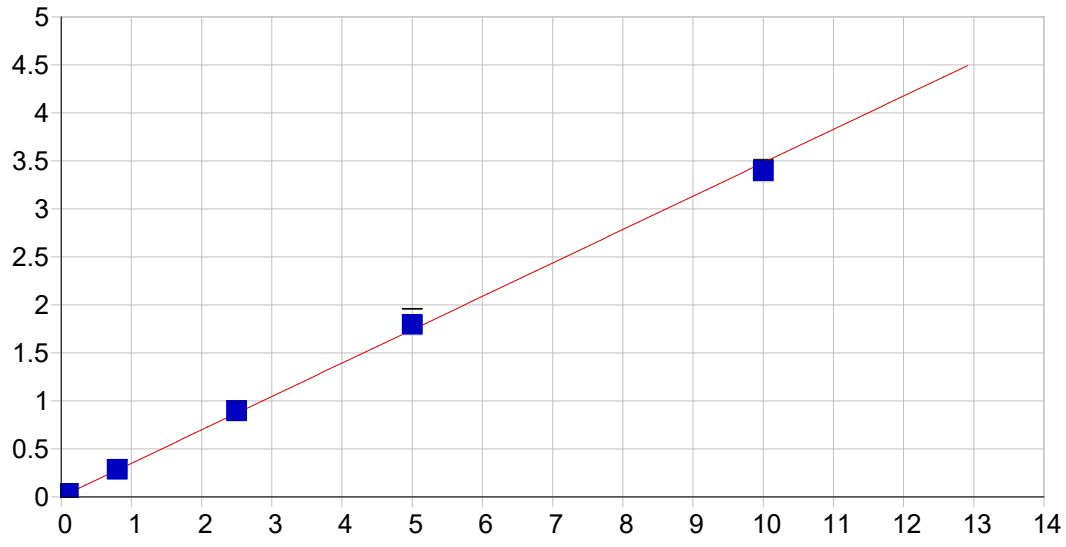


K 766.490 { 44}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005064	Re-Slope:	1.000000
A1 (Gain):	0.004508	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.092999		
Predicted MQL:	0.309997		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	-.00506	.000	1
S2	4.0000	3.9946	-.005	-.134	.01294	.000	1
S3	12.500	12.394	-.106	-.849	.05081	.001	1
S4	25.000	25.508	.508	2.03	.10992	.001	1
S5	50.000	49.706	-.294	-.588	.21900	.000	1
S1	2.0000	1.8974	-.103	-5.13	.00349	.000	1

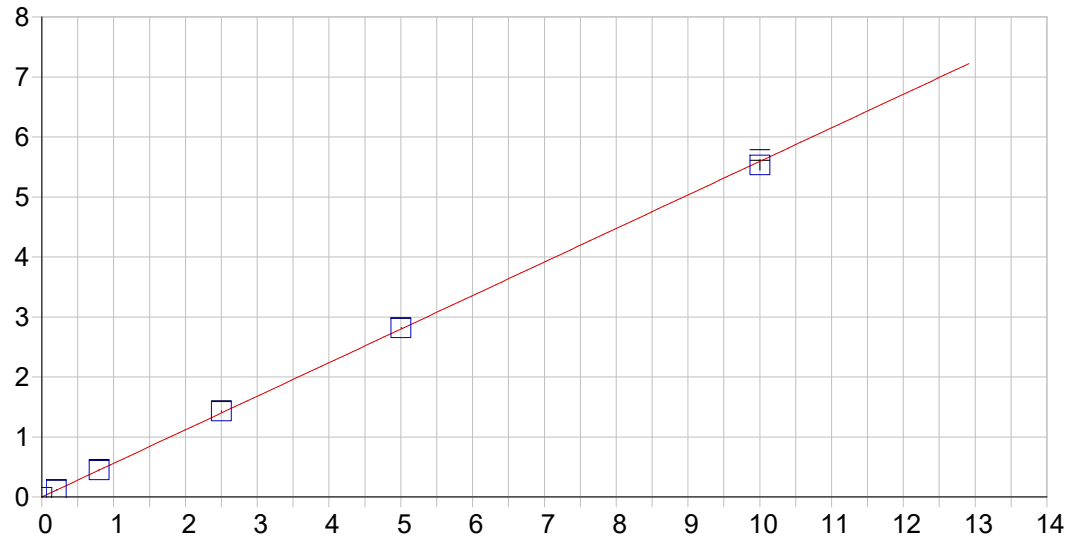


B 249.678 {135}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002157	Re-Slope:	1.000000
A1 (Gain):	0.347816	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999658	Status:	OK.
Std Error of Est:	0.000476		
Predicted MDL:	0.001590		
Predicted MQL:	0.005298		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00216	.000	1
S1	.10000	.10038	.000	.379	.03685	.001	1
S3	2.5000	2.5674	.067	2.69	.89162	.000	1
S4	5.0000	5.1548	.155	3.10	1.7881	.065	1
S5	10.000	9.7630	-.237	-2.37	3.3839	.015	1
S2	.80000	.81447	.014	1.81	.28432	.001	1

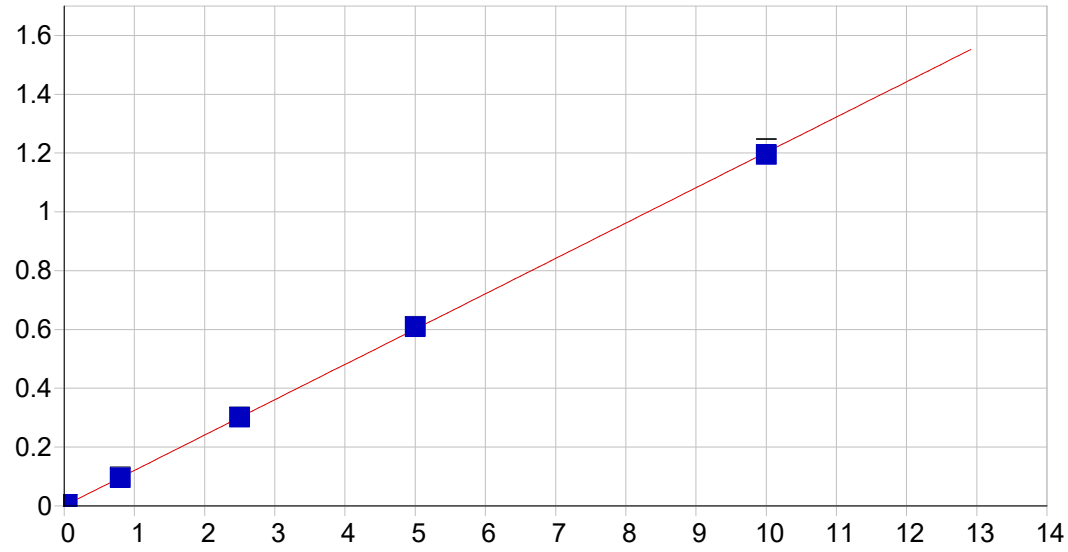


Mo 202.030 {467}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000310	Re-Slope:	1.000000
A1 (Gain):	0.559198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000540		
Predicted MDL:	0.000583		
Predicted MQL:	0.001942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00030	.000	1
S1	.20000	.20891	.009	4.45	.11713	.001	1
S3	2.5000	2.5569	.057	2.28	1.4301	.005	1
S4	5.0000	5.0375	.037	.750	2.8173	.001	1
S5	10.000	9.8937	-.106	-1.06	5.5329	.088	1
S2	.80000	.80298	.003	.373	.44934	.009	1

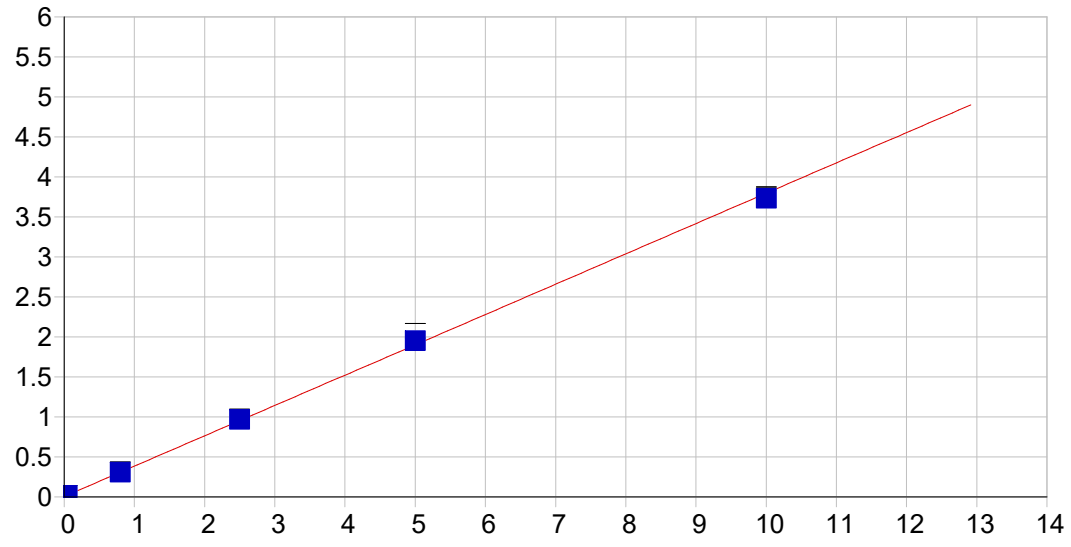


Sn 189.989 {478}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000506	Re-Slope:	1.000000
A1 (Gain):	0.120169	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.001574		
Predicted MQL:	0.005245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00051	.000	1
S1	.04000	.03836	-.002	-4.10	.00511	.000	1
S3	2.5000	2.5043	.004	.174	.30114	.000	1
S4	5.0000	5.0656	.066	1.31	.60862	.002	1
S5	10.000	9.9398	-.060	-.602	1.1937	.020	1
S2	.80000	.79191	-.008	-1.01	.09557	.002	1

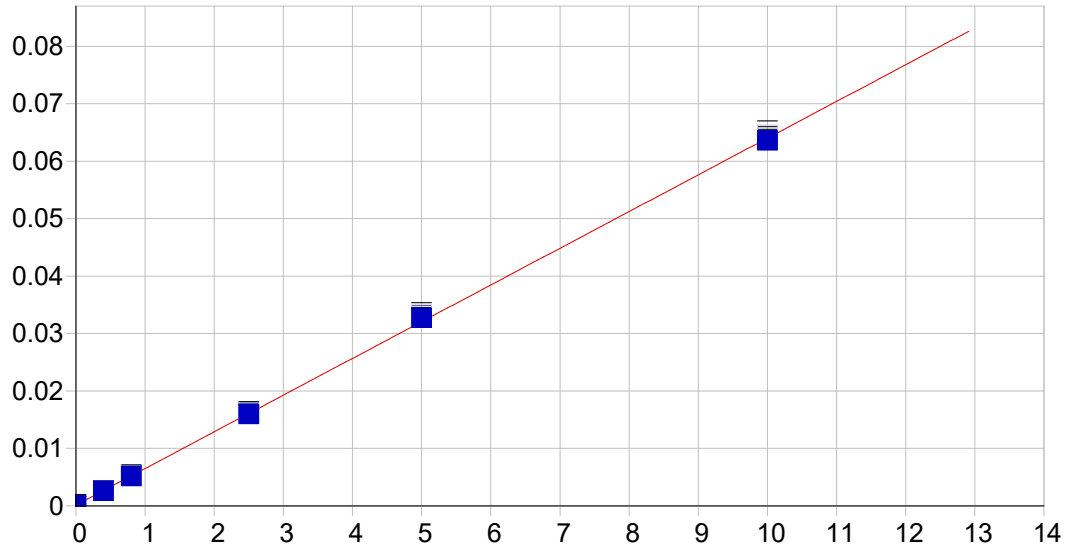


Ti 336.121 {100}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005568	Re-Slope:	1.000000
A1 (Gain):	0.379037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000254		
Predicted MDL:	0.001854		
Predicted MQL:	0.006181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00557	.001	1
S1	.04000	.03660	-.003	-8.49	.01943	.000	1
S3	2.5000	2.5364	.036	1.45	.96660	.007	1
S4	5.0000	5.1375	.138	2.75	1.9522	.090	1
S5	10.000	9.8307	-.169	-1.69	3.7304	.020	1
S2	.80000	.79877	-.001	-.154	.30822	.002	1

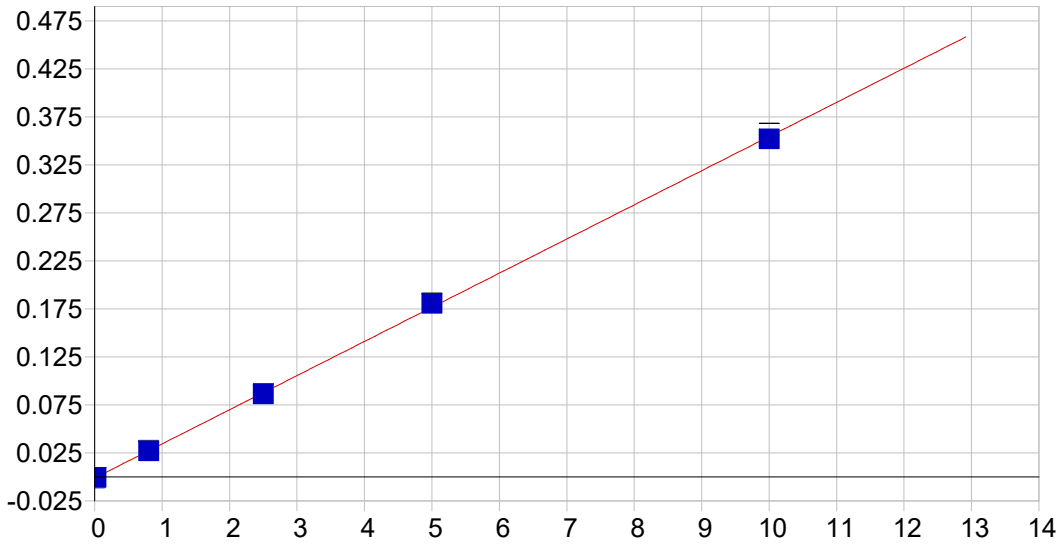


Si 288.158 {117}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.006389	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.016424		
Predicted MQL:	0.054747		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00012	.000	1
S1	.40000	.38858	-.011	-2.86	.00261	.000	1
S3	2.5000	2.4838	-.016	-.648	.01623	.000	1
S4	5.0000	5.1058	.106	2.12	.03323	.000	1
S5	10.000	9.9333	-.067	-.667	.06455	.001	1
S2	.80000	.78833	-.012	-1.46	.00524	.000	1

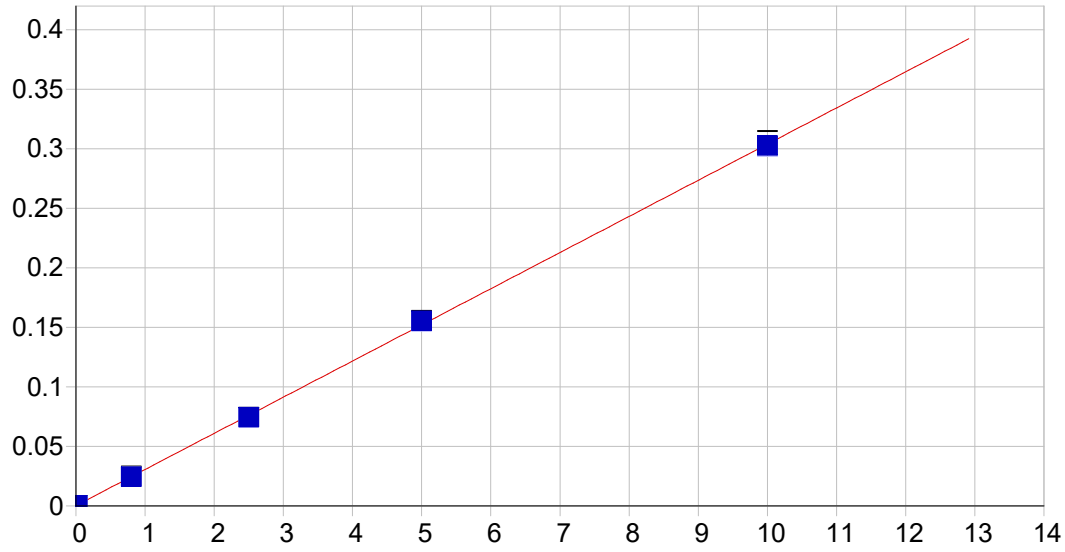


P 177.495 {490}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001175	Re-Slope:	1.000000
A1 (Gain):	0.035575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.004532		
Predicted MQL:	0.015107		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00118	.000	1
S1	.02000	.01801	-.002	-9.94	-.00053	.000	1
S3	2.5000	2.4625	-.037	-1.50	.08641	.000	1
S4	5.0000	5.1149	.115	2.30	.18076	.000	1
S5	10.000	9.9291	-.071	-.709	.35200	.006	1
S2	.80000	.79544	-.005	-.570	.02712	.001	1

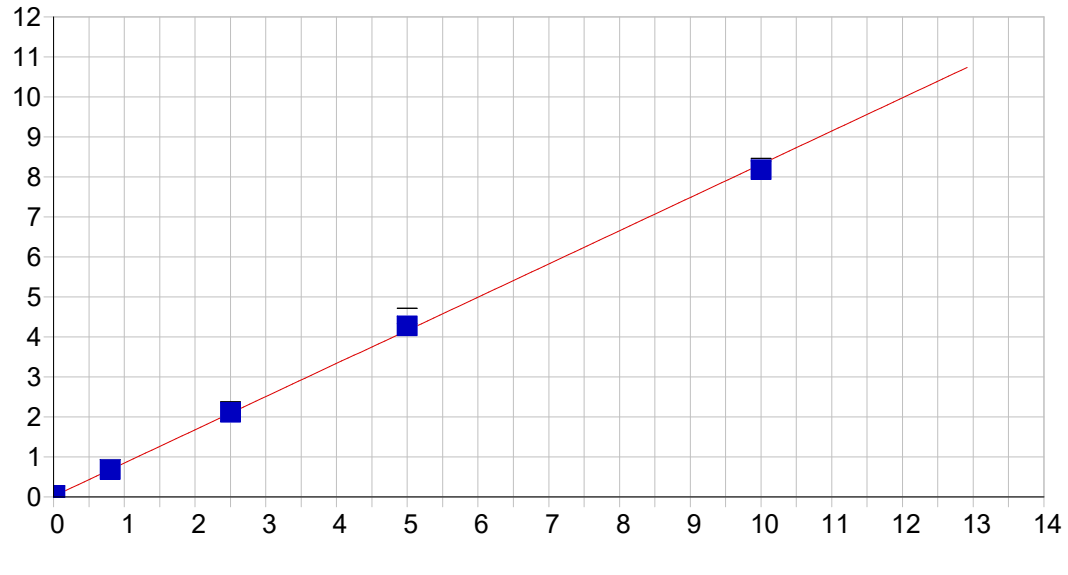


S 182.034 {485}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000243	Re-Slope:	1.000000
A1 (Gain):	0.030376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.006564		
Predicted MQL:	0.021881		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00024	.000	1
S1	.02000	.01882	-.001	-5.91	.00079	.000	1
S3	2.5000	2.4401	-.060	-2.39	.07413	.000	1
S4	5.0000	5.1098	.110	2.20	.15500	.000	1
S5	10.000	9.9550	-.045	-.450	.30171	.005	1
S2	.80000	.79620	-.004	-.475	.02435	.001	1

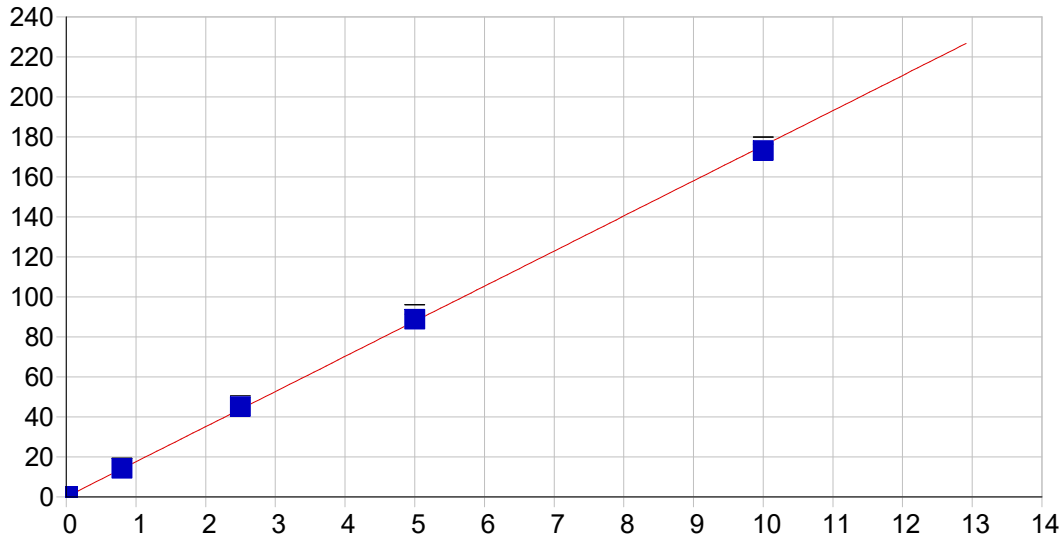


Li 670.784 { 50}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013673	Re-Slope:	1.000000
A1 (Gain):	0.830379	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000368		
Predicted MDL:	0.003139		
Predicted MQL:	0.010464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01367	.002	1
S5	10.000	9.8343	-.166	-1.66	8.1834	.034	1
S4	5.0000	5.1310	.131	2.62	4.2761	.193	1
S3	2.5000	2.5273	.027	1.09	2.1132	.014	1
S1	.02000	.02081	.001	4.05	.03109	.005	1
S2	.80000	.80657	.007	.821	.68371	.003	1

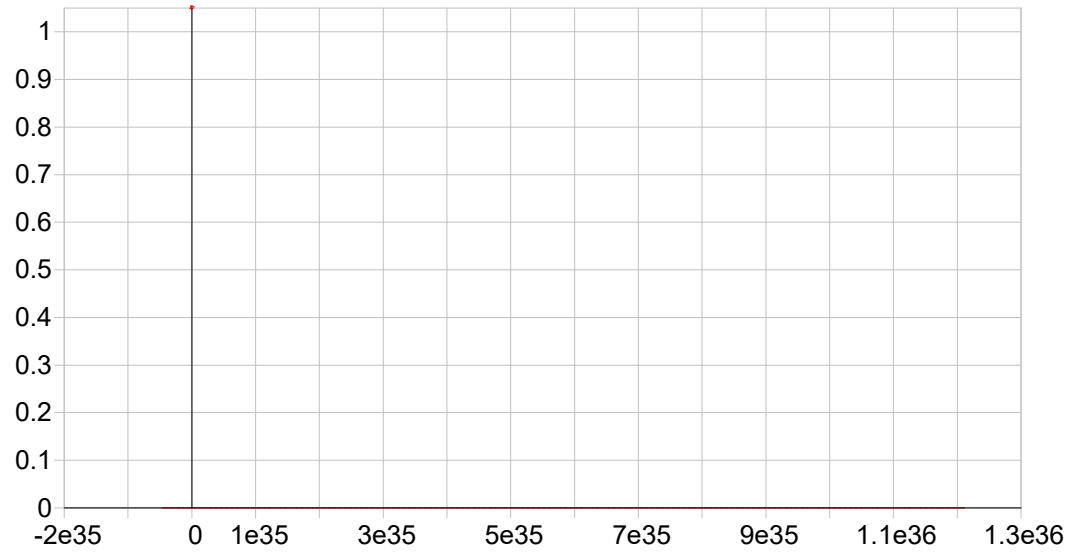


Sr 407.771 { 83}

Date of Fit:	11/9/2023 19:29:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005270	Re-Slope:	1.000000
A1 (Gain):	17.557975	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.006706		
Predicted MDL:	0.000088		
Predicted MQL:	0.000293		

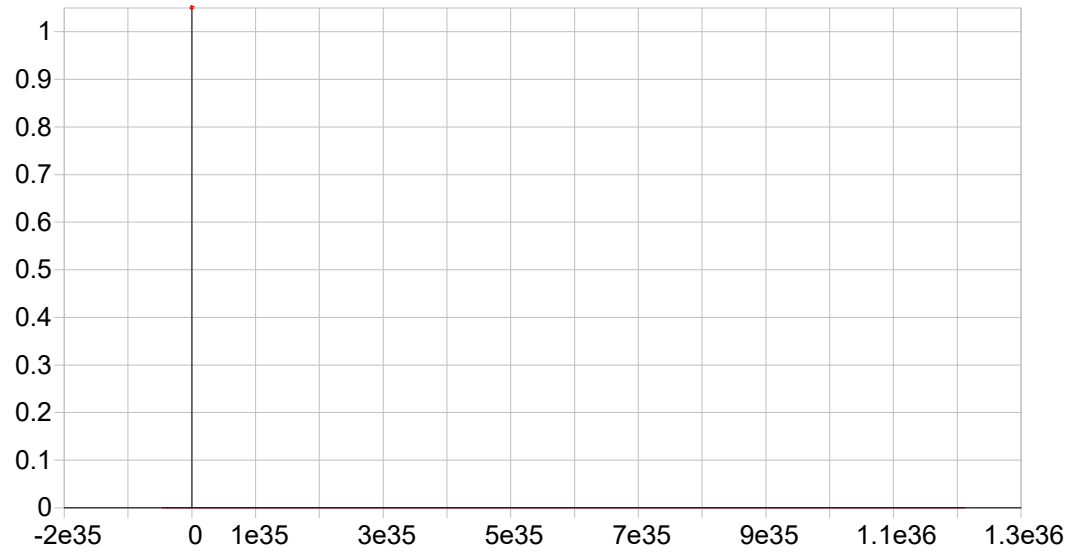
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00524	.001	1
S1	.02000	.02060	.001	2.99	.36868	.004	1
S3	2.5000	2.5722	.072	2.89	45.212	.315	1
S4	5.0000	5.0532	.053	1.06	88.817	2.35	1
S5	10.000	9.8601	-.140	-1.40	173.30	1.72	1
S2	.80000	.81389	.014	1.74	14.310	.036	1



Y 224.306 {450}*

Date of Fit:	11/9/2023 19:29:23	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

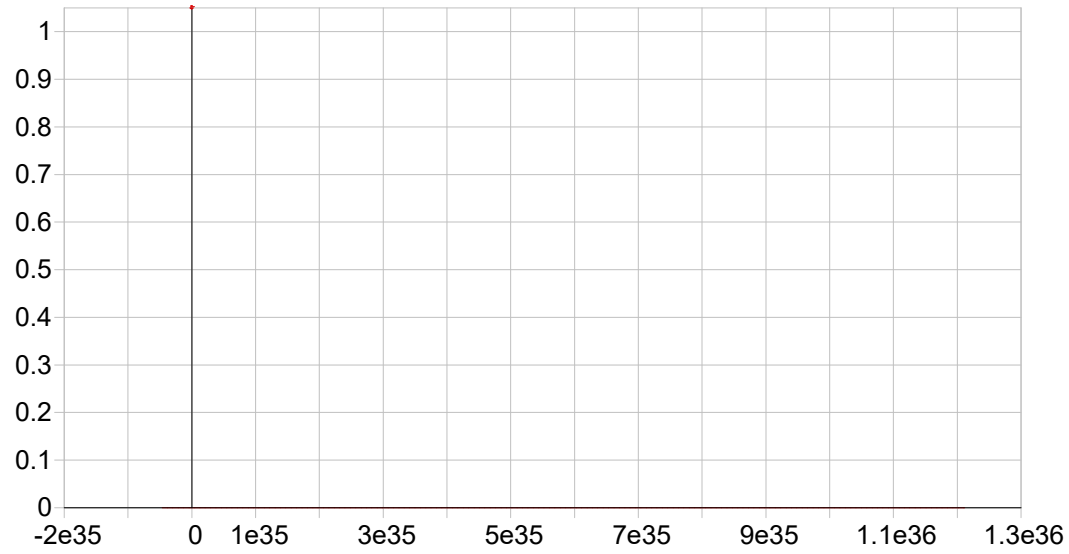


Y 360.073 { 94}*

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					

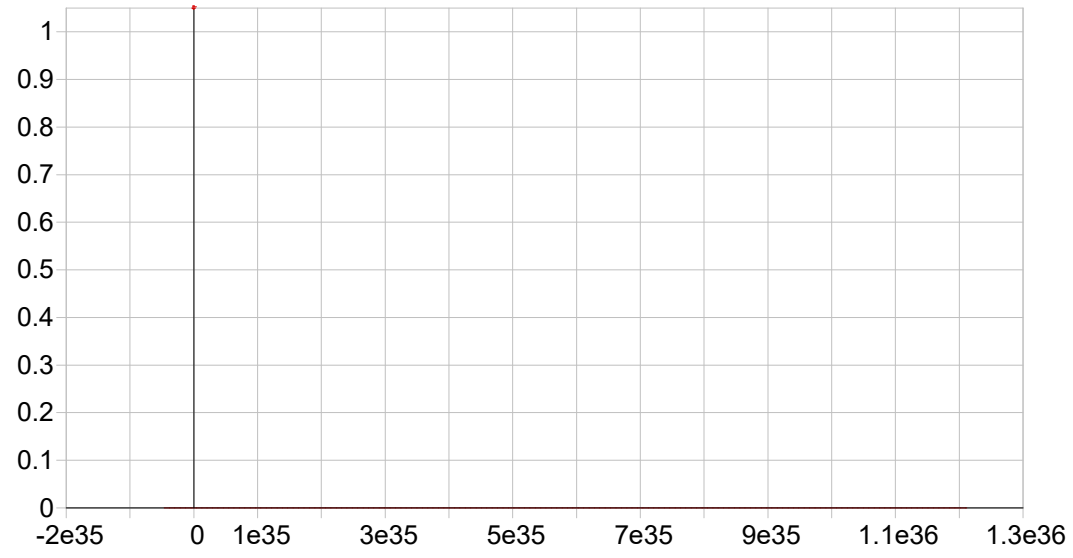
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

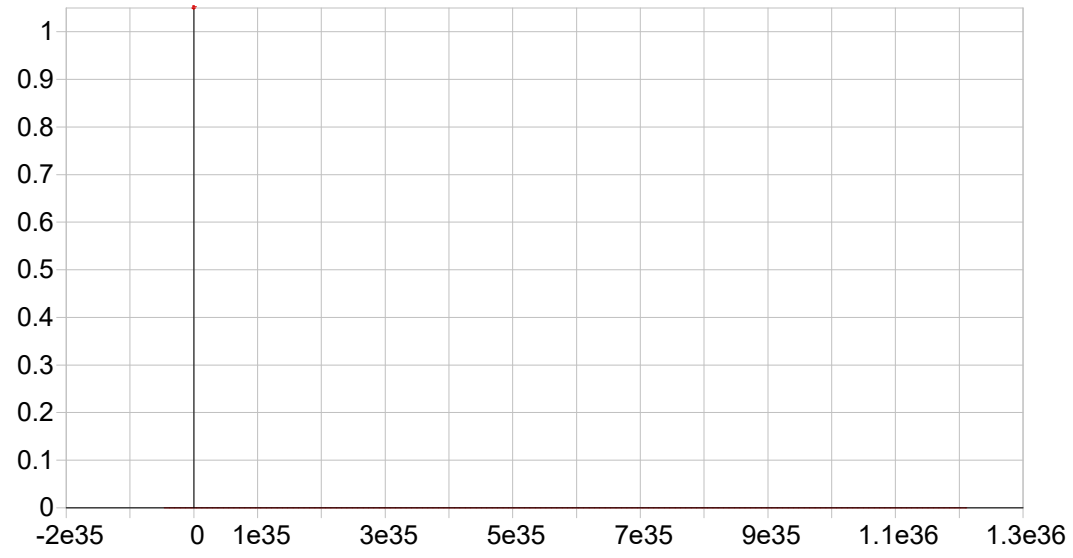
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

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**

Sample Name: S0 Acquired: 11/9/2023 10:53:25 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	**-.00001**	**.00039**	**.00162**	**.00036**	**.00123**	**.00178**	**.24305**	**.00289**
Stddev	.00014	.00014	.00052	.00022	.00032	.00059	.00241	.00051
%RSD	2473.9	36.627	32.177	61.671	25.689	33.012	.99250	17.704
#1	-.00015	.00041	.00192	.00037	.00128	.00130	.24039	.00231
#2	.00013	.00052	.00102	.00013	.00152	.00160	.24367	.00327
#3	.00001	.00024	.00192	.00058	.00089	.00243	.24510	.00308

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00006**	**.00380**	**.00010**	**-.00028**	**-.00290**	**-.00003**	**.00009**	**.00054**
Stddev	.00023	.00121	.00013	.00015	.00081	.00005	.00028	.00027
%RSD	377.40	31.723	129.31	52.578	28.046	147.20	332.01	49.224
#1	.00020	.00433	.00018	-.00031	-.00377	-.00009	-.00001	.00062
#2	-.00015	.00465	-.00005	-.00042	-.00215	.00000	.00041	.00076
#3	-.00024	.00242	.00016	-.00012	-.00280	-.00001	-.00014	.00025

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00080**	**-.00184**	**.00260**	**-.00057**	**.00151**	**-.00506**	**.00216**	**.00030**
Stddev	.00023	.00003	.00009	.00007	.00064	.00018	.00019	.00008
%RSD	28.273	1.8893	3.4727	11.873	42.326	3.6132	8.8274	27.991
#1	-.00056	-.00180	.00266	-.00064	.00078	-.00516	.00200	.00023
#2	-.00085	-.00186	.00250	-.00057	.00195	-.00518	.00210	.00028
#3	-.00100	-.00186	.00265	-.00050	.00180	-.00485	.00237	.00039

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00051**	**.00557**	**.00012**	**-.00118**	**.00024**	**.01367**	**.00524**
Stddev	.00018	.00054	.00010	.00007	.00009	.00207	.00121
%RSD	35.432	9.7150	78.918	6.2674	37.667	15.142	22.993
#1	.00070	.00551	.00020	-.00126	.00034	.01162	.00387
#2	.00035	.00506	.00015	-.00115	.00016	.01576	.00576
#3	.00046	.00614	.00001	-.00112	.00024	.01363	.00611

Sample Name: S0 Acquired: 11/9/2023 10:53:25 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1944.6**	**37421.**	**5681.4**	**1876.4**	**2426.8**
Stddev	4.2	174.	17.4	3.3	1.2
%RSD	.21739	.46611	.30545	.17474	.04977
#1	1943.8	37298.	5692.2	1872.7	2426.0
#2	1940.8	37344.	5661.4	1877.8	2426.2
#3	1949.2	37620.	5690.6	1878.8	2428.2

Sample Name: S1 Acquired: 11/9/2023 10:57:25 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	**.00062**	**.00171**	**.00609**	**.00153**	**.00825**	**.01318**	**.41064**	**.05003**
Stddev	.00007	.00021	.00024	.00020	.00023	.00149	.00299	.00070
%RSD	11.116	11.997	3.9829	12.951	2.7782	11.332	.72840	1.3992
#1	.00054	.00148	.00631	.00141	.00803	.01383	.40793	.04961
#2	.00064	.00183	.00583	.00143	.00848	.01147	.41013	.04963
#3	.00068	.00183	.00613	.00176	.00824	.01423	.41385	.05084

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02224**	**.16668**	**.00260**	**.03578**	**.01758**	**.00045**	**.01864**	**.05757**
Stddev	.00016	.00186	.00008	.00035	.00028	.00002	.00048	.00036
%RSD	.71196	1.1174	2.9685	.96586	1.6090	4.4811	2.5563	.61677
#1	.02219	.16454	.00252	.03618	.01764	.00046	.01810	.05721
#2	.02212	.16789	.00268	.03556	.01728	.00046	.01888	.05757
#3	.02242	.16762	.00261	.03561	.01784	.00042	.01895	.05792

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03997**	**.00117**	**.06304**	**.00472**	**.10093**	**.00349**	**.03685**	**.11713**
Stddev	.00018	.00028	.00022	.00007	.00138	.00038	.00059	.00064
%RSD	.44001	23.991	.34856	1.5419	1.3719	10.913	1.5911	.54598
#1	.04016	.00143	.06283	.00474	.10172	.00305	.03633	.11777
#2	.03996	.00121	.06327	.00465	.10173	.00373	.03673	.11649
#3	.03981	.00087	.06302	.00479	.09933	.00369	.03749	.11713

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00511**	**.01943**	**.00261**	**-.00053**	**.00079**	**.03109**	**.36868**
Stddev	.00015	.00028	.00007	.00001	.00006	.00477	.00355
%RSD	2.9893	1.4649	2.5490	1.6783	7.9762	15.343	.96311
#1	.00516	.01921	.00258	-.00053	.00079	.02559	.36461
#2	.00494	.01975	.00268	-.00053	.00072	.03402	.37032
#3	.00523	.01933	.00256	-.00054	.00085	.03367	.37112

Sample Name: S1 Acquired: 11/9/2023 10:57:25 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.4	35699.	5662.4	1835.8	2279.0
Stddev	8.3	104.	13.6	3.8	10.3
%RSD	.44446	.29131	.24000	.20695	.45164
#1	1869.3	35623.	5672.2	1836.6	2275.5
#2	1884.9	35818.	5668.1	1839.1	2290.6
#3	1872.0	35658.	5646.9	1831.6	2270.9

Sample Name: S2 Acquired: 11/9/2023 11:01:24 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	**.03271**	**.02923**	**.27257**	**.04623**	**.12125**	**.19000**	**3.2078**	**.33024**
Stddev	.00053	.00065	.00585	.00139	.00286	.00085	.0209	.00265
%RSD	1.6271	2.2388	2.1460	3.0141	2.3626	.44785	.65056	.80315
#1	.03219	.02849	.26625	.04467	.11798	.18908	3.1838	.33324
#2	.03326	.02975	.27779	.04737	.12330	.19076	3.2185	.32927
#3	.03269	.02943	.27366	.04664	.12248	.19015	3.2213	.32820

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3659**	**.33531**	**.04225**	**.50480**	**.19622**	**.00371**	**.39376**	**.11055**
Stddev	.0311	.00319	.00002	.01100	.00417	.00005	.00163	.00092
%RSD	2.2768	.95257	.03573	2.1783	2.1272	1.2986	.41426	.83361
#1	1.3315	.33167	.04227	.49281	.19145	.00366	.39197	.10949
#2	1.3922	.33763	.04224	.51442	.19920	.00375	.39414	.11098
#3	1.3739	.33664	.04226	.50716	.19800	.00374	.39517	.11118

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42209**	**.06537**	**.12798**	**.05391**	**1.0312**	**.01294**	**.28432**	**.44934**
Stddev	.00914	.00052	.00142	.00035	.0043	.00049	.00140	.00917
%RSD	2.1652	.79153	1.1099	.64125	.41710	3.8178	.49116	2.0399
#1	.41199	.06540	.12648	.05352	1.0321	.01251	.28563	.43903
#2	.42977	.06587	.12814	.05417	1.0350	.01284	.28448	.45659
#3	.42452	.06484	.12931	.05404	1.0265	.01348	.28285	.45239

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09557**	**.30822**	**.00524**	**.02712**	**.02435**	**.68371**	**14.310**
Stddev	.00218	.00232	.00018	.00058	.00063	.00266	.036
%RSD	2.2778	.75329	3.4287	2.1238	2.5696	.38972	.25168
#1	.09323	.30554	.00503	.02647	.02372	.68095	14.274
#2	.09753	.30963	.00534	.02756	.02497	.68627	14.309
#3	.09595	.30949	.00534	.02733	.02437	.68390	14.346

Sample Name: S2 Acquired: 11/9/2023 11:01:24 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.1	35324.	5640.9	1811.3	2249.9
Stddev	30.3	75.	30.3	9.7	40.0
%RSD	1.6231	.21319	.53685	.53330	1.7778
#1	1902.8	35407.	5609.5	1812.0	2293.6
#2	1844.0	35307.	5643.1	1801.3	2215.1
#3	1860.5	35259.	5669.9	1820.6	2241.0

Sample Name: S3 Acquired: 11/9/2023 11:05:12 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	.10169	.09303	.85399	.14141	.37262	.59749	9.7927	1.0172
Stddev	.00012	.00180	.00257	.00049	.00046	.00456	.0440	.0024
%RSD	.11529	1.9333	.30046	.34700	.12361	.76250	.44939	.23476
#1	.10179	.09244	.85273	.14134	.37312	.59232	9.7457	1.0144
#2	.10156	.09160	.85694	.14096	.37254	.60090	9.8329	1.0184
#3	.10172	.09505	.85229	.14193	.37221	.59926	9.7995	1.0187

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2730	1.0510	.13055	1.5831	.61126	.01149	1.2287	.34197
Stddev	.0049	.0049	.00007	.0014	.00058	.00008	.0093	.00200
%RSD	.11572	.46632	.05497	.08691	.09425	.72825	.76006	.58615
#1	4.2742	1.0455	.13061	1.5839	.61062	.01141	1.2199	.34013
#2	4.2772	1.0547	.13047	1.5838	.61143	.01150	1.2276	.34169
#3	4.2676	1.0529	.13055	1.5815	.61174	.01157	1.2385	.34411

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3158	.20183	.38229	.17071	3.1569	.05081	.89162	1.4301
Stddev	.0017	.00044	.00113	.00114	.0061	.00062	.00049	.0048
%RSD	.12832	.21733	.29438	.67036	.19432	1.2205	.05447	.33603
#1	1.3173	.20216	.38106	.16939	3.1566	.05014	.89160	1.4260
#2	1.3162	.20199	.38256	.17129	3.1631	.05092	.89212	1.4290
#3	1.3140	.20133	.38326	.17144	3.1508	.05136	.89115	1.4354

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30114	.96660	.01623	.08641	.07413	2.1132	45.212
Stddev	.00045	.00702	.00022	.00015	.00006	.0136	.315
%RSD	.15031	.72665	1.3545	.17541	.07875	.64555	.69671
#1	.30156	.95850	.01598	.08625	.07418	2.0985	44.882
#2	.30066	.97038	.01633	.08646	.07407	2.1254	45.244
#3	.30121	.97092	.01638	.08654	.07415	2.1156	45.510

Sample Name: S3 Acquired: 11/9/2023 11:05:12 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.1	36374.	5621.3	1843.0	2278.8
Stddev	3.1	115.	7.6	9.9	6.8
%RSD	.16463	.31543	.13559	.53712	.29891
#1	1898.3	36262.	5613.3	1832.9	2272.7
#2	1900.5	36491.	5628.5	1843.4	2277.7
#3	1904.4	36368.	5622.0	1852.7	2286.1

Sample Name: S4 Acquired: 11/9/2023 11:08:56 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	.20590	.18651	1.7091	.28637	.75026	1.2043	19.724	2.0398
Stddev	.00050	.00333	.0050	.00088	.00020	.0565	.901	.0711
%RSD	.24343	1.7862	.28966	.30615	.02666	4.6896	4.5662	3.4842
#1	.20635	.18331	1.7145	.28697	.75017	1.1672	19.146	2.0004
#2	.20536	.18996	1.7078	.28678	.75048	1.1764	19.265	1.9972
#3	.20598	.18626	1.7049	.28536	.75011	1.2693	20.762	2.1219

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.5826	2.1151	.25951	3.1744	1.2170	.02310	2.4855	.69273
Stddev	.0185	.0969	.00011	.0113	.0021	.00024	.1216	.03308
%RSD	.21529	4.5805	.04378	.35644	.16814	1.0265	4.8902	4.7752
#1	8.6010	2.0521	.25964	3.1861	1.2186	.02286	2.4086	.66977
#2	8.5828	2.0665	.25943	3.1733	1.2177	.02311	2.4222	.67777
#3	8.5641	2.2267	.25945	3.1636	1.2147	.02333	2.6256	.73065

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6347	.40610	.77809	.34883	6.3184	.10992	1.7881	2.8173
Stddev	.0056	.00063	.00853	.01730	.0153	.00103	.0650	.0008
%RSD	.21336	.15549	1.0959	4.9594	.24267	.93956	3.6337	.02981
#1	2.6401	.40619	.76949	.33850	6.3352	.10883	1.7528	2.8164
#2	2.6349	.40668	.77824	.33919	6.3052	.11006	1.7483	2.8180
#3	2.6289	.40543	.78654	.36880	6.3147	.11088	1.8630	2.8174

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.60862	1.9522	.03323	.18076	.15500	4.2761	88.817
Stddev	.00182	.0904	.00042	.00026	.00038	.1935	2.354
%RSD	.29967	4.6290	1.2725	.14614	.24284	4.5246	2.6508
#1	.60917	1.8940	.03278	.18104	.15459	4.1452	86.772
#2	.61011	1.9063	.03328	.18051	.15532	4.1848	88.288
#3	.60659	2.0563	.03362	.18073	.15508	4.4983	91.391

Sample Name: S4 Acquired: 11/9/2023 11:08:56 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1849.0	35186.	5503.8	1791.0	2174.9
Stddev	.2	72.	191.8	8.6	2.2
%RSD	.01203	.20373	3.4853	.48279	.10159
#1	1849.3	35104.	5595.7	1781.0	2173.7
#2	1848.9	35233.	5632.4	1796.4	2173.6
#3	1848.9	35222.	5283.3	1795.5	2177.5

Sample Name: S5 Acquired: 11/9/2023 11:12:45 Type: Cal
Method: NON EPA-6010-200.7(v2065) 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	.39693	.37173	3.3257	.54412	1.4535	2.2852	37.314	3.8320
Stddev	.00710	.00857	.0558	.00942	.0233	.0169	.378	.0154
%RSD	1.7878	2.3045	1.6771	1.7321	1.6047	.73729	1.0138	.40109
#1	.40143	.37642	3.3581	.54911	1.4679	2.2673	36.879	3.8143
#2	.40061	.37693	3.3578	.55000	1.4661	2.2875	37.568	3.8403
#3	.38875	.36185	3.2613	.53325	1.4266	2.3008	37.493	3.8414

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16.778	4.0167	.50223	6.2215	2.3401	.04465	4.7288	1.3272
Stddev	.281	.0204	.00062	.1023	.0397	.00013	.0221	.0084
%RSD	1.6741	.50667	.12298	1.6438	1.6958	.27998	.46793	.63213
#1	16.935	3.9944	.50276	6.2775	2.3604	.04464	4.7033	1.3177
#2	16.946	4.0216	.50156	6.2835	2.3654	.04453	4.7413	1.3335
#3	16.454	4.0342	.50239	6.1034	2.2943	.04478	4.7419	1.3304

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.1305	.78409	1.5017	.67084	12.137	.21900	3.3839	5.5329
Stddev	.0877	.00038	.0044	.00335	.025	.00044	.0147	.0880
%RSD	1.7095	.04848	.29436	.49943	.20804	.20288	.43586	1.5896
#1	5.1797	.78446	1.5045	.66769	12.116	.21929	3.3671	5.5821
#2	5.1826	.78370	1.4966	.67046	12.129	.21849	3.3946	5.5852
#3	5.0293	.78412	1.5041	.67436	12.165	.21923	3.3900	5.4313

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1937	3.7304	.06455	.35200	.30171	8.1834	173.30
Stddev	.0201	.0196	.00071	.00596	.00452	.0341	1.72
%RSD	1.6836	.52428	1.0944	1.6942	1.4986	.41665	.99215
#1	1.2039	3.7083	.06388	.35528	.30449	8.1444	172.11
#2	1.2067	3.7375	.06449	.35560	.30416	8.1979	172.53
#3	1.1706	3.7454	.06529	.34511	.29650	8.2078	175.27

Sample Name: S5 Acquired: 11/9/2023 11:12:45 Type: Cal
Method: NON EPA-6010-200.7(v2065) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.1	35471.	5598.1	1783.1	2177.4
Stddev	31.0	136.	15.8	4.5	36.7
%RSD	1.6561	.38279	.28282	.24987	1.6846
#1	1854.4	35375.	5615.1	1785.1	2159.1
#2	1848.4	35626.	5595.4	1786.3	2153.6
#3	1904.7	35411.	5583.8	1778.0	2219.7

Sample Name: ICV01 Acquired: 11/9/2023 11:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.065012**	**1.026273**	**1.033352**	**1.080970**	**1.004844**	**2.502322**
Stddev	.009344	.020802	.001503	.006060	.004931	.016946
%RSD	.8773724	2.026913	.1454028	.5605940	.4907133	.6772029
#1	1.054966	1.013720	1.031756	1.073987	.999843	2.487203
#2	1.073443	1.014814	1.033559	1.084074	1.004987	2.499125
#3	1.066627	1.050284	1.034740	1.084849	1.009702	2.520639

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4791138**	**.5157189**	**.5206154**	**9.971859**	**.5181276**	**.5049537**
Stddev	.0012310	.0014348	.0001819	.062325	.0014115	.0003615
%RSD	.2569256	.2782065	.0349421	.6250089	.2724220	.0715831
#1	.4783879	.5143139	.5205332	9.899933	.5191538	.5045506
#2	.4805351	.5171817	.5204891	10.00990	.5187111	.5050616
#3	.4784185	.5156612	.5208240	10.00575	.5165179	.5052490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5221421**	**9.858979**	**.5154157**	**5.882055**	**.5096799**	**.2545241**
Stddev	.0012924	.082839	.0040274	.041510	.0012587	.0003947
%RSD	.2475128	.8402440	.7813839	.7057102	.2469528	.1550827
#1	.5206596	9.774291	.5110627	5.857404	.5087533	.2541079
#2	.5227362	9.862808	.5161753	5.858781	.5111129	.2545713
#3	.5230307	9.939837	.5190093	5.929980	.5091735	.2548931

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.924361**	**.4978265**	**1.010533**	**9.900521**	F **.0049992**	F **.0062747**
Stddev	.059388	.0046317	.001974	.054095	.0004606	.0013946
%RSD	.5984114	.9303818	.1952938	.5463887	9.214104	22.22636
#1	9.856818	.4936392	1.012651	9.846994	.0049572	.0076609
#2	9.968400	.5028015	1.010201	9.899404	.0045610	.0062915
#3	9.947865	.4970390	1.008747	9.955167	.0054794	.0048717

Sample Name: ICV01 Acquired: 11/9/2023 11:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001085	F .0006140	F .0139088	F .0010536	F .0073196	F .0017146
Stddev	.001489	.0022424	.0307771	.0011339	.0035635	.0037631
%RSD	137.2782	365.2029	221.2776	107.6216	48.68445	219.4713
#1	.000384	.0000852	.0487192	.0020565	.0113036	-.001388
#2	-.001045	.0030736	.0027008	.0012810	.0062186	.000631
#3	-.002592	-.001317	-.009694	-.000177	.0044365	.005901

Elem	Sr4077
Units	ppm
Avg	F -.008368
Stddev	.000164
%RSD	1.956966
#1	-.008245
#2	-.008306
#3	-.008554

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.533	35720.59	5650.152	1831.051	2268.916
Stddev	4.102	90.42	14.026	11.904	.842
%RSD	.2182575	.2531176	.2482429	.6501259	.0371003
#1	1882.258	35630.82	5638.575	1817.789	2269.584
#2	1881.526	35719.33	5646.132	1834.550	2269.193
#3	1874.815	35811.63	5665.749	1840.814	2267.970

Sample Name: LLICV01 Acquired: 11/9/2023 11:20:27 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175245	.0407744	.0134554	.0185104	.0496484	.0945334	.0932595
Stddev	.0087635	.0010869	.0019063	.0093191	.0009451	.0051129	.0033794
%RSD	50.00710	2.665672	14.16734	50.34532	1.903621	5.408546	3.623664
#1	.0245688	.0412500	.0112744	.0131370	.0500269	.0985781	.0968582
#2	.0202936	.0415424	.0148030	.0292712	.0503456	.0887866	.0927670
#3	.0077109	.0395307	.0142889	.0131230	.0485727	.0962357	.0901535

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061431	.0062277	1.987619	.0093151	.0293232	.0211243	.1053642
Stddev	.0000663	.0000433	.012719	.0002646	.0002914	.0001239	.0039193
%RSD	1.078849	.6949155	.6399122	2.840260	.9936390	.5867329	3.719770
#1	.0061213	.0062735	1.986034	.0095808	.0293657	.0212054	.1008743
#2	.0062175	.0062222	1.975767	.0090517	.0295911	.0209816	.1071175
#3	.0060905	.0061875	2.001056	.0093130	.0290130	.0211858	.1081008

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202703	2.117815	.0397623	.0097650	2.005920	.0400286	.0406242
Stddev	.0002537	.020125	.0003457	.0004594	.015319	.0041800	.0004098
%RSD	1.251746	.9502627	.8693247	4.705031	.7636976	10.44261	1.008770
#1	.0202679	2.132774	.0399906	.0102893	2.009427	.0434788	.0402546
#2	.0205253	2.125736	.0399318	.0094326	1.989151	.0412264	.0405531
#3	.0200178	2.094935	.0393646	.0095731	2.019181	.0353804	.0410649

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.947616	.1092000	.2115899	.0388233	.0392745	.4027185	.0175567
Stddev	.055656	.0006063	.0002421	.0011509	.0009254	.0278064	.0036068
%RSD	2.857635	.5552411	.1144346	2.964378	2.356281	6.904667	20.54369
#1	1.996411	.1098604	.2113464	.0401354	.0382420	.3713336	.0208094
#2	1.886999	.1090711	.2115928	.0379850	.0395521	.4125424	.0136778
#3	1.959438	.1086685	.2118306	.0383494	.0400293	.4242793	.0181829

Sample Name: LLICV01 Acquired: 11/9/2023 11:20:27 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0206883	.0231431	.0209596
Stddev	.0038538	.0024772	.0000316
%RSD	18.62801	10.70366	.1509521
#1	.0177264	.0248694	.0209456
#2	.0192930	.0242550	.0209373
#3	.0250454	.0203048	.0209958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.615	35501.00	5617.363	1831.008	2272.884
Stddev	1.513	125.19	13.033	7.050	1.282
%RSD	.0809434	.3526374	.2320142	.3850111	.0564116
#1	1868.148	35492.73	5624.132	1823.621	2271.432
#2	1871.171	35630.11	5602.338	1837.662	2273.861
#3	1869.527	35380.14	5625.619	1831.742	2273.358

Sample Name: ICV01 Acquired: 11/9/2023 11:24:25 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024157	.0031390	.0016099	-.005851	-.000591	-.009464	.0031963
Stddev	.0072661	.0028357	.0006121	.002497	.000843	.017011	.0064906
%RSD	300.7831	90.33890	38.02021	42.67142	142.7399	179.7433	203.0637
#1	-.000695	.0058354	.0023008	-.003077	.000374	-.018518	.0008686
#2	-.002777	.0001820	.0013938	-.007919	-.000960	.010159	.0105298
#3	.010719	.0033995	.0011352	-.006556	-.001186	-.020033	-.001809

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000010	.0001017	-.010212	.0001148	.0001018	-.000266	.0039689
Stddev	.000021	.0000893	.003829	.0001690	.0001713	.000794	.0032444
%RSD	201.7685	87.79543	37.49198	147.3044	168.3503	298.1002	81.74660
#1	.000012	.0002010	-.012081	-.000003	.0001045	-.000725	.0039972
#2	-.000014	.0000279	-.012748	.000309	-.000071	-.000724	.0071990
#3	-.000029	.0000762	-.005808	.000038	.000272	.000650	.0007104

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000231	-.007994	.0002662	-.000736	-.018142	.0030182	-.000399
Stddev	.000471	.018453	.0004078	.000219	.009741	.0030447	.000340
%RSD	203.8369	230.8312	153.1839	29.75326	53.69377	100.8765	85.20702
#1	-.000051	-.003813	.0006408	-.000483	-.029284	.0006844	-.000568
#2	.000123	.008009	.0003261	-.000861	-.013903	.0064622	-.000008
#3	-.000766	-.028180	-.000168	-.000865	-.011238	.0019080	-.000623

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.069232	.0030535	.0006610	-.000284	.0008449	.0058316	-.002843
Stddev	.105402	.0019259	.0002727	.001439	.0006519	.0203855	.001923
%RSD	152.2452	63.07229	41.26071	506.5837	77.15714	349.5688	67.63071
#1	-.179004	.0022002	.0007009	-.001778	.0014580	.0068781	-.001235
#2	-.059866	.0052587	.0009116	.001092	.0009165	-.015057	-.004972
#3	.031175	.0017017	.0003705	-.000167	.0001601	.025674	-.002321

Sample Name: ICV01 Acquired: 11/9/2023 11:24:25 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003404	.0025645	.0003503
Stddev	.0056480	.0014234	.0006352
%RSD	1659.115	55.50597	181.3032
#1	.0067831	.0020538	-.000048
#2	-.003758	.0014668	.001083
#3	-.002004	.0041728	.000017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.277	35829.96	5588.010	1840.768	2303.958
Stddev	1.401	122.04	31.847	11.617	2.917
%RSD	.0743930	.3406104	.5699255	.6310817	.1266266
#1	1882.714	35698.70	5566.253	1827.387	2301.264
#2	1882.244	35940.00	5624.564	1848.279	2303.553
#3	1884.871	35851.17	5573.212	1846.636	2307.056

Sample Name: CRI01 Acquired: 11/9/2023 11:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0234887	.0306264	.0119251	.0218032	.0501905	.0961461	.0912057
Stddev	.0043091	.0039093	.0010971	.0075721	.0026352	.0045831	.0015654
%RSD	18.34547	12.76451	9.200120	34.72920	5.250311	4.766761	1.716317
#1	.0281601	.0326840	.0106717	.0222362	.0476082	.0931891	.0917005
#2	.0196691	.0330771	.0127115	.0291495	.0528755	.1014255	.0924638
#3	.0226369	.0261180	.0123920	.0140239	.0500878	.0938237	.0894527

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059492	.0063471	1.971939	.0094424	.0289352	.0212566	.0970759
Stddev	.0000311	.0000243	.024051	.0000957	.0002313	.0001824	.0024468
%RSD	.5235180	.3835489	1.219638	1.013834	.7994336	.8579874	2.520460
#1	.0059143	.0063749	1.947346	.0095338	.0287555	.0212122	.0945312
#2	.0059592	.0063372	1.995407	.0094505	.0288540	.0214570	.0994113
#3	.0059741	.0063293	1.973063	.0093429	.0291962	.0211005	.0972853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197997	2.110219	.0395949	.0095428	1.998207	.0389128	.0406581
Stddev	.0001085	.019676	.0003417	.0006561	.013020	.0040913	.0003972
%RSD	.5481263	.9324166	.8630991	6.875066	.6516005	10.51414	.9770154
#1	.0197246	2.096563	.0392795	.0097295	1.983177	.0359284	.0402772
#2	.0199241	2.132773	.0399580	.0088136	2.005399	.0372335	.0406272
#3	.0197504	2.101322	.0395472	.0100853	2.006045	.0435766	.0410699

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003271	.1050094	.2111761	.0378240	.0377270	.3903099	.0157034
Stddev	.064028	.0008691	.0007995	.0017621	.0009626	.0138187	.0017980
%RSD	3.196174	.8276826	.3785803	4.658738	2.551403	3.540448	11.44952
#1	2.046442	.1058686	.2105401	.0372655	.0388089	.4013210	.0136275
#2	1.929707	.1050288	.2109146	.0364088	.0369655	.3948054	.0167624
#3	2.033665	.1041307	.2120736	.0397977	.0374065	.3748031	.0167205

Sample Name: CRI01 Acquired: 11/9/2023 11:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0210209	.0202267	.0208314
Stddev	.0033040	.0021862	.0000970
%RSD	15.71786	10.80849	.4658522
#1	.0246231	.0197898	.0207271
#2	.0181314	.0182919	.0209189
#3	.0203081	.0225983	.0208484

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.752	35589.03	5662.880	1833.547	2277.146
Stddev	3.157	213.95	22.588	5.496	2.676
%RSD	.1685721	.6011800	.3988823	.2997364	.1174998
#1	1875.009	35498.58	5637.016	1832.110	2278.967
#2	1874.102	35833.35	5678.733	1839.619	2278.398
#3	1869.144	35435.15	5672.890	1828.913	2274.074

Sample Name: ICSA01 Acquired: 11/9/2023 11:32:26 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.008495	.0027777	-.000430	-.008441	.0025936	254.5085
Stddev	.007477	.0051470	.002082	.001420	.0013148	1.0837
%RSD	88.01465	185.2995	484.0528	16.82477	50.69330	.4258076
#1	-.015831	-.001248	-.000507	-.006993	.0018386	253.3363
#2	-.000884	.001004	-.002473	-.009832	.0041118	255.4739
#3	-.008771	.008577	.001689	-.008497	.0018304	254.7154

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080100	.0009449	.0024829	247.4406	.0567245	.0002842
Stddev	.0010864	.0000874	.0001538	1.0086	.0008602	.0004905
%RSD	13.56279	9.246984	6.194031	.4076131	1.516404	172.6012
#1	.0086101	.0008655	.0024877	246.5639	.0567386	-.000282
#2	.0086640	.0009305	.0023267	248.5429	.0575775	.000587
#3	.0067560	.0010385	.0026342	247.2149	.0558574	.000547

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219444	99.94778	.0203712	252.1969	.0036172	-.003766
Stddev	.0009980	.84924	.0007725	1.0388	.0005097	.000079
%RSD	4.547903	.8496833	3.792202	.4119136	14.09132	2.089989
#1	.0219762	99.16497	.0204419	251.0268	.0037399	-.003727
#2	.0209309	100.8507	.0211060	253.0105	.0030573	-.003714
#3	.0229262	99.8277	.0195658	252.5535	.0040544	-.003857

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029173	.0047328	.0015662	-.237374	-.062036	.0016585
Stddev	.0049895	.0043115	.0001673	.092022	.003142	.0006504
%RSD	171.0347	91.10005	10.68002	38.76695	5.064527	39.21872
#1	.0086698	.0031535	.0014327	-.343563	-.065410	.0017980
#2	-.000236	.0096113	.0015120	-.180965	-.059194	.0022278
#3	.000318	.0014335	.0017538	-.187593	-.061505	.0009496

Sample Name: ICSA01 Acquired: 11/9/2023 11:32:26 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006233	.0008218	.0072493	-.000463	F .0340462	-.004655
Stddev	.000734	.0024206	.0140380	.005512	.0008404	.001679
%RSD	11.77858	294.5315	193.6468	1191.727	2.468255	36.06536
#1	-.007076	-.001629	-.008398	-.006205	.0335528	-.005497
#2	-.005885	.003211	.018739	.000030	.0350165	-.005747
#3	-.005737	.000884	.011407	.004787	.0335693	-.002722

Elem	Sr4077
Units	ppm
Avg	.0063003
Stddev	.0006528
%RSD	10.36166
#1	.0067184
#2	.0055480
#3	.0066344

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1752.393	32979.25	5411.919	1689.899	1995.515
Stddev	5.135	102.12	18.718	3.415	5.524
%RSD	.2930182	.3096375	.3458735	.2021077	.2768430
#1	1751.645	33051.52	5390.321	1691.199	1991.051
#2	1757.861	32862.42	5422.010	1686.025	2001.693
#3	1747.673	33023.80	5423.427	1692.474	1993.801

Sample Name: ICSAB01 Acquired: 11/9/2023 11:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.1027058	.1077096	.0500494	.0465858	.6112538	250.9397
Stddev	.0020720	.0116880	.0036488	.0006468	.0065250	1.7939
%RSD	2.017395	10.85143	7.290331	1.388366	1.067475	.7148786
#1	.1014972	.0950728	.0480574	.0469739	.6155979	249.3314
#2	.1050983	.1181320	.0478302	.0458392	.6037506	250.6134
#3	.1015219	.1099240	.0542606	.0469443	.6144131	252.8744

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4989107	.5059622	1.041957	245.6404	.5651406	.5078150
Stddev	.0044250	.0016116	.001821	1.4265	.0003750	.0007020
%RSD	.8869403	.3185235	.1747696	.5807224	.0663502	.1382397
#1	.4954480	.5046325	1.041557	244.4436	.5651839	.5077980
#2	.4973881	.5054996	1.040370	245.2586	.5647458	.5071217
#3	.5038960	.5077545	1.043945	247.2189	.5654920	.5085254

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5164758	99.14544	.5232558	249.8879	1.008553	.2028954
Stddev	.0010108	.65859	.0056292	2.0137	.002374	.0003463
%RSD	.1957043	.6642677	1.075809	.8058443	.2353995	.1706730
#1	.5176379	98.61039	.5180211	248.0666	1.006424	.2031242
#2	.5158010	98.94496	.5225361	249.5468	1.008122	.2024970
#3	.5159885	99.88097	.5292103	252.0504	1.011113	.2030649

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177051	.5037635	1.033623	-.150965	F -.061069	F .0018892
Stddev	.0053358	.0010031	.000931	.133019	.003003	.0004365
%RSD	30.13709	.1991221	.0900879	88.11227	4.917684	23.10603
#1	.0115534	.5042413	1.033459	-.024211	-.064195	.0014557
#2	.0210776	.5026108	1.034625	-.289469	-.060808	.0023287
#3	.0204845	.5044383	1.032784	-.139215	-.058206	.0018833

Sample Name: ICSAB01 Acquired: 11/9/2023 11:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.007871	F -.002611	F -.016336	F .0087594	F .0345684	F -.003729
Stddev	.000362	.000719	.012253	.0048757	.0041675	.003362
%RSD	4.598933	27.53258	75.00344	55.66313	12.05589	90.17781
#1	-.007907	-.002623	-.029208	.0140622	.0330408	-.005170
#2	-.008214	-.003324	-.014984	.0044699	.0313802	-.006131
#3	-.007493	-.001886	-.004815	.0077462	.0392842	.000114

Elem	Sr4077
Units	ppm
Avg	F .0066380
Stddev	.0002398
%RSD	3.612205
#1	.0063628
#2	.0067497
#3	.0068016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.726	33731.66	5553.926	1721.079	2047.823
Stddev	4.130	44.31	8.071	4.215	1.515
%RSD	.2311712	.1313651	.1453223	.2448967	.0739955
#1	1783.788	33772.17	5561.433	1718.045	2049.567
#2	1784.941	33684.33	5545.390	1719.300	2046.827
#3	1791.449	33738.47	5554.956	1725.891	2047.075

Sample Name: CCV01 Acquired: 11/9/2023 11:40:13 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**4.835162**	**5.134195**	**4.936437**	**4.808597**	**4.793191**	**9.801626**	**9.849358**
Stddev	.009750	.029203	.009359	.013675	.001608	.058233	.037691
%RSD	.2016486	.5687967	.1895894	.2843844	.0335564	.5941195	.3826708
#1	4.844840	5.163800	4.927942	4.821396	4.791556	9.737493	9.806413
#2	4.835304	5.105411	4.934899	4.794189	4.793245	9.816189	9.864712
#3	4.825341	5.133375	4.946469	4.810205	4.794771	9.851196	9.876947

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2435429**	**2.456846**	**24.52504**	**.9726663**	**2.408911**	**1.212644**	**4.689714**
Stddev	.0010985	.003775	.09509	.0019276	.004030	.001869	.011422
%RSD	.4510680	.1536453	.3877300	.1981800	.1673150	.1541158	.2435550
#1	.2438267	2.453366	24.42368	.9744475	2.404520	1.210489	4.678485
#2	.2444717	2.456314	24.53916	.9729317	2.409773	1.213829	4.689337
#3	.2423303	2.460859	24.61228	.9706197	2.412441	1.213613	4.701320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.471470**	**24.45995**	**2.405682**	**1.190379**	**23.52871**	**2.445641**	**2.408914**
Stddev	.010823	.07617	.004586	.001352	.17750	.016333	.007789
%RSD	.4379148	.3113941	.1906145	.1135595	.7543875	.6678238	.3233273
#1	2.462944	24.37294	2.401798	1.190927	23.41062	2.426844	2.417252
#2	2.467821	24.49231	2.404508	1.191370	23.44267	2.453706	2.407663
#3	2.483646	24.51459	2.410741	1.188839	23.73283	2.456371	2.401826

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.61831**	**4.928313**	**5.004206**	**4.835604**	**4.951314**	**4.684905**	**4.634752**
Stddev	.12712	.034265	.008209	.008387	.018827	.075189	.013314
%RSD	.5382163	.6952611	.1640322	.1734492	.3802485	1.604916	.2872584
#1	23.47852	4.947630	4.999939	4.834301	4.932262	4.612112	4.620181
#2	23.64947	4.948557	4.999010	4.827944	4.951774	4.680324	4.637792
#3	23.72696	4.888751	5.013669	4.844567	4.969908	4.762280	4.646282

Sample Name: CCV01 Acquired: 11/9/2023 11:40:13 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.648075**	**4.959876**	**5.020944**
Stddev	.010045	.017186	.062728
%RSD	.2161013	.3465013	1.249321
#1	4.659673	4.940034	4.948547
#2	4.642168	4.970051	5.055222
#3	4.642384	4.969544	5.059064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1961.533**	**37418.82**	**5654.997**	**1868.233**	**2349.582**
Stddev	1.651	80.14	20.317	4.094	2.614
%RSD	.0841727	.2141575	.3592707	.2191303	.1112639
#1	1961.358	37430.73	5649.069	1863.559	2350.199
#2	1963.265	37492.34	5638.304	1871.184	2351.833
#3	1959.977	37333.40	5677.619	1869.957	2346.715

Sample Name: LLCCV01 Acquired: 11/9/2023 11:44:03 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194314	.0362415	.0119703	.0183080	.0481194	.0834161	.0908374
Stddev	.0008165	.0036672	.0003823	.0024545	.0022342	.0053636	.0014051
%RSD	4.202026	10.11890	3.193614	13.40682	4.643062	6.429976	1.546791
#1	.0191780	.0391929	.0118193	.0195711	.0506507	.0799513	.0892185
#2	.0203445	.0321360	.0124050	.0198737	.0472853	.0895943	.0917385
#3	.0187716	.0373954	.0116865	.0154791	.0464223	.0807028	.0915554

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059446	.0062476	1.993256	.0094132	.0283312	.0212642	.0986665
Stddev	.0000850	.0000550	.015597	.0003453	.0001543	.0004625	.0083159
%RSD	1.430672	.8808948	.7824988	3.668266	.5446191	2.175160	8.428281
#1	.0060077	.0063017	1.979957	.0093547	.0284661	.0214545	.0978604
#2	.0058479	.0062495	2.010423	.0097840	.0283645	.0207369	.0907829
#3	.0059783	.0061917	1.989387	.0091008	.0281630	.0216012	.1073560

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198206	2.096877	.0375629	.0093397	1.853752	.0389468	.0386113
Stddev	.0002246	.016087	.0003472	.0007122	.022498	.0014464	.0003203
%RSD	1.133166	.7671878	.9243189	7.626039	1.213627	3.713911	.8295829
#1	.0199961	2.097332	.0375072	.0098832	1.828402	.0377530	.0384736
#2	.0198981	2.080567	.0372468	.0085334	1.861507	.0385322	.0383829
#3	.0195675	2.112731	.0379345	.0096024	1.871346	.0405553	.0389774

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.865138	.1074808	.2144578	.0365122	.0396418	.3731270	.0180171
Stddev	.049325	.0010505	.0008749	.0006896	.0020378	.0140162	.0029659
%RSD	2.644592	.9773778	.4079716	1.888611	5.140601	3.756422	16.46167
#1	1.816669	.1080155	.2154210	.0371304	.0396698	.3612551	.0210019
#2	1.915278	.1081564	.2142402	.0357685	.0375901	.3885891	.0179791
#3	1.863467	.1062706	.2137122	.0366378	.0416655	.3695367	.0150705

Sample Name: LLCCV01 Acquired: 11/9/2023 11:44:03 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLCCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0158507	.0211706	.0212689
Stddev	.0021045	.0028537	.0002031
%RSD	13.27677	13.47951	.9549112
#1	.0153775	.0228842	.0210472
#2	.0140232	.0178763	.0213133
#3	.0181515	.0227511	.0214461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2001.807	38625.26	5700.451	1940.553	2500.607
Stddev	6.073	108.18	29.708	1.754	7.580
%RSD	.3033769	.2800792	.5211462	.0903609	.3031347
#1	1994.797	38541.23	5668.061	1938.972	2491.878
#2	2005.463	38747.32	5706.860	1940.248	2505.535
#3	2005.162	38587.23	5726.430	1942.439	2504.407

Sample Name: CCB01 Acquired: 11/9/2023 11:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000596**	**-.001387**	**.0014516**	**-.002256**	**.0005542**	**-.001308**	**-.001163**
Stddev	.003117	.001134	.0018695	.005332	.0011743	.008982	.000373
%RSD	523.3978	81.76589	128.7909	236.4130	211.8709	686.9307	32.06865
#1	.000334	-.001876	.0024219	-.005254	.0014834	-.011273	-.001105
#2	.001951	-.002195	-.000704	-.005413	.0009449	.006163	-.000822
#3	-.004072	-.000090	.002636	.003901	-.000766	.001188	-.001561

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000013**	**.0001042**	**-.013845**	**-.000486**	**.0003092**	**-.000325**	**.0006296**
Stddev	.000074	.0000679	.011722	.000312	.0006301	.000407	.0068651
%RSD	583.0888	65.22858	84.66300	64.18705	203.7750	125.0868	1090.474
#1	-.000021	.0001634	-.027379	-.000844	-.000024	.000062	-.007160
#2	-.000082	.0000300	-.006877	-.000336	-.000085	-.000750	.005800
#3	.000066	.0001190	-.007281	-.000277	.001036	-.000288	.003248

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000652**	**.0059686**	**-.000017**	**-.000324**	**-.017485**	**.0006389**	**-.000324**
Stddev	.000498	.0098441	.000544	.000386	.002734	.0018879	.000408
%RSD	76.44599	164.9317	3260.248	119.3925	15.63889	295.4878	126.0242
#1	-.000089	-.004906	.000596	-.000455	-.016902	.0019897	.000144
#2	-.001036	.008540	-.000443	-.000627	-.020464	-.001518	-.000604
#3	-.000829	.014272	-.000203	.000111	-.015090	.001445	-.000512

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004456**	**.0032867**	**.0008863**	**-.000691**	**.0011164**	**.0069755**	**-.001258**
Stddev	.0243100	.0006205	.0003615	.001250	.0016522	.0041731	.004353
%RSD	5455.481	18.87957	40.79181	180.7699	147.9903	59.82472	346.1375
#1	-.022060	.0025738	.0006257	-.001581	-.000790	.0092940	-.005090
#2	-.002830	.0037057	.0007341	.000738	.002129	.0021580	-.002159
#3	.026227	.0035806	.0012990	-.001231	.002011	.0094745	.003476

Sample Name: CCB01 Acquired: 11/9/2023 11:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0026385	.0006838	-.000026
Stddev	.0028732	.0031547	.000036
%RSD	108.8953	461.3290	136.5965
#1	.0055772	-.002686	-.000049
#2	-.000165	.003566	.000015
#3	.002503	.001172	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.514	37892.92	5747.666	1920.258	2424.927
Stddev	2.113	174.51	16.551	9.847	.535
%RSD	.1080555	.4605433	.2879550	.5128026	.0220820
#1	1953.703	37762.55	5734.047	1912.636	2424.655
#2	1957.835	37825.03	5766.086	1916.762	2424.581
#3	1955.004	38091.17	5742.863	1931.376	2425.543

Sample Name: PB156965BL Acquired: 11/9/2023 11:52:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.002555**	**.0009931**	**.0008729**	**-.003199**	**-.000032**	**-.004734**	**-.000833**
Stddev	.003577	.0043591	.0009482	.005110	.002203	.009133	.004328
%RSD	139.9987	438.9232	108.6315	159.7008	6974.072	192.9214	519.6809
#1	-.006685	-.003911	.0006194	.002694	.002512	-.012754	-.000526
#2	-.000580	.002465	.0000772	-.005910	-.001268	.005207	.003334
#3	-.000401	.004426	.0019220	-.006382	-.001339	-.006657	-.005306

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000171**	**.0000327**	**-.018424**	**-.000147**	**.0003023**	**-.000431**	**.0052735**
Stddev	.0000390	.0001257	.012572	.000216	.0000329	.000290	.0102566
%RSD	228.6443	384.0997	68.23834	146.4826	10.88182	67.43903	194.4940
#1	.0000571	.0001753	-.027946	-.000394	.0003072	-.000272	.0151666
#2	-.000021	-.000062	-.023153	-.000054	.0003324	-.000766	.0059652
#3	.000015	-.000015	-.004173	.000006	.0002672	-.000254	-.005311

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000321**	**-.017019**	**.0006467**	**-.000391**	**-.020988**	**.0006534**	**-.000068**
Stddev	.000465	.026221	.0005227	.000336	.006291	.0023556	.000298
%RSD	144.7630	154.0696	80.81799	85.89260	29.97671	360.5405	438.2243
#1	.000145	.000027	.0009308	-.000465	-.014294	-.001773	-.000164
#2	-.000784	-.047212	.0000435	-.000024	-.021889	.000801	.000266
#3	-.000324	-.003871	.0009658	-.000683	-.026780	.002932	-.000307

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007512**	**.0028103**	**-.000151**	**-.000473**	**.0010045**	**-.002487**	**-.000533**
Stddev	.101269	.0009196	.000491	.000849	.0012332	.007810	.002040
%RSD	1348.105	32.72377	324.8612	179.6322	122.7636	313.9654	382.6226
#1	.108104	.0017484	-.000575	.000317	-.000126	-.002388	-.002784
#2	-.050151	.0033439	-.000265	-.000365	.000820	-.010346	-.000008
#3	-.080489	.0033386	.000386	-.001370	.002319	.005272	.001192

Sample Name: PB156965BL Acquired: 11/9/2023 11:52:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000774**	**-.001571**	**-.000098**
Stddev	.006914	.004241	.000089
%RSD	893.4051	269.9174	90.53019
#1	-.006587	-.005364	-.000198
#2	-.002606	.003008	-.000030
#3	.006872	-.002357	-.000066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1941.567**	**36940.82**	**5665.907**	**1887.953**	**2400.304**
Stddev	.756	138.21	23.195	1.830	2.036
%RSD	.0389125	.3741410	.4093866	.0969215	.0848416
#1	1940.703	36929.72	5661.211	1887.653	2402.032
#2	1942.102	37084.24	5645.419	1889.914	2400.823
#3	1941.897	36808.49	5691.091	1886.291	2398.059

Sample Name: PB156965BS Acquired: 11/9/2023 11:56:09 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.7912160	1.959830	.9703618	1.916455	.7638317	1.929930
Stddev	.0039544	.038160	.0023403	.003241	.0047466	.018934
%RSD	.4997885	1.947128	.2411815	.1691058	.6214145	.9810779
#1	.7866687	1.982546	.9715416	1.915002	.7588278	1.908193
#2	.7938485	1.981170	.9676664	1.914196	.7643971	1.938762
#3	.7931310	1.915773	.9718774	1.920168	.7682703	1.942834

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1826693	.1947608	.1938091	1.000213	.3864179	.1904612
Stddev	.0019950	.0004255	.0005648	.007098	.0002044	.0003029
%RSD	1.092156	.2184609	.2914077	.7096233	.0529046	.1590367
#1	.1824333	.1944178	.1935412	1.005295	.3862295	.1904885
#2	.1808027	.1946277	.1934282	1.003241	.3866353	.1901455
#3	.1847718	.1952369	.1944580	.992103	.3863888	.1907495

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2962966	2.791389	.1990235	1.933512	.4787830	.0721062
Stddev	.0008980	.014628	.0011928	.013168	.0016743	.0005832
%RSD	.3030788	.5240378	.5993265	.6810162	.3496926	.8088260
#1	.2961314	2.780285	.1978480	1.931900	.4771178	.0717002
#2	.2954927	2.785919	.1989897	1.921225	.4787651	.0727745
#3	.2972658	2.807964	.2002329	1.947412	.4804662	.0718440

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.801054	.2904847	.1952227	9.387500	.2926790	.3942787
Stddev	.010497	.0017425	.0007524	.045723	.0028750	.0010749
%RSD	.3747459	.5998531	.3854159	.4870653	.9822895	.2726284
#1	2.789600	.2921309	.1944734	9.372282	.2906984	.3930485
#2	2.803348	.2906634	.1959782	9.438892	.2913621	.3947513
#3	2.810214	.2886597	.1952165	9.351326	.2959765	.3950364

Sample Name: PB156965BS Acquired: 11/9/2023 11:56:09 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6688747**	**.1957060**	**.8236261**	**5.380576**	F **-.005034**	**.2003470**
Stddev	.0030984	.0023376	.0074253	.027516	.007889	.0040034
%RSD	.4632257	1.194465	.9015416	.5113891	156.7353	1.998221
#1	.6655698	.1938952	.8161113	5.360433	-.008234	.1972782
#2	.6693404	.1983450	.8238083	5.369369	.003953	.1988874
#3	.6717139	.1948778	.8309586	5.411927	-.010820	.2048754

Elem	Sr4077
Units	ppm
Avg	**.2009471**
Stddev	.0015593
%RSD	.7759639
#1	.1994520
#2	.2008260
#3	.2025635

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1963.389**	**37831.33**	**5700.925**	**1915.552**	**2419.772**
Stddev	4.694	77.30	4.538	1.536	3.295
%RSD	.2390695	.2043177	.0795958	.0801820	.1361621
#1	1962.829	37805.52	5701.836	1917.294	2419.042
#2	1968.338	37770.25	5696.001	1914.394	2423.370
#3	1959.001	37918.23	5704.938	1914.967	2416.903

Sample Name: O5252-01 Acquired: 11/9/2023 12:00:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.010066	-.030449	.3720476	-.039634	.0012416	81.85462
Stddev	.002738	.011715	.0032971	.002919	.0001797	.33594
%RSD	27.19637	38.47487	.8861892	7.364738	14.47285	.4104073
#1	-.011274	-.043308	.3694488	-.042972	.0010408	81.53387
#2	-.006932	-.027657	.3709375	-.038376	.0012969	81.82605
#3	-.011992	-.020382	.3757564	-.037556	.0013872	82.20392

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4134910	.0057381	.0166950	366.2314	.2568933	.1189592
Stddev	.0007720	.0001600	.0001412	1.3671	.0006131	.0001604
%RSD	.1867064	2.787836	.8456441	.3732756	.2386601	.1348687
#1	.4127015	.0057967	.0167650	364.8476	.2573936	.1189741
#2	.4135272	.0055571	.0167875	366.2655	.2562094	.1191117
#3	.4142443	.0058605	.0165325	367.5811	.2570769	.1187919

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8790185	346.9749	2.952453	129.1752	.3149798	-.012267
Stddev	.0012232	2.3500	.015009	.4333	.0007203	.000414
%RSD	.1391561	.6772827	.5083620	.3354134	.2286945	3.376750
#1	.8797111	344.2807	2.941459	128.7911	.3142483	-.012593
#2	.8776061	348.0413	2.946348	129.0896	.3150025	-.012408
#3	.8797381	348.6026	2.969553	129.6449	.3156885	-.011801

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.289128	.4277815	1.325904	11.56148	.5650715	.0293839
Stddev	.029784	.0035165	.002719	.06282	.0108283	.0002100
%RSD	.6943993	.8220264	.2050914	.5433416	1.916276	.7147552
#1	4.254936	.4294450	1.323761	11.51976	.5528073	.0291420
#2	4.309426	.4301576	1.324989	11.53094	.5690953	.0295192
#3	4.303022	.4237419	1.328963	11.63373	.5733119	.0294907

Sample Name: O5252-01 Acquired: 11/9/2023 12:00:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0340285	4.685665	4.228696	F 13.43899	8.714295	.0898977
Stddev	.0006733	.021611	.016701	.02263	.034433	.0016384
%RSD	1.978567	.4612090	.3949383	.1683971	.3951298	1.822564
#1	.0336852	4.662573	4.215614	13.42099	8.746237	.0886735
#2	.0335962	4.689020	4.222966	13.46440	8.718829	.0917590
#3	.0348043	4.705402	4.247508	13.43158	8.677820	.0892606

Elem	Sr4077
Units	ppm
Avg	.0830662
Stddev	.0009705
%RSD	1.168367
#1	.0838230
#2	.0819720
#3	.0834035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2305.642	43585.20	7059.134	2238.970	2059.243
Stddev	6.075	35.18	31.527	9.398	5.586
%RSD	.2634862	.0807107	.4466179	.4197572	.2712759
#1	2310.629	43592.58	7025.444	2248.962	2065.529
#2	2307.420	43546.92	7087.925	2230.307	2057.353
#3	2298.876	43616.10	7064.033	2237.639	2054.847

Sample Name: O5253-01 Acquired: 11/9/2023 12:03:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.012525**	**-.036238**	**.2745237**	**-.019999**	**-.005913**	**120.3365**
Stddev	.002250	.003856	.0061354	.004207	.004142	.7070
%RSD	17.96417	10.64119	2.234926	21.03455	70.05220	.5875096
#1	-.010007	-.035062	.2721693	-.016345	-.001200	119.6506
#2	-.014339	-.040545	.2814876	-.019055	-.007562	120.2959
#3	-.013229	-.033107	.2699142	-.024598	-.008976	121.0628

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.177459**	**.0056962**	**.0094148**	**44.10783**	**.3088198**	**.1975569**
Stddev	.009500	.0000775	.0007853	.27409	.0014598	.0053206
%RSD	.8068598	1.359897	8.341299	.6214185	.4727048	2.693216
#1	1.167115	.0056948	.0093379	43.87919	.3077791	.1942575
#2	1.179467	.0056194	.0102358	44.03262	.3104885	.2036949
#3	1.185794	.0057743	.0086708	44.41168	.3081919	.1947183

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5727645**	**249.3381**	**4.474551**	**49.08998**	**.3739160**	**-.009521**
Stddev	.0136863	2.8017	.020846	.20939	.0084796	.000555
%RSD	2.389511	1.123666	.4658788	.4265478	2.267773	5.834149
#1	.5660760	246.2401	4.462835	48.84822	.3687407	-.010116
#2	.5885088	250.0801	4.462199	49.20736	.3837019	-.009429
#3	.5637086	251.6942	4.498619	49.21434	.3693053	-.009017

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.972801**	**.3963939**	**.7893979**	**46.21127**	**-.137983**	**.0080460**
Stddev	.024224	.0012395	.0022478	.45982	.016817	.0002661
%RSD	.4871208	.3126816	.2847537	.9950474	12.18740	3.306843
#1	4.950982	.3975803	.7868138	45.72329	-.156312	.0079821
#2	4.968553	.3951075	.7904791	46.27401	-.134372	.0083382
#3	4.998867	.3964938	.7909009	46.63650	-.123266	.0078177

Sample Name: O5253-01 Acquired: 11/9/2023 12:03:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016925	F 10.96718	3.429592	9.043016	1.560814	.1425229
Stddev	.001825	.07837	.029262	.206664	.027361	.0003335
%RSD	10.78101	.7145530	.8532153	2.285344	1.753023	.2340166
#1	-.014962	10.88282	3.396206	8.900356	1.554160	.1427789
#2	-.018570	10.98103	3.441780	9.280015	1.590889	.1426440
#3	-.017242	11.03770	3.450790	8.948677	1.537394	.1421457

Elem	Sr4077
Units	ppm
Avg	-.084134
Stddev	.002243
%RSD	2.665376
#1	-.081545
#2	-.085470
#3	-.085388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2128.963	40490.74	6626.590	2093.566	2132.074
Stddev	36.912	37.96	28.650	1.298	43.060
%RSD	1.733798	.0937432	.4323466	.0619958	2.019645
#1	2153.092	40522.34	6598.877	2093.653	2161.374
#2	2086.471	40448.64	6624.800	2094.818	2082.634
#3	2147.326	40501.24	6656.093	2092.226	2152.213

Sample Name: O5253-02 Acquired: 11/9/2023 12:07:31 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.029335**	**-.051580**	**.0658739**	**-.021019**	**-.008577**	**163.3553**
Stddev	.001387	.009903	.0015146	.006861	.002000	.0540
%RSD	4.727702	19.19967	2.299194	32.64073	23.31456	.0330380
#1	-.030872	-.062088	.0665927	-.023531	-.010105	163.2930
#2	-.028178	-.050230	.0668953	-.026270	-.006314	163.3859
#3	-.028953	-.042420	.0641338	-.013256	-.009312	163.3871

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.320257**	**.0073814**	**.0154951**	**36.30223**	**.3912798**	**.1894483**
Stddev	.002656	.0001719	.0003360	.09440	.0006720	.0006748
%RSD	.2011740	2.328422	2.168694	.2600462	.1717546	.3562148
#1	1.318487	.0074047	.0158500	36.19485	.3920543	.1902204
#2	1.318972	.0075404	.0151818	36.33962	.3909340	.1889712
#3	1.323311	.0071991	.0154535	36.37220	.3908511	.1891533

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5937761**	**296.6908**	**3.802936**	**58.87746**	**.4407890**	**-.011938**
Stddev	.0026906	3.6587	.001509	.10425	.0015026	.000555
%RSD	.4531385	1.233167	.0396698	.1770543	.3408913	4.650179
#1	.5967179	292.4789	3.803627	58.99016	.4399453	-.012578
#2	.5931705	298.5124	3.801205	58.78449	.4398980	-.011580
#3	.5914399	299.0811	3.803975	58.85773	.4425239	-.011658

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.086607**	**.4908586**	**2.751737**	**59.53437**	**-.149119**	**.0009609**
Stddev	.042854	.0046396	.011033	.56609	.023474	.0006189
%RSD	.8424941	.9452007	.4009420	.9508552	15.74176	64.40949
#1	5.038789	.4895011	2.760015	58.88076	-.176061	.0004704
#2	5.099487	.4960255	2.755983	59.85409	-.138221	.0007560
#3	5.121544	.4870491	2.739211	59.86826	-.133074	.0016562

Sample Name: O5253-02 Acquired: 11/9/2023 12:07:31 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030610	F 14.02865	2.906845	F 12.04738	.7806547	.1957316
Stddev	.001943	.01848	.026075	.01516	.0078680	.0020276
%RSD	6.346183	.1317037	.8970069	.1258754	1.007874	1.035918
#1	-.031193	14.00764	2.876768	12.04505	.7883746	.1971235
#2	-.028442	14.04240	2.920681	12.03351	.7726466	.1966660
#3	-.032194	14.03590	2.923085	12.06357	.7809430	.1934052

Elem	Sr4077
Units	ppm
Avg	-.028860
Stddev	.004107
%RSD	14.22960
#1	-.024136
#2	-.030871
#3	-.031574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2264.885	42356.53	6993.533	2208.787	2147.078
Stddev	3.730	88.14	61.285	7.455	7.996
%RSD	.1647028	.2081021	.8763154	.3375230	.3724091
#1	2261.775	42455.58	6924.730	2207.583	2144.381
#2	2269.021	42286.74	7013.601	2202.008	2156.074
#3	2263.860	42327.25	7042.270	2216.772	2140.780

Sample Name: O5253-03 Acquired: 11/9/2023 12:11:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.006236**	**-.066069**	**1.518943**	**-.032739**	**-.007834**	**174.7768**
Stddev	.004799	.003543	.004225	.003043	.000612	.5370
%RSD	76.95249	5.362114	.2781563	9.294459	7.815944	.3072253
#1	-.011247	-.066365	1.519029	-.036040	-.008145	174.2321
#2	-.005782	-.062388	1.514675	-.032130	-.007129	174.7927
#3	-.001681	-.069454	1.523124	-.030047	-.008228	175.3057

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.652259**	**.0095085**	**.0170315**	**226.5059**	**.4385039**	**.2049190**
Stddev	.003738	.0001221	.0005863	.7112	.0019537	.0005364
%RSD	.2262357	1.284268	3.442320	.3139917	.4455360	.2617616
#1	1.651220	.0096449	.0176381	226.0697	.4364507	.2054771
#2	1.649151	.0094095	.0164679	226.1215	.4403400	.2044073
#3	1.656407	.0094710	.0169884	227.3266	.4387210	.2048727

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7442365**	**361.2771**	**5.215854**	**140.8708**	**.4846592**	**-.015371**
Stddev	.0021709	3.2283	.015969	.3492	.0020094	.000631
%RSD	.2916996	.8935697	.3061715	.2478754	.4146014	4.103485
#1	.7467405	357.5496	5.197883	140.6104	.4838114	-.015610
#2	.7428831	363.1107	5.221263	140.7345	.4832127	-.015847
#3	.7430858	363.1711	5.228417	141.2676	.4869536	-.014655

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.54569**	**.6369431**	**1.400408**	**67.91089**	**-.183789**	**.0141305**
Stddev	.11501	.0030397	.008080	.45522	.022442	.0004692
%RSD	.9961426	.4772371	.5769487	.6703164	12.21066	3.320172
#1	11.41317	.6334390	1.391575	67.39922	-.209301	.0145170
#2	11.60435	.6385194	1.407425	68.27098	-.167096	.0136085
#3	11.61953	.6388709	1.402223	68.06247	-.174970	.0142659

Sample Name: O5253-03 Acquired: 11/9/2023 12:11:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007245	F 16.20677	2.341744	9.181555	F 15.11510	.2190925
Stddev	.000845	.04945	.035387	.026940	.01724	.0015491
%RSD	11.66978	.3051434	1.511130	.2934120	.1140461	.7070399
#1	-.008216	16.15642	2.304998	9.196156	15.09625	.2205628
#2	-.006847	16.20859	2.375593	9.150467	15.11901	.2174751
#3	-.006671	16.25528	2.344639	9.198042	15.13005	.2192395

Elem	Sr4077
Units	ppm
Avg	.0705350
Stddev	.0017390
%RSD	2.465411
#1	.0723631
#2	.0689015
#3	.0703405

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2238.920	42133.05	7009.332	2170.170	2092.756
Stddev	3.169	99.24	34.327	12.857	5.628
%RSD	.1415518	.2355325	.4897276	.5924379	.2689318
#1	2237.589	42247.63	6975.908	2183.395	2091.033
#2	2242.537	42077.02	7044.495	2157.716	2099.045
#3	2236.633	42074.49	7007.592	2169.400	2088.191

Sample Name: O5253-04 Acquired: 11/9/2023 12:15:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.013521	-.055272	.6297584	-.034623	-.006791	141.0311
Stddev	.004952	.005829	.0025539	.001671	.001677	.2994
%RSD	36.62292	10.54647	.4055364	4.826866	24.69469	.2122898
#1	-.009855	-.048553	.6280367	-.033843	-.005839	140.6967
#2	-.019154	-.058980	.6285458	-.036542	-.008728	141.2742
#3	-.011554	-.058283	.6326927	-.033484	-.005807	141.1225

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.401560	.0066543	.0198690	497.2052	.3021793	.1728746
Stddev	.003934	.0001275	.0002505	6.7560	.0002928	.0004108
%RSD	.2807193	1.915984	1.260690	1.358788	.0968990	.2376467
#1	1.405688	.0065279	.0196124	489.5243	.3018449	.1731087
#2	1.401138	.0067829	.0198816	502.2272	.3023034	.1724002
#3	1.397853	.0066521	.0201129	499.8641	.3023896	.1731148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.122386	295.2140	4.284086	269.7619	.3341305	-.012791
Stddev	.001098	1.8606	.025877	.9132	.0005088	.000425
%RSD	.0977879	.6302448	.6040374	.3385241	.1522881	3.322496
#1	1.123270	297.2404	4.255268	268.7110	.3343817	-.012410
#2	1.121158	293.5827	4.291655	270.2113	.3344649	-.012714
#3	1.122730	294.8189	4.305335	270.3632	.3335449	-.013250

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.491492	.5347370	1.810901	61.64284	.0094393	.0114600
Stddev	.023651	.0024612	.006868	.57148	.0125405	.0004494
%RSD	.4306914	.4602680	.3792462	.9270831	132.8544	3.921264
#1	5.518382	.5338079	1.808034	62.27370	.0235624	.0110929
#2	5.473915	.5375276	1.818738	61.15977	-.000391	.0119612
#3	5.482179	.5328756	1.805932	61.49506	.005147	.0113259

Sample Name: O5253-04 Acquired: 11/9/2023 12:15:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023939	F 13.86891	6.576705	F 10.87187	9.148104	.1846447
Stddev	.002893	.02798	.033261	.03201	.004024	.0015588
%RSD	12.08616	.2017695	.5057447	.2944417	.0439879	.8442236
#1	-.022332	13.84991	6.613280	10.85006	9.144263	.1830790
#2	-.027279	13.90104	6.548269	10.90862	9.147760	.1846587
#3	-.022206	13.85577	6.568565	10.85692	9.152289	.1861965

Elem	Sr4077
Units	ppm
Avg	.2608395
Stddev	.0046438
%RSD	1.780323
#1	.2554780
#2	.2634464
#3	.2635941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2084.854	39339.15	6663.292	2012.770	1978.757
Stddev	5.707	182.16	35.310	1.667	3.712
%RSD	.2737600	.4630546	.5299225	.0828394	.1875779
#1	2084.795	39282.36	6702.921	2011.779	1979.057
#2	2090.591	39542.94	6651.780	2011.835	1982.309
#3	2079.177	39192.15	6635.174	2014.695	1974.904

Sample Name: O5266-01 Acquired: 11/9/2023 12:18:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0051167	-.008665	.1601443	-.008301	-.008234	74.57490
Stddev	.0020232	.003523	.0011835	.000877	.000418	.11665
%RSD	39.54007	40.65854	.7390307	10.57001	5.070631	.1564259
#1	.0043112	-.004634	.1590687	-.008399	-.008314	74.48781
#2	.0036204	-.011154	.1614122	-.009125	-.007782	74.52946
#3	.0074186	-.010208	.1599522	-.007379	-.008605	74.70744

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8532028	.0211795	.0220650	31.43981	.2295343	.9186573
Stddev	.0020479	.0001675	.0000766	.02023	.0002143	.0003481
%RSD	.2400207	.7907024	.3472385	.0643514	.0933528	.0378938
#1	.8523449	.0212644	.0220711	31.42522	.2295435	.9188761
#2	.8517234	.0209866	.0219856	31.43131	.2293155	.9188399
#3	.8555401	.0212875	.0221384	31.46291	.2297438	.9182559

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0402050	65.89155	3.153978	68.27559	.4119352	-.004251
Stddev	.0002959	.24590	.009116	.13118	.0013234	.000228
%RSD	.7360185	.3731914	.2890420	.1921262	.3212652	5.367165
#1	.0405466	65.60775	3.144781	68.17243	.4127475	-.004137
#2	.0400291	66.04119	3.154142	68.23113	.4104081	-.004103
#3	.0400391	66.02572	3.163011	68.42322	.4126500	-.004514

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9890221	.2829924	.3519559	12.01834	-.056526	.0012228
Stddev	.0040398	.0012435	.0001540	.08679	.001944	.0002399
%RSD	.4084671	.4394218	.0437681	.7221439	3.439987	19.62157
#1	.9855381	.2826291	.3519265	11.94475	-.058764	.0009809
#2	.9934505	.2843771	.3518187	12.11405	-.055247	.0012268
#3	.9880777	.2819709	.3521225	11.99621	-.055567	.0014607

Sample Name: O5266-01 Acquired: 11/9/2023 12:18:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036168	.1825358	.8957497	F 24.88006	F 11.57947	.0291284
Stddev	.0014317	.0011934	.0086722	.03405	.05531	.0016235
%RSD	39.58351	.6537687	.9681544	.1368743	.4776747	5.573600
#1	.0025622	.1838781	.8891590	24.84108	11.52036	.0298252
#2	.0030416	.1821342	.9055742	24.90401	11.62997	.0302871
#3	.0052466	.1815949	.8925158	24.89510	11.58809	.0272728

Elem	Sr4077
Units	ppm
Avg	.1538664
Stddev	.0003912
%RSD	.2542501
#1	.1536853
#2	.1535986
#3	.1543154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6237.417	119529.3	18536.53	6047.372	2233.581
Stddev	3.767	333.9	27.19	17.807	2.267
%RSD	.0603890	.2793641	.1467039	.2944620	.1014846
#1	6241.705	119829.6	18508.58	6067.503	2236.197
#2	6235.907	119169.7	18562.90	6033.678	2232.345
#3	6234.640	119588.6	18538.12	6040.935	2232.201

Sample Name: O5267-01 Acquired: 11/9/2023 12:22:39 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0326163	-.001475	.2437217	-.030625	.0013868	248.8634
Stddev	.0044401	.012907	.0007947	.008870	.0051748	.5363
%RSD	13.61314	875.3197	.3260740	28.96183	373.1523	.2154923
#1	.0308988	.006469	.2446138	-.025565	-.002239	248.2531
#2	.0376586	.005475	.2434617	-.040866	-.000913	249.2596
#3	.0292915	-.016367	.2430895	-.025443	.007313	249.0774

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.561723	.0231515	.0131699	1428.935	.3159441	.0956441
Stddev	.002908	.0001494	.0001129	6.312	.0007506	.0003939
%RSD	.1135243	.6453246	.8573239	.4417167	.2375571	.4118681
#1	2.562372	.0230015	.0130485	1421.866	.3157650	.0955165
#2	2.564252	.0231525	.0132717	1434.005	.3152994	.0953297
#3	2.558545	.0233003	.0131894	1430.936	.3167680	.0960860

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2758464	147.2246	10.89596	217.3844	.3981956	-.006782
Stddev	.0006476	.2667	.04921	.4564	.0005534	.000387
%RSD	.2347821	.1811685	.4516470	.2099461	.1389681	5.702440
#1	.2757440	147.5298	10.84970	216.8742	.3986139	-.007218
#2	.2752560	147.1079	10.89053	217.5250	.3984047	-.006478
#3	.2765391	147.0361	10.94767	217.7539	.3975681	-.006651

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.984255	.2044113	4.560316	21.43068	.1736530	.0208207
Stddev	.010348	.0033491	.002497	.04255	.0022045	.0011195
%RSD	.1296023	1.638407	.0547497	.1985499	1.269468	5.376669
#1	7.993940	.2008299	4.562914	21.46753	.1748058	.0213649
#2	7.973352	.2074656	4.557935	21.44038	.1750421	.0195332
#3	7.985472	.2049383	4.560099	21.38411	.1711112	.0215641

Sample Name: O5267-01 Acquired: 11/9/2023 12:22:39 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018491	6.266824	2.180630	6.243697	F 58.99442	.3748691
Stddev	.002612	.010794	.005566	.014284	.38871	.0024031
%RSD	14.12729	.1722352	.2552285	.2287710	.6588991	.6410494
#1	-.021101	6.254457	2.185001	6.260180	59.30293	.3776246
#2	-.018497	6.274349	2.182524	6.234951	58.55783	.3732081
#3	-.015876	6.271665	2.174364	6.235961	59.12250	.3737747

Elem	Sr4077
Units	ppm
Avg	5.341981
Stddev	.023193
%RSD	.4341645
#1	5.349980
#2	5.360115
#3	5.315847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2228.809	41662.57	7413.875	2157.942	1818.084
Stddev	2.037	161.64	5.585	5.464	2.300
%RSD	.0914155	.3879720	.0753265	.2532202	.1265183
#1	2231.057	41476.56	7407.974	2151.646	1817.863
#2	2228.284	41768.88	7414.573	2161.449	1820.486
#3	2227.085	41742.28	7419.078	2160.730	1815.902

Sample Name: O5270-01 Acquired: 11/9/2023 12:26:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0053877	-.009615	.4691183	-.020176	.1034531	123.2921
Stddev	.0094539	.008124	.0027771	.003627	.0033594	.7731
%RSD	175.4712	84.48863	.5919805	17.97700	3.247265	.6270403
#1	.0126754	-.000515	.4664204	-.023604	.1005964	122.4277
#2	-.005295	-.012194	.4719683	-.016378	.1071541	123.9173
#3	.008783	-.016137	.4689662	-.020546	.1026087	123.5313

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5886730	.0070125	.0098042	63.79171	.2663848	.2008160
Stddev	.0007910	.0001690	.0001363	.30453	.0013536	.0004911
%RSD	.1343792	2.409545	1.389995	.4773830	.5081405	.2445274
#1	.5887089	.0068438	.0097144	63.46698	.2655111	.2002685
#2	.5894455	.0071817	.0097372	64.07091	.2679440	.2009619
#3	.5878646	.0070119	.0099610	63.83724	.2656993	.2012176

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7965933	262.1815	3.242527	72.78789	.3120900	-.009003
Stddev	.0008399	1.4053	.028938	.40557	.0004865	.000455
%RSD	.1054311	.5360158	.8924554	.5571975	.1559013	5.054622
#1	.7956290	261.1397	3.210286	72.32916	.3122261	-.009496
#2	.7969867	261.6250	3.251045	72.93564	.3124941	-.008913
#3	.7971643	263.7799	3.266250	73.09888	.3115500	-.008600

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.080062	.3943650	1.968941	30.01541	-.140468	.0344169
Stddev	.029929	.0028510	.005869	.08984	.012783	.0008715
%RSD	.4227172	.7229234	.2980706	.2993172	9.100441	2.532312
#1	7.051222	.3917286	1.965092	29.93564	-.144848	.0334226
#2	7.077993	.3973905	1.966036	29.99786	-.150485	.0347795
#3	7.110972	.3939759	1.975696	30.11274	-.126070	.0350486

Sample Name: O5270-01 Acquired: 11/9/2023 12:26:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253860	6.355718	2.617224	9.043915	F 15.56122	.1859889
Stddev	.0006487	.028132	.018578	.019587	.08425	.0030321
%RSD	2.555379	.4426175	.7098399	.2165807	.5414086	1.630252
#1	.0250133	6.325372	2.623662	9.023942	15.49486	.1863401
#2	.0250097	6.380928	2.596283	9.063093	15.53280	.1888301
#3	.0261351	6.360854	2.631727	9.044710	15.65601	.1827965

Elem	Sr4077
Units	ppm
Avg	-.101532
Stddev	.000858
%RSD	.8450796
#1	-.101810
#2	-.100569
#3	-.102216

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2399.755	45013.67	7180.760	2315.727	2278.550
Stddev	4.567	208.88	29.828	16.786	1.889
%RSD	.1903273	.4640318	.4153826	.7248877	.0829214
#1	2402.713	45184.08	7211.224	2328.281	2280.438
#2	2394.495	45076.27	7151.613	2322.241	2276.659
#3	2402.057	44780.65	7179.442	2296.660	2278.553

Sample Name: CCV02 Acquired: 11/9/2023 12:30:28 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**5.071289**	**4.571889**	**5.051537**	**5.094792**	**4.961483**	**9.754836**	**9.742038**
Stddev	.013724	.085095	.017935	.013384	.008314	.005940	.027974
%RSD	.2706135	1.861275	.3550311	.2626977	.1675745	.0608966	.2871456
#1	5.084837	4.514663	5.066186	5.093025	4.961239	9.748566	9.711183
#2	5.071634	4.669676	5.031535	5.082379	4.953293	9.760380	9.765741
#3	5.057396	4.531327	5.056889	5.108972	4.969916	9.755562	9.749191

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2453734**	**2.522339**	**24.40075**	**.9806720**	**2.460462**	**1.241845**	**4.818983**
Stddev	.0019345	.005368	.01662	.0011044	.006330	.001726	.045852
%RSD	.7884024	.2128027	.0681066	.1126119	.2572843	.1389795	.9514801
#1	.2475998	2.523797	24.40125	.9814448	2.463289	1.242290	4.767326
#2	.2444181	2.516393	24.41712	.9794071	2.453211	1.239940	4.834758
#3	.2441024	2.526827	24.38389	.9811641	2.464887	1.243305	4.854864

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.478211**	**24.25811**	**2.468191**	**1.220128**	**24.30274**	**2.426522**	**2.451279**
Stddev	.004398	.10848	.004314	.001457	.25450	.005433	.002716
%RSD	.1774541	.4471740	.1747902	.1193854	1.047219	.2239102	.1107821
#1	2.481459	24.15319	2.471571	1.218596	24.00903	2.420336	2.452172
#2	2.473206	24.25130	2.463332	1.221496	24.45809	2.430522	2.448230
#3	2.479967	24.36982	2.469671	1.220292	24.44110	2.428707	2.453436

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.33677**	**4.937335**	**4.930018**	**4.940071**	**4.902586**	**4.863949**	**4.970907**
Stddev	.26509	.056424	.003576	.005810	.015147	.073657	.016144
%RSD	1.089259	1.142799	.0725400	.1176186	.3089597	1.514346	.3247789
#1	24.05352	5.002304	4.930216	4.936197	4.885343	4.781043	4.973419
#2	24.37793	4.909083	4.926347	4.937265	4.913745	4.888964	4.985647
#3	24.57888	4.900617	4.933491	4.946752	4.908669	4.921841	4.953653

Sample Name: CCV02 Acquired: 11/9/2023 12:30:28 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.004272	4.901264	5.056190
Stddev	.015474	.017316	.044222
%RSD	.3092154	.3532875	.8746150
#1	4.986619	4.884177	5.091259
#2	5.015492	4.918799	5.006512
#3	5.010706	4.900816	5.070800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1870.302	36079.08	5664.998	1828.219	2202.789
Stddev	5.182	78.84	45.747	5.804	6.367
%RSD	.2770897	.2185140	.8075368	.3174721	.2890209
#1	1865.790	36133.69	5612.630	1833.065	2197.096
#2	1875.963	36114.85	5697.178	1829.806	2209.663
#3	1869.154	35988.70	5685.186	1821.787	2201.607

Sample Name: CCB02 Acquired: 11/9/2023 12:34:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.002389**	**-.000334**	**.0011670**	**-.001338**	**.0002219**	**-.005616**	**.0000922**
Stddev	.003967	.004366	.0009682	.004556	.0008221	.012897	.0028235
%RSD	166.0392	1308.630	82.96180	340.4331	370.5927	229.6605	3061.621
#1	-.003712	.001991	.0017287	-.001661	.0003260	-.011708	.0021332
#2	.002070	.002379	.0000491	.003371	-.000647	-.014339	.0012735
#3	-.005525	-.005370	.0017232	-.005725	.000987	.009199	-.003130

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000283**	**.0000912**	**-.004707**	**-.000014**	**.0000551**	**-.000583**	**.0010562**
Stddev	.0000639	.0000236	.004148	.000100	.0003108	.000196	.0025169
%RSD	225.5452	25.85799	88.14080	696.4722	563.7740	33.59400	238.2935
#1	-.000017	.0001135	-.001323	-.000114	.0000480	-.000357	.0015147
#2	.000001	.0000665	-.009335	.000087	.0003694	-.000698	-.001658
#3	.000101	.0000936	-.003462	-.000017	-.000252	-.000693	.003312

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000347**	**-.013583**	**.0000674**	**-.000186**	**.0057901**	**.0016653**	**.0000014**
Stddev	.000491	.026855	.0002524	.000233	.0058381	.0018474	.0001042
%RSD	141.5737	197.7150	374.3305	125.6257	100.8281	110.9306	7719.386
#1	.000071	.014699	-.000050	.000083	.0079375	.0002409	-.000055
#2	-.000224	-.038737	-.000104	-.000309	-.000818	.0010024	.000122
#3	-.000889	-.016709	.000357	-.000332	.010250	.0037527	-.000063

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.087879**	**.0060060**	**.0022587**	**-.000579**	**.0007987**	**.0024237**	**-.001733**
Stddev	.064282	.0006507	.0004300	.000400	.0006601	.0022555	.002056
%RSD	73.14804	10.83423	19.03525	69.11759	82.64798	93.05900	118.6235
#1	-.134648	.0062692	.0027549	-.000243	.0000627	.0004876	.000616
#2	-.014578	.0064839	.0020240	-.001022	.0009949	.0049003	-.003201
#3	-.114412	.0052649	.0019972	-.000473	.0013386	.0018832	-.002614

Sample Name: CCB02 Acquired: 11/9/2023 12:34:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000292	.0002534	.0000574
Stddev	.005265	.0012365	.0000715
%RSD	1804.555	487.9632	124.6675
#1	.002286	.0015110	.0000906
#2	.003187	.0002100	.0001063
#3	-.006348	-.000961	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.482	35370.36	5725.311	1839.098	2275.654
Stddev	4.143	33.72	47.488	9.149	1.326
%RSD	.2209087	.0953377	.8294352	.4974908	.0582907
#1	1871.439	35331.56	5676.048	1831.088	2274.703
#2	1879.718	35392.62	5729.086	1849.069	2277.170
#3	1875.289	35386.90	5770.798	1837.138	2275.090

Sample Name: O5270-01DUP Acquired: 11/9/2023 12:38:18 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0059593	-.016790	.4768271	-.020024	.1038603	125.3417
Stddev	.0012155	.004986	.0021058	.005032	.0020849	.4889
%RSD	20.39710	29.69540	.4416332	25.13036	2.007408	.3900752
#1	.0047593	-.022183	.4744043	-.014700	.1014555	124.7880
#2	.0071898	-.015840	.4782168	-.024702	.1049662	125.7140
#3	.0059286	-.012348	.4778603	-.020671	.1051593	125.5230

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5982468	.0072525	.0102100	65.58996	.2677824	.2037319
Stddev	.0053395	.0000767	.0001823	.22938	.0005448	.0004570
%RSD	.8925307	1.056939	1.785082	.3497133	.2034530	.2243281
#1	.5924554	.0072731	.0101116	65.36459	.2671867	.2042539
#2	.6029743	.0073168	.0100980	65.82314	.2679052	.2034035
#3	.5993108	.0071677	.0104203	65.58216	.2682554	.2035384

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8044425	268.3666	3.293292	73.86554	.3171525	-.008814
Stddev	.0008774	.7612	.005217	.20913	.0004905	.000288
%RSD	.1090703	.2836559	.1584196	.2831181	.1546482	3.263301
#1	.8047549	267.6292	3.287925	73.68449	.3171546	-.008523
#2	.8034516	269.1496	3.293607	74.09445	.3166610	-.008821
#3	.8051208	268.3211	3.298345	73.81769	.3176419	-.009098

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.248353	.4018297	1.999455	30.73288	-.131294	.0349089
Stddev	.028565	.0022595	.002978	.14337	.001727	.0008107
%RSD	.3940887	.5622988	.1489359	.4664954	1.315485	2.322310
#1	7.252753	.4017880	1.996892	30.83162	-.129308	.0339930
#2	7.274463	.3995914	2.002722	30.79859	-.132138	.0355345
#3	7.217844	.4041097	1.998752	30.56844	-.132438	.0351990

Sample Name: O5270-01DUP Acquired: 11/9/2023 12:38:18 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0266132	6.471075	3.424337	9.450830	F 16.08063	.1870818
Stddev	.0010708	.033640	.030605	.019840	.06093	.0018618
%RSD	4.023651	.5198441	.8937511	.2099326	.3788870	.9951804
#1	.0263350	6.433624	3.437531	9.428788	16.01111	.1891514
#2	.0277957	6.498726	3.446133	9.467260	16.10607	.1855430
#3	.0257090	6.480876	3.389349	9.456443	16.12471	.1865511

Elem	Sr4077
Units	ppm
Avg	-.105205
Stddev	.000559
%RSD	.5315756
#1	-.105083
#2	-.105816
#3	-.104717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2372.701	44883.43	7212.977	2308.686	2242.859
Stddev	1.814	70.92	6.891	3.020	2.791
%RSD	.0764345	.1580131	.0955324	.1308076	.1244289
#1	2373.460	44807.79	7220.675	2305.517	2245.741
#2	2374.011	44894.07	7207.385	2311.530	2242.668
#3	2370.631	44948.43	7210.871	2309.012	2240.169

Sample Name: O5270-01LX5 Acquired: 11/9/2023 12:42:05 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0034998**	**.0000618**	**.0936272**	**-.004929**	**.0235237**	**28.88147**	**.1388978**
Stddev	.0037886	.0070361	.0005382	.003617	.0027656	.13652	.0022120
%RSD	108.2513	11389.71	.5748094	73.38556	11.75672	.4726990	1.592537
#1	.0047080	-.007749	.0932122	-.001339	.0259442	28.72423	.1385529
#2	-.000746	.002030	.0934342	-.004875	.0205094	28.96983	.1412620
#3	.006537	.005904	.0942353	-.008573	.0241175	28.95035	.1368785

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017568**	**.0011696**	**15.40881**	**.0631621**	**.0397290**	**.1919609**	**60.89508**
Stddev	.0000590	.0001089	.08462	.0000361	.0004717	.0026930	.31930
%RSD	3.360326	9.308156	.5491815	.0572198	1.187249	1.402890	.5243368
#1	.0018054	.0010475	15.31132	.0632038	.0401299	.1927167	60.60568
#2	.0016911	.0012044	15.46327	.0631416	.0392093	.1889707	60.84196
#3	.0017739	.0012567	15.45183	.0631408	.0398478	.1941952	61.23761

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7773112**	**17.30448**	**.0624036**	**-.002395**	**1.622589**	**.0953204**	**.4646333**
Stddev	.0033274	.06912	.0010754	.000560	.002867	.0024325	.0004149
%RSD	.4280671	.3994336	1.723288	23.37388	.1766728	2.551969	.0893073
#1	.7734730	17.23048	.0635244	-.002079	1.620243	.0945512	.4642582
#2	.7793814	17.31560	.0613802	-.003042	1.625784	.0933655	.4645627
#3	.7790793	17.36737	.0623063	-.002065	1.621739	.0980446	.4650791

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.833871**	**-.036675**	**.0079085**	**.0027951**	**1.511465**	**.6876770**	**1.769765**
Stddev	.053449	.001724	.0006447	.0007300	.007476	.0180365	.019555
%RSD	.7821172	4.700969	8.151647	26.11704	.4945936	2.622816	1.104963
#1	6.816005	-.038416	.0076906	.0036184	1.503250	.6930701	1.772759
#2	6.791644	-.036641	.0086339	.0022267	1.517869	.6675591	1.748886
#3	6.893964	-.034969	.0074011	.0025403	1.513277	.7024017	1.787651

Sample Name: O5270-01LX5 Acquired: 11/9/2023 12:42:05 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.002572**	**.0394425**	**-.022700**
Stddev	.011163	.0026650	.000190
%RSD	.3717801	6.756639	.8356286
#1	3.008548	.0386968	-.022582
#2	2.989694	.0372298	-.022599
#3	3.009476	.0424009	-.022918

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2030.144**	**38540.65**	**6062.958**	**1967.851**	**2328.206**
Stddev	18.905	172.57	25.757	8.441	19.079
%RSD	.9311996	.4477707	.4248214	.4289369	.8194850
#1	2019.521	38365.05	6033.282	1958.298	2321.993
#2	2051.971	38710.03	6076.092	1974.304	2349.617
#3	2018.940	38546.88	6079.500	1970.949	2313.008

Sample Name: O5270-01MS Acquired: 11/9/2023 12:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.7050771	1.746899	1.487391	1.653536	.7462856	126.8706
Stddev	.0065102	.035715	.002777	.007767	.0054436	.6534
%RSD	.9233380	2.044486	.1866948	.4697213	.7294232	.5150003
#1	.7000345	1.788001	1.489061	1.651775	.7408668	126.1216
#2	.7124267	1.723428	1.484185	1.646800	.7462365	127.1674
#3	.7027701	1.729267	1.488926	1.662032	.7517536	127.3230

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7582918	.1674433	.2127275	68.12316	.5866827	.4053249
Stddev	.0021078	.0012628	.0007761	.25080	.0017126	.0012203
%RSD	.2779711	.7541422	.3648376	.3681558	.2919101	.3010588
#1	.7559500	.1659853	.2133731	67.83482	.5857734	.4066105
#2	.7588884	.1681573	.2118664	68.24403	.5886581	.4041826
#3	.7600370	.1681873	.2129431	68.29064	.5856165	.4051816

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.040094	278.2256	3.449640	75.74809	.8104480	.0544036
Stddev	.002552	.6256	.014927	.36396	.0016548	.0002851
%RSD	.2453293	.2248431	.4327220	.4804931	.2041817	.5240348
#1	1.037151	278.8427	3.435158	75.35630	.8121202	.0545405
#2	1.041446	277.5919	3.448785	75.81229	.8088112	.0545944
#3	1.041686	278.2421	3.464976	76.07568	.8104126	.0540759

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.861201	.6413593	2.163404	39.85445	.1371891	.3539532
Stddev	.017550	.0024153	.003299	.12906	.0079919	.0008728
%RSD	.1779720	.3765890	.1525087	.3238303	5.825496	.2465870
#1	9.872424	.6394801	2.164158	40.00347	.1463849	.3535740
#2	9.840976	.6405142	2.166261	39.78052	.1319206	.3533341
#3	9.870202	.6440836	2.159793	39.77935	.1332618	.3549514

Sample Name: O5270-01MS Acquired: 11/9/2023 12:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7412296	6.722371	6.719948	F 16.09681	F 16.55277	.3453893
Stddev	.0037724	.034994	.029865	.06467	.08699	.0028461
%RSD	.5089398	.5205620	.4444235	.4017793	.5255311	.8240123
#1	.7418390	6.684897	6.689356	16.16731	16.65302	.3424566
#2	.7371896	6.728016	6.721461	16.04023	16.49716	.3481399
#3	.7446602	6.754199	6.749028	16.08290	16.50814	.3455714

Elem	Sr4077
Units	ppm
Avg	.0517261
Stddev	.0017989
%RSD	3.477748
#1	.0496800
#2	.0524391
#3	.0530592

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2313.349	43877.83	7212.610	2269.840	2165.814
Stddev	5.580	223.65	16.133	13.623	7.407
%RSD	.2412066	.5097053	.2236726	.6001807	.3419971
#1	2316.972	43655.27	7223.352	2259.150	2160.380
#2	2316.153	43875.65	7194.059	2265.189	2174.251
#3	2306.924	44102.55	7220.418	2285.179	2162.812

Sample Name: O5270-01MSD Acquired: 11/9/2023 12:49:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.7181206	2.036320	1.511806	1.707333	.7615852	128.5300
Stddev	.0027318	.018858	.003154	.001393	.0030761	.6692
%RSD	.3804039	.9261057	.2085990	.0815850	.4039127	.5206460
#1	.7161195	2.024643	1.508165	1.708107	.7651284	127.8250
#2	.7212329	2.058076	1.513557	1.705725	.7600304	128.6085
#3	.7170095	2.026240	1.513695	1.708167	.7595969	129.1565

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7671143	.1711045	.2177636	69.40791	.5948425	.4108783
Stddev	.0067825	.0007407	.0003088	.28585	.0007326	.0001643
%RSD	.8841552	.4329073	.1417852	.4118443	.1231598	.0399833
#1	.7595193	.1712074	.2177536	69.09055	.5939973	.4109108
#2	.7725669	.1703178	.2174599	69.48801	.5952340	.4107002
#3	.7692567	.1717885	.2180772	69.64516	.5952960	.4110239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.046949	282.3742	3.486418	76.32314	.8242393	.0561123
Stddev	.001379	1.8897	.013253	.45640	.0019841	.0007746
%RSD	.1317482	.6692069	.3801414	.5979871	.2407237	1.380364
#1	1.047711	280.2617	3.477294	75.92546	.8223139	.0555717
#2	1.045357	283.9035	3.480339	76.22249	.8241268	.0569997
#3	1.047779	282.9575	3.501620	76.82146	.8262774	.0557655

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03965	.6507650	2.177420	40.41835	.1501555	.3644203
Stddev	.03570	.0030065	.003466	.19743	.0064611	.0009750
%RSD	.3555720	.4619898	.1591720	.4884757	4.302935	.2675612
#1	10.00254	.6472959	2.173730	40.19167	.1442663	.3633405
#2	10.07374	.6526140	2.177926	40.55273	.1570667	.3652364
#3	10.04268	.6523851	2.180606	40.51064	.1491336	.3646838

Sample Name: O5270-01MSD Acquired: 11/9/2023 12:49:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7618769	6.824075	8.103115	F 16.33385	F 16.94557	.3490420
Stddev	.0034863	.050512	.051697	.01692	.02849	.0025226
%RSD	.4575953	.7401969	.6379953	.1036007	.1681370	.7227234
#1	.7578544	6.767788	8.077943	16.31976	16.91314	.3479241
#2	.7637516	6.838980	8.162577	16.35262	16.96655	.3472715
#3	.7640248	6.865457	8.068824	16.32917	16.95704	.3519304

Elem	Sr4077
Units	ppm
Avg	.0543992
Stddev	.0018912
%RSD	3.476554
#1	.0558932
#2	.0522729
#3	.0550317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.140	43558.97	7191.010	2256.826	2157.887
Stddev	2.991	136.23	27.239	6.364	6.890
%RSD	.1295128	.3127436	.3787924	.2819864	.3192864
#1	2311.427	43714.69	7211.449	2263.746	2164.644
#2	2310.236	43461.84	7201.495	2251.225	2158.146
#3	2305.756	43500.39	7160.087	2255.508	2150.871

Sample Name: O5270-01A Acquired: 11/9/2023 12:53:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.6507888**	**2.001377**	**1.450454**	**1.530065**	**.7086198**	**133.2058**
Stddev	.0028344	.015376	.001753	.002728	.0028208	.3309
%RSD	.4355311	.7682917	.1208798	.1783109	.3980673	.2484394
#1	.6515910	2.019076	1.449856	1.527999	.7118467	132.8730
#2	.6476398	1.993746	1.449078	1.533158	.7073898	133.2095
#3	.6531356	1.991308	1.452428	1.529038	.7066229	133.5348

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7777397**	**.1710506**	**.2077753**	**71.44092**	**.5728478**	**.3984240**
Stddev	.0027357	.0014506	.0007219	.15420	.0011088	.0006933
%RSD	.3517565	.8480230	.3474460	.2158474	.1935621	.1740017
#1	.7745894	.1726123	.2078292	71.26299	.5733714	.3977980
#2	.7795177	.1697454	.2070280	71.53565	.5715741	.3983049
#3	.7791119	.1707942	.2084688	71.52412	.5735978	.3991691

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.008860**	**259.8633**	**3.513443**	**78.08416**	**.7906618**	**.0486500**
Stddev	.000591	1.8047	.009514	.07201	.0005748	.0004571
%RSD	.0586205	.6944902	.2707898	.0922208	.0726954	.9395986
#1	1.008203	257.8931	3.512096	78.02048	.7904420	.0487293
#2	1.009030	261.4365	3.504674	78.06968	.7902293	.0490623
#3	1.009348	260.2602	3.523558	78.16230	.7913140	.0481584

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.237214**	**.6611050**	**2.073608**	**37.25975**	**.0012194**	**.3568011**
Stddev	.042888	.0034101	.006636	.25897	.0123041	.0006509
%RSD	.4642999	.5158134	.3200349	.6950454	1009.068	.1824195
#1	9.187953	.6649272	2.080718	36.97809	-.012952	.3570391
#2	9.266256	.6583742	2.072528	37.48757	.009178	.3572995
#3	9.257432	.6600138	2.067578	37.31360	.007433	.3560647

Sample Name: O5270-01A Acquired: 11/9/2023 12:53:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7233346	7.049059	F 10.57241	F 14.97247	F 15.21651	.3634038
Stddev	.0020025	.022849	.09012	.02125	.02514	.0016883
%RSD	.2768401	.3241440	.8524290	.1418956	.1652346	.4645671
#1	.7254109	7.025192	10.47140	14.95583	15.24508	.3643683
#2	.7231775	7.051254	10.60123	14.96518	15.19774	.3643886
#3	.7214152	7.070732	10.64459	14.99640	15.20672	.3614544

Elem	Sr4077
Units	ppm
Avg	.0762139
Stddev	.0020970
%RSD	2.751498
#1	.0780413
#2	.0739244
#3	.0766759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.908	47025.03	6981.496	2380.071	2338.031
Stddev	3.342	103.59	41.221	5.908	3.266
%RSD	.1344203	.2202916	.5904279	.2482169	.1396753
#1	2489.380	46917.60	6940.360	2374.712	2341.786
#2	2482.714	47124.30	7022.801	2379.095	2336.454
#3	2485.630	47033.19	6981.327	2386.406	2335.854

Sample Name: CCV03 Acquired: 11/9/2023 12:57:04 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.055226**	**5.031359**	**5.067788**	**5.076040**	**4.986569**	**9.828729**	**9.799769**
Stddev	.088870	.064493	.094849	.087179	.075552	.040430	.052162
%RSD	1.757976	1.281821	1.871599	1.717460	1.515101	.4113421	.5322777
#1	4.999245	4.962121	5.007901	5.017479	4.939072	9.782368	9.743118
#2	5.008736	5.089725	5.018319	5.034410	4.946947	9.847162	9.810379
#3	5.157698	5.042232	5.177145	5.176229	5.073690	9.856658	9.845810

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2437521**	**2.528299**	**24.44975**	**.9812932**	**2.478132**	**1.248477**	**4.862840**
Stddev	.0005617	.046589	.11018	.0016601	.047380	.019687	.011768
%RSD	.2304354	1.842695	.4506439	.1691739	1.911923	1.576869	.2420085
#1	.2433406	2.498721	24.35087	.9812956	2.449169	1.234731	4.859564
#2	.2435238	2.504172	24.42985	.9829522	2.452418	1.239670	4.853056
#3	.2443920	2.582003	24.56852	.9796320	2.532809	1.271029	4.875899

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.469875**	**24.16844**	**2.478942**	**1.217578**	**24.34364**	**2.436684**	**2.440959**
Stddev	.004762	.15305	.047237	.000796	.09068	.011682	.007313
%RSD	.1927834	.6332654	1.905540	.0653855	.3725074	.4794310	.2995895
#1	2.465788	24.00102	2.449575	1.218490	24.25723	2.425019	2.435946
#2	2.468734	24.20313	2.453819	1.217218	24.43807	2.436650	2.449350
#3	2.475104	24.30117	2.533432	1.217025	24.33563	2.448384	2.437582

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.30164**	**4.905128**	**5.025698**	**4.971081**	**4.912528**	**4.875552**	**4.825001**
Stddev	.07128	.006399	.082569	.093071	.021533	.048937	.101561
%RSD	.2933291	.1304645	1.642941	1.872245	.4383374	1.003712	2.104896
#1	24.24220	4.903240	4.970033	4.908726	4.889450	4.819088	4.765280
#2	24.28205	4.899884	4.986495	4.926455	4.916050	4.901871	4.767456
#3	24.38067	4.912259	5.120566	5.078061	4.932083	4.905697	4.942267

Sample Name: CCV03 Acquired: 11/9/2023 12:57:04 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.968281**	**4.909385**	**5.028462**
Stddev	.079098	.029068	.041218
%RSD	1.592054	.5920832	.8196956
#1	4.909563	4.876169	4.986075
#2	4.937054	4.921820	5.030908
#3	5.058225	4.930168	5.068402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1897.604**	**36560.69**	**5749.607**	**1854.953**	**2245.521**
Stddev	25.077	147.15	13.719	6.451	35.583
%RSD	1.321512	.4024777	.2386140	.3477521	1.584625
#1	1914.256	36419.14	5735.917	1851.741	2268.412
#2	1909.794	36550.08	5763.356	1850.739	2263.625
#3	1868.762	36712.86	5749.548	1862.379	2204.526

Sample Name: CCB03 Acquired: 11/9/2023 13:00:51 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001546**	**-.000978**	**.0021793**	**.0007987**	**.0024513**	**-.019024**	**-.002945**
Stddev	.004345	.005629	.0007356	.0030837	.0029068	.005079	.002652
%RSD	281.1051	575.2858	33.75215	386.1025	118.5785	26.69899	90.04995
#1	-.002609	-.006902	.0022503	.0018053	.0052953	-.024267	-.002086
#2	-.005259	.004301	.0014108	.0032532	-.000514	-.018680	-.000829
#3	.003232	-.000334	.0028768	-.002663	.002573	-.014126	-.005921

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000792**	**.0002155**	**-.018713**	**-.000181**	**.0002027**	**-.000204**	**.0071153**
Stddev	.0000122	.0000828	.008565	.000362	.0001281	.000389	.0043113
%RSD	15.43768	38.40109	45.76758	200.0466	63.18987	190.8900	60.59252
#1	.0000830	.0003110	-.010875	.000013	.0000777	-.000248	.0025960
#2	.0000891	.0001633	-.017410	-.000599	.0001968	-.000568	.0075669
#3	.0000655	.0001723	-.027854	.000042	.0003337	.000205	.0111831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000519**	**-.021901**	**.0000131**	**-.000672**	**-.010166**	**.0027753**	**-.000309**
Stddev	.000132	.010561	.0005844	.000431	.002964	.0034308	.000170
%RSD	25.37104	48.21912	4448.015	64.11232	29.15393	123.6181	55.08920
#1	-.000511	-.015724	.0002919	-.000312	-.011219	.0067239	-.000270
#2	-.000655	-.015885	.0004060	-.000555	-.012460	.0010791	-.000494
#3	-.000392	-.034096	-.000658	-.001150	-.006820	.0005231	-.000161

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0504855**	**.0074298**	**.0029374**	**-.000810**	**.0004259**	**.0036430**	**-.001177**
Stddev	.0408061	.0012749	.0007659	.000573	.0006914	.0102333	.001036
%RSD	80.82737	17.15902	26.07268	70.70332	162.3300	280.9069	88.00558
#1	.0073521	.0084025	.0034617	-.000580	-.000034	.0142071	-.000243
#2	.0884768	.0079005	.0032920	-.001463	.001221	-.006224	-.002292
#3	.0556275	.0059865	.0020585	-.000389	.000091	.002946	-.000997

Sample Name: CCB03 Acquired: 11/9/2023 13:00:51 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000573	.0021021	.0001391
Stddev	.003430	.0022279	.0001065
%RSD	598.7973	105.9872	76.54541
#1	-.003016	-.000061	.0002549
#2	.003349	.004389	.0000456
#3	-.002052	.001978	.0001167

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.937	36050.42	5756.590	1862.234	2323.961
Stddev	6.099	135.02	31.202	5.313	4.343
%RSD	.3199969	.3745232	.5420164	.2853001	.1868977
#1	1899.158	36165.17	5741.932	1859.299	2319.623
#2	1907.673	35901.64	5735.417	1859.036	2323.952
#3	1910.979	36084.44	5792.422	1868.367	2328.310

Sample Name: PB156995BL Acquired: 11/9/2023 13:49:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.002263**	**-.000979**	**-.000120**	**-.002053**	**-.000173**	**-.010825**	**-.002193**
Stddev	.003474	.002708	.000782	.003363	.002422	.008001	.001446
%RSD	153.4890	276.5943	648.7717	163.7792	1396.508	73.91376	65.91673
#1	.001674	.002133	-.000079	.001058	-.002831	-.001796	-.000535
#2	-.003567	-.002799	.000640	-.005620	.001911	-.017036	-.002856
#3	-.004896	-.002271	-.000922	-.001597	.000400	-.013644	-.003189

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000074**	**.0001094**	**-.014273**	**.0002653**	**.0002806**	**-.000372**	**.0081850**
Stddev	.0000513	.0000734	.011433	.0003413	.0002991	.000644	.0091556
%RSD	691.8847	67.11656	80.09911	128.6475	106.6167	173.2121	111.8573
#1	.0000633	.0001728	-.009884	.0002563	-.000019	-.000922	-.002181
#2	-.000003	.0000290	-.005686	-.000071	.000282	.000336	.015164
#3	-.000038	.0001264	-.027250	.000611	.000579	-.000528	.011572

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000492**	**-.010312**	**.0001382**	**-.000573**	**-.023427**	**.0025374**	**-.000336**
Stddev	.000208	.024548	.0001086	.000602	.020784	.0014564	.000118
%RSD	42.26264	238.0447	78.60150	105.0708	88.72037	57.39502	34.96471
#1	-.000732	.011595	.0002412	-.001187	-.041977	.0021635	-.000286
#2	-.000353	-.005689	.0001487	.000016	-.027339	.0013045	-.000252
#3	-.000392	-.036843	.0000247	-.000548	-.000964	.0041443	-.000471

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166324**	**-.000817**	**.0001282**	**-.000190**	**.0005702**	**.0084890**	**.0021836**
Stddev	.0266640	.001245	.0004422	.000141	.0007389	.0083151	.0038469
%RSD	160.3133	152.4652	344.8972	73.83740	129.5964	97.95181	176.1690
#1	.0472715	-.000486	.0006146	-.000325	.0010166	.0034196	-.001079
#2	.0039409	-.002194	-.000250	-.000201	.0009766	.0039620	.001205
#3	-.001315	.000230	.000020	-.000045	-.000283	.0180853	.006425

Sample Name: PB156995BL Acquired: 11/9/2023 13:49:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002267	.0005496	-.000090
Stddev	.002656	.0008038	.000042
%RSD	117.1446	146.2672	46.34050
#1	-.005324	.0012003	-.000042
#2	-.000527	-.000349	-.000113
#3	-.000950	.000797	-.000115

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1929.537	36881.36	5846.688	1879.894	2375.595
Stddev	6.774	27.46	93.697	3.361	8.445
%RSD	.3510844	.0744640	1.602563	.1787952	.3555094
#1	1934.523	36852.58	5753.116	1883.181	2382.013
#2	1932.265	36907.29	5846.438	1880.037	2378.744
#3	1921.824	36884.20	5940.509	1876.463	2366.027

Sample Name: PB156995BS Acquired: 11/9/2023 13:53:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.8998090**	**2.176345**	**1.080632**	**2.222077**	**.8539278**	**2.157152**
Stddev	.0040470	.028734	.003068	.012169	.0021436	.022942
%RSD	.4497614	1.320271	.2839435	.5476515	.2510235	1.063547
#1	.9039749	2.149718	1.077324	2.220745	.8523832	2.132888
#2	.8958924	2.206801	1.081187	2.234857	.8563751	2.160077
#3	.8995597	2.172515	1.083385	2.210628	.8530251	2.178492

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1961809**	**.2131435**	**.2173631**	**1.080762**	**.4261199**	**.2118722**
Stddev	.0023767	.0015694	.0005023	.016466	.0015386	.0007115
%RSD	1.211496	.7363131	.2310955	1.523513	.3610714	.3358233
#1	.1955966	.2115954	.2167896	1.065114	.4273164	.2112236
#2	.1941509	.2147334	.2175745	1.079235	.4243843	.2117598
#3	.1987954	.2131015	.2177251	1.097938	.4266591	.2126332

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3300804**	**3.224473**	**.2156855**	**2.078247**	**.5324865**	**.0802560**
Stddev	.0005080	.021878	.0017150	.027103	.0004292	.0009700
%RSD	.1538942	.6784897	.7951534	1.304143	.0805933	1.208591
#1	.3295377	3.201578	.2137231	2.063946	.5319944	.0813751
#2	.3305445	3.226673	.2168973	2.109505	.5327831	.0796581
#3	.3301589	3.245167	.2164360	2.061289	.5326821	.0797347

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.239580**	**.3157641**	**.2182207**	**10.74141**	**.3153211**	**.4268555**
Stddev	.039710	.0053746	.0010857	.11974	.0044903	.0012492
%RSD	1.225783	1.702084	.4975083	1.114714	1.424040	.2926569
#1	3.218948	.3106639	.2175314	10.74967	.3117533	.4260279
#2	3.214433	.3152521	.2176586	10.61775	.3203632	.4262462
#3	3.285360	.3213764	.2194722	10.85680	.3138468	.4282925

Sample Name: PB156995BS Acquired: 11/9/2023 13:53:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7439104	.2124626	.9617482	6.163711	F -.007906	.2164288
Stddev	.0019629	.0011964	.0132855	.022966	.003409	.0009509
%RSD	.2638647	.5630858	1.381387	.3726059	43.12623	.4393510
#1	.7457740	.2120485	.9672671	6.139462	-.004242	.2162126
#2	.7440958	.2138110	.9465928	6.166538	-.008488	.2174692
#3	.7418614	.2115283	.9713848	6.185133	-.010986	.2156047

Elem	Sr4077
Units	ppm
Avg	.2173574
Stddev	.0017837
%RSD	.8206363
#1	.2153179
#2	.2181286
#3	.2186258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.658	35816.71	5751.309	1840.225	2277.678
Stddev	1.603	154.12	25.224	7.860	2.351
%RSD	.0852668	.4303007	.4385820	.4270992	.1032146
#1	1879.452	35693.64	5762.139	1836.927	2279.463
#2	1881.354	35989.58	5722.478	1849.196	2278.556
#3	1878.168	35766.93	5769.309	1834.551	2275.014

Sample Name: O5272-02 Acquired: 11/9/2023 13:56:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.034405	-.032901	10.91132	-.079381	.0349448	60.42658
Stddev	.004212	.009586	.02374	.008261	.0015474	.23944
%RSD	12.24113	29.13425	.2175378	10.40627	4.428121	.3962424
#1	-.029584	-.041891	10.88863	-.078071	.0345741	60.17965
#2	-.037368	-.033998	10.90935	-.071853	.0366439	60.44235
#3	-.036264	-.022815	10.93598	-.088218	.0336165	60.65774

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.639883	.0069760	.0395742	708.0074	1.213754	.1595141
Stddev	.005300	.0000365	.0002137	9.1539	.000974	.0009630
%RSD	.3231942	.5227674	.5398938	1.292908	.0802551	.6036939
#1	1.635514	.0069431	.0396614	701.1254	1.214681	.1598972
#2	1.645779	.0069696	.0393307	704.5005	1.213842	.1584186
#3	1.638356	.0070152	.0397304	718.3962	1.212738	.1602267

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.026780	581.3198	5.059949	289.2729	.9104284	.0535095
Stddev	.010641	3.1383	.019141	1.2014	.0017112	.0007122
%RSD	.1765557	.5398561	.3782915	.4153023	.1879532	1.331050
#1	6.015965	578.1598	5.038787	287.8997	.9104386	.0529146
#2	6.027138	584.4359	5.065003	289.7889	.9087122	.0542987
#3	6.037237	581.3637	5.076055	290.1300	.9121345	.0533152

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.121062	.3975039	10.57732	10.50846	-.314900	.0541821
Stddev	.025183	.0018317	.02604	.02747	.013531	.0003220
%RSD	.4917544	.4608069	.2462083	.2613886	4.296948	.5943616
#1	5.096623	.3985108	10.57086	10.52408	-.328184	.0540239
#2	5.146928	.3953896	10.55511	10.52456	-.301134	.0539698
#3	5.119635	.3986113	10.60598	10.47674	-.315382	.0545526

Sample Name: O5272-02 Acquired: 11/9/2023 13:56:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2878195	2.719872	8.057994	F 37.96470	F 26.12784	.0724151
Stddev	.0012408	.007447	.027466	.04721	.05551	.0003876
%RSD	.4311078	.2737942	.3408494	.1243608	.2124413	.5352746
#1	.2869922	2.711692	8.068050	37.96323	26.06770	.0728564
#2	.2872201	2.726258	8.079015	37.91824	26.17710	.0722596
#3	.2892462	2.721666	8.026918	38.01263	26.13872	.0721294

Elem	Sr4077
Units	ppm
Avg	.5354324
Stddev	.0039390
%RSD	.7356721
#1	.5340023
#2	.5324082
#3	.5398867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2048.414	39686.38	6537.597	1974.917	2019.356
Stddev	3.142	99.17	21.280	8.851	4.234
%RSD	.1533868	.2498794	.3254968	.4481761	.2096629
#1	2051.163	39799.15	6551.355	1980.881	2022.442
#2	2049.089	39647.18	6548.349	1979.123	2021.097
#3	2044.989	39612.80	6513.087	1964.747	2014.530

Sample Name: CCV04 Acquired: 11/9/2023 14:00:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**5.196989**	**5.170369**	**5.109671**	**5.294338**	**5.070563**	**9.833157**	**9.751922**
Stddev	.012986	.011460	.002379	.021031	.008460	.073315	.036656
%RSD	.2498831	.2216506	.0465650	.3972359	.1668457	.7455942	.3758881
#1	5.209414	5.174781	5.111896	5.318522	5.070838	9.776060	9.723473
#2	5.183506	5.178967	5.107163	5.284157	5.061968	9.915836	9.793289
#3	5.198046	5.157358	5.109954	5.280335	5.078882	9.807574	9.739006

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2495045**	**2.556882**	**24.35354**	**.9967251**	**2.486541**	**1.259064**	**4.977278**
Stddev	.0008225	.002054	.11831	.0010987	.003195	.001314	.015180
%RSD	.3296525	.0803153	.4857887	.1102337	.1284984	.1043793	.3049894
#1	.2496188	2.559187	24.31074	.9955752	2.490124	1.257813	4.973542
#2	.2502638	2.555248	24.48729	.9968358	2.483988	1.260434	4.964314
#3	.2486308	2.556211	24.26259	.9977643	2.485510	1.258944	4.993977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.456537**	**24.19021**	**2.498142**	**1.254191**	**25.04573**	**2.425631**	**2.500082**
Stddev	.015375	.10484	.003604	.000777	.07186	.016964	.006335
%RSD	.6258889	.4333786	.1442761	.0619830	.2869204	.6993711	.2533873
#1	2.438921	24.07396	2.501609	1.253931	24.99481	2.406128	2.495356
#2	2.467254	24.27757	2.494415	1.255065	25.12793	2.433795	2.507280
#3	2.463437	24.21911	2.498403	1.253577	25.01445	2.436970	2.497611

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.97639**	**4.980727**	**4.998387**	**5.023872**	**4.905633**	**5.050238**	**5.045545**
Stddev	.07313	.003120	.003083	.000612	.017839	.026830	.011221
%RSD	.2927890	.0626357	.0616706	.0121765	.3636458	.5312533	.2223891
#1	24.91061	4.984133	5.001266	5.023248	4.886636	5.021489	5.042406
#2	25.05513	4.978008	4.998758	5.024471	4.922029	5.054615	5.036229
#3	24.96344	4.980041	4.995135	5.023898	4.908234	5.074610	5.058002

Sample Name: CCV04 Acquired: 11/9/2023 14:00:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.229200**	**4.924067**	**5.018193**
Stddev	.025748	.016667	.085881
%RSD	.4923979	.3384739	1.711398
#1	5.257412	4.910073	4.925193
#2	5.223223	4.942505	5.034879
#3	5.206967	4.919622	5.094507

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1847.846**	**35027.44**	**5659.074**	**1800.776**	**2167.641**
Stddev	2.796	91.97	13.936	7.099	4.175
%RSD	.1513344	.2625565	.2462538	.3942315	.1926180
#1	1844.884	35077.61	5661.556	1808.273	2162.998
#2	1848.212	34921.30	5644.064	1794.156	2168.839
#3	1850.441	35083.41	5671.602	1799.899	2171.087

Sample Name: CCB04 Acquired: 11/9/2023 14:04:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0013388	-.001958	.0024017	-.002683	-.000783	-.006616	-.003533
Stddev	.0008736	.005219	.0013323	.002600	.000611	.008239	.005901
%RSD	65.24900	266.6082	55.47263	96.90792	78.06979	124.5269	167.0233
#1	.0003964	-.006955	.0036790	.000225	-.000175	-.002296	-.008358
#2	.0014987	-.002375	.0010205	-.003493	-.001397	-.016116	.003046
#3	.0021214	.003458	.0025058	-.004783	-.000776	-.001436	-.005286

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000202	.0001619	-.021069	-.000378	.0001824	-.000709	.0004367
Stddev	.0000185	.0000981	.015316	.000776	.0002676	.000506	.0125018
%RSD	91.60920	60.57002	72.69611	205.0786	146.7158	71.32500	2862.836
#1	.0000273	.0002073	-.030084	-.000110	-.000099	-.001293	-.003696
#2	-.000001	.0002291	-.029739	-.001253	.000434	-.000436	-.009476
#3	.000034	.0000494	-.003384	.000227	.000212	-.000399	.014481

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000436	.0018082	.0006591	-.001000	.0078265	.0002408	-.000285
Stddev	.000163	.0080806	.0000511	.000380	.0066854	.0012881	.000270
%RSD	37.44583	446.8913	7.752472	37.97158	85.41979	534.8446	94.77917
#1	-.000595	.0002353	.0006926	-.001438	.0008203	.0007855	-.000194
#2	-.000443	-.005370	.0006845	-.000791	.0141365	.0011671	-.000589
#3	-.000269	.010560	.0006003	-.000770	.0085227	-.001230	-.000072

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005117	.0067912	.0029333	-.000327	.0010539	.0030189	-.001943
Stddev	.064805	.0017733	.0007174	.000767	.0024271	.0134843	.001479
%RSD	1266.390	26.11245	24.45801	234.5677	230.3034	446.6575	76.13255
#1	-.008044	.0072764	.0035121	-.000610	-.001546	.0050996	-.003008
#2	.061102	.0082715	.0031570	-.000913	.001448	-.011385	-.002567
#3	-.068410	.0048258	.0021306	.000541	.003260	.015342	-.000254

Sample Name: CCB04 Acquired: 11/9/2023 14:04:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0034828	.0010952	.0000052
Stddev	.0021374	.0022527	.0000816
%RSD	61.37190	205.6960	1576.810
#1	.0044973	.0036934	-.000017
#2	.0049240	-.000096	.000096
#3	.0010270	-.000312	-.000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1873.646	35287.64	5697.225	1830.776	2269.933
Stddev	4.244	163.93	224.461	4.609	7.242
%RSD	.2265166	.4645462	3.939836	.2517490	.3190284
#1	1874.124	35160.80	5919.912	1831.728	2268.324
#2	1877.632	35472.74	5471.031	1834.835	2277.844
#3	1869.184	35229.37	5700.733	1825.765	2263.632

Sample Name: O5279-01 Acquired: 11/9/2023 14:08:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0014651	-.007261	.4323355	-.018078	-.002815	68.56243	.7344628
Stddev	.0031551	.001538	.0019031	.001676	.001879	.28919	.0058294
%RSD	215.3576	21.18620	.4402032	9.268875	66.74636	.4217961	.7936965
#1	.0036058	-.008769	.4304927	-.016226	-.003088	68.27676	.7285969
#2	-.002158	-.005694	.4322200	-.019489	-.000815	68.55549	.7345365
#3	.002948	-.007320	.4342938	-.018519	-.004543	68.85502	.7402551

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051962	.0058402	65.01892	.1148341	.0901710	.5110989	129.1398
Stddev	.0000823	.0002280	.19588	.0004580	.0007811	.0011822	1.0414
%RSD	1.583502	3.903370	.3012606	.3988040	.8661971	.2313027	.8064074
#1	.0052365	.0058415	64.81337	.1153510	.0910653	.5116911	128.0313
#2	.0051015	.0056116	65.03996	.1144791	.0896223	.5097377	130.0977
#3	.0052506	.0060675	65.20343	.1146722	.0898255	.5118679	129.2904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.516243	35.04780	.1504000	-.004884	5.269137	.2326053	.6523253
Stddev	.020949	.13893	.0004071	.000355	.051025	.0051688	.0035331
%RSD	.4638683	.3963944	.2706517	7.269724	.9683683	2.222134	.5416159
#1	4.504017	34.97733	.1504022	-.005268	5.212773	.2317964	.6541795
#2	4.504279	34.95824	.1499919	-.004567	5.312178	.2381308	.6482511
#3	4.540433	35.20785	.1508060	-.004816	5.282461	.2278886	.6545453

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.024267	-.047688	.0028486	.0287022	1.945921	3.123911	7.150443
Stddev	.132098	.004931	.0002186	.0009910	.004970	.032367	.014809
%RSD	1.646231	10.34067	7.673904	3.452831	.2554168	1.036109	.2071115
#1	7.877618	-.051406	.0030717	.0291556	1.941751	3.118260	7.143767
#2	8.061254	-.042094	.0028393	.0275656	1.944592	3.158732	7.140148
#3	8.133929	-.049563	.0026348	.0293854	1.951421	3.094742	7.167416

Sample Name: O5279-01 Acquired: 11/9/2023 14:08:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.586132	.0814505	.1515122
Stddev	.014376	.0015223	.0014706
%RSD	.4008843	1.868986	.9706410
#1	3.571674	.0830642	.1514412
#2	3.586298	.0800401	.1500783
#3	3.600425	.0812471	.1530170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2302.615	43828.41	6665.281	2222.685	2335.121
Stddev	3.922	214.23	50.581	7.599	6.991
%RSD	.1703393	.4887825	.7588678	.3418880	.2994002
#1	2301.453	43656.76	6607.409	2214.334	2336.361
#2	2306.987	43759.98	6701.042	2224.526	2341.409
#3	2299.405	44068.49	6687.391	2229.194	2327.592

Sample Name: O5279-05 Acquired: 11/9/2023 14:12:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.1179170	-.009518	7.761465	-.014588	.0057292	75.85492
Stddev	.0048249	.007161	.006760	.005241	.0028521	.25299
%RSD	4.091813	75.23848	.0870956	35.92582	49.78205	.3335230
#1	.1130403	-.001811	7.769069	-.017252	.0063604	76.00742
#2	.1226885	-.015966	7.759194	-.017961	.0026143	75.99446
#3	.1180223	-.010776	7.756134	-.008550	.0082128	75.56289

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.418156	.0091460	.0227966	181.6906	.2671113	.1319660
Stddev	.008125	.0001844	.0001917	.4817	.0006685	.0002467
%RSD	.2377087	2.015991	.8409910	.2651339	.2502840	.1869347
#1	3.417289	.0092092	.0226945	182.0825	.2678775	.1321683
#2	3.426680	.0092905	.0230178	181.8365	.2666468	.1316912
#3	3.410499	.0089383	.0226776	181.1528	.2668095	.1320385

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.440817	280.4440	4.148142	54.65769	.4926868	-.000549
Stddev	.004418	1.3216	.015452	.13541	.0009870	.000069
%RSD	.1810118	.4712593	.3725035	.2477479	.2003357	12.50817
#1	2.438219	280.8997	4.165015	54.79844	.4937999	-.000610
#2	2.445918	278.9548	4.144729	54.64630	.4919182	-.000475
#3	2.438313	281.4775	4.134681	54.52833	.4923423	-.000563

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.604508	.3857946	4.410879	14.03332	-.017277	.0251322
Stddev	.030871	.0010371	.018497	.09709	.011242	.0003337
%RSD	.3587781	.2688200	.4193599	.6918685	65.06879	1.327790
#1	8.614705	.3854779	4.410239	14.11886	-.017792	.0247538
#2	8.569829	.3869531	4.392710	13.92779	-.028253	.0252587
#3	8.628991	.3849528	4.429689	14.05332	-.005786	.0253842

Sample Name: O5279-05 Acquired: 11/9/2023 14:12:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9739012	2.299170	3.101762	8.373167	F 26.11861	.1315374
Stddev	.0014061	.005914	.044120	.022788	.00373	.0005432
%RSD	.1443725	.2572124	1.422416	.2721605	.0142881	.4129345
#1	.9737884	2.303657	3.152608	8.399475	26.11690	.1309957
#2	.9753602	2.301385	3.073583	8.359549	26.12289	.1315345
#3	.9725549	2.292469	3.079096	8.360477	26.11604	.1320820

Elem	Sr4077
Units	ppm
Avg	.5785812
Stddev	.0034280
%RSD	.5924779
#1	.5811358
#2	.5799223
#3	.5746854

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2105.823	39805.87	6610.545	2051.126	2111.831
Stddev	4.955	68.68	27.429	10.754	1.974
%RSD	.2352844	.1725441	.4149252	.5243055	.0934827
#1	2108.221	39763.30	6606.836	2054.844	2111.170
#2	2100.125	39885.11	6585.159	2059.527	2110.273
#3	2109.121	39769.21	6639.639	2039.006	2114.051

Sample Name: O5286-02 Acquired: 11/9/2023 14:16:10 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0140460	-.011607	4.644923	-.044791	.0266164	58.63298
Stddev	.0071464	.004696	.006945	.003550	.0004862	.16826
%RSD	50.87859	40.46033	.1495101	7.924654	1.826730	.2869661
#1	.0206121	-.007169	4.641133	-.048838	.0260729	58.44569
#2	.0064344	-.011128	4.652938	-.043330	.0267661	58.68190
#3	.0150917	-.016525	4.640697	-.042205	.0270101	58.77136

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.368920	.0054586	.0259118	686.7573	.5160708	.1419370
Stddev	.002947	.0001539	.0002264	4.1841	.0018998	.0001698
%RSD	.2152876	2.819103	.8735391	.6092506	.3681258	.1196446
#1	1.367297	.0055329	.0260781	685.8759	.5139722	.1420244
#2	1.367141	.0052816	.0256540	683.0841	.5176734	.1417413
#3	1.372322	.0055612	.0260032	691.3118	.5165669	.1420453

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.306680	318.6864	2.948664	221.9862	.3307169	-.008325
Stddev	.001948	1.9700	.014111	.8415	.0003168	.000227
%RSD	.0589254	.6181501	.4785647	.3790883	.0957863	2.722964
#1	3.307949	316.4418	2.934909	221.3309	.3308346	-.008572
#2	3.304436	319.4897	2.947977	221.6926	.3309580	-.008278
#3	3.307654	320.1278	2.963107	222.9353	.3303581	-.008125

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.206396	.3826273	6.698684	9.820847	-.059437	.0351921
Stddev	.050233	.0021341	.004142	.056800	.010953	.0005653
%RSD	.8093777	.5577599	.0618258	.5783593	18.42801	1.606396
#1	6.149765	.3802542	6.703333	9.782630	-.072085	.0358438
#2	6.223845	.3843891	6.695387	9.886116	-.053042	.0348981
#3	6.245578	.3832386	6.697332	9.793795	-.053185	.0348344

Sample Name: O5286-02MSD Acquired: 11/9/2023 14:27:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.7358013	2.082989	5.460198	1.662572	.7105720	62.11766
Stddev	.0033326	.003072	.008058	.007733	.0040304	.02528
%RSD	.4529232	.1474824	.1475846	.4651273	.5672093	.0407017
#1	.7319729	2.080543	5.454632	1.656318	.7123557	62.10195
#2	.7373785	2.086437	5.469439	1.671219	.7134027	62.14682
#3	.7380526	2.081988	5.456523	1.660180	.7059575	62.10420

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.618451	.1754456	.2326674	694.9191	.8226750	.3434740
Stddev	.004073	.0003966	.0001937	5.3614	.0016214	.0008004
%RSD	.2516876	.2260555	.0832590	.7715088	.1970912	.2330274
#1	1.613941	.1758869	.2327085	698.7473	.8231302	.3437714
#2	1.621861	.1753309	.2328372	697.2183	.8240201	.3440830
#3	1.619553	.1751191	.2324564	688.7916	.8208746	.3425674

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.382935	303.9686	3.114231	227.9064	.8276377	.0576839
Stddev	.000829	1.0885	.008120	.3073	.0014624	.0003982
%RSD	.0244942	.3580981	.2607341	.1348252	.1766918	.6902643
#1	3.383884	302.8050	3.121024	227.9100	.8264853	.0576202
#2	3.382355	304.1388	3.116432	228.2119	.8292828	.0581101
#3	3.382566	304.9619	3.105238	227.5974	.8271451	.0573215

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.674746	.6406149	6.507275	19.00464	.1076667	.3829464
Stddev	.039688	.0066948	.019949	.01825	.0066513	.0003848
%RSD	.4575143	1.045053	.3065662	.0960171	6.177664	.1004907
#1	8.630272	.6337243	6.530160	19.02377	.1014976	.3832933
#2	8.687410	.6470949	6.498107	19.00273	.1067894	.3830134
#3	8.706558	.6410255	6.493558	18.98742	.1147131	.3825324

Sample Name: O5286-02MSD Acquired: 11/9/2023 14:27:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035303	3.218954	F 10.01631	F 130.4070	F 22.35777	.2493084
Stddev	.002565	.006692	.03896	.1148	.02276	.0030287
%RSD	.2477600	.2079046	.3889521	.0880316	.1017959	1.214847
#1	1.034822	3.215450	9.97385	130.2748	22.36473	.2522134
#2	1.038075	3.226671	10.05041	130.4814	22.37623	.2495422
#3	1.033013	3.214742	10.02468	130.4649	22.33234	.2461695

Elem	Sr4077
Units	ppm
Avg	.8693635
Stddev	.0031622
%RSD	.3637411
#1	.8706225
#2	.8717023
#3	.8657657

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2195.874	42092.25	6750.893	2111.673	2029.271
Stddev	2.582	62.34	21.319	4.754	2.826
%RSD	.1175854	.1481124	.3157952	.2251080	.1392574
#1	2198.855	42044.18	6726.324	2106.188	2032.368
#2	2194.434	42162.70	6761.842	2114.223	2026.831
#3	2194.334	42069.87	6764.513	2114.607	2028.615

Sample Name: O5276-02A Acquired: 11/9/2023 14:31:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.7562538	2.072214	5.555632	1.720325	.7282574	62.56654
Stddev	.0084730	.043524	.009835	.011746	.0030677	.07878
%RSD	1.120390	2.100349	.1770193	.6827670	.4212396	.1259161
#1	.7584407	2.060660	5.545406	1.706797	.7249461	62.47692
#2	.7634190	2.035632	5.556467	1.727927	.7310027	62.62488
#3	.7469018	2.120348	5.565022	1.726251	.7288232	62.59782

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630052	.1723816	.2344998	694.9465	.8331334	.3490638
Stddev	.003316	.0002139	.0004321	2.0883	.0009503	.0007447
%RSD	.2034415	.1241106	.1842482	.3005047	.1140632	.2133360
#1	1.626251	.1724903	.2342862	693.1150	.8333486	.3489541
#2	1.631556	.1721351	.2342161	697.2207	.8339577	.3483800
#3	1.632350	.1725193	.2349971	694.5038	.8320940	.3498572

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.468592	319.4990	3.128413	229.2157	.8401222	.0600810
Stddev	.002877	1.1499	.007796	.2686	.0025639	.0005419
%RSD	.0829555	.3599048	.2492032	.1172024	.3051783	.9018973
#1	3.465630	318.1716	3.119728	229.0571	.8375368	.0598757
#2	3.468770	320.1361	3.134807	229.0641	.8401658	.0606955
#3	3.471377	320.1893	3.130705	229.5259	.8426640	.0596718

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.110604	.6447572	6.687750	19.92148	.1877362	.3824802
Stddev	.037159	.0019318	.016592	.07092	.0070800	.0011475
%RSD	.4078675	.2996171	.2480900	.3559924	3.771231	.3000209
#1	9.068359	.6469657	6.683901	19.85888	.1808854	.3819100
#2	9.138231	.6433814	6.705928	19.90707	.1950250	.3817295
#3	9.125223	.6439245	6.673422	19.99850	.1872981	.3838011

Sample Name: O5276-02A Acquired: 11/9/2023 14:31:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.051194	3.311741	F 12.27909	F 137.6107	F 24.04331	.2414271
Stddev	.002639	.006816	.05268	.2401	.09924	.0010557
%RSD	.2510734	.2058078	.4290036	.1744954	.4127502	.4372683
#1	1.048769	3.316328	12.22429	137.3977	23.96368	.2404110
#2	1.054005	3.314987	12.32935	137.5635	24.01176	.2425184
#3	1.050808	3.303909	12.28363	137.8709	24.15449	.2413519

Elem	Sr4077
Units	ppm
Avg	.8564096
Stddev	.0011485
%RSD	.1341077
#1	.8553378
#2	.8576219
#3	.8562692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2121.592	40441.68	6830.700	2053.847	1949.162
Stddev	4.078	49.97	12.361	4.469	4.305
%RSD	.1922367	.1235661	.1809663	.2176123	.2208797
#1	2126.301	40474.11	6818.141	2055.075	1954.058
#2	2119.218	40384.13	6842.853	2048.892	1947.460
#3	2119.255	40466.79	6831.107	2057.574	1945.968

Sample Name: O5286-02LX5 Acquired: 11/9/2023 14:35:29 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0036744	-.006176	.9044164	-.008082	.0079535	13.66409
Stddev	.0060275	.006237	.0020159	.004418	.0028661	.09416
%RSD	164.0420	100.9943	.2229005	54.65593	36.03544	.6890722
#1	.0017861	-.000011	.9036014	-.007108	.0112311	13.57331
#2	-.001183	-.012484	.9029356	-.004234	.0067110	13.65767
#3	.010420	-.006033	.9067123	-.012906	.0059183	13.76129

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3061301	.0012204	.0039013	162.4003	.1203323	.0273779
Stddev	.0016118	.0000484	.0001527	1.0276	.0001609	.0003323
%RSD	.5265013	3.964265	3.914045	.6327272	.1337338	1.213782
#1	.3061062	.0012740	.0039834	161.2933	.1201618	.0272991
#2	.3045304	.0012072	.0037251	162.5839	.1204815	.0277426
#3	.3077537	.0011799	.0039954	163.3236	.1203535	.0270921

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7804581	68.95887	.7053109	52.56371	.0651241	-.002139
Stddev	.0017753	1.16156	.0036063	.23572	.0004011	.000631
%RSD	.2274697	1.684418	.5113053	.4484545	.6159492	29.49257
#1	.7814590	67.63210	.7021937	52.31074	.0652639	-.002867
#2	.7784083	69.45202	.7044784	52.60320	.0646718	-.001748
#3	.7815070	69.79249	.7092606	52.77720	.0654366	-.001802

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.264880	.0926525	1.529137	2.048997	-.040542	.0086117
Stddev	.030827	.0026923	.005616	.062448	.006940	.0002604
%RSD	2.437179	2.905759	.3672830	3.047754	17.11881	3.024053
#1	1.229297	.0915977	1.534696	2.029933	-.048543	.0083968
#2	1.281859	.0906474	1.523465	1.998303	-.036930	.0085369
#3	1.283486	.0957125	1.529250	2.118756	-.036152	.0089013

Sample Name: O5286-02LX5 Acquired: 11/9/2023 14:35:29 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518412	.6578384	1.328190	F 26.53719	4.071038	.0142434
Stddev	.0029323	.0079759	.037623	.07307	.018655	.0022482
%RSD	5.656230	1.212443	2.832617	.2753551	.4582390	15.78407
#1	.0549001	.6488911	1.315855	26.47088	4.081801	.0158362
#2	.0515690	.6604215	1.298284	26.61553	4.049497	.0116717
#3	.0490546	.6642027	1.370432	26.52517	4.081816	.0152223

Elem	Sr4077
Units	ppm
Avg	.1621566
Stddev	.0006665
%RSD	.4110295
#1	.1627118
#2	.1614174
#3	.1623404

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2008.639	38261.36	5970.240	1933.934	2266.945
Stddev	4.025	134.88	51.030	2.511	1.280
%RSD	.2003700	.3525146	.8547402	.1298270	.0564741
#1	2004.029	38390.20	5912.530	1932.691	2267.014
#2	2010.433	38272.72	6009.400	1936.824	2265.632
#3	2011.454	38121.16	5988.792	1932.288	2268.189

Sample Name: O5291-01 Acquired: 11/9/2023 14:39:19 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0499613	-.001303	6.085687	-.021939	.0050410	66.97713	.8253293
Stddev	.0047102	.007570	.027199	.004011	.0017338	.13462	.0050192
%RSD	9.427730	580.9340	.4469330	18.28384	34.39406	.2009866	.6081450
#1	.0553255	.005943	6.116889	-.021518	.0069904	67.05885	.8310774
#2	.0465012	-.009159	6.066986	-.018155	.0044609	66.82176	.8218136
#3	.0480573	-.000693	6.073187	-.026144	.0036716	67.05079	.8230970

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052194	.0083056	319.5375	.1874502	.0661685	.8399156	194.2365
Stddev	.0000283	.0001818	.9294	.0007936	.0006123	.0045693	.2847
%RSD	.5416876	2.188797	.2908510	.4233866	.9253854	.5440157	.1465645
#1	.0052490	.0081593	319.7375	.1870165	.0668471	.8443417	194.4850
#2	.0052165	.0082484	318.5245	.1869679	.0656572	.8352155	193.9259
#3	.0051927	.0085091	320.3507	.1883662	.0660013	.8401895	194.2987

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.829533	61.32122	.2090200	-.005083	3.575535	.2262817	3.669377
Stddev	.005065	.10375	.0009406	.000418	.004850	.0046027	.012993
%RSD	.1790164	.1691885	.4499943	8.219179	.1356553	2.034073	.3541029
#1	2.833493	61.33258	.2100713	-.005372	3.571077	.2230397	3.654403
#2	2.823825	61.21226	.2082583	-.004604	3.580700	.2242554	3.677688
#3	2.831281	61.41883	.2087305	-.005273	3.574828	.2315499	3.676039

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11209	-.073843	.0041881	.2153166	2.354008	3.570332	4.651369
Stddev	.05940	.001679	.0002798	.0024583	.005901	.015535	.014816
%RSD	.5873711	2.273868	6.679613	1.141703	.2506584	.4351265	.3185250
#1	10.15836	-.075018	.0043818	.2174827	2.360567	3.573240	4.667143
#2	10.04512	-.071920	.0043152	.2126448	2.352325	3.553548	4.649218
#3	10.13280	-.074591	.0038674	.2158225	2.349132	3.584208	4.637746

Sample Name: O5291-01 Acquired: 11/9/2023 14:39:19 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.466282**	**.0567891**	**.6699368**
Stddev	.021096	.0023166	.0007402
%RSD	.3859380	4.079231	.1104905
#1	5.489815	.0573905	.6707888
#2	5.449065	.0587456	.6695704
#3	5.459965	.0542311	.6694512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1963.124**	**37165.72**	**6254.879**	**1922.821**	**2082.327**
Stddev	9.029	83.40	25.019	2.949	5.610
%RSD	.4599286	.2244064	.3999840	.1533477	.2694274
#1	1953.783	37083.34	6239.522	1925.093	2076.084
#2	1971.805	37250.11	6283.749	1919.489	2083.952
#3	1963.783	37163.70	6241.368	1923.880	2086.946

Sample Name: O5292-02 Acquired: 11/9/2023 14:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0161063	-.016062	2.583656	-.022016	.0023014	115.2097	.9762277
Stddev	.0077193	.006259	.001341	.006274	.0024167	.0370	.0030679
%RSD	47.92672	38.96868	.0518878	28.49743	105.0112	.0320830	.3142585
#1	.0114153	-.020333	2.582337	-.019238	.0018027	115.2052	.9759629
#2	.0118882	-.018975	2.585017	-.029200	.0001729	115.2486	.9794193
#3	.0250156	-.008877	2.583614	-.017611	.0049286	115.1751	.9733007

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074156	.0165931	234.9201	.3450867	.1204885	.6254172	227.7221
Stddev	.0001131	.0000356	.1416	.0005559	.0007627	.0017059	.6383
%RSD	1.524915	.2147236	.0602651	.1611005	.6329947	.2727559	.2802812
#1	.0072940	.0166173	235.0717	.3455214	.1204923	.6261711	228.4282
#2	.0074353	.0165522	234.8974	.3452785	.1212493	.6234643	227.5522
#3	.0075176	.0166098	234.7913	.3444603	.1197239	.6266163	227.1861

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.778448	100.7851	.2972823	-.005836	2.001463	.3437862	6.899006
Stddev	.023242	.0896	.0006078	.000257	.010937	.0019309	.034760
%RSD	.4863951	.0888825	.2044600	4.398078	.5464642	.5616470	.5038448
#1	4.752380	100.7117	.2973823	-.005564	2.012419	.3416420	6.938452
#2	4.785957	100.7587	.2966307	-.006074	2.001425	.3443291	6.885707
#3	4.797007	100.8849	.2978339	-.005871	1.990545	.3453875	6.872858

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.92471	-.147716	.0126159	.0929661	4.146747	5.000013	9.818269
Stddev	.09068	.007797	.0001815	.0019702	.001874	.027049	.021005
%RSD	.7016270	5.278518	1.438667	2.119225	.0451903	.5409777	.2139423
#1	12.82369	-.138792	.0124900	.0942412	4.144782	5.026885	9.816613
#2	12.95134	-.153213	.0128239	.0939602	4.146945	5.000365	9.840054
#3	12.99910	-.151142	.0125337	.0906970	4.148514	4.972791	9.798141

Sample Name: O5292-02 Acquired: 11/9/2023 14:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.568986**	**.1060725**	**.4016228**
Stddev	.003254	.0020554	.0034549
%RSD	.0712125	1.937708	.8602252
#1	4.566275	.1067494	.3976774
#2	4.568089	.1077040	.4041066
#3	4.572595	.1037640	.4030845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2283.536**	**43063.48**	**6887.891**	**2190.333**	**2205.735**
Stddev	4.368	162.54	10.036	11.579	2.429
%RSD	.1912909	.3774373	.1457080	.5286380	.1101149
#1	2279.794	42912.77	6877.476	2177.864	2203.103
#2	2288.336	43041.97	6888.696	2192.387	2207.891
#3	2282.478	43235.71	6897.500	2200.747	2206.210

Sample Name: CCV05 Acquired: 11/9/2023 14:46:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**4.931467**	**5.051063**	**4.970333**	**4.922488**	**4.866536**	**9.770783**	**9.764492**
Stddev	.021391	.066149	.003386	.015879	.008442	.047567	.036718
%RSD	.4337664	1.309606	.0681143	.3225835	.1734764	.4868337	.3760365
#1	4.947157	4.976942	4.974228	4.905320	4.866596	9.726771	9.731622
#2	4.907101	5.072146	4.968675	4.925494	4.858064	9.764331	9.757735
#3	4.940143	5.104101	4.968095	4.936649	4.874948	9.821247	9.804119

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2401927**	**2.484364**	**24.42165**	**.9810542**	**2.445854**	**1.230000**	**4.867679**
Stddev	.0018885	.001163	.10686	.0020476	.002333	.002114	.027728
%RSD	.7862385	.0468174	.4375665	.2087119	.0953902	.1718914	.5696385
#1	.2423087	2.485617	24.32613	.9830207	2.448543	1.231863	4.842230
#2	.2395907	2.483318	24.40175	.9789342	2.444362	1.227702	4.863576
#3	.2386785	2.484159	24.53706	.9812077	2.444658	1.230435	4.897229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.463296**	**24.01385**	**2.439207**	**1.216315**	**24.36672**	**2.425988**	**2.416853**
Stddev	.007705	.06571	.001863	.002323	.17929	.006703	.007468
%RSD	.3128003	.2736527	.0763713	.1909638	.7357808	.2762885	.3090101
#1	2.456048	23.98330	2.441207	1.218978	24.18808	2.422919	2.415051
#2	2.462450	23.96898	2.437521	1.214705	24.36544	2.433675	2.425058
#3	2.471389	24.08928	2.438894	1.215263	24.54664	2.421369	2.410452

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.49180**	**4.822699**	**4.966778**	**4.882818**	**4.896268**	**5.001392**	**4.655529**
Stddev	.27574	.031941	.007987	.001148	.014987	.074971	.004308
%RSD	1.125847	.6622965	.1608049	.0235193	.3060971	1.498999	.0925279
#1	24.27735	4.855897	4.960802	4.884141	4.888684	4.918734	4.658983
#2	24.39520	4.820014	4.963682	4.882081	4.886589	5.020441	4.650702
#3	24.80284	4.792185	4.975849	4.882232	4.913532	5.065001	4.656902

Sample Name: CCV05 Acquired: 11/9/2023 14:46:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.857460**	**4.846012**	**5.021879**
Stddev	.012464	.017885	.024551
%RSD	.2565918	.3690606	.4888761
#1	4.858859	4.833067	4.996260
#2	4.869165	4.838549	5.024179
#3	4.844355	4.866419	5.045200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1948.680**	**36752.99**	**5831.204**	**1860.196**	**2307.871**
Stddev	2.651	115.41	36.364	1.299	1.743
%RSD	.1360423	.3140243	.6236095	.0698229	.0755146
#1	1948.896	36667.48	5789.223	1859.229	2308.214
#2	1951.216	36884.27	5852.896	1859.686	2309.416
#3	1945.927	36707.23	5851.495	1861.672	2305.982

Sample Name: CCB05 Acquired: 11/9/2023 14:50:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.002243**	**-.002646**	**.0018954**	**.0008691**	**.0005845**	**-.014848**	**-.003389**
Stddev	.001713	.002685	.0010015	.0023032	.0004959	.001118	.000079
%RSD	76.38158	101.4496	52.83833	264.9958	84.84138	7.526342	2.318673
#1	-.000593	.000373	.0016206	.0005012	.0000676	-.015956	-.003479
#2	-.002123	-.004764	.0030056	.0033342	.0006296	-.013721	-.003355
#3	-.004014	-.003548	.0010600	-.001228	.0010563	-.014867	-.003334

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000032**	**.0001038**	**-.020520**	**.0000062**	**.0002607**	**-.000161**	**-.001395**
Stddev	.000042	.0001151	.013618	.0001945	.0003341	.000347	.001685
%RSD	129.9983	110.8658	66.36715	3148.488	128.1406	215.0580	120.7695
#1	.000016	.0002194	-.036242	-.000217	-.000122	-.000234	-.001036
#2	-.000058	.0001027	-.012417	.000139	.000495	.000216	-.003231
#3	-.000054	-.000011	-.012899	.000097	.000409	-.000466	.000081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000485**	**-.003095**	**-.000014**	**-.000560**	**-.002911**	**-.000301**	**.0002874**
Stddev	.000129	.015378	.000074	.000214	.008076	.002008	.0004797
%RSD	26.51422	496.8830	515.2514	38.18242	277.3988	667.9404	166.9222
#1	-.000403	-.009476	-.000089	-.000332	-.007900	.001908	.0008278
#2	-.000420	.014447	-.000013	-.000756	.006406	-.002017	-.000088
#3	-.000634	-.014255	.000059	-.000593	-.007241	-.000792	.000123

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0247145**	**.0053110**	**.0029351**	**.0001239**	**-.000390**	**.0194279**	**.0001195**
Stddev	.1155804	.0004834	.0006501	.0005243	.002030	.0062654	.0034773
%RSD	467.6624	9.102480	22.14725	423.2301	520.5264	32.24942	2909.938
#1	-.037017	.0058673	.0036690	-.000437	.001817	.0168980	.0040459
#2	.158053	.0049926	.0027046	.000207	-.002177	.0148231	-.001117
#3	-.046893	.0050730	.0024318	.000601	-.000811	.0265627	-.002571

Sample Name: CCB05 Acquired: 11/9/2023 14:50:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0050521	.0043938	.0000229
Stddev	.0042242	.0022583	.0001110
%RSD	83.61383	51.39721	484.8355
#1	.0097702	.0024281	.0001434
#2	.0016213	.0068605	.0000006
#3	.0037647	.0038927	-.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1885.963	35430.95	5857.168	1848.840	2283.961
Stddev	3.296	215.04	16.478	9.290	3.400
%RSD	.1747417	.6069159	.2813262	.5024559	.1488651
#1	1882.554	35185.85	5838.141	1838.255	2280.627
#2	1889.131	35519.11	5866.635	1852.625	2283.833
#3	1886.205	35587.90	5866.727	1855.639	2287.423

Sample Name: O5295-01 Acquired: 11/9/2023 14:54:44 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.009186**	**-.029357**	**.0727744**	**-.022055**	**-.003390**	**131.3947**	**.3059730**
Stddev	.003999	.003263	.0010611	.002800	.002780	.5455	.0043356
%RSD	43.53238	11.11410	1.458108	12.69335	82.01204	.4151685	1.416976
#1	-.004601	-.033044	.0735889	-.024657	-.000273	130.7844	.3013335
#2	-.011954	-.026842	.0715744	-.022416	-.005613	131.5647	.3099217
#3	-.011002	-.028186	.0731600	-.019093	-.004285	131.8350	.3066639

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057581**	**.0093568**	**22.91461**	**.2118786**	**.1647194**	**.3321556**	**230.6783**
Stddev	.0000345	.0001146	.07860	.0005190	.0004121	.0011463	1.4092
%RSD	.5993081	1.224415	.3430099	.2449442	.2501885	.3451126	.6109097
#1	.0057751	.0093504	22.82428	.2118858	.1648251	.3311906	229.0694
#2	.0057184	.0092456	22.96739	.2123940	.1650684	.3318535	231.2721
#3	.0057808	.0094745	22.95215	.2113561	.1642647	.3334227	231.6935

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.977215**	**35.16729**	**.2343741**	**-.007263**	**1.124430**	**.5750998**	**.4017653**
Stddev	.009498	.07311	.0001966	.000677	.015790	.0058453	.0011050
%RSD	.4803914	.2078969	.0838832	9.323436	1.404234	1.016391	.2750451
#1	1.971035	35.12077	.2343312	-.008015	1.110438	.5683630	.4015987
#2	1.972458	35.12954	.2342024	-.007076	1.121302	.5781098	.4029442
#3	1.988152	35.25156	.2345886	-.006700	1.141549	.5788266	.4007531

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.598770**	**-.184773**	**.0029726**	**-.013876**	**6.605871**	**5.682471**	**9.849028**
Stddev	.065641	.005751	.0004440	.000381	.017075	.015097	.020779
%RSD	1.172419	3.112256	14.93779	2.746316	.2584833	.2656733	.2109709
#1	5.523822	-.191353	.0034823	-.014302	6.586216	5.666466	9.831888
#2	5.646030	-.182256	.0026702	-.013758	6.614352	5.684492	9.843057
#3	5.626460	-.180710	.0027651	-.013568	6.617045	5.696456	9.872138

Sample Name: O5295-01 Acquired: 11/9/2023 14:54:44 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9208872	.0880081	-.134599
Stddev	.0052067	.0024744	.001057
%RSD	.5654028	2.811563	.7852056
#1	.9193962	.0907086	-.133384
#2	.9266768	.0858496	-.135103
#3	.9165886	.0874662	-.135308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2415.922	45560.50	7083.750	2327.949	2331.645
Stddev	2.252	58.26	19.441	2.850	3.849
%RSD	.0932315	.1278752	.2744481	.1224178	.1650709
#1	2417.518	45611.56	7061.303	2330.066	2329.347
#2	2416.902	45497.04	7095.219	2329.072	2336.089
#3	2413.346	45572.91	7094.728	2324.709	2329.500

Sample Name: O5293-02 Acquired: 11/9/2023 14:58:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.013948**	**-.016348**	**.0473365**	**-.020159**	**-.006463**	**134.7324**	**.3796735**
Stddev	.001560	.007782	.0039061	.004464	.003281	.8289	.0020388
%RSD	11.18099	47.60255	8.251836	22.14200	50.75901	.6151863	.5369809
#1	-.013429	-.024428	.0429058	-.025205	-.005877	133.8412	.3779268
#2	-.012714	-.015715	.0488203	-.016725	-.003515	134.8761	.3791799
#3	-.015701	-.008902	.0502832	-.018548	-.009998	135.4801	.3819137

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059519**	**.0100725**	**20.13586**	**.2712802**	**.1607071**	**.3538838**	**256.5111**
Stddev	.0000311	.0002154	.11772	.0009225	.0008678	.0015734	.4670
%RSD	.5216669	2.138076	.5846491	.3400595	.5399853	.4446191	.1820415
#1	.0059231	.0099485	20.01952	.2722984	.1597439	.3523189	256.7555
#2	.0059848	.0103211	20.13314	.2710419	.1614279	.3554657	255.9726
#3	.0059477	.0099478	20.25492	.2705001	.1609497	.3538667	256.8050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.929744**	**35.66148**	**.2142898**	**-.008381**	**1.661333**	**.5772106**	**.3980099**
Stddev	.051089	.17876	.0022781	.000534	.008304	.0079146	.0014167
%RSD	.7372433	.5012681	1.063087	6.365617	.4998700	1.371182	.3559458
#1	6.882069	35.46082	.2116593	-.007794	1.651796	.5686195	.3964037
#2	6.923491	35.71989	.2155969	-.008512	1.665235	.5788068	.3990817
#3	6.983671	35.80372	.2156133	-.008837	1.666967	.5842054	.3985441

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.695812**	**-.174646**	**.0169097**	**-.014239**	**6.209523**	**7.327973**	**6.704092**
Stddev	.060570	.003774	.0004895	.001219	.012053	.031060	.031202
%RSD	1.063413	2.161007	2.894605	8.561231	.1941080	.4238580	.4654141
#1	5.630154	-.171679	.0173582	-.015477	6.204340	7.362507	6.675640
#2	5.749509	-.178894	.0163876	-.014202	6.200928	7.302323	6.737460
#3	5.707774	-.173364	.0169832	-.013039	6.223300	7.319089	6.699177

Sample Name: O5293-02 Acquired: 11/9/2023 14:58:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7731265	.0874974	-.139036
Stddev	.0063347	.0015254	.000917
%RSD	.8193583	1.743328	.6592115
#1	.7732913	.0884436	-.140064
#2	.7793771	.0857377	-.138740
#3	.7667110	.0883108	-.138304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.373	43873.96	7012.018	2279.143	2220.093
Stddev	9.663	190.64	35.954	4.409	13.403
%RSD	.4119834	.4345285	.5127532	.1934604	.6036942
#1	2356.201	43800.91	7031.060	2282.910	2235.514
#2	2337.630	44090.33	7034.448	2280.227	2211.251
#3	2342.287	43730.65	6970.548	2274.293	2213.516

Sample Name: O5293-03 Acquired: 11/9/2023 15:02:21 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.005116**	**-.010266**	**.0141016**	**-.012920**	**-.001202**	**48.23345**	**.1588096**
Stddev	.006557	.004335	.0006423	.001293	.001172	.24599	.0019832
%RSD	128.1691	42.22696	4.554780	10.00845	97.47759	.5099895	1.248794
#1	-.008759	-.005367	.0145253	-.011641	-.002108	48.03253	.1574169
#2	-.009042	-.011827	.0133626	-.014227	-.001620	48.16004	.1579317
#3	.002454	-.013605	.0144170	-.012892	.000121	48.50779	.1610802

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025904**	**.0030954**	**21.46803**	**.1158917**	**.0664182**	**.2129974**	**124.8278**
Stddev	.0000590	.0000738	.07060	.0008163	.0006952	.0018953	.8647
%RSD	2.278494	2.384767	.3288650	.7043535	1.046648	.8898408	.6927351
#1	.0025669	.0030252	21.43832	.1156884	.0668779	.2139255	124.1826
#2	.0025467	.0031724	21.41714	.1167905	.0667583	.2142499	124.4904
#3	.0026575	.0030886	21.54863	.1151963	.0656185	.2108169	125.8103

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265682**	**24.69473**	**.1083144**	**-.004024**	**1.400855**	**.2023130**	**.2046904**
Stddev	.009556	.19003	.0006482	.000489	.017353	.0014527	.0007282
%RSD	.7550159	.7694987	.5984200	12.14986	1.238743	.7180361	.3557544
#1	1.255270	24.48351	.1086634	-.004110	1.392481	.2032821	.2053917
#2	1.267724	24.74890	.1075664	-.004465	1.389277	.2006428	.2039380
#3	1.274051	24.85179	.1087132	-.003498	1.420807	.2030143	.2047414

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.179316**	**-.068905**	**.0032045**	**-.009216**	**2.776519**	**2.487788**	**4.733613**
Stddev	.027666	.005687	.0000292	.001484	.014123	.011657	.019193
%RSD	.8701948	8.253931	.9095675	16.10075	.5086606	.4685631	.4054725
#1	3.211253	-.072391	.0032381	-.007678	2.770267	2.500562	4.737881
#2	3.163995	-.071983	.0031861	-.010638	2.766602	2.485077	4.750313
#3	3.162700	-.062342	.0031892	-.009332	2.792689	2.477726	4.712645

Sample Name: O5293-03 Acquired: 11/9/2023 15:02:21 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2487638	.0539605	-.054113
Stddev	.0028538	.0036627	.000464
%RSD	1.147200	6.787687	.8582008
#1	.2468253	.0521027	-.054051
#2	.2474251	.0581798	-.053682
#3	.2520408	.0515991	-.054605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2107.559	39532.45	6380.525	2058.420	2230.544
Stddev	5.198	50.68	4.012	4.960	8.725
%RSD	.2466348	.1281985	.0628735	.2409723	.3911589
#1	2105.199	39527.43	6380.908	2060.564	2227.526
#2	2103.959	39585.45	6376.336	2061.947	2223.729
#3	2113.518	39484.46	6384.332	2052.748	2240.377

Sample Name: O5293-04 Acquired: 11/9/2023 15:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0088150	-.004270	.2319758	-.013646	.0018441	95.52500	.4092074
Stddev	.0015252	.009365	.0046094	.002470	.0027439	.75757	.0031888
%RSD	17.30244	219.3292	1.987018	18.09751	148.7902	.7930589	.7792556
#1	.0084959	-.001135	.2339505	-.013907	.0008851	94.65024	.4061514
#2	.0074746	.003126	.2352688	-.015974	.0049388	95.96213	.4125141
#3	.0104745	-.014801	.2267080	-.011056	-.000291	95.96264	.4089566

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045580	.0073323	70.85773	.1656847	.1108161	.3046828	185.1461
Stddev	.0000427	.0001610	.55419	.0002446	.0007313	.0029856	1.1143
%RSD	.9375268	2.195996	.7821118	.1476567	.6599263	.9799154	.6018575
#1	.0045430	.0073700	70.24018	.1654243	.1106950	.3073301	184.3871
#2	.0045248	.0071558	71.31177	.1657200	.1116004	.3052716	186.4254
#3	.0046062	.0074712	71.02123	.1659097	.1101529	.3014466	184.6259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.505131	40.00329	.1764042	-.005693	.9301754	.3265275	.4473711
Stddev	.036892	.31188	.0005535	.000897	.0193640	.0008447	.0031418
%RSD	.8188779	.7796404	.3137484	15.75133	2.081755	.2586997	.7022880
#1	4.466048	39.64325	.1768836	-.006483	.9087973	.3274977	.4440793
#2	4.509997	40.17629	.1765304	-.005878	.9465385	.3261302	.4476962
#3	4.539349	40.19034	.1757985	-.004718	.9351904	.3259547	.4503377

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.857356	-.126705	.0023049	-.008349	3.741185	4.389213	6.676844
Stddev	.097557	.004694	.0004405	.000724	.029851	.030953	.022293
%RSD	1.665549	3.704338	19.11317	8.675813	.7979044	.7052037	.3338787
#1	5.806674	-.129475	.0028112	-.007513	3.707103	4.369242	6.701293
#2	5.969822	-.121286	.0020087	-.008795	3.762688	4.424869	6.671593
#3	5.795570	-.129355	.0020949	-.008739	3.753763	4.373529	6.657645

Sample Name: O5293-04 Acquired: 11/9/2023 15:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.326490	.0995516	.0696733
Stddev	.013462	.0013550	.0018247
%RSD	1.014865	1.361061	2.618933
#1	1.336967	.0980746	.0686493
#2	1.311306	.1007370	.0685907
#3	1.331196	.0998431	.0717800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2278.605	42804.45	6831.944	2198.058	2300.776
Stddev	12.494	77.45	22.791	8.042	12.203
%RSD	.5483048	.1809404	.3335997	.3658544	.5303687
#1	2270.571	42781.59	6850.395	2207.339	2293.662
#2	2272.246	42741.00	6838.970	2193.161	2293.800
#3	2292.999	42890.76	6806.467	2193.675	2314.866

Sample Name: O5293-05 Acquired: 11/9/2023 15:10:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0028048**	**-.009807**	**.0132732**	**-.008792**	**-.000235**	**44.61650**	**.1604169**
Stddev	.0080899	.008952	.0012198	.003579	.002259	.18755	.0006500
%RSD	288.4251	91.28025	9.190005	40.70625	961.5822	.4203698	.4052137
#1	.0062272	-.013940	.0146447	-.008533	-.002640	44.66885	.1601962
#2	.0086211	-.015947	.0128650	-.005350	.001844	44.77232	.1611485
#3	-.006434	.000465	.0123098	-.012494	.000090	44.40834	.1599059

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024658**	**.0029591**	**28.89361**	**.0903941**	**.0615462**	**.1772105**	**100.1669**
Stddev	.0000174	.0001076	.17864	.0008311	.0006127	.0009331	.4737
%RSD	.7054099	3.636306	.6182635	.9194440	.9954989	.5265448	.4729540
#1	.0024848	.0028492	28.93710	.0897048	.0613248	.1762219	100.4646
#2	.0024507	.0029638	29.04648	.0913171	.0622388	.1773339	100.4154
#3	.0024618	.0030642	28.69724	.0901606	.0610749	.1780758	99.6206

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.789711**	**20.86991**	**.0937806**	**-.004095**	**1.956912**	**.1726746**	**.1626354**
Stddev	.009538	.12400	.0001093	.000956	.004732	.0011169	.0007133
%RSD	.3418886	.5941687	.1165512	23.33698	.2418221	.6468120	.4386114
#1	2.794133	20.99907	.0937009	-.004075	1.958275	.1731834	.1628792
#2	2.796235	20.85884	.0937358	-.005060	1.960813	.1713939	.1618321
#3	2.778764	20.75181	.0939052	-.003149	1.951648	.1734466	.1631949

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.136875**	**-.088557**	**.0019511**	**-.008246**	**2.560523**	**4.462773**	**4.136163**
Stddev	.068554	.003524	.0003094	.001273	.016404	.016073	.008339
%RSD	1.117084	3.979028	15.85843	15.44240	.6406500	.3601622	.2016146
#1	6.193676	-.084921	.0019643	-.009680	2.572851	4.469493	4.142698
#2	6.156221	-.088793	.0022538	-.007809	2.566813	4.474395	4.139020
#3	6.060726	-.091956	.0016354	-.007249	2.541905	4.444430	4.126771

Sample Name: O5293-05 Acquired: 11/9/2023 15:10:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2018455	.0336706	.0282718
Stddev	.0014857	.0026485	.0001976
%RSD	.7360381	7.865963	.6988679
#1	.2014495	.0365207	.0280474
#2	.2034890	.0332059	.0284196
#3	.2005979	.0312852	.0283486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2216.006	42412.71	6484.635	2162.635	2375.902
Stddev	4.747	79.76	12.776	3.837	8.147
%RSD	.2142143	.1880545	.1970219	.1774148	.3428812
#1	2217.328	42418.84	6480.250	2162.463	2375.759
#2	2210.738	42330.07	6474.630	2166.555	2367.828
#3	2219.952	42489.23	6499.027	2158.887	2384.120

Sample Name: O5293-06 Acquired: 11/9/2023 15:13:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0026878	-.006455	.0148234	-.014451	-.002188	43.18940	.1479668
Stddev	.0010135	.007909	.0021064	.003331	.003593	.29595	.0021265
%RSD	37.70546	122.5173	14.21020	23.04838	164.2392	.6852327	1.437117
#1	.0017289	-.002976	.0149439	-.012952	-.004923	42.86598	.1455342
#2	.0037482	-.015508	.0126593	-.018268	.001881	43.25553	.1488944
#3	.0025864	-.000883	.0168671	-.012133	-.003521	43.44668	.1494719

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022349	.0026204	23.81623	.0860964	.0626028	.1889092	94.27372
Stddev	.0000127	.0001270	.13313	.0006547	.0000200	.0003094	.26849
%RSD	.5680000	4.845211	.5589974	.7603788	.0319352	.1637942	.2847947
#1	.0022202	.0024746	23.67334	.0857546	.0625940	.1887145	93.96419
#2	.0022413	.0026804	23.83857	.0856833	.0625887	.1887472	94.41339
#3	.0022430	.0027063	23.93678	.0868512	.0626257	.1892660	94.44358

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.239151	25.30295	.1026562	-.003705	2.068533	.1402985	.1894842
Stddev	.016771	.18382	.0004728	.000141	.017863	.0031457	.0006066
%RSD	.7489836	.7264632	.4605639	3.796608	.8635679	2.242139	.3201334
#1	2.219899	25.15209	.1029862	-.003750	2.048065	.1422627	.1892678
#2	2.250591	25.24909	.1021145	-.003818	2.080981	.1366703	.1890155
#3	2.246962	25.50768	.1028678	-.003547	2.076552	.1419624	.1901693

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.778070	-.087846	.0078394	-.006610	1.730195	3.478675	3.419078
Stddev	.017382	.001239	.0002177	.001270	.004118	.032294	.015215
%RSD	.3008222	1.410150	2.776330	19.21583	.2379806	.9283275	.4449912
#1	5.776035	-.086802	.0077173	-.006987	1.730096	3.459451	3.401715
#2	5.761795	-.087522	.0077103	-.005194	1.726128	3.515959	3.425439
#3	5.796380	-.089215	.0080907	-.007650	1.734361	3.460616	3.430080

Sample Name: O5293-06 Acquired: 11/9/2023 15:13:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2705293	.0474631	.0399651
Stddev	.0037988	.0020499	.0006662
%RSD	1.404219	4.318974	1.666967
#1	.2744117	.0451976	.0391992
#2	.2703562	.0480016	.0404105
#3	.2668199	.0491900	.0402856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2137.852	40992.02	6252.740	2081.278	2348.102
Stddev	5.157	83.20	5.087	3.649	5.754
%RSD	.2412311	.2029703	.0813500	.1753263	.2450360
#1	2141.187	40898.70	6248.096	2079.798	2353.789
#2	2140.458	41018.90	6258.176	2078.602	2348.234
#3	2131.912	41058.45	6251.947	2085.435	2342.284

Sample Name: O5293-07 Acquired: 11/9/2023 15:17:45 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0062794	-.015986	.0393242	-.020359	-.001336	70.67410	.2190914
Stddev	.0031643	.005987	.0021201	.007804	.002363	.20891	.0013270
%RSD	50.39131	37.45149	5.391297	38.33148	176.8551	.2955967	.6057004
#1	.0033039	-.022595	.0417722	-.019940	.000248	70.87263	.2189478
#2	.0059307	-.014435	.0380913	-.028364	-.004052	70.45617	.2204844
#3	.0096036	-.010926	.0381090	-.012773	-.000204	70.69351	.2178420

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036817	.0046066	64.06207	.1266244	.0899713	.2118683	152.7770
Stddev	.0000305	.0000756	.20127	.0005851	.0010397	.0015083	.9874
%RSD	.8290360	1.641730	.3141750	.4620339	1.155558	.7119255	.6462737
#1	.0036979	.0046752	64.25178	.1259514	.0908988	.2121646	151.6423
#2	.0037007	.0045255	63.85096	.1270116	.0888475	.2102338	153.4407
#3	.0036465	.0046191	64.08347	.1269102	.0901677	.2132066	153.2478

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.134698	33.65480	.1449841	-.004771	1.118059	.2649448	.2580772
Stddev	.010790	.10750	.0003844	.000628	.003199	.0033217	.0023659
%RSD	.5054373	.3194187	.2651280	13.16034	.2861277	1.253715	.9167321
#1	2.146405	33.77889	.1448474	-.005470	1.114934	.2683642	.2601675
#2	2.125152	33.58988	.1446868	-.004589	1.117915	.2617303	.2555088
#3	2.132538	33.59564	.1454182	-.004255	1.121327	.2647400	.2585554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.397556	-.122032	.0036998	-.008510	3.247310	5.360099	4.913065
Stddev	.099176	.009077	.0004839	.000471	.007619	.039925	.018162
%RSD	1.340659	7.438145	13.07843	5.534851	.2346369	.7448554	.3696587
#1	7.284930	-.132475	.0039779	-.008740	3.256011	5.357521	4.899787
#2	7.435915	-.116041	.0039804	-.008823	3.241830	5.401250	4.905647
#3	7.471824	-.117579	.0031411	-.007969	3.244089	5.321525	4.933761

Sample Name: O5293-07 Acquired: 11/9/2023 15:17:45 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5102130	.0769665	.1181012
Stddev	.0027679	.0019613	.0023475
%RSD	.5425043	2.548243	1.987658
#1	.5123248	.0765999	.1207403
#2	.5112348	.0752144	.1162459
#3	.5070794	.0790852	.1173174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2208.307	42500.45	6606.841	2160.085	2317.646
Stddev	5.925	72.66	58.084	13.351	5.547
%RSD	.2683223	.1709740	.8791520	.6180771	.2393388
#1	2212.423	42489.67	6545.701	2147.116	2318.418
#2	2210.982	42577.91	6661.290	2173.787	2322.766
#3	2201.516	42433.78	6613.533	2159.353	2311.753

Sample Name: O5293-08 Acquired: 11/9/2023 15:21:34 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.003493**	**-.007371**	**.0196826**	**-.009232**	**-.002614**	**41.14322**	**.1673334**
Stddev	.006166	.006994	.0015163	.005222	.002007	.17266	.0014968
%RSD	176.5091	94.88296	7.703674	56.56544	76.77864	.4196667	.8944817
#1	.003021	-.006905	.0193741	-.003319	-.000599	41.02828	.1683791
#2	-.004261	-.014587	.0213294	-.013212	-.004612	41.05960	.1656188
#3	-.009238	-.000622	.0183442	-.011167	-.002630	41.34177	.1680023

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027946**	**.0037586**	**26.50047**	**.1182885**	**.0667173**	**.1519054**	**121.2906**
Stddev	.0000309	.0001753	.07956	.0003753	.0001705	.0010782	1.1334
%RSD	1.107124	4.663702	.3002037	.3173199	.2556089	.7097855	.9344548
#1	.0027595	.0037621	26.41117	.1186883	.0666413	.1531362	120.0097
#2	.0028180	.0039322	26.52643	.1182336	.0665980	.1511275	122.1637
#3	.0028063	.0035816	26.56380	.1179437	.0669127	.1514526	121.6983

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.545771**	**18.70525**	**.1139108**	**-.004443**	**2.314295**	**.2105993**	**.1739750**
Stddev	.006557	.11236	.0005054	.000282	.030034	.0014672	.0004911
%RSD	.4241592	.6006642	.4437093	6.347711	1.297773	.6966652	.2823118
#1	1.539067	18.60559	.1134898	-.004657	2.280604	.2092276	.1734079
#2	1.546078	18.68316	.1144714	-.004124	2.338263	.2121462	.1742572
#3	1.552169	18.82702	.1137713	-.004548	2.324018	.2104241	.1742600

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.354007**	**-.091266**	**.0023308**	**-.008349**	**2.594894**	**5.103107**	**6.652368**
Stddev	.063569	.007895	.0006929	.001086	.008048	.011681	.014853
%RSD	1.460002	8.650056	29.72888	13.00261	.3101543	.2289020	.2232799
#1	4.284355	-.099934	.0019942	-.007104	2.587499	5.089948	6.651547
#2	4.408893	-.084489	.0018705	-.009099	2.593717	5.112250	6.637942
#3	4.368774	-.089373	.0031277	-.008844	2.603466	5.107124	6.667615

Sample Name: O5293-08 Acquired: 11/9/2023 15:21:34 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0973460	.0374934	.0206747
Stddev	.0053086	.0015524	.0009785
%RSD	5.453300	4.140471	4.732745
#1	.1007208	.0360882	.0214904
#2	.0912270	.0391599	.0195898
#3	.1000901	.0372322	.0209439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2266.822	43174.78	6808.620	2212.156	2322.344
Stddev	7.958	115.45	33.955	2.571	4.488
%RSD	.3510844	.2674060	.4987069	.1162056	.1932655
#1	2261.875	43266.84	6772.373	2211.954	2318.916
#2	2276.003	43045.25	6839.688	2209.692	2327.424
#3	2262.589	43212.25	6813.797	2214.822	2320.692

Sample Name: O5295-01 Acquired: 11/9/2023 15:25:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0141991	-.011215	.1710550	-.008213	-.005996	113.8271	.8765454
Stddev	.0045884	.001219	.0028442	.001410	.003344	.3922	.0041505
%RSD	32.31468	10.87187	1.662716	17.16974	55.77291	.3445467	.4735072
#1	.0189937	-.010983	.1727256	-.009678	-.006998	114.2273	.8812809
#2	.0137545	-.012533	.1726684	-.006865	-.002266	113.4434	.8748166
#3	.0098492	-.010128	.1677710	-.008096	-.008726	113.8106	.8735387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121481	.0131243	11.92916	.1414314	.1362795	.1565843	156.6772
Stddev	.0000801	.0007399	.02002	.0008124	.0020870	.0029771	1.0759
%RSD	.6595852	5.637408	.1678129	.5744059	1.531379	1.901277	.6867155
#1	.0122051	.0133052	11.95186	.1407200	.1380655	.1588748	156.1699
#2	.0121827	.0137569	11.92161	.1412577	.1367876	.1576589	155.9488
#3	.0120565	.0123107	11.91402	.1423166	.1339854	.1532190	157.9131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.977996	32.74753	.2440069	-.004845	6.050880	.2306861	.6209577
Stddev	.015746	.14561	.0036961	.000375	.038265	.0008423	.0021197
%RSD	.3958336	.4446446	1.514739	7.732010	.6323909	.3651284	.3413631
#1	3.992582	32.87521	.2468629	-.005216	6.014159	.2315560	.6220484
#2	3.961302	32.58895	.2453254	-.004853	6.047959	.2298745	.6185147
#3	3.980104	32.77843	.2398324	-.004467	6.090522	.2306277	.6223100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.74060	-.074608	.0008071	-.001032	2.248190	2.633801	7.671754
Stddev	.07230	.009351	.0003696	.002209	.010586	.012357	.112028
%RSD	.6157907	12.53406	45.79164	213.9687	.4708702	.4691847	1.460262
#1	11.65712	-.082174	.0006133	.001077	2.259078	2.648009	7.752597
#2	11.78328	-.077497	.0012333	-.000846	2.237934	2.625553	7.718789
#3	11.78139	-.064153	.0005748	-.003328	2.247559	2.627841	7.543877

Sample Name: O5295-01 Acquired: 11/9/2023 15:25:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.635482	.1016945	-.079221
Stddev	.034858	.0011918	.001016
%RSD	2.131366	1.171915	1.282790
#1	1.632921	.1005501	-.078408
#2	1.671550	.1016049	-.078895
#3	1.601975	.1029286	-.080360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2961.642	55336.47	9101.887	2885.505	2170.737
Stddev	16.603	89.90	74.472	8.778	25.916
%RSD	.5606145	.1624644	.8182011	.3041968	1.193891
#1	2946.553	55352.91	9023.303	2876.719	2152.520
#2	2958.944	55417.01	9110.940	2894.274	2159.284
#3	2979.429	55239.48	9171.418	2885.522	2200.406

Sample Name: O5209-01 Acquired: 11/9/2023 15:29:12 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0023699**	**-.005139**	**.0027842**	**-.003902**	**-.000156**	**1.492063**
Stddev	.0061999	.002112	.0012866	.008619	.003453	.014226
%RSD	261.6081	41.09919	46.20979	220.8776	2209.621	.9534695
#1	.0023978	-.005712	.0039782	-.010906	-.003393	1.486284
#2	.0085558	-.006905	.0029529	.005723	.003479	1.508270
#3	-.003844	-.002799	.0014216	-.006523	-.000554	1.481636

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5388359**	**-.000008**	**.0002009**	**169.5745**	**.1194110**	**.0384050**
Stddev	.0007830	.000056	.0001596	.6529	.0008708	.0001782
%RSD	.1453213	727.4764	79.43214	.3850379	.7292397	.4638938
#1	.5379317	.000038	.0001840	168.8265	.1198704	.0382031
#2	.5392866	-.000071	.0003683	170.0302	.1184067	.0385400
#3	.5392893	.000010	.0000505	169.8669	.1199559	.0384719

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019301**	**2.107084**	**.0832481**	**83.47885**	**.0676815**	**-.000107**
Stddev	.0012275	.010264	.0003322	.32395	.0004839	.000551
%RSD	63.60175	.4871034	.3990049	.3880653	.7149368	514.1581
#1	.0009499	2.099811	.0835571	83.15787	.0671825	.000294
#2	.0033069	2.118824	.0832904	83.80569	.0681487	-.000736
#3	.0015334	2.102616	.0828969	83.47301	.0677132	.000120

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1974.372**	**.0711459**	**.0269803**	**288.8404**	**5.168382**	**.0075173**
Stddev	9.496	.0005988	.0006314	1.6088	.010764	.0010011
%RSD	.4809393	.8417058	2.340414	.5569861	.2082591	13.31753
#1	1964.308	.0715651	.0273433	287.0102	5.171561	.0079529
#2	1983.172	.0714125	.0262512	289.4795	5.177198	.0082268
#3	1975.638	.0704600	.0273464	290.0314	5.156387	.0063722

Sample Name: O5209-01 Acquired: 11/9/2023 15:29:12 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0351529	.0251355	F 15.71825	.9381991	F 52.05079	.1111882
Stddev	.0036893	.0021950	.09915	.0099970	.11411	.0003583
%RSD	10.49509	8.732781	.6307672	1.065548	.2192261	.3222113
#1	.0391599	.0229976	15.60449	.9388727	51.99097	.1108565
#2	.0344021	.0250252	15.76402	.9278824	51.97903	.1115681
#3	.0318968	.0273835	15.78624	.9478423	52.18237	.1111398

Elem	Sr4077
Units	ppm
Avg	1.241936
Stddev	.005738
%RSD	.4619838
#1	1.235351
#2	1.245864
#3	1.244591

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1756.128	32060.04	5782.670	1674.902	1913.656
Stddev	1.047	102.55	18.318	5.149	1.081
%RSD	.0596399	.3198792	.3167824	.3074337	.0564737
#1	1757.330	32166.90	5792.914	1673.020	1912.498
#2	1755.410	31962.42	5761.521	1680.727	1913.833
#3	1755.643	32050.80	5793.575	1670.958	1914.638

Sample Name: CCV06 Acquired: 11/9/2023 15:33:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**5.217600**	**5.092349**	**5.059884**	**5.291708**	**5.070050**	**9.698095**	**9.628828**
Stddev	.003176	.045420	.005569	.006419	.006649	.084382	.067056
%RSD	.0608729	.8919223	.1100575	.1213011	.1311395	.8700897	.6964060
#1	5.216964	5.137469	5.066194	5.296741	5.077693	9.603319	9.554686
#2	5.214791	5.046635	5.057805	5.284479	5.066860	9.725902	9.646570
#3	5.221046	5.092942	5.055654	5.293902	5.065598	9.765065	9.685229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2408995**	**2.542612**	**24.15999**	**.9940889**	**2.491872**	**1.263925**	**5.035066**
Stddev	.0013091	.001041	.17959	.0012824	.002589	.002746	.055488
%RSD	.5434266	.0409473	.7433219	.1290056	.1038995	.2172366	1.102027
#1	.2403763	2.542922	23.95455	.9952162	2.494110	1.267088	4.971166
#2	.2399329	2.541450	24.23829	.9926937	2.489036	1.262161	5.062958
#3	.2423893	2.543462	24.28713	.9943569	2.492469	1.262525	5.071074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.452170**	**23.67598**	**2.487940**	**1.258594**	**26.72677**	**2.394526**	**2.505782**
Stddev	.019482	.17414	.002728	.000910	.19185	.019616	.004131
%RSD	.7944754	.7354970	.1096537	.0723110	.7178217	.8192154	.1648626
#1	2.430089	23.47577	2.490826	1.259554	26.52838	2.372036	2.501235
#2	2.466933	23.75994	2.485404	1.257744	26.91133	2.408105	2.509303
#3	2.459490	23.79223	2.487591	1.258484	26.74059	2.403438	2.506808

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.21504**	**4.783828**	**4.954821**	**4.995087**	**4.832306**	**5.348211**	**4.969633**
Stddev	.26552	.028138	.007239	.003409	.031681	.048049	.012764
%RSD	1.012838	.5881916	.1461049	.0682460	.6556044	.8984152	.2568309
#1	25.91076	4.789773	4.961089	4.991546	4.798172	5.301418	4.959851
#2	26.33464	4.753193	4.946897	4.995370	4.837980	5.397424	4.964976
#3	26.39972	4.808519	4.956476	4.998346	4.860767	5.345792	4.984071

Sample Name: CCV06 Acquired: 11/9/2023 15:33:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.306699	4.792912	5.028335
Stddev	.019140	.040128	.055585
%RSD	.3606800	.8372389	1.105443
#1	5.304930	4.746946	4.965478
#2	5.288504	4.810835	5.048517
#3	5.326662	4.820955	5.071011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.816	35255.06	5948.051	1820.173	2193.261
Stddev	4.293	157.99	1.661	9.169	2.703
%RSD	.2292379	.4481456	.0279182	.5037495	.1232340
#1	1868.588	35306.12	5946.383	1823.375	2191.161
#2	1872.689	35077.85	5949.704	1809.832	2192.312
#3	1877.171	35381.20	5948.067	1827.312	2196.311

Sample Name: CCB06 Acquired: 11/9/2023 15:37:05 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.002509	.0013317	.0006561	-.003362	.0016808	-.013690	-.005242
Stddev	.003736	.0033681	.0029107	.004242	.0016831	.011284	.003963
%RSD	148.9317	252.9180	443.6462	126.2041	100.1386	82.42526	75.60594
#1	-.006425	-.002539	.0024618	.000778	.0023321	-.000672	-.003307
#2	-.002118	.003595	-.002702	-.003162	.0029410	-.020682	-.002618
#3	.001017	.002939	.002208	-.007700	-.000231	-.019717	-.009802

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000204	.0000544	-.012431	-.000123	.0001657	-.000197	.0072685
Stddev	.0000530	.0001160	.011071	.000137	.0000697	.000395	.0047330
%RSD	259.8268	213.2430	89.06000	111.6550	42.07493	200.0578	65.11657
#1	-.000040	-.000068	-.004992	-.000269	.0000858	.000169	.0029935
#2	.000061	.000163	-.007147	-.000102	.0002144	-.000146	.0123546
#3	.000040	.000068	-.025155	.000003	.0001969	-.000615	.0064573

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001790	-.010411	.0005135	-.000115	.2498077	.0003850	.0000790
Stddev	.0005240	.015453	.0003177	.000231	.0308150	.0010954	.0002800
%RSD	292.7379	148.4258	61.86653	200.6799	12.33549	284.5439	354.3871
#1	.0006872	-.015889	.0004018	.000041	.2142418	.0011986	.0003521
#2	-.000360	-.022379	.0008720	-.000381	.2685203	.0008168	.0000924
#3	.000209	.007034	.0002668	-.000006	.2666609	-.000861	-.000207

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499944	.0093238	.0030170	-.001541	.0003807	.0215021	.0009545
Stddev	.0219553	.0004619	.0007897	.000262	.0006862	.0117244	.0022913
%RSD	8.782339	4.954043	26.17629	16.99886	180.2627	54.52697	240.0585
#1	.2247379	.0095569	.0038806	-.001593	.0007791	.0261617	.0033036
#2	.2607202	.0096227	.0028391	-.001772	-.000412	.0081642	.0008342
#3	.2645250	.0087918	.0023314	-.001257	.000775	.0301804	-.001274

Sample Name: CCB06 Acquired: 11/9/2023 15:37:05 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003949	.0066042	.0002186
Stddev	.0057176	.0014498	.0000888
%RSD	1447.995	21.95318	40.63917
#1	.0037337	.0055341	.0003211
#2	.0036579	.0082542	.0001707
#3	-.006207	.0060241	.0001640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1900.406	36178.54	5986.333	1877.866	2301.068
Stddev	48.818	113.89	15.597	4.857	62.995
%RSD	2.568844	.3147894	.2605495	.2586336	2.737652
#1	1844.126	36180.82	5972.574	1878.168	2228.328
#2	1931.315	36063.53	6003.277	1872.865	2337.108
#3	1925.777	36291.26	5983.146	1882.565	2337.767

Sample Name: PB156964BL Acquired: 11/9/2023 15:41:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0014927	-.002775	.0004004	.0002184	.0008502	-.003878	-.005610
Stddev	.0058661	.006302	.0005868	.0028507	.0014948	.004689	.001028
%RSD	392.9763	227.1209	146.5708	1305.348	175.8124	120.8884	18.32953
#1	-.005259	.002297	.0005188	-.002624	-.000788	-.007462	-.006777
#2	.004401	-.000792	.0009189	.000203	.001197	-.005601	-.005217
#3	.005337	-.009829	-.000237	.003077	.002141	.001428	-.004836

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000370	.0001573	-.015463	-.000214	.0003119	.0004467	.0027372
Stddev	.0000111	.0000772	.007973	.000473	.0004501	.0002544	.0077278
%RSD	29.86213	49.11179	51.56329	220.7122	144.3327	56.95177	282.3267
#1	.0000459	.0001833	-.023847	-.000527	.0007103	.0001552	.0002738
#2	.0000246	.0002182	-.007976	.000330	.0004016	.0005611	.0113963
#3	.0000406	.0000704	-.014567	-.000446	-.000176	.0006239	-.003459

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000336	-.007185	.0002012	.0001903	.1240213	.0010081	.0002202
Stddev	.000252	.018956	.0001280	.0010467	.0218081	.0011752	.0002302
%RSD	75.06226	263.8238	63.63991	549.9494	17.58417	116.5777	104.5233
#1	-.000480	-.014187	.0002142	-.000840	.1014783	-.000340	.0002730
#2	-.000482	-.021645	.0000671	.001252	.1255740	.001548	-.000032
#3	-.000045	.014276	.0003222	.000159	.1450115	.001816	.000419

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1581566	.0042903	.0011441	-.001621	.0007433	-.002681	-.004802
Stddev	.1117870	.0004467	.0003144	.000239	.0011994	.006986	.001762
%RSD	70.68120	10.41304	27.47749	14.74324	161.3606	260.5568	36.70009
#1	.2515394	.0040749	.0013597	-.001896	-.000535	.000420	-.006314
#2	.0342896	.0048039	.0012893	-.001480	.000922	.002218	-.005226
#3	.1886408	.0039920	.0007834	-.001485	.001843	-.010681	-.002867

Sample Name: PB156964BL Acquired: 11/9/2023 15:41:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012967	.0054025	-.000034
Stddev	.0019558	.0013811	.000027
%RSD	150.8338	25.56409	80.06178
#1	.0032123	.0066655	-.000046
#2	.0013749	.0039278	-.000003
#3	-.000697	.0056143	-.000054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1964.079	37176.71	5831.696	1919.530	2405.540
Stddev	3.973	148.40	11.185	10.439	7.007
%RSD	.2022786	.3991800	.1918043	.5438201	.2912749
#1	1959.752	37021.31	5821.217	1907.617	2399.036
#2	1967.563	37191.86	5843.475	1923.896	2412.960
#3	1964.922	37316.95	5830.396	1927.078	2404.625

Sample Name: PB156964BS Acquired: 11/9/2023 15:45:07 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.9011744**	**2.169248**	**1.061057**	**2.207412**	**.8462910**	**2.109710**
Stddev	.0190637	.060976	.025961	.051997	.0214720	.008275
%RSD	2.115427	2.810927	2.446684	2.355541	2.537195	.3922256
#1	.9127262	2.136422	1.070993	2.223109	.8533181	2.103001
#2	.8791707	2.131717	1.031596	2.149375	.8221858	2.107172
#3	.9116263	2.239604	1.080582	2.249751	.8633691	2.118956

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920070**	**.2135294**	**.2153214**	**1.095215**	**.4269709**	**.2116304**
Stddev	.0025061	.0002515	.0049115	.018206	.0002185	.0052361
%RSD	1.305225	.1177923	2.281026	1.662338	.0511713	2.474155
#1	.1923316	.2137779	.2166571	1.074577	.4269681	.2133463
#2	.1943350	.2132750	.2098802	1.102067	.4271908	.2057517
#3	.1893544	.2135352	.2194270	1.109002	.4267539	.2157932

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3291443**	**3.177108**	**.2160148**	**2.068999**	**.5285684**	**.0811605**
Stddev	.0087017	.031871	.0015862	.020571	.0117042	.0001661
%RSD	2.643740	1.003131	.7343109	.9942438	2.214325	.2047025
#1	.3318261	3.140448	.2142292	2.045258	.5315346	.0812223
#2	.3194173	3.192647	.2165543	2.080202	.5156665	.0812869
#3	.3361894	3.198228	.2172609	2.081536	.5385042	.0809723

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.320276**	**.3115661**	**.2171395**	**10.78065**	**.3157762**	**.4207918**
Stddev	.057589	.0059310	.0009383	.05964	.0013476	.0090890
%RSD	1.734457	1.903607	.4321176	.5532457	.4267554	2.159987
#1	3.254695	.3047442	.2181824	10.71184	.3157339	.4228060
#2	3.343539	.3144549	.2163637	10.81748	.3144503	.4108646
#3	3.362595	.3154993	.2168724	10.81263	.3171445	.4287048

Sample Name: PB156964BS Acquired: 11/9/2023 15:45:07 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7381116	.2082405	.9761559	6.094975	F -.009446	.2178950
Stddev	.0160913	.0020813	.0129864	.152437	.003409	.0040086
%RSD	2.180059	.9994819	1.330358	2.501027	36.08872	1.839698
#1	.7416595	.2070529	.9727084	6.143865	-.012388	.2173813
#2	.7205424	.2070248	.9652412	5.924091	-.005710	.2141679
#3	.7521328	.2106437	.9905182	6.216968	-.010239	.2221356

Elem	Sr4077
Units	ppm
Avg	.2187007
Stddev	.0011837
%RSD	.5412435
#1	.2173422
#2	.2192492
#3	.2195106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1927.101	36167.08	5829.652	1875.610	2322.426
Stddev	37.768	33.21	4.849	5.823	44.597
%RSD	1.959814	.0918194	.0831833	.3104771	1.920262
#1	1909.296	36180.16	5824.117	1869.194	2302.636
#2	1970.480	36129.32	5833.151	1877.075	2373.493
#3	1901.527	36191.76	5831.688	1880.561	2291.149

Sample Name: O5249-01 Acquired: 11/9/2023 15:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.001192**	**-.007226**	**.0156077**	**-.007675**	**.0022715**	**.8517097**
Stddev	.006376	.004984	.0010525	.003430	.0023718	.0141420
%RSD	535.1227	68.96826	6.743430	44.69744	104.4116	1.660421
#1	-.007915	-.007747	.0149050	-.006346	.0037715	.8606381
#2	-.000429	-.002002	.0151003	-.005107	.0035059	.8590864
#3	.004769	-.011929	.0168177	-.011571	-.000463	.8354045

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0645835**	**.0001348**	**.0004215**	**117.4216**	**.0050633**	**.0027278**
Stddev	.0001388	.0000236	.0000498	.5477	.0004422	.0002510
%RSD	.2149391	17.49383	11.82342	.4664279	8.732844	9.201900
#1	.0645784	.0001327	.0004474	118.0415	.0053554	.0024674
#2	.0647248	.0001594	.0003641	117.0033	.0052799	.0027477
#3	.0644474	.0001124	.0004531	117.2199	.0045546	.0029682

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185208**	**11.04643**	**.4528570**	**8.125400**	**.0086948**	**-.000435**
Stddev	.0001318	.05737	.0036903	.063971	.0003747	.000964
%RSD	.7116585	.5193229	.8149040	.7872944	4.309915	221.8718
#1	.0185924	11.01076	.4570771	8.191919	.0090830	-.000954
#2	.0183688	11.11261	.4502353	8.064326	.0086662	.000678
#3	.0186014	11.01593	.4512585	8.119956	.0083352	-.001029

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.93665**	**.0068102**	**.2292508**	**12.17406**	**.0777087**	**.0026877**
Stddev	.10196	.0018667	.0000951	.02193	.0006780	.0004718
%RSD	.4088663	27.41124	.0415009	.1801434	.8724789	17.55440
#1	24.81938	.0052937	.2292011	12.14974	.0776999	.0027354
#2	25.00423	.0088950	.2291907	12.18011	.0783910	.0021939
#3	24.98636	.0062417	.2293604	12.19233	.0770351	.0031339

Sample Name: O5249-01 Acquired: 11/9/2023 15:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006714	.0399342	F 12.39152	1.437266	2.607857	.0167305
Stddev	.001772	.0006468	.04745	.003420	.003129	.0024929
%RSD	26.39935	1.619619	.3829162	.2379671	.1199797	14.90009
#1	-.008664	.0396517	12.42426	1.441215	2.604318	.0191161
#2	-.005202	.0406742	12.41320	1.435331	2.610258	.0141427
#3	-.006276	.0394767	12.33710	1.435251	2.608993	.0169326

Elem	Sr4077
Units	ppm
Avg	.3798861
Stddev	.0023234
%RSD	.6116172
#1	.3825685
#2	.3784978
#3	.3785922

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.210	38723.18	6206.826	2020.557	2458.698
Stddev	3.582	75.57	51.428	4.242	3.174
%RSD	.1738703	.1951468	.8285746	.2099601	.1290801
#1	2057.305	38681.19	6151.281	2022.217	2457.350
#2	2064.212	38810.42	6252.789	2023.719	2462.324
#3	2059.112	38677.94	6216.408	2015.736	2456.422

Sample Name: O5249-01DUP Acquired: 11/9/2023 15:52:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000303**	**-.000694**	**.0155995**	**-.003547**	**.0014748**	**.9173920**
Stddev	.004034	.005748	.0014335	.001228	.0036163	.0155793
%RSD	1330.941	827.7485	9.189377	34.63571	245.2153	1.698217
#1	.000070	.001211	.0139447	-.002665	.0051341	.9297076
#2	.003531	.003859	.0164623	-.004950	-.002097	.9225902
#3	-.004510	-.007154	.0163914	-.003025	.001387	.8998782

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0675625**	**.0001266**	**.0002918**	**118.0987**	**.0050331**	**.0025804**
Stddev	.0017243	.0000277	.0001236	.9026	.0008987	.0000749
%RSD	2.552172	21.88759	42.36322	.7642618	17.85616	2.902042
#1	.0695503	.0001269	.0001501	119.1184	.0060366	.0025637
#2	.0664692	.0001542	.0003777	117.4022	.0043025	.0026622
#3	.0666681	.0000988	.0003476	117.7755	.0047602	.0025153

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185020**	**11.35121**	**.4549122**	**8.196315**	**.0079556**	**-.000347**
Stddev	.0005867	.77183	.0014256	.094417	.0000978	.000335
%RSD	3.170919	6.799539	.3133681	1.151948	1.229745	96.58129
#1	.0178267	12.24145	.4561148	8.295244	.0080575	-.000595
#2	.0188862	10.86978	.4533375	8.186530	.0078624	.000034
#3	.0187931	10.94239	.4552843	8.107171	.0079470	-.000479

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.67640**	**.0063852**	**.2375003**	**12.55508**	**.0780353**	**.0032846**
Stddev	1.67918	.0070953	.0179186	.74041	.0039181	.0005610
%RSD	6.539778	111.1202	7.544682	5.897289	5.020886	17.07917
#1	27.61488	.0072216	.2581723	13.40627	.0824818	.0026517
#2	24.67003	.0130253	.2279253	12.06013	.0750891	.0037206
#3	24.74430	-.001091	.2264033	12.19884	.0765350	.0034815

Sample Name: O5249-01DUP Acquired: 11/9/2023 15:52:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006045	.0435203	F 12.89519	1.421973	2.583902	.0186823
Stddev	.001288	.0033672	.83652	.012870	.011850	.0033436
%RSD	21.30014	7.737044	6.487092	.9051005	.4586145	17.89708
#1	-.006914	.0437154	13.86104	1.420914	2.574774	.0150712
#2	-.004566	.0400599	12.40156	1.409664	2.579639	.0216708
#3	-.006656	.0467857	12.42296	1.435340	2.597295	.0193051

Elem	Sr4077
Units	ppm
Avg	.3825126
Stddev	.0011045
%RSD	.2887369
#1	.3837798
#2	.3817548
#3	.3820031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.664	37455.71	6122.207	1946.945	2460.393
Stddev	2.679	2359.64	42.852	120.423	5.522
%RSD	.1299845	6.299800	.6999419	6.185239	.2244374
#1	2062.969	34731.17	6073.326	1807.988	2465.050
#2	2061.298	38841.24	6153.301	2011.953	2461.837
#3	2057.726	38794.72	6139.995	2020.893	2454.293

Sample Name: O5249-01MS Acquired: 11/9/2023 15:56:50 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.9087679**	**2.165956**	**1.051991**	**2.195935**	**.8555066**	**3.084757**
Stddev	.0040492	.053342	.000536	.013277	.0041066	.014840
%RSD	.4455718	2.462768	.0509941	.6045992	.4800153	.4810730
#1	.9051582	2.180002	1.051636	2.180646	.8520397	3.097965
#2	.9131464	2.106996	1.051729	2.202608	.8600417	3.087608
#3	.9079991	2.210871	1.052608	2.204552	.8544384	3.068699

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2580403**	**.2073960**	**.2087088**	**113.8686**	**.4175668**	**.2085157**
Stddev	.0009229	.0002969	.0005512	.2883	.0002241	.0001553
%RSD	.3576435	.1431679	.2640896	.2532110	.0536614	.0744527
#1	.2570027	.2076868	.2084350	114.1179	.4178070	.2086234
#2	.2583487	.2074078	.2083482	113.9351	.4175301	.2083378
#3	.2587695	.2070933	.2093433	113.5529	.4173634	.2085859

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3351993**	**14.06515**	**.6433159**	**9.807454**	**.5187881**	**.0772970**
Stddev	.0014212	.07360	.0024303	.068404	.0006242	.0005535
%RSD	.4239739	.5232606	.3777733	.6974666	.1203205	.7160815
#1	.3362795	14.06411	.6457415	9.880551	.5184608	.0778926
#2	.3335894	14.13926	.6408810	9.744988	.5183956	.0772001
#3	.3357292	13.99208	.6433254	9.796824	.5195079	.0767984

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.39941**	**.3086508**	**.4266117**	**22.38507**	**.3760359**	**.4348477**
Stddev	.04829	.0035022	.0031712	.12062	.0017664	.0012065
%RSD	.1762518	1.134669	.7433376	.5388489	.4697282	.2774425
#1	27.44355	.3082861	.4273113	22.26609	.3776281	.4347758
#2	27.40686	.3123211	.4231492	22.38186	.3741359	.4360885
#3	27.34783	.3053453	.4293747	22.50727	.3763439	.4336788

Sample Name: O5249-01MS Acquired: 11/9/2023 15:56:50 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7586966	.2519216	F 13.41406	7.666816	2.700452	.2189548
Stddev	.0035549	.0022309	.01450	.009863	.014109	.0007218
%RSD	.4685583	.8855590	.1081062	.1286507	.5224575	.3296516
#1	.7575707	.2497118	13.40101	7.663108	2.691408	.2188648
#2	.7558409	.2518799	13.42967	7.659345	2.693240	.2197173
#3	.7626782	.2541731	13.41149	7.677996	2.716709	.2182821

Elem	Sr4077
Units	ppm
Avg	.5759430
Stddev	.0013533
%RSD	.2349656
#1	.5775056
#2	.5751520
#3	.5751714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1978.586	37263.56	6099.494	1947.579	2339.337
Stddev	3.167	11.00	6.037	8.301	3.176
%RSD	.1600667	.0295194	.0989780	.4262246	.1357812
#1	1978.992	37273.97	6092.905	1942.277	2340.801
#2	1975.235	37264.66	6100.818	1957.145	2341.517
#3	1981.530	37252.06	6104.759	1943.314	2335.693

Sample Name: O5249-01MSD Acquired: 11/9/2023 16:00:35 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.9473762	2.207939	1.097443	2.285155	.8753849	3.193594
Stddev	.0091502	.068258	.009935	.020042	.0079427	.069014
%RSD	.9658498	3.091488	.9052856	.8770674	.9073319	2.161025
#1	.9428136	2.283608	1.091223	2.272998	.8675809	3.269127
#2	.9414044	2.151005	1.092205	2.274179	.8751146	3.133827
#3	.9579106	2.189205	1.108901	2.308288	.8834593	3.177827

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2708017	.2184194	.2170363	115.2673	.4342790	.2165982
Stddev	.0050170	.0035930	.0016588	1.6521	.0018746	.0023338
%RSD	1.852657	1.644988	.7642868	1.433313	.4316649	1.077469
#1	.2765939	.2224448	.2157817	117.1725	.4321587	.2143698
#2	.2679980	.2155371	.2164102	114.2299	.4349620	.2164001
#3	.2678132	.2172761	.2189170	114.3994	.4357164	.2190247

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3493211	14.20095	.6576941	9.983151	.5406904	.0806362
Stddev	.0020786	.05520	.0099023	.154311	.0038404	.0004980
%RSD	.5950315	.3887209	1.505608	1.545712	.7102759	.6175524
#1	.3474468	14.15801	.6689999	10.16078	.5388356	.0800776
#2	.3489600	14.18162	.6505613	9.88215	.5381294	.0810336
#3	.3515566	14.26322	.6535212	9.90652	.5451061	.0807975

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.67045	.3255408	.4368432	22.93732	.3929065	.4422392
Stddev	.10543	.0060968	.0005239	.11796	.0051280	.0044317
%RSD	.3810130	1.872832	.1199380	.5142693	1.305147	1.002106
#1	27.56534	.3325685	.4369495	22.80551	.3984780	.4397861
#2	27.66980	.3223882	.4373059	23.03294	.3918574	.4395765
#3	27.77619	.3216658	.4362743	22.97352	.3883842	.4473551

Sample Name: O5249-01MSD Acquired: 11/9/2023 16:00:35 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7680027	.2673589	F 13.83997	7.929940	2.716423	.2324071
Stddev	.0056862	.0059756	.05965	.060654	.029674	.0049679
%RSD	.7403912	2.235043	.4310052	.7648698	1.092407	2.137587
#1	.7629589	.2741288	13.86245	7.901437	2.716065	.2376197
#2	.7668841	.2651288	13.77235	7.888787	2.686930	.2277267
#3	.7741651	.2628191	13.88513	7.999595	2.746275	.2318749

Elem	Sr4077
Units	ppm
Avg	.5921232
Stddev	.0100289
%RSD	1.693710
#1	.6036634
#2	.5855190
#3	.5871871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1973.725	37149.94	6014.297	1941.321	2339.241
Stddev	16.827	158.58	89.627	5.985	18.620
%RSD	.8525486	.4268734	1.490227	.3082984	.7959854
#1	1986.906	37265.26	5913.110	1948.221	2354.092
#2	1979.498	37215.46	6083.702	1938.214	2345.281
#3	1954.771	36969.09	6046.079	1937.529	2318.351

Sample Name: O5249-01A Acquired: 11/9/2023 16:04:19 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.950625**	**4.707116**	**2.265579**	**4.303275**	**1.029488**	**5.349803**
Stddev	.016124	.128098	.003529	.008213	.003339	.024171
%RSD	.8265953	2.721368	.1557644	.1908448	.3243140	.4518108
#1	1.937497	4.812874	2.265212	4.312721	1.026086	5.377671
#2	1.968622	4.743794	2.262248	4.299278	1.029620	5.334542
#3	1.945756	4.564680	2.269277	4.297827	1.032760	5.337196

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4888014**	**.4473698**	**.4493343**	**118.1511**	**.8831494**	**.4482374**
Stddev	.0025803	.0005544	.0005898	.1951	.0006562	.0006474
%RSD	.5278731	.1239242	.1312538	.1651693	.0743022	.1444282
#1	.4860686	.4467499	.4489584	118.2706	.8827415	.4474916
#2	.4891401	.4475414	.4490305	117.9259	.8839063	.4486552
#3	.4911956	.4478181	.4500140	118.2568	.8828003	.4485652

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6993283**	**17.42535**	**.8948090**	**12.25520**	**1.112329**	**.1650291**
Stddev	.0011832	.00257	.0036390	.07017	.000517	.0003670
%RSD	.1691928	.0147694	.4066737	.5725561	.0464375	.2223965
#1	.6989104	17.42624	.8906192	12.18968	1.112259	.1647786
#2	.7006637	17.42245	.8971805	12.32924	1.111851	.1648583
#3	.6984107	17.42736	.8966272	12.24669	1.112877	.1654504

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.82837**	**.6765910**	**.6689738**	**34.25063**	**.7304829**	**.5245589**
Stddev	.02690	.0009992	.0010323	.08433	.0007064	.0004441
%RSD	.0872419	.1476782	.1543057	.2462228	.0967010	.0846640
#1	30.84861	.6758337	.6696036	34.34600	.7297169	.5240511
#2	30.79785	.6777234	.6695354	34.22001	.7311086	.5247513
#3	30.83865	.6762158	.6677825	34.18589	.7306234	.5248745

Sample Name: O5249-01A Acquired: 11/9/2023 16:04:19 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9001568	.2926176	F 13.34933	F 14.80952	2.517681	.4562331
Stddev	.0043877	.0022170	.03767	.01293	.008382	.0016255
%RSD	.4874353	.7576501	.2821609	.0873199	.3329183	.3562817
#1	.9040338	.2948833	13.37507	14.82104	2.524431	.4547531
#2	.8953937	.2904528	13.30610	14.79553	2.520312	.4559734
#3	.9010428	.2925167	13.36683	14.81199	2.508299	.4579728

Elem	Sr4077
Units	ppm
Avg	.8331725
Stddev	.0025436
%RSD	.3052857
#1	.8303624
#2	.8338381
#3	.8353172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2001.843	38353.71	6106.207	1977.134	2368.190
Stddev	3.002	81.75	12.481	11.540	4.346
%RSD	.1499838	.2131544	.2043929	.5836540	.1835251
#1	2001.123	38378.13	6115.469	1966.096	2368.015
#2	2005.139	38262.53	6092.014	1976.190	2372.622
#3	1999.265	38420.47	6111.137	1989.117	2363.934

Sample Name: O5249-01LX5 Acquired: 11/9/2023 16:08:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000578**	**.0002516**	**.0051254**	**.0026396**	**.0045896**	**.1777781**	**.0103572**
Stddev	.005345	.0023589	.0017421	.0029645	.0015707	.0127146	.0010968
%RSD	924.4516	937.7729	33.98885	112.3062	34.22401	7.151958	10.59004
#1	-.000562	-.002335	.0050519	.0034954	.0037175	.1771011	.0107484
#2	.004758	.002285	.0034213	-.000659	.0064029	.1908177	.0091184
#3	-.005931	.000804	.0069031	.005082	.0036484	.1654156	.0112047

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000669**	**.0001732**	**24.38777**	**.0005014**	**.0006025**	**.0038607**	**2.271881**
Stddev	.0000559	.0001412	.09062	.0002548	.0002069	.0007187	.040498
%RSD	83.56819	81.55894	.3715619	50.82000	34.33150	18.61557	1.782571
#1	.0001301	.0000952	24.35139	.0003330	.0003638	.0046720	2.281122
#2	.0000237	.0000881	24.32100	.0007945	.0007288	.0033037	2.306959
#3	.0000470	.0003362	24.49092	.0003766	.0007149	.0036065	2.227561

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0944153**	**1.733907**	**.0020197**	**-.000174**	**5.133620**	**.0036226**	**.0458960**
Stddev	.0003130	.024361	.0003516	.000381	.093945	.0018970	.0013155
%RSD	.3314728	1.404999	17.40883	218.9295	1.830001	52.36559	2.866185
#1	.0940595	1.751154	.0018184	-.000387	5.175402	.0039788	.0468479
#2	.0946478	1.706038	.0024257	.000266	5.199426	.0015728	.0464452
#3	.0945387	1.744529	.0018150	-.000400	5.026032	.0053163	.0443950

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.599192**	**.0169956**	**.0014922**	**-.002234**	**.0102585**	**2.500299**	**.2797626**
Stddev	.044870	.0019165	.0002151	.000572	.0020680	.061452	.0060912
%RSD	1.726305	11.27626	14.41740	25.62562	20.15883	2.457793	2.177258
#1	2.549840	.0182098	.0016249	-.002790	.0122909	2.530700	.2850292
#2	2.637527	.0147863	.0016077	-.002265	.0103280	2.540624	.2730921
#3	2.610210	.0179907	.0012440	-.001646	.0081566	2.429572	.2811666

Sample Name: O5249-01LX5 Acquired: 11/9/2023 16:08:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5184092	.0058551	.0794655
Stddev	.0043676	.0011170	.0001947
%RSD	.8425082	19.07786	.2450713
#1	.5141791	.0045965	.0792426
#2	.5181460	.0062404	.0795517
#3	.5229025	.0067285	.0796024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.222	37357.93	5841.927	1919.222	2353.999
Stddev	3.318	691.69	33.773	36.390	1.210
%RSD	.1706599	1.851530	.5781222	1.896073	.0513939
#1	1946.775	36906.64	5813.719	1899.068	2354.375
#2	1940.471	37012.88	5879.352	1897.367	2354.977
#3	1945.419	38154.27	5832.711	1961.229	2352.646

Sample Name: O5249-02 Acquired: 11/9/2023 16:12:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0062608**	**-.000810**	**.0155475**	**-.006707**	**.0004166**	**.7324114**
Stddev	.0033068	.007241	.0002488	.007791	.0013623	.0066992
%RSD	52.81739	893.8399	1.600157	116.1712	327.0392	.9146699
#1	.0100423	-.004475	.0153631	.002125	.0015419	.7366060
#2	.0048285	.007531	.0154489	-.012606	-.001098	.7246854
#3	.0039116	-.005486	.0158304	-.009640	.000806	.7359429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0678307**	**.0001016**	**.0002518**	**119.8517**	**.0036827**	**.0027831**
Stddev	.0007372	.0000491	.0000747	.1846	.0005420	.0002897
%RSD	1.086773	48.32465	29.67383	.1540555	14.71736	10.41033
#1	.0686668	.0000515	.0003353	119.7010	.0033223	.0024514
#2	.0672744	.0001496	.0001913	119.7965	.0043061	.0029863
#3	.0675507	.0001037	.0002287	120.0576	.0034198	.0029117

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088798**	**11.41251**	**.4590922**	**8.211406**	**.0078180**	**-.001334**
Stddev	.0006689	.04330	.0013076	.046746	.0003012	.000898
%RSD	7.533381	.3794248	.2848247	.5692776	3.852487	67.28857
#1	.0094660	11.37408	.4602435	8.157570	.0075718	-.002147
#2	.0090223	11.45943	.4576706	8.234946	.0081539	-.001486
#3	.0081511	11.40403	.4593626	8.241702	.0077284	-.000370

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.18254**	**.0038204**	**.2325904**	**12.76220**	**.0809132**	**.0021312**
Stddev	.06224	.0004003	.0009808	.15371	.0009296	.0005584
%RSD	.2377342	10.47725	.4216855	1.204385	1.148848	26.20106
#1	26.20980	.0041371	.2319158	12.58503	.0818441	.0026261
#2	26.22651	.0039535	.2321399	12.85985	.0809107	.0015258
#3	26.11132	.0033705	.2337155	12.84173	.0799849	.0022417

Sample Name: O5249-02 Acquired: 11/9/2023 16:12:00 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005087	.0189611	F 12.66896	1.220880	2.609994	.0196347
Stddev	.001757	.0021550	.00851	.008235	.001351	.0003977
%RSD	34.54848	11.36546	.0672068	.6744835	.0517601	2.025448
#1	-.007058	.0192253	12.67117	1.225149	2.611500	.0197293
#2	-.003684	.0166862	12.65957	1.211388	2.609591	.0191983
#3	-.004517	.0209718	12.67616	1.226104	2.608890	.0199766

Elem	Sr4077
Units	ppm
Avg	.3883291
Stddev	.0013021
%RSD	.3353192
#1	.3888311
#2	.3868507
#3	.3893056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2004.636	37700.79	6278.014	1972.056	2377.272
Stddev	3.647	109.65	28.880	5.838	3.785
%RSD	.1819208	.2908375	.4600194	.2960431	.1591999
#1	2004.396	37652.91	6280.568	1975.925	2377.855
#2	2008.397	37826.23	6305.533	1974.903	2380.732
#3	2001.115	37623.22	6247.942	1965.341	2373.230

Sample Name: O5282-01 Acquired: 11/9/2023 16:15:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.001036**	**.0000449**	**.0029934**	**.0004386**	**.0001247**	**-.024702**
Stddev	.002238	.0030986	.0020219	.0001623	.0004092	.019005
%RSD	216.0428	6898.900	67.54640	37.00205	328.0817	76.94025
#1	-.002944	-.002582	.0044146	.0002861	-.000032	-.035206
#2	-.001591	.003462	.0006786	.0004206	.000589	-.036136
#3	.001427	-.000745	.0038870	.0006092	-.000183	-.002763

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1850567**	**.0000367**	**.0000444**	**95.44261**	**.0011916**	**.0007794**
Stddev	.0016997	.0000334	.0001322	.47599	.0001655	.0002517
%RSD	.9184902	90.98311	298.1305	.4987172	13.89269	32.29609
#1	.1831194	.0000540	.0000685	94.89451	.0013032	.0005425
#2	.1862977	-.000002	.0001629	95.68121	.0012702	.0010437
#3	.1857531	.000058	-.000098	95.75210	.0010014	.0007520

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041284**	**.0195495**	**.0545057**	**32.83937**	**.0057734**	**-.001257**
Stddev	.0007754	.0052266	.0011924	.22773	.0004258	.000937
%RSD	18.78241	26.73522	2.187578	.6934725	7.374416	74.57882
#1	.0047539	.0148597	.0531888	32.62026	.0061888	-.000574
#2	.0043706	.0186047	.0555121	33.07484	.0057935	-.002325
#3	.0032608	.0251840	.0548162	32.82301	.0053380	-.000871

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**366.3372**	**.0017559**	**.0130676**	**5.858583**	**.0856422**	**.0006907**
Stddev	5.4523	.0010401	.0004651	.002958	.0004246	.0002290
%RSD	1.488320	59.23656	3.559105	.0504833	.4958470	33.15980
#1	360.2225	.0006922	.0125311	5.858865	.0851732	.0008494
#2	370.6927	.0018047	.0133142	5.855494	.0860007	.0007946
#3	368.0964	.0027707	.0133575	5.861389	.0857526	.0004281

Sample Name: O5282-01 Acquired: 11/9/2023 16:15:54 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005562	-.002064	F 19.96633	.0308874	F 27.39299	.0025723
Stddev	.002923	.003306	.15125	.0028895	.57143	.0019270
%RSD	52.54715	160.1680	.7575007	9.354954	2.086059	74.91579
#1	-.008928	-.005877	19.79313	.0341612	27.69735	.0008198
#2	-.003661	-.000014	20.03352	.0286930	26.73380	.0022610
#3	-.004097	-.000300	20.07234	.0298078	27.74781	.0046360

Elem	Sr4077
Units	ppm
Avg	.4624003
Stddev	.0036265
%RSD	.7842813
#1	.4583156
#2	.4652413
#3	.4636441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1943.682	35428.28	5897.401	1865.236	2235.301
Stddev	32.261	80.03	19.561	3.935	39.941
%RSD	1.659809	.2258928	.3316957	.2109709	1.786834
#1	1928.316	35413.25	5887.483	1861.130	2212.669
#2	1980.754	35356.84	5884.786	1865.603	2281.419
#3	1921.976	35514.77	5919.935	1868.974	2211.816

Sample Name: CCV07 Acquired: 11/9/2023 16:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.147543**	**5.190212**	**5.030949**	**5.228611**	**5.029342**	**9.944912**	**9.778727**
Stddev	.001740	.101850	.010729	.021632	.009547	.277089	.250174
%RSD	.0338007	1.962353	.2132668	.4137227	.1898167	2.786240	2.558345
#1	5.149552	5.292349	5.042409	5.251073	5.037876	9.748467	9.597600
#2	5.146533	5.189637	5.021142	5.226843	5.019032	9.824420	9.674401
#3	5.146544	5.088651	5.029297	5.207917	5.031118	10.26185	10.06418

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2467311**	**2.525373**	**24.67530**	**1.012614**	**2.478765**	**1.255658**	**5.086576**
Stddev	.0035089	.004435	.59505	.037109	.005118	.001960	.146802
%RSD	1.422171	.1756355	2.411527	3.664714	.2064763	.1560583	2.886076
#1	.2456693	2.530260	24.23543	1.055026	2.481601	1.257881	5.252769
#2	.2438757	2.521602	24.43809	.996700	2.472856	1.254185	4.974567
#3	.2506483	2.524258	25.35237	.986116	2.481837	1.254906	5.032393

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.489145**	**24.05408**	**2.474565**	**1.278589**	**26.03819**	**2.432596**	**2.561308**
Stddev	.060531	.55883	.004257	.043549	.55125	.063730	.100919
%RSD	2.431781	2.323214	.1720290	3.405981	2.117072	2.619845	3.940152
#1	2.450200	23.62441	2.478879	1.328603	26.67072	2.387964	2.677592
#2	2.458354	23.85199	2.470367	1.258100	25.66023	2.404241	2.496592
#3	2.558881	24.68584	2.474450	1.249064	25.78362	2.505583	2.509740

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.82972**	**4.916595**	**4.953888**	**4.969318**	**4.920027**	**5.307439**	**4.903869**
Stddev	.59905	.078662	.006600	.018805	.131577	.074441	.010494
%RSD	2.319246	1.599922	.1332247	.3784295	2.674310	1.402576	.2139910
#1	26.51336	4.901960	4.960899	4.988044	4.826693	5.380119	4.913604
#2	25.39655	4.846279	4.952968	4.969476	4.862873	5.231354	4.892753
#3	25.57924	5.001547	4.947796	4.950434	5.070516	5.310845	4.905250

Sample Name: CCV07 Acquired: 11/9/2023 16:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.221776**	**4.917745**	**5.022139**
Stddev	.023917	.134329	.077635
%RSD	.4580230	2.731512	1.545852
#1	5.241472	4.816069	4.976504
#2	5.228693	4.867140	4.978134
#3	5.195163	5.070026	5.111779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1882.703**	**34645.63**	**5759.900**	**1780.399**	**2209.579**
Stddev	2.283	1108.63	85.383	58.511	4.040
%RSD	.1212698	3.199922	1.482370	3.286402	.1828201
#1	1880.983	33370.09	5792.337	1712.874	2206.572
#2	1885.293	35189.53	5824.311	1816.107	2214.170
#3	1881.833	35377.28	5663.052	1812.216	2207.995

Sample Name: CCB07 Acquired: 11/9/2023 16:23:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001245**	**.0029873**	**-.000193**	**-.002587**	**.0006019**	**-.012578**	**-.004165**
Stddev	.001505	.0034125	.002019	.007001	.0004213	.003157	.009186
%RSD	120.8613	114.2338	1045.855	270.5891	69.99490	25.09625	220.5267
#1	-.002917	.0054982	.001929	-.005161	.0010877	-.015440	-.003683
#2	-.000821	.0043617	-.002090	.005336	.0003351	-.013101	-.013582
#3	.000002	-.000898	-.000419	-.007937	.0003830	-.009192	.004770

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000275**	**.0001244**	**-.006113**	**-.000235**	**.0000462**	**-.000005**	**.0008176**
Stddev	.0000505	.0000719	.010326	.000238	.0001862	.000440	.0085040
%RSD	183.7003	57.75000	168.9305	101.5712	402.8743	9291.069	1040.053
#1	.0000184	.0001537	-.008512	-.000465	-.000162	-.000351	.0048490
#2	.0000818	.0001771	-.015028	.000011	.000197	.000491	-.008952
#3	-.000018	.0000426	.005202	-.000250	.000103	-.000154	.006556

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000372**	**-.004292**	**.0000937**	**-.000110**	**.0915097**	**.0008014**	**.0000593**
Stddev	.000447	.021700	.0005719	.000328	.0177120	.0015746	.0006330
%RSD	120.2606	505.5889	610.0892	297.7058	19.35531	196.4697	1066.810
#1	.000082	-.028546	-.000424	-.000474	.0747044	.0026096	.0007789
#2	-.000385	.013284	.000708	-.000016	.0898177	-.000268	-.000412
#3	-.000812	.002386	-.000003	.000160	.1100069	.000062	-.000189

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1018638**	**.0067446**	**.0028933**	**-.000418**	**.0011814**	**.0164345**	**.0001420**
Stddev	.0917230	.0004861	.0002299	.001415	.0007780	.0149347	.0041632
%RSD	90.04478	7.207725	7.945149	338.4258	65.85042	90.87457	2932.709
#1	.0241326	.0066948	.0029350	-.001993	.0012712	.0233415	.0020888
#2	.2030312	.0072537	.0030994	-.000006	.0003625	-.000704	-.004638
#3	.0784276	.0062853	.0026454	.000745	.0019107	.026665	.002975

Sample Name: CCB07 Acquired: 11/9/2023 16:23:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000110	.0047229	.0001346
Stddev	.004719	.0016861	.0001121
%RSD	4299.929	35.70075	83.24477
#1	-.005554	.0037855	.0002455
#2	.002805	.0037138	.0001368
#3	.002420	.0066694	.0000215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1925.939	36254.35	5831.030	1879.516	2344.926
Stddev	.801	75.92	435.202	10.446	3.937
%RSD	.0415753	.2094070	7.463562	.5557978	.1678747
#1	1926.657	36232.24	5776.557	1891.175	2344.990
#2	1926.083	36338.88	6290.904	1876.366	2348.830
#3	1925.075	36191.95	5425.628	1871.008	2340.957

Sample Name: O5301-01 Acquired: 11/9/2023 16:27:47 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000713**	**-.002297**	**.0017572**	**-.001272**	**-.001833**	**.1080703**	**-.008117**
Stddev	.004782	.008728	.0016672	.001026	.002958	.0006246	.002208
%RSD	670.4357	379.9139	94.88017	80.69791	161.4043	.5779240	27.19674
#1	-.005489	-.006496	.0036371	-.000087	-.003948	.1074971	-.010664
#2	.004076	-.008133	.0011764	-.001896	.001547	.1079778	-.006938
#3	-.000726	.007737	.0004580	-.001832	-.003097	.1087360	-.006750

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000024**	**.0001568**	**.1566777**	**.0004935**	**.0003471**	**.0061196**	**.0717974**
Stddev	.000023	.0000900	.0046902	.0002702	.0001462	.0000926	.0032596
%RSD	98.14322	57.36318	2.993539	54.75399	42.11790	1.512275	4.539943
#1	-.000044	.0000536	.1535274	.0006968	.0001791	.0060808	.0680883
#2	.000002	.0002185	.1620679	.0001869	.0004454	.0060528	.0730984
#3	-.000029	.0001984	.1544378	.0005967	.0004169	.0062252	.0742055

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015842**	**.0599850**	**.0009822**	**-.000699**	**.1208190**	**.0032551**	**.0353859**
Stddev	.0003704	.0212541	.0002201	.000480	.0070429	.0023887	.0002080
%RSD	23.38379	35.43239	22.40810	68.58178	5.829307	73.38221	.5879229
#1	.0014627	.0365051	.0007283	-.001250	.1199422	.0008366	.0353442
#2	.0020002	.0779104	.0010994	-.000474	.1282592	.0056128	.0356117
#3	.0012898	.0655394	.0011189	-.000373	.1142555	.0033160	.0352020

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1794016**	**.0051251**	**.0005047**	**-.002303**	**.0029731**	**.0501561**	**.0157012**
Stddev	.0196589	.0018598	.0003610	.001128	.0016023	.0049533	.0042343
%RSD	10.95804	36.28881	71.52853	48.99477	53.89299	9.875761	26.96825
#1	.1848116	.0067995	.0009138	-.003529	.0012066	.0453374	.0163598
#2	.1576041	.0031233	.0002309	-.002070	.0043327	.0552338	.0111761
#3	.1957890	.0054526	.0003694	-.001309	.0033801	.0498972	.0195676

Sample Name: O5301-01 Acquired: 11/9/2023 16:27:47 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0329728	-.002885	.0002384
Stddev	.0047091	.002178	.0000554
%RSD	14.28170	75.49791	23.25373
#1	.0352321	-.005399	.0002647
#2	.0275598	-.001592	.0002758
#3	.0361264	-.001663	.0001747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2100.446	40150.92	6153.690	2079.586	2581.886
Stddev	1.222	52.12	34.939	7.382	3.501
%RSD	.0581896	.1298130	.5677651	.3549543	.1355948
#1	2101.265	40159.63	6193.030	2084.683	2581.347
#2	2099.041	40095.00	6141.765	2071.121	2585.626
#3	2101.032	40198.15	6126.275	2082.953	2578.687

Sample Name: PB156994BL Acquired: 11/9/2023 16:31:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000401**	**.0061102**	**.0007506**	**-.000501**	**.0017963**	**-.012316**	**-.004651**
Stddev	.006903	.0022533	.0017421	.004080	.0011337	.009869	.000454
%RSD	1723.027	36.87738	232.1113	814.3524	63.11439	80.13581	9.758085
#1	-.008249	.0085938	.0022409	.004096	.0013438	-.003296	-.004143
#2	.002319	.0041967	.0011755	-.001905	.0009587	-.010793	-.004795
#3	.004728	.0055401	-.001165	-.003694	.0030865	-.022858	-.005016

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000172**	**.0000239**	**-.018890**	**-.000173**	**-.000117**	**-.000159**	**-.009631**
Stddev	.0000592	.0001149	.018430	.000338	.000186	.000800	.006554
%RSD	345.0358	480.7895	97.56362	195.5471	158.2518	504.0680	68.05038
#1	.0000028	.0001239	-.023821	.000093	.000085	.000149	-.015864
#2	.0000822	-.000102	.001504	-.000553	-.000280	-.001067	-.002797
#3	-.000034	.000049	-.034354	-.000058	-.000156	.000442	-.010233

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000196**	**.0052968**	**.0003465**	**-.000150**	**.0282005**	**.0018356**	**-.000523**
Stddev	.000232	.0246245	.0000542	.000449	.0201206	.0047318	.000462
%RSD	118.1200	464.8920	15.65135	299.2014	71.34828	257.7792	88.31014
#1	.000071	.0017928	.0003120	.000368	.0055370	-.002402	-.000933
#2	-.000326	-.017388	.0004091	-.000413	.0439607	.000967	-.000023
#3	-.000333	.031486	.0003186	-.000404	.0351038	.006941	-.000614

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012601**	**.0022373**	**.0005977**	**-.000851**	**.0005238**	**.0101858**	**.0020216**
Stddev	.081399	.0003224	.0005703	.000637	.0005519	.0120338	.0022045
%RSD	646.0007	14.40884	95.42274	74.90326	105.3671	118.1431	109.0484
#1	-.090097	.0026026	.0007823	-.000547	.0003501	.0105401	.0023615
#2	-.019914	.0021164	.0010528	-.000422	.0011416	-.002021	.0040364
#3	.072209	.0019928	-.000042	-.001583	.0000796	.022039	-.000333

Sample Name: PB156994BL Acquired: 11/9/2023 16:31:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0050686	.0029964	-.000119
Stddev	.0070381	.0027365	.000027
%RSD	138.8568	91.32670	22.53275
#1	.0128735	.0037896	-.000105
#2	.0031281	.0052487	-.000149
#3	-.000796	-.000049	-.000102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1907.407	35650.85	5824.056	1863.691	2308.394
Stddev	2.564	78.00	35.505	4.995	6.068
%RSD	.1344300	.2187748	.6096184	.2680150	.2628801
#1	1904.557	35609.27	5790.427	1862.293	2302.428
#2	1908.138	35602.45	5861.178	1859.545	2308.195
#3	1909.527	35740.82	5820.564	1869.237	2314.559

Sample Name: PB156994BS Acquired: 11/9/2023 16:35:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.8818187**	**2.114033**	**1.047260**	**2.173040**	**.8427563**	**2.138093**
Stddev	.0218701	.035235	.020862	.047801	.0166566	.040123
%RSD	2.480111	1.666703	1.992026	2.199750	1.976442	1.876577
#1	.8773795	2.137686	1.054981	2.183505	.8432645	2.184031
#2	.8625087	2.073538	1.023638	2.120873	.8258515	2.109912
#3	.9055677	2.130875	1.063160	2.214742	.8591530	2.120337

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1969418**	**.2151549**	**.2120020**	**1.098740**	**.4235648**	**.2086168**
Stddev	.0104748	.0050264	.0041786	.016535	.0004218	.0042569
%RSD	5.318736	2.336180	1.971002	1.504901	.0995861	2.040538
#1	.2090255	.2209188	.2130068	1.117555	.4231430	.2097000
#2	.1913585	.2128631	.2074127	1.086524	.4239867	.2039230
#3	.1904414	.2116829	.2155866	1.092140	.4235648	.2122275

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3259635**	**3.149680**	**.2190752**	**2.095424**	**.5218918**	**.0805653**
Stddev	.0072226	.009102	.0032734	.046329	.0115005	.0001076
%RSD	2.215760	.2889735	1.494179	2.210980	2.203609	.1335909
#1	.3270498	3.144438	.2228477	2.144507	.5256028	.0806849
#2	.3182593	3.144412	.2169850	2.052455	.5089940	.0805345
#3	.3325814	3.160190	.2173931	2.089309	.5310786	.0804764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.263428**	**.3137185**	**.2170161**	**10.60558**	**.3159977**	**.4174806**
Stddev	.019683	.0048015	.0007223	.06094	.0055977	.0089598
%RSD	.6031396	1.530510	.3328398	.5745582	1.771425	2.146152
#1	3.247861	.3192054	.2176762	10.55667	.3223260	.4191461
#2	3.256870	.3102861	.2171278	10.67384	.3139728	.4078049
#3	3.285553	.3116639	.2162445	10.58624	.3116942	.4254907

Sample Name: PB156994BS Acquired: 11/9/2023 16:35:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7266632	.2118413	.9701218	5.988245	F -.001026	.2176097
Stddev	.0138738	.0041617	.0032959	.134835	.006691	.0053555
%RSD	1.909248	1.964547	.3397387	2.251664	652.0454	2.461045
#1	.7307505	.2165426	.9735174	6.023944	-.001573	.2236211
#2	.7112049	.2086284	.9669356	5.839152	.005921	.2158605
#3	.7380342	.2103530	.9699124	6.101638	-.007427	.2133476

Elem	Sr4077
Units	ppm
Avg	.2221369
Stddev	.0040767
%RSD	1.835228
#1	.2268259
#2	.2194323
#3	.2201525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1934.120	36116.55	5722.773	1875.185	2341.044
Stddev	34.356	3.64	121.082	3.811	43.268
%RSD	1.776326	.0100799	2.115794	.2032230	1.848240
#1	1920.359	36118.36	5583.546	1871.811	2323.557
#2	1973.224	36112.36	5781.299	1874.427	2390.319
#3	1908.778	36118.92	5803.473	1879.318	2309.256

Sample Name: O5279-04 Acquired: 11/9/2023 16:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000576**	**-.000529**	**.0183857**	**-.001837**	**-.003169**	**.1167411**	**.2464042**
Stddev	.001253	.005752	.0017884	.001898	.002735	.0129838	.0050410
%RSD	217.4788	1087.449	9.726983	103.3195	86.29908	11.12187	2.045815
#1	-.000309	.001158	.0189230	-.001336	-.002923	.1248166	.2412427
#2	.000522	-.006936	.0198438	-.000240	-.006019	.1017641	.2466545
#3	-.001941	.004191	.0163903	-.003936	-.000566	.1236428	.2513153

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000525**	**.0009816**	**50.84998**	**.0029714**	**.0065686**	**.0130964**	**.3809540**
Stddev	.0000384	.0000409	.52948	.0002740	.0000822	.0003287	.0084793
%RSD	73.10496	4.164653	1.041250	9.221040	1.251524	2.510183	2.225805
#1	.0000812	.0010240	50.39575	.0030665	.0065019	.0130342	.3711667
#2	.0000089	.0009783	50.72268	.0026625	.0066605	.0128031	.3860824
#3	.0000674	.0009424	51.43150	.0031851	.0065435	.0134518	.3856129

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.451322**	**4.145534**	**.0082251**	**-.000785**	**316.9683**	**.0036579**	**.1213129**
Stddev	.022310	.048797	.0004009	.000378	4.9043	.0019122	.0000872
%RSD	1.537202	1.177088	4.873938	48.14663	1.547247	52.27633	.0718490
#1	1.432651	4.104236	.0081776	-.000401	311.4035	.0035778	.1213368
#2	1.445288	4.132988	.0078501	-.001157	318.8417	.0056090	.1213855
#3	1.476029	4.199379	.0086477	-.000797	320.6598	.0017871	.1212162

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.579811**	**.0309716**	**.0004020**	**-.003437**	**.0020298**	**1.058883**	**.0129029**
Stddev	.072564	.0008334	.0002055	.000801	.0001996	.006568	.0023595
%RSD	4.593212	2.690870	51.11265	23.30869	9.833732	.6203053	18.28638
#1	1.661146	.0319096	.0001693	-.003859	.0022356	1.059752	.0154542
#2	1.556575	.0306889	.0004783	-.002513	.0020166	1.051924	.0107995
#3	1.521710	.0303163	.0005584	-.003939	.0018371	1.064974	.0124551

Sample Name: O5279-04 Acquired: 11/9/2023 16:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.492187**	**.0020644**	**.1823993**
Stddev	.028609	.0021683	.0025774
%RSD	1.917273	105.0307	1.413052
#1	1.508222	.0013768	.1803225
#2	1.509181	.0003233	.1815917
#3	1.459156	.0044931	.1852838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1886.790**	**34955.35**	**5932.144**	**1817.339**	**2170.529**
Stddev	27.455	164.87	46.092	7.355	33.870
%RSD	1.455114	.4716670	.7769802	.4047165	1.560472
#1	1868.696	35028.60	5957.588	1814.969	2147.846
#2	1873.293	34766.55	5959.906	1811.461	2154.279
#3	1918.381	35070.91	5878.939	1825.587	2209.463

Sample Name: O5279-04DUP Acquired: 11/9/2023 16:43:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0011032	-.002681	.0229031	.0009343	.0023672	.1012988	.2904371
Stddev	.0064456	.005377	.0012923	.0048795	.0016451	.0101815	.0080937
%RSD	584.2820	200.5510	5.642412	522.2452	69.49664	10.05094	2.786741
#1	-.006052	.001134	.0217031	.0065321	.0007682	.0944397	.2813996
#2	.002907	-.000346	.0227349	-.001309	.0022785	.0964592	.2928943
#3	.006455	-.008831	.0242712	-.002420	.0040549	.1129974	.2970176

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000400	.0010260	58.77908	.0026564	.0078607	.0124081	.4243353
Stddev	.0000267	.0001422	.78410	.0001393	.0004619	.0002895	.0107083
%RSD	66.85435	13.86292	1.333972	5.245107	5.876079	2.332948	2.523535
#1	.0000290	.0008655	57.90010	.0025980	.0075346	.0126315	.4140517
#2	.0000704	.0010763	59.03057	.0025557	.0076583	.0120811	.4235313
#3	.0000205	.0011363	59.40658	.0028154	.0083893	.0125116	.4354229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.473579	4.783548	.0085516	-.000154	367.1826	-.001078	.1319022
Stddev	.022423	.090779	.0001117	.000230	3.6057	.000274	.0006607
%RSD	1.521653	1.897737	1.306502	149.9355	.9820023	25.38434	.5008887
#1	1.448477	4.706040	.0086485	.000029	363.0332	-.001052	.1325407
#2	1.480635	4.761185	.0085768	-.000412	368.9612	-.000819	.1319445
#3	1.491625	4.883419	.0084294	-.000077	369.5535	-.001364	.1312213

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.638473	.0345093	.0006010	-.005467	.0030546	1.211460	.0098666
Stddev	.053931	.0000587	.0000585	.000562	.0003919	.025679	.0073187
%RSD	3.291556	.1700391	9.737509	10.28255	12.82876	2.119679	74.17669
#1	1.619029	.0344465	.0005348	-.005171	.0032923	1.212628	.0174281
#2	1.596959	.0345188	.0006225	-.005115	.0032692	1.185217	.0093540
#3	1.699429	.0345627	.0006458	-.006116	.0026023	1.236535	.0028176

Sample Name: O5279-04DUP Acquired: 11/9/2023 16:43:46 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8635627	-.002086	.2108480
Stddev	.0128630	.001314	.0031658
%RSD	1.489530	62.98660	1.501460
#1	.8722077	-.002584	.2073025
#2	.8487805	-.003079	.2118501
#3	.8696999	-.000596	.2133916

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.939	34321.51	5870.230	1790.149	2115.797
Stddev	4.595	174.22	52.171	7.245	5.227
%RSD	.2489397	.5076023	.8887393	.4046966	.2470587
#1	1842.774	34520.07	5929.106	1797.700	2111.066
#2	1851.210	34194.26	5829.746	1789.491	2121.409
#3	1843.832	34250.21	5851.838	1783.256	2114.917

Sample Name: O5279-04MS Acquired: 11/9/2023 16:47:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.857607**	**4.457906**	**2.223284**	**4.372990**	**1.799210**	**4.435843**
Stddev	.006174	.105231	.007157	.018133	.003920	.083934
%RSD	.3323634	2.360553	.3219159	.4146643	.2178993	1.892181
#1	1.860055	4.509339	2.218302	4.387875	1.803088	4.342767
#2	1.862182	4.527529	2.231485	4.378300	1.799295	4.458982
#3	1.850585	4.336850	2.220064	4.352795	1.795249	4.505781

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6992675**	**.4135564**	**.4441018**	**60.65453**	**.8686664**	**.4507930**
Stddev	.0130379	.0059518	.0007013	.97740	.0013214	.0013313
%RSD	1.864514	1.439173	.1579152	1.611426	.1521202	.2953149
#1	.6843424	.4072045	.4442689	59.56610	.8691421	.4509353
#2	.7050218	.4190047	.4447045	60.94031	.8671731	.4520475
#3	.7084383	.4144600	.4433321	61.45720	.8696842	.4493964

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6652314**	**7.103011**	**1.905296**	**8.839093**	**1.099319**	**.1623835**
Stddev	.0025664	.066518	.031002	.158734	.001914	.0002194
%RSD	.3857887	.9364720	1.627126	1.795815	.1740990	.1351071
#1	.6649861	7.054833	1.869838	8.660658	1.098686	.1623944
#2	.6679117	7.075295	1.918765	8.892016	1.101469	.1625972
#3	.6627965	7.178905	1.927284	8.964604	1.097802	.1621588

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**356.4911**	**.6544319**	**.5710574**	**24.36476**	**.6269989**	**.9366599**
Stddev	3.4951	.0130000	.0015381	.18244	.0087675	.0025306
%RSD	.9804278	1.986456	.2693358	.7487888	1.398330	.2701761
#1	354.9341	.6421662	.5696368	24.30170	.6171592	.9371096
#2	354.0450	.6530703	.5708448	24.22221	.6339814	.9389356
#3	360.4942	.6680591	.5726908	24.57036	.6298560	.9339346

Sample Name: O5279-04MS Acquired: 11/9/2023 16:47:53 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.647008**	**.4573881**	**3.404289**	F **13.24126**	**.8089686**	**.4214613**
Stddev	.003738	.0072049	.039157	.02057	.0109972	.0075324
%RSD	.2269789	1.575233	1.150234	.1553275	1.359411	1.787204
#1	1.644612	.4493040	3.393842	13.23332	.8139632	.4134319
#2	1.651315	.4597286	3.371415	13.26461	.8165822	.4225807
#3	1.645095	.4631318	3.447610	13.22584	.7963605	.4283713

Elem	Sr4077
Units	ppm
Avg	**.6570861**
Stddev	.0103326
%RSD	1.572493
#1	.6451807
#2	.6623611
#3	.6637165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1858.594**	**34670.33**	**5796.592**	**1793.143**	**2138.979**
Stddev	4.811	185.71	62.133	4.591	2.599
%RSD	.2588605	.5356353	1.071883	.2560108	.1214884
#1	1856.186	34586.12	5868.115	1789.996	2139.774
#2	1855.462	34883.22	5765.714	1798.410	2136.076
#3	1864.133	34541.64	5755.948	1791.022	2141.088

Sample Name: O5279-04MSD Acquired: 11/9/2023 16:51:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.983935**	**4.674801**	**2.356206**	**4.687791**	**1.820536**	**4.600942**
Stddev	.016467	.021069	.007566	.003783	.003938	.263793
%RSD	.8300042	.4506990	.3211127	.0806940	.2162841	5.733453
#1	1.993889	4.665828	2.364413	4.686946	1.825082	4.296352
#2	1.964928	4.698871	2.354695	4.684503	1.818346	4.755528
#3	1.992989	4.659704	2.349509	4.691925	1.818181	4.750947

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7038786**	**.4350893**	**.4731335**	**59.57340**	**.9210743**	**.4788480**
Stddev	.0437703	.0154575	.0009798	3.23172	.0024563	.0021402
%RSD	6.218451	3.552717	.2070871	5.424772	.2666750	.4469470
#1	.6535397	.4172533	.4742624	55.84994	.9199491	.4813187
#2	.7329643	.4445922	.4726341	61.64939	.9193823	.4775681
#3	.7251319	.4434224	.4725040	61.22087	.9238917	.4776571

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7059818**	**7.469089**	**1.892033**	**8.928550**	**1.168450**	**.1730374**
Stddev	.0018580	.161573	.109348	.511931	.002980	.0003593
%RSD	.2631739	2.163228	5.779367	5.733642	.2550148	.2076648
#1	.7079912	7.282681	1.765807	8.338056	1.171701	.1733821
#2	.7056282	7.568999	1.952461	9.200105	1.165849	.1730649
#3	.7043261	7.555587	1.957830	9.247488	1.167800	.1726650

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**361.7427**	**.6834168**	**.6019413**	**25.80836**	**.6543087**	**.9378725**
Stddev	5.1875	.0387839	.0032946	.43830	.0246281	.0022834
%RSD	1.434026	5.675001	.5473256	1.698301	3.763986	.2434700
#1	355.7823	.6387324	.6008665	25.30823	.6259861	.9401762
#2	364.2081	.7031776	.5993183	26.12564	.6706871	.9356099
#3	365.2377	.7083406	.6056390	25.99120	.6662529	.9378315

Sample Name: O5279-04MSD Acquired: 11/9/2023 16:51:43 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.664425	.4499006	3.398794	F 14.24437	.8490596	.4412266
Stddev	.003655	.0220185	.023378	.07720	.0099704	.0262799
%RSD	.2195910	4.894076	.6878276	.5419843	1.174283	5.956105
#1	1.668420	.4244947	3.371850	14.33338	.8548202	.4109450
#2	1.663605	.4634529	3.410833	14.19571	.8375468	.4580717
#3	1.661250	.4617540	3.413699	14.20400	.8548119	.4546631

Elem	Sr4077
Units	ppm
Avg	.6685772
Stddev	.0372774
%RSD	5.575631
#1	.6255417
#2	.6893434
#3	.6908465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1836.291	34340.42	5866.290	1779.254	2107.475
Stddev	3.516	42.97	215.874	1.176	4.482
%RSD	.1914486	.1251313	3.679903	.0660798	.2126572
#1	1833.418	34371.86	6115.547	1778.909	2102.571
#2	1840.211	34357.94	5739.520	1780.564	2111.357
#3	1835.244	34291.46	5743.802	1778.289	2108.497

Sample Name: O5279-04A Acquired: 11/9/2023 16:55:33 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.790165**	**4.319028**	**2.199167**	**4.183799**	**1.764364**	**4.605028**
Stddev	.006471	.013391	.004466	.002947	.006942	.137578
%RSD	.3614966	.3100430	.2030681	.0704450	.3934282	2.987565
#1	1.790772	4.332854	2.198119	4.184898	1.766485	4.455831
#2	1.783411	4.318110	2.204064	4.180459	1.769997	4.726881
#3	1.796311	4.306119	2.195319	4.186038	1.756609	4.632372

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7129448**	**.4277730**	**.4389610**	**61.29658**	**.8663805**	**.4471681**
Stddev	.0234452	.0110601	.0006141	1.80133	.0012243	.0014865
%RSD	3.288499	2.585519	.1398894	2.938705	.1413109	.3324234
#1	.6884442	.4188049	.4392380	59.44507	.8653757	.4460152
#2	.7351685	.4401315	.4393877	63.04313	.8660217	.4488458
#3	.7152216	.4243828	.4382572	61.40155	.8677441	.4466433

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6543054**	**6.723899**	**1.919781**	**8.992083**	**1.087980**	**.1584933**
Stddev	.0008795	.101310	.056934	.251344	.003299	.0005305
%RSD	.1344213	1.506720	2.965632	2.795174	.3032294	.3347040
#1	.6550896	6.617139	1.858577	8.718723	1.087957	.1579123
#2	.6544722	6.735859	1.971167	9.213201	1.091290	.1586157
#3	.6533544	6.818698	1.929599	9.044324	1.084692	.1589519

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**335.9555**	**.6747600**	**.5561281**	**23.37045**	**.6465823**	**.9503506**
Stddev	4.4017	.0194311	.0028413	.24762	.0159612	.0014052
%RSD	1.310211	2.879701	.5109164	1.059546	2.468541	.1478592
#1	331.2666	.6537922	.5593483	23.10820	.6340254	.9506086
#2	336.6010	.6921599	.5539739	23.40291	.6645441	.9516090
#3	339.9988	.6783279	.5550621	23.60024	.6411774	.9488344

Sample Name: O5279-04A Acquired: 11/9/2023 16:55:33 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.618088**	**.4721129**	**3.206180**	F **12.44382**	**.7490641**	**.4448615**
Stddev	.001556	.0163959	.027740	.01365	.0067725	.0153071
%RSD	.0961662	3.472884	.8652114	.1096672	.9041210	3.440863
#1	1.618543	.4558108	3.180918	12.42997	.7441578	.4302034
#2	1.619365	.4886011	3.201757	12.45726	.7567910	.4607440
#3	1.616355	.4719269	3.235867	12.44424	.7462435	.4436371

Elem	Sr4077
Units	ppm
Avg	**.6694698**
Stddev	.0200549
%RSD	2.995642
#1	.6477977
#2	.6873727
#3	.6732389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1952.464**	**36737.14**	**5645.294**	**1865.457**	**2271.395**
Stddev	3.632	90.03	134.983	16.644	4.560
%RSD	.1860126	.2450708	2.391075	.8922343	.2007661
#1	1948.339	36715.89	5757.484	1846.281	2268.321
#2	1953.873	36835.90	5495.494	1876.158	2269.229
#3	1955.181	36659.64	5682.902	1873.931	2276.634

Sample Name: O5279-04LX5 Acquired: 11/9/2023 16:59:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0033741	.0005379	.0046545	.0005112	.0056334	.0098872	.0467492
Stddev	.0062037	.0062538	.0032440	.0016553	.0015527	.0149659	.0017221
%RSD	183.8606	1162.642	69.69633	323.8110	27.56146	151.3662	3.683631
#1	.0084260	-.001908	.0083764	.0020817	.0058663	.0263236	.0464058
#2	.0052466	.007645	.0024268	.0006694	.0070565	.0062910	.0486170
#3	-.003550	-.004124	.0031604	-.001218	.0039775	-.002953	.0452247

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000079	.0001875	10.38421	.0002496	.0015121	.0027588	.0762217
Stddev	.0000530	.0000618	.09835	.0002475	.0000824	.0004689	.0063485
%RSD	672.8700	32.94239	.9471435	99.16524	5.448908	16.99582	8.328964
#1	.0000457	.0001229	10.27526	-.000023	.0015992	.0022983	.0825296
#2	.0000306	.0002459	10.41093	.000460	.0014353	.0032356	.0698334
#3	-.000053	.0001936	10.46645	.000312	.0015018	.0027424	.0763022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2942544	.8336091	.0018841	-.000351	63.77575	.0043664	.0260627
Stddev	.0025050	.0251073	.0004175	.000130	.52846	.0024563	.0002703
%RSD	.8513126	3.011880	22.15975	37.05792	.8286218	56.25421	1.037307
#1	.2917503	.8122850	.0022916	-.000238	63.24363	.0021140	.0258619
#2	.2942527	.8612811	.0014572	-.000493	64.30047	.0039998	.0263701
#3	.2967603	.8272612	.0019035	-.000322	63.78314	.0069854	.0259561

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4560543	.0085382	.0005229	-.000943	.0007929	.2216902	.0023061
Stddev	.0386971	.0006619	.0000791	.001164	.0023823	.0157354	.0051221
%RSD	8.485196	7.751760	15.12140	123.5045	300.4647	7.097921	222.1063
#1	.4481825	.0077851	.0004345	.000097	.0032081	.2379119	.0077346
#2	.4218983	.0090276	.0005869	-.002201	.0007256	.2206679	-.002441
#3	.4980821	.0088018	.0005473	-.000724	-.001555	.2064910	.001625

Sample Name: O5279-04LX5 Acquired: 11/9/2023 16:59:24 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3031231	.0017464	.0370756
Stddev	.0049770	.0005140	.0002815
%RSD	1.641893	29.43119	.7593250
#1	.3040215	.0019468	.0368383
#2	.2977581	.0011624	.0370019
#3	.3075896	.0021299	.0373867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.947	35532.55	5839.624	1850.418	2265.285
Stddev	8.055	102.59	26.146	4.355	8.523
%RSD	.4219537	.2887096	.4477412	.2353573	.3762436
#1	1899.702	35525.69	5825.214	1852.711	2256.672
#2	1914.447	35433.56	5869.805	1845.395	2265.467
#3	1912.694	35638.39	5823.853	1853.147	2273.716

Sample Name: O5279-08 Acquired: 11/9/2023 17:03:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.001581**	**.0042144**	**.1438260**	**-.002773**	**.0040203**	**.1142413**	**.3479269**
Stddev	.001395	.0008107	.0008635	.007350	.0021347	.0059621	.0101233
%RSD	88.26029	19.23717	.6004031	265.0620	53.09811	5.218872	2.909608
#1	-.000036	.0042891	.1447849	-.007142	.0052034	.1073577	.3363870
#2	-.002751	.0033689	.1431097	-.006890	.0053017	.1175938	.3520830
#3	-.001956	.0049853	.1435835	.005713	.0015560	.1177726	.3553107

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000007**	**.0013904**	**91.00961**	**.0199134**	**.0149961**	**.0064404**	**3.108782**
Stddev	.0000614	.0001309	2.21181	.0001806	.0000658	.0004491	.026963
%RSD	9011.515	9.412124	2.430307	.9069496	.4390658	6.973868	.8673053
#1	-.000068	.0013565	88.48320	.0201113	.0150714	.0059288	3.077710
#2	.000049	.0015348	91.94869	.0198714	.0149675	.0067698	3.126016
#3	.000022	.0012798	92.59695	.0197574	.0149494	.0066226	3.122619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.415887**	**4.455166**	**.0351072**	**-.000070**	**378.2810**	**.0036866**	**.4236882**
Stddev	.036419	.128913	.0006342	.000707	6.3658	.0029916	.0018196
%RSD	2.572187	2.893567	1.806545	1011.436	1.682830	81.14921	.4294681
#1	1.374408	4.306383	.0356516	-.000710	371.6480	.0039012	.4233034
#2	1.430627	4.533587	.0344108	.000689	378.8543	.0065651	.4220917
#3	1.442625	4.525529	.0352594	-.000189	384.3409	.0005934	.4256694

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.741458**	**.0691108**	**.0012779**	**-.005870**	**.0056636**	**1.726084**	**.0159442**
Stddev	.119789	.0026507	.0005865	.001019	.0018277	.028984	.0022940
%RSD	4.369518	3.835414	45.89945	17.35189	32.27065	1.679170	14.38769
#1	2.606493	.0665239	.0011990	-.006930	.0073260	1.712947	.0132976
#2	2.782719	.0689875	.0018998	-.005781	.0037064	1.705995	.0171730
#3	2.835162	.0718210	.0007347	-.004899	.0059584	1.759310	.0173622

Sample Name: O5279-08 Acquired: 11/9/2023 17:03:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.474880	.0060982	.3723863
Stddev	.006148	.0012060	.0099356
%RSD	.4168148	19.77696	2.668084
#1	1.468051	.0065223	.3611127
#2	1.479973	.0070349	.3761809
#3	1.476615	.0047374	.3798654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1851.816	34309.17	5928.318	1785.634	2124.263
Stddev	10.789	141.01	92.675	5.225	13.885
%RSD	.5826076	.4110027	1.563257	.2925953	.6536234
#1	1839.715	34184.70	6032.345	1780.128	2109.183
#2	1855.304	34462.32	5898.041	1790.523	2127.087
#3	1860.429	34280.48	5854.569	1786.253	2136.518

Sample Name: CCV08 Acquired: 11/9/2023 17:07:28 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.864406**	**4.917420**	**4.857917**	**4.868827**	**4.808098**	**9.763194**	**9.597213**
Stddev	.138282	.226636	.130910	.136264	.134638	.052848	.026959
%RSD	2.842730	4.608848	2.694773	2.798701	2.800238	.5413010	.2809074
#1	4.977646	5.093488	4.966458	4.973522	4.916615	9.702171	9.567203
#2	4.905277	4.997059	4.894759	4.918199	4.850252	9.793994	9.605052
#3	4.710295	4.661713	4.712534	4.714759	4.657426	9.793417	9.619384

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2381839**	**2.433118**	**24.25505**	**.9705066**	**2.408192**	**1.219492**	**4.788162**
Stddev	.0014287	.067272	.11175	.0014840	.068955	.033654	.069101
%RSD	.5998336	2.764856	.4607450	.1529143	2.863354	2.759701	1.443166
#1	.2396305	2.487944	24.12812	.9721602	2.466366	1.246811	4.728137
#2	.2381476	2.453362	24.29840	.9700691	2.426186	1.229768	4.772647
#3	.2367737	2.358049	24.33864	.9692905	2.332024	1.181898	4.863702

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.452394**	**23.68079**	**2.388417**	**1.206767**	**24.40703**	**2.398679**	**2.404552**
Stddev	.010322	.12175	.067033	.001098	.18797	.010429	.004229
%RSD	.4209119	.5141504	2.806607	.0910278	.7701408	.4347974	.1758719
#1	2.442483	23.56076	2.444309	1.207960	24.22849	2.395665	2.406446
#2	2.451617	23.67740	2.406845	1.206543	24.38941	2.390088	2.399707
#3	2.463084	23.80420	2.314097	1.205797	24.60319	2.410283	2.407503

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.44572**	**4.752048**	**4.874420**	**4.788972**	**4.825221**	**4.930548**	**4.584337**
Stddev	.11655	.026257	.141312	.136809	.020224	.057093	.132671
%RSD	.4767536	.5525381	2.899047	2.856746	.4191415	1.157943	2.894006
#1	24.34790	4.772041	4.988803	4.899650	4.802715	4.870922	4.698440
#2	24.41460	4.761790	4.918008	4.831252	4.831076	4.936006	4.615812
#3	24.57467	4.722312	4.716449	4.636014	4.841872	4.984716	4.438759

Sample Name: CCV08 Acquired: 11/9/2023 17:07:28 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.795844**	**4.803732**	**5.010547**
Stddev	.152840	.021365	.048573
%RSD	3.186924	.4447645	.9694144
#1	4.927634	4.779227	4.954986
#2	4.831603	4.813515	5.044968
#3	4.628295	4.818455	5.031686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2010.297**	**37543.71**	**5974.298**	**1919.365**	**2386.648**
Stddev	49.517	50.13	26.425	1.402	59.946
%RSD	2.463183	.1335113	.4423059	.0730255	2.511707
#1	1969.010	37532.96	5950.311	1918.011	2337.219
#2	1996.683	37598.34	5969.959	1919.274	2369.399
#3	2065.197	37499.84	6002.624	1920.810	2453.328

Sample Name: CCB08 Acquired: 11/9/2023 17:11:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032133	-.000468	-.000370	-.003867	.0002011	-.016290	-.004984
Stddev	.0037276	.000651	.002728	.003270	.0015728	.009103	.001432
%RSD	116.0069	139.0070	736.4313	84.55309	781.9362	55.87948	28.73223
#1	.0034455	-.001201	-.001143	-.000299	.0018800	-.026783	-.003977
#2	.0068194	-.000243	.002661	-.006721	-.001238	-.010514	-.004351
#3	-.000625	.000040	-.002629	-.004582	-.000038	-.011573	-.006623

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	-.000019	-.018248	-.000537	.0001845	-.000306	.0021282
Stddev	.000028	.000055	.016127	.000280	.0000854	.000273	.0053574
%RSD	248.2360	287.2292	88.37809	52.21509	46.28795	89.06319	251.7377
#1	.000020	-.000062	-.032521	-.000217	.0001719	-.000019	-.003820
#2	-.000035	-.000038	-.000753	-.000742	.0002756	-.000339	.003630
#3	-.000019	.000042	-.021472	-.000652	.0001062	-.000562	.006574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000437	-.009063	.0003854	-.000251	.1427276	-.000563	-.000069
Stddev	.000109	.012752	.0002128	.000739	.0137244	.001683	.000533
%RSD	25.02294	140.7104	55.21344	293.8344	9.615833	299.0810	767.3868
#1	-.000387	-.004573	.0005190	.000362	.1281881	.001380	-.000532
#2	-.000562	-.023453	.0004972	-.001071	.1445371	-.001483	.000513
#3	-.000361	.000837	.0001400	-.000045	.1554575	-.001585	-.000189

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1467188	.0047265	.0026303	.0159788	.0014526	.0150298	.0006934
Stddev	.0631683	.0010616	.0008277	.0004328	.0012057	.0024173	.0020657
%RSD	43.05399	22.46169	31.46797	2.708724	83.00183	16.08319	297.9266
#1	.0902382	.0057767	.0035848	.0154791	.0028438	.0178208	-.001682
#2	.1349879	.0047488	.0021957	.0162299	.0007092	.0136637	.001691
#3	.2149302	.0036538	.0021104	.0162276	.0008049	.0136049	.002070

Sample Name: CCB08 Acquired: 11/9/2023 17:11:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003350	.0030237	.0000803
Stddev	.003029	.0009140	.0001255
%RSD	90.41887	30.22915	156.3050
#1	-.003772	.0024070	.0001153
#2	-.006146	.0040738	.0001847
#3	-.000132	.0025903	-.000059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1995.826	37629.47	5950.800	1936.425	2449.757
Stddev	3.093	154.57	49.926	5.565	7.811
%RSD	.1549611	.4107643	.8389718	.2873879	.3188571
#1	1997.960	37519.52	5895.520	1930.037	2449.436
#2	1992.279	37562.69	5992.605	1940.228	2442.110
#3	1997.239	37806.20	5964.275	1939.009	2457.723

Sample Name: O5284-02 Acquired: 11/9/2023 17:15:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0096525**	**.0025029**	**.0753151**	**.0014597**	**-.001058**	**.0930324**
Stddev	.0044120	.0038729	.0002116	.0035893	.002974	.0048810
%RSD	45.70793	154.7364	.2809838	245.8878	281.2393	5.246561
#1	.0136735	-.001919	.0750841	-.002647	.001987	.0926548
#2	.0103512	.004137	.0753618	.003027	-.001204	.0980912
#3	.0049329	.005291	.0754995	.003998	-.003956	.0883512

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1453172**	**-.000063**	**.0019873**	**4.247987**	**.0035507**	**.0069908**
Stddev	.0020322	.000023	.0000190	.011145	.0002538	.0003498
%RSD	1.398438	36.27398	.9556756	.2623601	7.147470	5.003737
#1	.1429719	-.000037	.0019799	4.244832	.0037824	.0066633
#2	.1464233	-.000069	.0019732	4.260370	.0035901	.0073593
#3	.1465564	-.000082	.0020089	4.238760	.0032795	.0069497

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5421498**	**.2022480**	**1.058816**	**.7464460**	**.0528641**	**-.000846**
Stddev	.0008981	.0034065	.005582	.0350861	.0002279	.000370
%RSD	.1656536	1.684320	.5271665	4.700416	.4311519	43.71274
#1	.5412075	.2010167	1.054471	.7347028	.0531210	-.001233
#2	.5422460	.2060989	1.056867	.7858974	.0527855	-.000496
#3	.5429959	.1996283	1.065111	.7187377	.0526859	-.000810

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**324.5085**	**.0021456**	**.4705539**	**.8155427**	**.0891783**	**.0009061**
Stddev	1.0363	.0021829	.0028169	.1205863	.0021428	.0004969
%RSD	.3193524	101.7386	.5986234	14.78602	2.402785	54.84478
#1	323.6208	.0042880	.4693687	.7604994	.0876064	.0003529
#2	325.6473	-.000076	.4685233	.9538286	.0883095	.0013148
#3	324.2575	.002224	.4737696	.7323000	.0916190	.0010504

Sample Name: O5284-02 Acquired: 11/9/2023 17:15:17 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001713	.0017038	1.433819	.0022185	F 10.21176	-.000741
Stddev	.001308	.0020555	.017633	.0049437	.03047	.001573
%RSD	76.37009	120.6425	1.229759	222.8380	.2984265	212.4031
#1	-.003223	.0030108	1.447174	.0053228	10.24210	.000132
#2	-.000905	.0027661	1.413832	-.003482	10.18116	.000203
#3	-.001012	-.000665	1.440451	.004815	10.21202	-.002556

Elem	Sr4077
Units	ppm
Avg	.0126254
Stddev	.0001899
%RSD	1.503860
#1	.0125423
#2	.0124913
#3	.0128427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1914.041	35552.01	5805.754	1859.034	2229.274
Stddev	3.029	116.62	31.721	8.149	1.225
%RSD	.1582617	.3280189	.5463698	.4383392	.0549501
#1	1917.250	35417.55	5779.800	1860.418	2229.491
#2	1911.230	35625.53	5841.114	1866.403	2227.955
#3	1913.643	35612.95	5796.347	1850.282	2230.376

Sample Name: O5284-04 Acquired: 11/9/2023 17:19:21 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0085385	-.006425	.0587633	.0012581	-.001863	.0407799	.1810294
Stddev	.0079135	.011166	.0038445	.0059522	.002787	.0089474	.0022831
%RSD	92.67941	173.7930	6.542405	473.1003	149.6012	21.94065	1.261197
#1	.0166938	-.015349	.0630714	-.005302	-.004369	.0344024	.1789646
#2	.0080305	-.010021	.0575371	.002763	-.002359	.0510080	.1834813
#3	.0008913	.006096	.0556815	.006314	.001139	.0369295	.1806421

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	.0016386	2.387094	.0031781	.0043828	1.135860	.0866206
Stddev	.000041	.0001383	.002318	.0008999	.0004329	.026942	.0029506
%RSD	195.9030	8.440742	.0971182	28.31779	9.878407	2.371962	3.406380
#1	.000023	.0017385	2.388092	.0032301	.0046814	1.166881	.0894909
#2	-.000027	.0014808	2.388747	.0040508	.0045807	1.122380	.0835957
#3	-.000058	.0016967	2.384444	.0022532	.0038863	1.118317	.0867754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4380207	.5171691	.0355445	-.000649	329.6412	.0018460	.3857254
Stddev	.0040341	.0039014	.0010501	.000365	3.6768	.0008131	.0038877
%RSD	.9209836	.7543754	2.954441	56.17604	1.115392	44.04687	1.007893
#1	.4333889	.5215492	.0367389	-.000720	325.5472	.0012285	.3812469
#2	.4399084	.5140670	.0347657	-.000973	330.7144	.0027672	.3876971
#3	.4407649	.5158910	.0351290	-.000254	332.6619	.0015422	.3882321

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6987302	.0695930	.0000130	-.001159	.0003316	1.065481	.0074878
Stddev	.0244043	.0012425	.0003282	.000320	.0009418	.017602	.0012822
%RSD	3.492660	1.785378	2518.369	27.64892	283.9959	1.652007	17.12352
#1	.7205293	.0710108	.0002679	-.001360	.0014153	1.079102	.0063468
#2	.7032959	.0690740	.0001285	-.001327	-.000131	1.045606	.0072413
#3	.6723656	.0686941	-.000357	-.000789	-.000289	1.071734	.0088753

Sample Name: O5284-04 Acquired: 11/9/2023 17:19:21 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.425758**	**-.001769**	**.0094538**
Stddev	.132328	.004599	.0001380
%RSD	2.438881	260.0381	1.459774
#1	5.577992	.003513	.0093297
#2	5.361018	-.004894	.0096024
#3	5.338266	-.003924	.0094294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1851.850**	**34613.92**	**5888.461**	**1808.514**	**2156.827**
Stddev	37.838	86.64	16.044	15.205	43.900
%RSD	2.043242	.2503040	.2724625	.8407399	2.035392
#1	1808.166	34684.12	5890.153	1825.430	2106.166
#2	1873.032	34517.09	5871.639	1795.984	2180.660
#3	1874.353	34640.55	5903.592	1804.128	2183.657

Sample Name: O5285-01 Acquired: 11/9/2023 17:23:27 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0045508	.0024292	.0011280	.0011449	.0040821	-.045825
Stddev	.0017766	.0047647	.0003103	.0080247	.0028572	.016595
%RSD	39.03946	196.1479	27.51047	700.8897	69.99451	36.21466
#1	.0031536	.0075969	.0012925	-.007693	.0027156	-.027001
#2	.0065502	-.001790	.0013215	.003151	.0021647	-.052129
#3	.0039485	.001480	.0007701	.007976	.0073659	-.058344

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257173	.0000411	.0000590	152.9972	.0021942	.0255280
Stddev	.0030056	.0000479	.0000226	3.2317	.0001649	.0006182
%RSD	11.68697	116.6477	38.35378	2.112232	7.516592	2.421713
#1	.0223084	.0000082	.0000801	149.2682	.0022089	.0260840
#2	.0279855	.0000961	.0000351	154.7400	.0020224	.0248623
#3	.0268581	.0000190	.0000618	154.9834	.0023513	.0256377

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010843	4.388424	.4261683	15.07576	.0106827	-.000502
Stddev	.0006895	.049273	.0102173	.33402	.0001260	.000204
%RSD	63.58329	1.122805	2.397468	2.215625	1.179445	40.57239
#1	.0017227	4.351348	.4143704	14.69033	.0106017	-.000534
#2	.0003532	4.369586	.4320618	15.25613	.0108278	-.000284
#3	.0011772	4.444337	.4320726	15.28082	.0106184	-.000688

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	377.5524	.0031365	.1485761	2.675400	.0895739	.0025799
Stddev	5.9367	.0027387	.0003439	.059681	.0018281	.0003408
%RSD	1.572427	87.31690	.2314551	2.230736	2.040874	13.20789
#1	370.7361	.0062384	.1484356	2.694075	.0875120	.0022663
#2	381.5919	.0021189	.1483248	2.608614	.0909963	.0025308
#3	380.3292	.0010523	.1489680	2.723510	.0902134	.0029425

Sample Name: O5285-01 Acquired: 11/9/2023 17:23:27 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005832	-.001530	F 17.30250	F 15.81260	2.196972	.0032258
Stddev	.000308	.000574	.20125	.00936	.006109	.0011827
%RSD	5.285503	37.50303	1.163118	.0591926	.2780761	36.66272
#1	-.005587	-.001033	17.15458	15.80859	2.202516	.0033440
#2	-.005731	-.002158	17.22125	15.80592	2.190422	.0043450
#3	-.006178	-.001398	17.53167	15.82330	2.197979	.0019885

Elem	Sr4077
Units	ppm
Avg	.2612757
Stddev	.0058315
%RSD	2.231941
#1	.2545422
#2	.2646069
#3	.2646782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1809.813	33566.85	5743.162	1750.633	2082.929
Stddev	3.714	191.88	85.669	6.965	3.198
%RSD	.2052156	.5716440	1.491672	.3978388	.1535308
#1	1806.437	33548.17	5842.027	1748.043	2080.305
#2	1813.791	33767.39	5690.818	1758.522	2086.491
#3	1809.211	33384.99	5696.642	1745.335	2081.990

Sample Name: O5286-03 Acquired: 11/9/2023 17:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**.0054903**	**.0005511**	**.0025839**	**.0047035**	**.0044701**	**-.037250**
Stddev	.0010719	.0013597	.0015829	.0004652	.0026786	.004952
%RSD	19.52368	246.7035	61.25926	9.889836	59.92220	13.29380
#1	.0066911	-.000941	.0044010	.0043706	.0055030	-.040313
#2	.0046301	.000874	.0015044	.0045048	.0014288	-.031537
#3	.0051496	.001720	.0018464	.0052350	.0064784	-.039900

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0305781**	**-.000062**	**.0002629**	**129.1774**	**.0035850**	**.0170546**
Stddev	.0050579	.000061	.0000454	2.5173	.0005739	.0005094
%RSD	16.54080	98.34224	17.25644	1.948703	16.00854	2.986776
#1	.0251030	-.000035	.0002116	126.3540	.0040849	.0169489
#2	.0315551	-.000019	.0002791	129.9910	.0037119	.0166064
#3	.0350762	-.000132	.0002978	131.1873	.0029583	.0176086

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020002**	**6.266079**	**.6259356**	**10.02445**	**.0237465**	**-.001010**
Stddev	.0006261	.039043	.0134974	.20528	.0003465	.000580
%RSD	31.30148	.6230914	2.156355	2.047762	1.459336	57.40037
#1	.0023319	6.255784	.6110419	9.78965	.0234678	-.001371
#2	.0012780	6.309238	.6294059	10.11376	.0241345	-.000341
#3	.0023906	6.233214	.6373589	10.16995	.0236372	-.001319

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**387.8639**	**.0017305**	**.6963053**	**2.114086**	**.0719003**	**.0025227**
Stddev	3.0064	.0028058	.0023328	.041847	.0012920	.0007798
%RSD	.7751079	162.1355	.3350316	1.979448	1.796916	30.91095
#1	384.4419	-.001508	.6989888	2.090258	.0713647	.0029329
#2	390.0805	.003259	.6947606	2.089595	.0709623	.0016235
#3	389.0694	.003440	.6951664	2.162406	.0733740	.0030119

Sample Name: O5286-03 Acquired: 11/9/2023 17:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008846	-.000934	9.681356	F 31.57415	2.215849	.0011389
Stddev	.001175	.001056	.058904	.12112	.014061	.0018102
%RSD	13.27749	113.0146	.6084258	.3836010	.6345859	158.9457
#1	-.008911	-.001871	9.619902	31.71191	2.229601	-.000808
#2	-.007641	-.001140	9.686839	31.48439	2.216450	.001453
#3	-.009987	.000210	9.737327	31.52614	2.201497	.002772

Elem	Sr4077
Units	ppm
Avg	.1726336
Stddev	.0034372
%RSD	1.991037
#1	.1687792
#2	.1737409
#3	.1753806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1881.106	35377.11	5783.488	1814.057	2184.421
Stddev	12.064	74.52	92.564	8.047	9.948
%RSD	.6413163	.2106481	1.600488	.4436121	.4554057
#1	1867.430	35365.39	5888.750	1806.472	2173.357
#2	1890.235	35309.14	5746.921	1813.201	2192.628
#3	1885.654	35456.80	5714.793	1822.499	2187.278

Sample Name: O5291-02 Acquired: 11/9/2023 17:31:35 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.007577	-.005181	.0344083	-.005991	.0010140	-.044427	.1920920
Stddev	.001481	.001927	.0015625	.002282	.0025867	.006695	.0037750
%RSD	19.54171	37.19252	4.540934	38.08515	255.0897	15.06905	1.965201
#1	-.007346	-.003781	.0328561	-.003563	-.000975	-.039943	.1879035
#2	-.009160	-.007379	.0359808	-.006319	.003938	-.041216	.1952317
#3	-.006226	-.004383	.0343881	-.008091	.000079	-.052122	.1931409

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000056	.0009572	190.0787	.0102383	-.000253	.0078660	.0373161
Stddev	.000064	.0000528	.1405	.0009726	.000186	.0004725	.0019054
%RSD	115.8691	5.514190	.0739358	9.499997	73.39594	6.006409	5.105992
#1	-.000071	.0008998	189.9984	.0111588	-.000466	.0080272	.0378151
#2	.000015	.0009684	190.2410	.0103353	-.000175	.0082367	.0389223
#3	-.000111	.0010036	189.9968	.0092208	-.000120	.0073340	.0352109

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2288828	2.832964	.0084393	-.000698	344.5306	.0025820	.1895023
Stddev	.0011984	.023803	.0008873	.000465	8.1411	.0018578	.0059438
%RSD	.5235839	.8402236	10.51370	66.58280	2.362945	71.95255	3.136535
#1	.2277434	2.810282	.0086731	-.000171	353.8823	.0022994	.1962806
#2	.2301325	2.857749	.0074585	-.001050	339.0263	.0045650	.1851802
#3	.2287725	2.830860	.0091863	-.000874	340.6832	.0008817	.1870463

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.381551	.0298090	.0014749	-.007450	-.002047	3.477628	.0199510
Stddev	.111864	.0015145	.0002380	.000155	.002214	.077738	.0045502
%RSD	3.308075	5.080609	16.13998	2.075386	108.1648	2.235380	22.80709
#1	3.331749	.0307919	.0017458	-.007282	-.002232	3.567220	.0214782
#2	3.303236	.0305700	.0013796	-.007586	-.004162	3.428029	.0235412
#3	3.509667	.0280649	.0012992	-.007482	.000254	3.437633	.0148336

Sample Name: O5291-02 Acquired: 11/9/2023 17:31:35 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.303351**	**-.002652**	**.6492939**
Stddev	.096029	.002412	.0028919
%RSD	2.907017	90.96083	.4453874
#1	3.334895	-.003148	.6465154
#2	3.379640	-.000030	.6522872
#3	3.195517	-.004778	.6490790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1884.486**	**34148.54**	**5820.044**	**1776.589**	**2169.684**
Stddev	43.811	878.49	14.220	45.453	52.651
%RSD	2.324827	2.572568	.2443305	2.558437	2.426652
#1	1862.587	33135.78	5813.110	1724.126	2140.643
#2	1855.941	34605.05	5810.622	1804.128	2137.950
#3	1934.928	34704.80	5836.401	1801.513	2230.460

Sample Name: O5292-02 Acquired: 11/9/2023 17:35:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0003118	-.001691	.0057048	-.004033	.0034902	-.033805	.2855325
Stddev	.0042663	.010570	.0002389	.005997	.0009248	.005325	.0026274
%RSD	1368.495	625.1514	4.187582	148.6934	26.49656	15.75243	.9201592
#1	-.000116	-.003516	.0058252	-.002571	.0026299	-.039728	.2845775
#2	.004776	-.011229	.0058595	.001098	.0033724	-.029413	.2835162
#3	-.003725	.009673	.0054297	-.010626	.0044682	-.032274	.2885038

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000038	.0008361	152.5389	.0026834	-.000580	.0038150	.0142841
Stddev	.000078	.0000483	.6285	.0002015	.000069	.0005774	.0037944
%RSD	206.4492	5.781923	.4120217	7.507557	11.96858	15.13558	26.56372
#1	-.000034	.0007820	152.1088	.0026684	-.000648	.0044573	.0111216
#2	-.000117	.0008509	152.2476	.0024898	-.000581	.0033390	.0184914
#3	.000038	.0008753	153.2602	.0028919	-.000510	.0036486	.0132392

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0933524	4.725186	.0025212	-.000597	303.4776	.0042829	.3285056
Stddev	.0002556	.018093	.0004652	.000810	2.0059	.0024666	.0012276
%RSD	.2737910	.3829118	18.45264	135.6347	.6609800	57.59194	.3736979
#1	.0936407	4.704618	.0030569	-.000465	301.3336	.0029333	.3282410
#2	.0932629	4.738645	.0022181	.000139	305.3086	.0027857	.3274318
#3	.0931536	4.732295	.0022887	-.001464	303.7908	.0071299	.3298439

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.639925	.0344249	.0010885	-.005635	-.002144	3.283585	.0387380
Stddev	.017030	.0001984	.0005024	.001029	.000517	.032804	.0031831
%RSD	.4678784	.5763112	46.15072	18.26106	24.08954	.9990443	8.217091
#1	3.655659	.0342074	.0016236	-.006440	-.001615	3.245727	.0352066
#2	3.642273	.0345961	.0006269	-.004476	-.002647	3.301402	.0396209
#3	3.621842	.0344711	.0010150	-.005990	-.002170	3.303625	.0413865

Sample Name: O5292-02 Acquired: 11/9/2023 17:35:42 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.219351	-.000332	.6259969
Stddev	.010701	.002430	.0012480
%RSD	.4821733	731.8028	.1993629
#1	2.220388	-.002722	.6248897
#2	2.229495	.002136	.6257516
#3	2.208168	-.000411	.6273493

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1877.481	34828.35	5733.284	1806.636	2166.678
Stddev	5.303	87.75	19.961	7.282	11.092
%RSD	.2824355	.2519627	.3481551	.4030469	.5119493
#1	1871.361	34735.42	5715.556	1805.306	2156.539
#2	1880.367	34909.81	5754.904	1814.491	2164.970
#3	1880.715	34839.83	5729.392	1800.112	2178.526

Sample Name: O5295-04 Acquired: 11/9/2023 17:39:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000157**	**.0055046**	**.0033096**	**.0020163**	**-.000057**	**.1383866**	**.2420360**
Stddev	.002137	.0047138	.0006639	.0063994	.003132	.0091756	.0013076
%RSD	1360.982	85.63485	20.06015	317.3778	5511.846	6.630411	.5402430
#1	.002266	.0035111	.0027804	.0088677	-.000305	.1463115	.2431737
#2	-.001774	.0021150	.0030938	-.003807	-.003057	.1405142	.2406075
#3	-.000964	.0108876	.0040545	.000988	.003191	.1283341	.2423267

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004598**	**.0003862**	**6.196861**	**.0031598**	**.0025099**	**.0096366**	**.3057763**
Stddev	.0000277	.0000224	.016322	.0000917	.0000710	.0001078	.0067011
%RSD	6.017141	5.810860	.2633838	2.901525	2.830357	1.118469	2.191514
#1	.0004915	.0003987	6.179711	.0031473	.0025898	.0095517	.2992851
#2	.0004477	.0003603	6.198670	.0032571	.0024858	.0096002	.3053746
#3	.0004403	.0003996	6.212203	.0030751	.0024540	.0097579	.3126692

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.998407**	**1.291855**	**.0044471**	**-.000930**	**365.3656**	**.0014735**	**.0373113**
Stddev	.012856	.013866	.0000949	.000405	3.6282	.0008410	.0004840
%RSD	.6433258	1.073303	2.132826	43.58322	.9930459	57.07349	1.297092
#1	1.987898	1.281155	.0045565	-.000462	364.4881	.0022869	.0376264
#2	1.994582	1.286890	.0043970	-.001145	369.3521	.0006074	.0375534
#3	2.012742	1.307520	.0043878	-.001182	362.2566	.0015264	.0367541

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.351943**	**.0228188**	**.0001602**	**-.002218**	**.0040513**	**.5944598**	**.0141906**
Stddev	.048408	.0025990	.0005132	.000636	.0022466	.0238875	.0017965
%RSD	3.580625	11.38979	320.4095	28.67533	55.45259	4.018361	12.65973
#1	1.407709	.0258190	.0007217	-.002806	.0038669	.5950682	.0139321
#2	1.327370	.0212553	.0000434	-.001543	.0019027	.6180374	.0161024
#3	1.320749	.0213821	-.000285	-.002304	.0063844	.5702739	.0125374

Sample Name: O5295-04 Acquired: 11/9/2023 17:39:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3997038	-.001494	.0443294
Stddev	.0133769	.003260	.0002878
%RSD	3.346713	218.2480	.6493335
#1	.4030574	.001042	.0440403
#2	.4110849	-.005172	.0443320
#3	.3849692	-.000352	.0446160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1918.062	35341.24	5911.677	1851.062	2203.640
Stddev	22.511	494.50	30.410	26.495	27.166
%RSD	1.173653	1.399223	.5144132	1.431335	1.232798
#1	1913.168	35039.10	5906.962	1836.924	2198.051
#2	1898.401	35072.70	5944.170	1834.634	2179.703
#3	1942.619	35911.91	5883.900	1881.627	2233.166

Sample Name: O5311-03 Acquired: 11/9/2023 17:43:57 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000957**	**-.000997**	**.0651177**	**.0001796**	**.0013935**	**.2732540**	**.1975466**
Stddev	.005058	.005434	.0017359	.0026224	.0014201	.0086952	.0077625
%RSD	528.4245	544.8576	2.665786	1460.325	101.9102	3.182077	3.929462
#1	.003638	-.001866	.0632518	.0008738	.0015202	.2735220	.1885912
#2	-.006377	.004818	.0666848	-.002720	-.000086	.2818120	.2016967
#3	-.000133	-.005944	.0654166	.002385	.002746	.2644279	.2023520

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000784**	**.0006566**	**12.45493**	**.0031548**	**.0002145**	**.0237856**	**.2290240**
Stddev	.0000895	.0000525	.34259	.0001987	.0003554	.0001749	.0025500
%RSD	114.0642	8.003730	2.750673	6.299767	165.6689	.7352500	1.113417
#1	.0001813	.0005959	12.05942	.0033095	-.000157	.0238730	.2260903
#2	.0000186	.0006873	12.64593	.0029306	.000248	.0235843	.2307087
#3	.0000355	.0006866	12.65945	.0032241	.000552	.0238995	.2302730

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0454883**	**.6661793**	**.0021069**	**-.000357**	**359.6517**	**.0008965**	**.1346158**
Stddev	.0013579	.0213445	.0004989	.000393	5.3817	.0012999	.0000268
%RSD	2.985123	3.204016	23.67904	109.9185	1.496368	144.9952	.0198746
#1	.0440043	.6503817	.0023406	-.000757	353.6517	-.000487	.1346052
#2	.0457921	.6904614	.0015341	-.000344	364.0529	.001085	.1346462
#3	.0466686	.6576946	.0024461	.000029	361.2504	.002092	.1345959

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4019561**	**.0168807**	**-.000110**	**-.000875**	**.0073003**	**1.390869**	**.0553795**
Stddev	.1228599	.0009225	.000297	.001843	.0010188	.022539	.0026069
%RSD	30.56550	5.464677	269.0147	210.5158	13.95587	1.620497	4.707430
#1	.2614797	.0171048	-.000154	-.001922	.0069871	1.376527	.0563401
#2	.4550382	.0158669	.000206	.001252	.0084390	1.416848	.0573699
#3	.4893504	.0176706	-.000383	-.001957	.0064749	1.379233	.0524286

Sample Name: O5311-03 Acquired: 11/9/2023 17:43:57 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3351823	-.000872	.1160540
Stddev	.0080940	.000878	.0028036
%RSD	2.414814	100.6926	2.415778
#1	.3264114	-.001301	.1128274
#2	.3423638	-.001453	.1174394
#3	.3367715	.000138	.1178952

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1917.226	35477.03	5868.698	1841.055	2223.426
Stddev	.516	90.11	87.028	5.431	2.864
%RSD	.0268988	.2539834	1.482923	.2950120	.1287953
#1	1916.659	35413.18	5969.098	1836.106	2220.904
#2	1917.667	35437.82	5822.207	1840.193	2226.539
#3	1917.351	35580.10	5814.788	1846.865	2222.836

Sample Name: O5311-06 Acquired: 11/9/2023 17:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0016410	.0067542	.0042738	-.001325	.0020683	.3242737	.1471790
Stddev	.0017613	.0060168	.0011986	.004080	.0026874	.0028004	.0009347
%RSD	107.3348	89.08210	28.04548	307.9097	129.9346	.8635983	.6350883
#1	-.000014	.0136797	.0043073	-.001190	.0047946	.3266840	.1480790
#2	.001445	.0037704	.0030588	-.005470	-.000578	.3212017	.1462131
#3	.003492	.0028124	.0054553	.002686	.001989	.3249354	.1472449

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000319	.0001537	7.565449	.0032054	.0000820	.0112728	.2330554
Stddev	.0000416	.0000811	.036599	.0005130	.0002044	.0001409	.0064293
%RSD	130.3916	52.72518	.4837679	16.00497	249.3559	1.249547	2.758691
#1	.0000686	.0000615	7.523216	.0033235	-.000151	.0112985	.2315353
#2	.0000405	.0001863	7.587908	.0036490	.000230	.0111209	.2401085
#3	-.000013	.0002135	7.585222	.0026436	.000167	.0113991	.2275224

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132209	1.042549	.0011443	-.000281	346.9652	.0019845	.0476563
Stddev	.0004640	.030139	.0002117	.000190	8.2757	.0032980	.0006276
%RSD	3.509809	2.890869	18.50106	67.65334	2.385178	166.1859	1.316906
#1	.0127412	1.012168	.0011992	-.000306	339.0939	.0041063	.0469380
#2	.0136674	1.043039	.0009105	-.000080	346.2083	.0036624	.0479319
#3	.0132541	1.072439	.0013232	-.000458	355.5934	-.001815	.0480989

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5922553	.0182639	.0003086	-.002107	.0091964	1.172443	.0485931
Stddev	.0610085	.0007476	.0004124	.000931	.0016389	.038910	.0030320
%RSD	10.30104	4.093346	133.6068	44.17461	17.82142	3.318733	6.239627
#1	.5793301	.0182120	.0006513	-.001074	.0105670	1.131478	.0461319
#2	.5387450	.0175436	-.000149	-.002879	.0073810	1.208907	.0476674
#3	.6586907	.0190360	.000424	-.002369	.0096411	1.176945	.0519801

Sample Name: O5311-06 Acquired: 11/9/2023 17:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2033247	.0012148	.0463281
Stddev	.0024955	.0014704	.0002393
%RSD	1.227366	121.0463	.5165832
#1	.2016529	.0019684	.0460719
#2	.2061932	-.000480	.0463666
#3	.2021281	.002156	.0465459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.526	36717.19	5928.985	1884.122	2310.485
Stddev	9.127	115.72	22.162	7.951	12.385
%RSD	.4622577	.3151642	.3737967	.4219839	.5360462
#1	1964.160	36785.39	5909.700	1892.948	2297.222
#2	1978.058	36782.61	5953.196	1881.901	2312.484
#3	1981.360	36583.58	5924.059	1877.519	2321.749

Sample Name: O5311-09 Acquired: 11/9/2023 17:52:14 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0020804	-.003783	.0034144	-.000488	-.001434	.0777504	.1620561
Stddev	.0000653	.000436	.0003131	.004874	.001495	.0135828	.0017168
%RSD	3.139771	11.51500	9.170307	998.7270	104.2084	17.46972	1.059412
#1	.0020536	-.003425	.0037638	.004814	.000081	.0689595	.1630048
#2	.0021548	-.003656	.0031592	-.004774	-.001476	.0933945	.1630893
#3	.0020327	-.004268	.0033202	-.001504	-.002908	.0708972	.1600743

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000892	.0001062	9.331351	.0029636	.0000344	.0110439	.0740742
Stddev	.0000767	.0001270	.056414	.0002157	.0005083	.0006466	.0072657
%RSD	85.90726	119.5934	.6045603	7.276751	1478.209	5.854715	9.808744
#1	.0001052	.0001037	9.269281	.0030204	.0006195	.0110226	.0819425
#2	.0001567	-.000020	9.345271	.0027253	-.000218	.0104082	.0676184
#3	.0000058	.000234	9.379502	.0031452	-.000298	.0117009	.0726619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107378	1.224907	.0015640	-.000306	375.4665	.0012987	.0437076
Stddev	.0000851	.015078	.0002875	.000182	3.7538	.0052209	.0001566
%RSD	.7927673	1.230923	18.37974	59.58129	.9997767	401.9998	.3583418
#1	.0106792	1.213307	.0016073	-.000119	371.9157	.0039498	.0436140
#2	.0108355	1.219464	.0012573	-.000483	379.3948	.0046623	.0436204
#3	.0106988	1.241951	.0018273	-.000316	375.0889	-.004716	.0438884

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7844771	.0169788	.0001407	-.002182	.0027455	.7991954	.0477082
Stddev	.0649408	.0002103	.0001252	.000508	.0018138	.0056422	.0061613
%RSD	8.278225	1.238385	88.96145	23.25856	66.06420	.7059813	12.91451
#1	.7118152	.0171143	.0002399	-.001647	.0010338	.7946849	.0422606
#2	.8047616	.0170855	.0001823	-.002243	.0025563	.8055220	.0543949
#3	.8368545	.0167366	.0000000	-.002657	.0046466	.7973792	.0464692

Sample Name: O5311-09 Acquired: 11/9/2023 17:52:14 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2583487	-.004905	.0557077
Stddev	.0042196	.002800	.0002344
%RSD	1.633305	57.09210	.4207004
#1	.2566394	-.006138	.0554460
#2	.2552520	-.006877	.0557787
#3	.2631549	-.001700	.0558983

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1950.402	36247.50	5951.310	1877.968	2259.697
Stddev	16.556	42.10	34.053	6.363	17.294
%RSD	.8488269	.1161570	.5722006	.3388077	.7653194
#1	1957.963	36289.90	5917.408	1883.808	2265.553
#2	1961.827	36205.70	5951.011	1871.187	2273.304
#3	1931.416	36246.89	5985.512	1878.909	2240.236

Sample Name: CCV09 Acquired: 11/9/2023 17:56:22 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.090896**	**4.890792**	**4.980710**	**5.109625**	**4.952402**	**9.762023**	**9.558860**
Stddev	.002558	.111970	.001659	.006641	.001297	.117560	.084893
%RSD	.0502456	2.289412	.0333143	.1299655	.0261951	1.204261	.8881124
#1	5.088054	4.839891	4.982121	5.103796	4.952928	9.626281	9.461902
#2	5.091623	4.813315	4.978882	5.108224	4.950925	9.828843	9.619840
#3	5.093013	5.019171	4.981126	5.116854	4.953354	9.830943	9.594837

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2446424**	**2.502391**	**24.33839**	**.9856557**	**2.467031**	**1.248258**	**4.896356**
Stddev	.0031365	.001976	.17758	.0016962	.004341	.000470	.027487
%RSD	1.282093	.0789703	.7296101	.1720922	.1759614	.0376899	.5613795
#1	.2413546	2.504448	24.14158	.9876068	2.472043	1.247716	4.926687
#2	.2449705	2.500507	24.48662	.9848288	2.464567	1.248503	4.889289
#3	.2476019	2.502218	24.38698	.9845315	2.464482	1.248555	4.873093

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.454116**	**23.76638**	**2.450358**	**1.241815**	**25.14812**	**2.387820**	**2.472945**
Stddev	.032055	.22723	.004948	.002800	.09824	.021167	.010893
%RSD	1.306172	.9561190	.2019133	.2254857	.3906398	.8864422	.4404973
#1	2.422904	23.52815	2.455753	1.241585	25.20349	2.363880	2.460575
#2	2.452492	23.79026	2.446033	1.244722	25.20617	2.404056	2.477155
#3	2.486952	23.98073	2.449288	1.239136	25.03469	2.395523	2.481105

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.03047**	**4.847905**	**4.886396**	**4.912821**	**4.822053**	**5.111498**	**4.901993**
Stddev	.13888	.057130	.005428	.007402	.040724	.014545	.012514
%RSD	.5548345	1.178440	.1110797	.1506657	.8445431	.2845569	.2552880
#1	25.16333	4.784925	4.881337	4.911585	4.776140	5.095594	4.903027
#2	25.04181	4.862398	4.885723	4.906115	4.853813	5.114774	4.888994
#3	24.88627	4.896393	4.892130	4.920763	4.836205	5.124126	4.913959

Sample Name: CCV09 Acquired: 11/9/2023 17:56:22 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.117260**	**4.810277**	**5.005268**
Stddev	.013247	.041763	.097550
%RSD	.2588701	.8682102	1.948944
#1	5.117765	4.763017	4.919010
#2	5.103767	4.842215	4.985661
#3	5.130247	4.825599	5.111132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1903.610**	**35680.95**	**5811.597**	**1841.274**	**2233.866**
Stddev	3.774	248.86	38.873	6.946	3.839
%RSD	.1982436	.6974659	.6688931	.3772529	.1718619
#1	1902.408	35442.71	5855.997	1839.803	2230.585
#2	1900.583	35660.92	5783.688	1835.181	2232.924
#3	1907.838	35939.22	5795.105	1848.838	2238.088

Sample Name: CCB09 Acquired: 11/9/2023 18:00:09 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007169	-.002203	.0012800	-.000294	-.000783	-.017272	-.005515
Stddev	.0024636	.005046	.0016149	.007981	.002616	.017805	.001835
%RSD	343.6778	229.0855	126.1638	2718.274	334.3709	103.0831	33.27609
#1	.0015490	.003623	.0024062	-.001291	.000231	-.037301	-.004161
#2	-.002055	-.005201	.0020040	.008139	-.003754	-.011275	-.007604
#3	.002657	-.005031	-.000570	-.007729	.001176	-.003240	-.004780

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	.0001019	-.017791	.0001518	.0003890	-.000184	-.001524
Stddev	.0000800	.0000166	.013847	.0003972	.0003460	.000966	.001235
%RSD	115.6092	16.29171	77.83055	261.7256	88.94000	525.9712	81.06938
#1	-.000002	.0001203	-.002330	-.000240	.0000706	.000325	-.000130
#2	.000054	.0000970	-.021992	.000554	.0003392	-.001297	-.001958
#3	.000156	.0000882	-.029051	.000141	.0007573	.000422	-.002483

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000666	-.004220	.0005762	-.000241	.2415396	-.002897	.0000311
Stddev	.0002361	.002362	.0001720	.000214	.0255809	.004817	.0001901
%RSD	354.3482	55.97268	29.85326	88.77899	10.59078	166.2898	611.8250
#1	-.000115	-.001609	.0003818	-.000243	.2127313	-.007514	.0000986
#2	.000333	-.004844	.0006380	-.000453	.2502915	-.003273	-.000184
#3	-.000018	-.006208	.0007088	-.000026	.2615959	.002097	.000178

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2015762	.0049488	.0030255	.0154755	.0011757	.0057551	-.001806
Stddev	.0547981	.0017698	.0012523	.0006891	.0005470	.0048069	.005265
%RSD	27.18481	35.76121	41.39184	4.453106	46.52578	83.52411	291.4377
#1	.2186296	.0058961	.0044044	.0161411	.0016939	.0015048	.003836
#2	.1402791	.0060432	.0027133	.0155204	.0012293	.0047888	-.002668
#3	.2458199	.0029070	.0019588	.0147650	.0006038	.0109718	-.006587

Sample Name: CCB09 Acquired: 11/9/2023 18:00:09 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000615	.0036807	.0001830
Stddev	.002522	.0021401	.0000261
%RSD	410.0241	58.14495	14.24633
#1	-.000826	.0016352	.0001530
#2	.002006	.0059043	.0001959
#3	-.003025	.0035024	.0002002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2012.147	38122.81	5846.503	1947.929	2483.518
Stddev	7.975	191.53	29.520	5.523	13.165
%RSD	.3963265	.5024130	.5049251	.2835245	.5301119
#1	2014.653	37906.61	5861.906	1944.850	2484.541
#2	2003.221	38190.55	5812.467	1944.632	2469.871
#3	2018.568	38271.26	5865.136	1954.305	2496.142

Sample Name: O5311-12 Acquired: 11/9/2023 18:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0010080	-.001281	.3140272	.0010486	.0029784	.1131275	.2924332
Stddev	.0046408	.001352	.0014291	.0017418	.0025331	.0064367	.0029559
%RSD	460.4059	105.5257	.4551022	166.1098	85.04970	5.689728	1.010794
#1	.0018998	.000004	.3124126	.0028937	.0005734	.1057310	.2891082
#2	-.004014	-.002691	.3151298	-.000567	.0027390	.1161934	.2934281
#3	.005138	-.001156	.3145393	.000819	.0056227	.1174580	.2947632

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001223	.0068058	43.16866	.0039253	.0002603	.2073763	.1200330
Stddev	.0000589	.0000767	.10251	.0007571	.0001727	.0005509	.0114022
%RSD	48.19735	1.127516	.2374662	19.28854	66.34393	.2656355	9.499245
#1	.0000687	.0067441	43.05070	.0034718	.0004163	.2080076	.1161533
#2	.0001854	.0067816	43.23621	.0047994	.0000748	.2071283	.1110769
#3	.0001128	.0068918	43.21906	.0035047	.0002898	.2069931	.1328688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2827606	6.289885	.0088474	-.000734	373.1398	-.001363	.7460345
Stddev	.0002464	.012832	.0002076	.000848	6.0138	.001924	.0013246
%RSD	.0871248	.2040041	2.346551	115.5451	1.611676	141.2295	.1775552
#1	.2827123	6.282179	.0089314	.000184	366.2143	-.001944	.7472322
#2	.2830275	6.304698	.0086110	-.000898	376.1615	-.002929	.7446118
#3	.2825419	6.282778	.0089999	-.001487	377.0435	.000786	.7462596

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9342725	.0284931	.0009523	-.004188	.0041205	1.532229	.0340599
Stddev	.0837472	.0018929	.0002235	.002231	.0027065	.019873	.0030256
%RSD	8.963897	6.643405	23.46840	53.25886	65.68380	1.297009	8.883067
#1	1.002385	.0264818	.0011212	-.001614	.0068524	1.509514	.0322306
#2	.840768	.0302398	.0010369	-.005406	.0040689	1.540759	.0323969
#3	.959665	.0287578	.0006989	-.005545	.0014401	1.546412	.0375522

Sample Name: O5311-12 Acquired: 11/9/2023 18:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4212542	-.002751	.1453807
Stddev	.0041551	.002071	.0006413
%RSD	.9863725	75.27612	.4410906
#1	.4196208	-.004732	.1447229
#2	.4181640	-.002919	.1454151
#3	.4259779	-.000601	.1460040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1852.342	34469.82	5747.203	1805.442	2124.467
Stddev	1.327	76.30	12.967	1.329	2.661
%RSD	.0716464	.2213433	.2256269	.0736361	.1252514
#1	1853.685	34444.60	5747.597	1804.653	2127.523
#2	1851.032	34555.53	5734.044	1804.696	2123.210
#3	1852.309	34409.33	5759.969	1806.977	2122.666

Sample Name: O5311-15 Acquired: 11/9/2023 18:08:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.002142**	**-.001454**	**.0216543**	**-.001169**	**-.000592**	**.1608420**	**.1974107**
Stddev	.003134	.002588	.0026844	.004463	.000482	.0100758	.0030068
%RSD	146.2978	178.0050	12.39664	381.8833	81.41912	6.264408	1.523127
#1	-.000067	-.004390	.0243242	.003983	-.000053	.1520952	.1973703
#2	-.005747	-.000462	.0216830	-.003610	-.000741	.1718593	.2004375
#3	-.000612	.000492	.0189556	-.003879	-.000981	.1585714	.1944243

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000967**	**.0010527**	**49.60868**	**.0027006**	**.0018490**	**.0230949**	**.1796674**
Stddev	.0000250	.0001427	.30663	.0007191	.0005226	.0002825	.0093754
%RSD	25.84511	13.55223	.6181018	26.62837	28.26373	1.223120	5.218184
#1	.0001221	.0009001	49.28620	.0026841	.0023356	.0228139	.1904679
#2	.0000722	.0010752	49.89652	.0034278	.0012966	.0230920	.1736273
#3	.0000957	.0011827	49.64332	.0019898	.0019147	.0233788	.1749069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4533267**	**6.081696**	**.0055439**	**-.000288**	**311.8607**	**.0027445**	**.2387257**
Stddev	.0023350	.040311	.0002835	.000253	1.5822	.0015009	.0015709
%RSD	.5150816	.6628302	5.114047	88.11594	.5073351	54.68631	.6580180
#1	.4513054	6.076165	.0054906	-.000063	310.0340	.0042317	.2396553
#2	.4558827	6.124487	.0052908	-.000237	312.7455	.0012303	.2396098
#3	.4527922	6.044435	.0058503	-.000562	312.8025	.0027716	.2369121

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5839261**	**.0329345**	**.0005677**	**-.003864**	**.0056776**	**1.219252**	**.0165731**
Stddev	.1530131	.0005507	.0003687	.000804	.0006858	.021555	.0041483
%RSD	26.20418	1.671970	64.94410	20.80444	12.07957	1.767858	25.03020
#1	.4853114	.0324755	.0009050	-.004071	.0056907	1.195187	.0132413
#2	.7601955	.0327829	.0006242	-.002977	.0063568	1.225783	.0212193
#3	.5062715	.0335451	.0001741	-.004545	.0049853	1.236785	.0152585

Sample Name: O5311-15 Acquired: 11/9/2023 18:08:16 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3083491	-.001414	.1331275
Stddev	.0051410	.002443	.0006520
%RSD	1.667248	172.6996	.4897382
#1	.3142842	-.003172	.1325945
#2	.3052793	-.002447	.1338544
#3	.3054838	.001375	.1329336

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1970.413	36825.12	5639.152	1883.929	2306.139
Stddev	4.025	250.98	23.456	14.551	10.945
%RSD	.2042689	.6815567	.4159525	.7723652	.4745946
#1	1966.937	36718.56	5634.866	1883.773	2304.137
#2	1974.823	36645.00	5618.135	1869.457	2317.947
#3	1969.480	37111.81	5664.456	1898.557	2296.334

Sample Name: O5311-18 Acquired: 11/9/2023 18:12:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.006276	-.004621	.0507389	.0007121	.0028171	.0732389	.4303045
Stddev	.005782	.006825	.0023726	.0005876	.0021845	.0087794	.0293572
%RSD	92.11463	147.6973	4.676164	82.51162	77.54358	11.98736	6.822427
#1	-.004961	.001029	.0526513	.0006995	.0013295	.0803935	.4450897
#2	-.012602	-.002688	.0480838	.0001310	.0053250	.0634418	.3964942
#3	-.001266	-.012203	.0514818	.0013059	.0017966	.0758815	.4493295

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000965	.0233467	33.11979	.0031876	.0000074	.0487179	.0895296
Stddev	.0000661	.0000541	1.83363	.0005568	.0004397	.0008271	.0144703
%RSD	68.49283	.2315673	5.536352	17.46874	5973.352	1.697800	16.16261
#1	.0000929	.0233985	34.10397	.0025475	-.000428	.0479715	.0742042
#2	.0001643	.0232906	31.00420	.0034547	-.000001	.0496072	.0914270
#3	.0000323	.0233509	34.25119	.0035605	.000451	.0485751	.1029577

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1660984	4.521523	.0058826	-.000541	341.9364	.0012809	2.504296
Stddev	.0099516	.244006	.0004031	.000404	4.3636	.0024243	.001412
%RSD	5.991392	5.396546	6.851555	74.67852	1.276158	189.2656	.0563944
#1	.1718057	4.658103	.0057967	-.000995	336.8977	-.001470	2.502901
#2	.1546074	4.239812	.0063216	-.000221	344.4717	.002206	2.504263
#3	.1718822	4.666654	.0055294	-.000407	344.4397	.003106	2.505725

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8582529	.0221468	.0003206	-.004512	.0038387	1.707902	.0395331
Stddev	.0425652	.0010204	.0004229	.001114	.0010624	.026568	.0041674
%RSD	4.959522	4.607296	131.8879	24.69311	27.67532	1.555603	10.54140
#1	.8113314	.0233247	.0002652	-.005655	.0043152	1.698660	.0440479
#2	.8690417	.0215801	-.000072	-.003429	.0026215	1.687189	.0358337
#3	.8943856	.0215355	.000768	-.004454	.0045795	1.737856	.0387177

Sample Name: O5311-18 Acquired: 11/9/2023 18:12:23 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4931257	.0005731	.1606662
Stddev	.0032421	.0014759	.0087300
%RSD	.6574506	257.5539	5.433633
#1	.4908311	.0020256	.1655147
#2	.4968347	-.000925	.1505880
#3	.4917113	.000619	.1658959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1876.750	34876.90	5758.088	1813.997	2166.969
Stddev	3.926	100.54	273.308	.167	6.883
%RSD	.2091893	.2882819	4.746502	.0092190	.3176272
#1	1876.861	34873.46	5583.668	1814.187	2163.572
#2	1872.771	34979.12	6073.071	1813.932	2162.446
#3	1880.620	34778.12	5617.525	1813.872	2174.890

Sample Name: O5317-05 Acquired: 11/9/2023 18:16:30 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.008000**	**.0001277**	**.0006608**	**.0016694**	**-.000608**	**.0636816**	**.2217575**
Stddev	.003246	.0031513	.0004249	.0079467	.001539	.0083714	.0058455
%RSD	40.57750	2467.974	64.29750	476.0121	253.0252	13.14571	2.635992
#1	-.010611	-.000085	.0009339	-.001098	-.001458	.0655911	.2150375
#2	-.009023	-.002912	.0008771	-.004523	.001169	.0709334	.2256658
#3	-.004365	.003380	.0001713	.010630	-.001536	.0545205	.2245693

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000184**	**.0000250**	**10.35850**	**.0035923**	**-.000118**	**.0014436**	**.3115422**
Stddev	.0000482	.0001241	.14853	.0004294	.000077	.0009527	.0179239
%RSD	262.0390	496.9589	1.433885	11.95427	65.43553	65.99525	5.753291
#1	-.000028	-.000112	10.18782	.0035313	-.000154	.0016038	.2911393
#2	.000069	.000130	10.42927	.0031966	-.000030	.0004210	.3247533
#3	.000014	.000056	10.45841	.0040490	-.000172	.0023061	.3187339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0171244**	**.2480018**	**.0012689**	**-.000817**	**357.3009**	**.0027489**	**1.311220**
Stddev	.0004643	.0160821	.0002707	.000336	16.3124	.0025219	.069388
%RSD	2.711433	6.484665	21.32928	41.07725	4.565447	91.74181	5.291833
#1	.0167661	.2663864	.0013160	-.001020	338.8290	.0029367	1.234521
#2	.0176490	.2365426	.0009778	-.000430	369.7283	.0001384	1.369634
#3	.0169581	.2410765	.0015130	-.001003	363.3454	.0051716	1.329505

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9429164**	**.0715424**	**.0022654**	**.0032788**	**.0019349**	**.2494193**	**.2020310**
Stddev	.0912590	.0010361	.0004511	.0011255	.0015551	.0007691	.0021409
%RSD	9.678374	1.448215	19.91287	34.32707	80.37168	.3083625	1.059709
#1	.8529247	.0711301	.0021895	.0032085	.0036545	.2493727	.2027456
#2	1.035392	.0727212	.0018571	.0021901	.0006272	.2486745	.2037232
#3	.940433	.0707760	.0027496	.0044379	.0015229	.2502106	.1996241

Sample Name: O5317-05 Acquired: 11/9/2023 18:16:30 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.674207**	**-.000452**	**.0128872**
Stddev	.008790	.003480	.0001726
%RSD	.2392311	769.7246	1.339612
#1	3.665033	-.004061	.0126879
#2	3.682554	-.000179	.0129809
#3	3.675032	.002883	.0129927

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1873.902**	**35098.57**	**5793.299**	**1828.441**	**2187.548**
Stddev	4.672	1425.56	51.601	79.098	7.840
%RSD	.2493027	4.061601	.8907087	4.325983	.3583753
#1	1868.544	36686.87	5850.364	1917.145	2178.717
#2	1877.117	33929.96	5779.611	1765.243	2193.685
#3	1876.046	34678.90	5749.921	1802.934	2190.243

Sample Name: O5317-06 Acquired: 11/9/2023 18:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.003361**	**-.001683**	**-.000026**	**.0009905**	**-.003079**	**.0097643**	**-.014836**
Stddev	.003724	.001878	.001609	.0010754	.000731	.0088167	.001966
%RSD	110.7994	111.5600	6298.213	108.5642	23.74082	90.29518	13.24990
#1	-.000894	.000113	-.000867	.0018645	-.003922	.0183861	-.015334
#2	-.007644	-.003633	.001830	.0013174	-.002673	.0007649	-.016505
#3	-.001544	-.001530	-.001039	-.000210	-.002640	.0101419	-.012669

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000825**	**.0000781**	**-.006372**	**.0006096**	**.0000448**	**.0097535**	**.0576880**
Stddev	.0000735	.0000733	.010733	.0002610	.0001923	.0004492	.0021388
%RSD	89.06995	93.85523	168.4348	42.82019	429.5008	4.605161	3.707574
#1	-.000002	.0001363	-.013299	.0003832	.0001659	.0092369	.0580732
#2	.000116	.0001021	-.011809	.0005505	-.000177	.0099722	.0553828
#3	.000133	-.000004	.005991	.0008952	.000145	.0100515	.0596081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110480**	**-.004551**	**.0007045**	**-.000177**	**.1981581**	**.0046843**	**.0119645**
Stddev	.0001337	.014950	.0003903	.000070	.0143049	.0011651	.0001226
%RSD	1.210096	328.5195	55.40308	39.55627	7.218933	24.87266	1.024783
#1	.0110810	-.016307	.0005720	-.000225	.2113789	.0037457	.0120086
#2	.0111620	-.009619	.0011438	-.000097	.2001231	.0043190	.0118259
#3	.0109008	.012275	.0003977	-.000209	.1829723	.0059884	.0120589

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1625619**	**.0019520**	**.0005884**	**-.002073**	**.0018585**	**.0117610**	**.0167191**
Stddev	.0516475	.0022419	.0000741	.000775	.0015974	.0176416	.0029384
%RSD	31.77100	114.8528	12.59459	37.41487	85.95165	150.0013	17.57501
#1	.2131742	.0030708	.0005751	-.001334	.0035854	.0132315	.0150311
#2	.1645735	.0034143	.0005218	-.002880	.0004337	.0286213	.0201120
#3	.1099379	-.000629	.0006682	-.002003	.0015564	-.006570	.0150141

Sample Name: O5317-06 Acquired: 11/9/2023 18:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1540273	-.000046	-.000118
Stddev	.0057482	.002829	.000023
%RSD	3.731924	6169.529	19.77490
#1	.1526859	-.000690	-.000128
#2	.1603275	-.002497	-.000092
#3	.1490683	.003049	-.000136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2186.173	41336.89	6352.451	2146.914	2760.975
Stddev	3.568	181.65	9.228	17.827	8.049
%RSD	.1632111	.4394436	.1452663	.8303394	.2915319
#1	2188.459	41542.33	6361.252	2166.584	2762.122
#2	2187.998	41270.85	6353.252	2142.330	2768.389
#3	2182.061	41197.50	6342.849	2131.826	2752.414

Sample Name: O5318-01 Acquired: 11/9/2023 18:24:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**1.171573**	**.0029886**	**.0174599**	**.0007430**	**.0035343**	**.0307383**
Stddev	.002699	.0100671	.0015836	.0082908	.0018896	.0046122
%RSD	.2303778	336.8493	9.069788	1115.809	53.46504	15.00484
#1	1.174589	.0144746	.0186543	-.008777	.0018967	.0269676
#2	1.170746	-.001205	.0180618	.006376	.0056019	.0358808
#3	1.169384	-.004303	.0156636	.004631	.0031044	.0293665

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.664355**	**.0001607**	**.0014171**	**6.019396**	**.0581923**	**.0087037**
Stddev	.004978	.0000612	.0000650	.012226	.0003323	.0001807
%RSD	.1358575	38.07957	4.584654	.2031105	.5710330	2.075983
#1	3.659120	.0002202	.0014694	6.022444	.0584214	.0087495
#2	3.669029	.0000979	.0014376	6.029810	.0583443	.0085045
#3	3.664915	.0001641	.0013444	6.005934	.0578112	.0088571

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0442546**	**27.34057**	**1.261712**	**2.624903**	**.2215360**	**.0009100**
Stddev	.0003089	.14273	.009334	.013699	.0005294	.0004939
%RSD	.6979745	.5220358	.7397753	.5218927	.2389555	54.27236
#1	.0439292	27.27547	1.251183	2.612076	.2215737	.0014727
#2	.0445438	27.50424	1.264983	2.639333	.2220456	.0005486
#3	.0442909	27.24200	1.268971	2.623300	.2209888	.0007086

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**447.2260**	**2.189509**	**.6218816**	F **1070.169**	**1.486442**	**.0301364**
Stddev	4.7621	.006433	.0033349	7.406	.000464	.0003437
%RSD	1.064808	.2937959	.5362550	.6919997	.0312363	1.140353
#1	441.7396	2.183160	.6180521	1070.896	1.486232	.0299248
#2	450.2892	2.189345	.6241464	1077.184	1.486120	.0305329
#3	449.6491	2.196022	.6234464	1062.427	1.486974	.0299515

Sample Name: O5318-01 Acquired: 11/9/2023 18:24:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201499	.0030135	.9408605	F 18.19979	F 303.4979	.4993315
Stddev	.0010368	.0008064	.0118161	.02732	1.0056	.0049297
%RSD	5.145630	26.75932	1.255881	.1500896	.3313232	.9872561
#1	.0202382	.0023145	.9542260	18.16871	303.9826	.5045878
#2	.0211398	.0028302	.9365531	18.21066	304.1692	.4948111
#3	.0190718	.0038957	.9318024	18.22000	302.3417	.4985956

Elem	Sr4077
Units	ppm
Avg	.2579856
Stddev	.0013575
%RSD	.5261964
#1	.2564184
#2	.2587432
#3	.2587952

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1782.803	32535.87	5703.980	1717.258	2006.225
Stddev	2.752	82.12	20.692	4.080	4.121
%RSD	.1543899	.2523986	.3627714	.2375768	.2053992
#1	1779.645	32489.32	5681.854	1721.968	2002.324
#2	1784.070	32487.60	5722.853	1714.825	2005.815
#3	1784.693	32630.69	5707.234	1714.981	2010.535

Sample Name: PB156694TB Acquired: 11/9/2023 18:28:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	**-.000668**	**.0001646**	**.0015879**	**.0000010**	**-.001981**	**-.006812**
Stddev	.004277	.0038513	.0017023	.0018597	.001071	.010097
%RSD	640.5538	2340.148	107.2039	193603.5	54.03855	148.2276
#1	.000761	.0040143	-.000196	.0021250	-.000745	-.012719
#2	.002712	.0001676	.001764	-.001335	-.002624	.004847
#3	-.005476	-.003688	.003195	-.000788	-.002575	-.012563

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004424**	**.0000041**	**.0001158**	**-.023812**	**-.000291**	**.0002457**
Stddev	.000989	.0000522	.0000617	.012127	.000257	.0000262
%RSD	22.35036	1278.447	53.31209	50.92884	88.57565	10.67662
#1	-.004485	-.000042	.0001789	-.031071	-.000418	.0002474
#2	-.003405	-.000007	.0000555	-.009812	.000006	.0002711
#3	-.005380	.000061	.0001131	-.030554	-.000459	.0002187

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002079**	**.0163759**	**.0000833**	**-.014785**	**.0003720**	**-.000391**
Stddev	.0002625	.0040063	.0002208	.033626	.0002327	.000915
%RSD	126.2700	24.46447	265.0970	227.4375	62.55452	234.1471
#1	.0003672	.0117563	-.000165	.014965	.0005403	.000557
#2	-.000095	.0188970	.000258	-.008051	.0004692	-.000459
#3	.000351	.0184745	.000157	-.051269	.0001065	-.001270

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5950385**	**.0007256**	**.0000581**	F **1.222656**	**.0014979**	**.0000199**
Stddev	.0625287	.0030679	.0002667	.063715	.0009606	.0005903
%RSD	10.50835	422.8322	459.1315	5.211174	64.12917	2969.251
#1	.5241967	.0016432	.0001252	1.156683	.0004323	.0006683
#2	.6183795	.0032300	-.000236	1.283842	.0017639	-.000122
#3	.6425393	-.002696	.000285	1.227442	.0022974	-.000486

Sample Name: PB156694TB Acquired: 11/9/2023 18:28:48 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157276	-.000992	-.012111	F .0638982	F .0147486	.0070092
Stddev	.0011601	.000930	.017852	.0050757	.0013311	.0024118
%RSD	7.376194	93.70803	147.4012	7.943394	9.025196	34.40851
#1	.0147239	-.001941	-.029516	.0689779	.0152572	.0058094
#2	.0154612	-.000952	.006156	.0638900	.0132382	.0054327
#3	.0169977	-.000083	-.012973	.0588266	.0157504	.0097856

Elem	Sr4077
Units	ppm
Avg	-.000040
Stddev	.000012
%RSD	30.83015
#1	-.000054
#2	-.000032
#3	-.000034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1977.357	37339.65	5755.977	1921.656	2424.614
Stddev	.535	60.58	37.526	6.834	3.800
%RSD	.0270754	.1622354	.6519409	.3556430	.1567348
#1	1976.816	37388.61	5716.308	1913.952	2425.314
#2	1977.886	37358.43	5760.713	1924.028	2428.015
#3	1977.370	37271.90	5790.910	1926.988	2420.512

Sample Name: CCV10 Acquired: 11/9/2023 18:32:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.802509**	**4.899608**	**4.857182**	**4.776371**	**4.742121**	**9.708675**	**9.533787**
Stddev	.011801	.092264	.006159	.005638	.007321	.071269	.050221
%RSD	.2457211	1.883083	.1268052	.1180358	.1543906	.7340719	.5267642
#1	4.805927	4.830009	4.853868	4.771579	4.733667	9.644860	9.487648
#2	4.789376	4.864553	4.853389	4.774952	4.746303	9.695583	9.526434
#3	4.812223	5.004261	4.864289	4.782583	4.746392	9.785582	9.587279

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2436664**	**2.424597**	**24.10435**	**.9577286**	**2.395445**	**1.204408**	**4.560614**
Stddev	.0004187	.003712	.14731	.0005564	.004500	.001590	.040586
%RSD	.1718308	.1530814	.6111520	.0580912	.1878724	.1320374	.8899299
#1	.2439849	2.422788	23.95160	.9576965	2.392891	1.205971	4.519426
#2	.2431921	2.422137	24.11592	.9583004	2.392802	1.202792	4.600570
#3	.2438220	2.428867	24.24554	.9571891	2.400641	1.204461	4.561846

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.437294**	**23.81344**	**2.378109**	**1.182794**	**23.19344**	**2.378119**	**2.368310**
Stddev	.009524	.08881	.002365	.001648	.13222	.011607	.002091
%RSD	.3907489	.3729592	.0994582	.1392912	.5700722	.4880635	.0882776
#1	2.427061	23.72656	2.377410	1.184649	23.04102	2.365439	2.370067
#2	2.438920	23.80969	2.376172	1.181499	23.26214	2.380698	2.365997
#3	2.445899	23.90407	2.380745	1.182235	23.27717	2.388219	2.368865

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.36943**	**4.882258**	**4.860133**	**4.773517**	**4.816923**	**4.714661**	**4.635896**
Stddev	.09165	.008723	.006859	.009778	.031814	.049558	.004526
%RSD	.3921803	.1786636	.1411195	.2048472	.6604619	1.051137	.0976284
#1	23.29801	4.892044	4.861556	4.769254	4.784319	4.657616	4.639246
#2	23.47278	4.875301	4.852675	4.766594	4.818567	4.739264	4.630747
#3	23.33752	4.879429	4.866169	4.784704	4.847883	4.747103	4.637694

Sample Name: CCV10 Acquired: 11/9/2023 18:32:49 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.689214	4.803481	4.959302
Stddev	.016097	.024695	.084014
%RSD	.3432683	.5141131	1.694070
#1	4.681192	4.779647	4.871937
#2	4.678705	4.801840	4.966462
#3	4.707745	4.828956	5.039507

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.105	37633.31	5703.326	1902.057	2350.055
Stddev	5.286	31.56	12.762	5.576	4.614
%RSD	.2670877	.0838720	.2237587	.2931518	.1963146
#1	1974.751	37616.70	5694.138	1897.446	2348.976
#2	1984.987	37613.52	5717.898	1908.254	2355.113
#3	1977.576	37669.71	5697.943	1900.472	2346.077

Sample Name: CCB10 Acquired: 11/9/2023 18:36:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000793**	**.0027919**	**-.000566**	**.0011859**	**-.001604**	**-.019580**	**-.004841**
Stddev	.002659	.0016237	.002158	.0035781	.000856	.011140	.001237
%RSD	335.2589	58.15700	381.0568	301.7307	53.35456	56.89554	25.55612
#1	.000873	.0009196	-.002896	-.001197	-.000895	-.028996	-.005931
#2	-.003859	.0038127	-.000167	.005300	-.001363	-.007282	-.003496
#3	.000607	.0036435	.001364	-.000546	-.002555	-.022461	-.005096

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000015**	**.0000903**	**-.010944**	**-.000061**	**.0000763**	**-.000374**	**-.001596**
Stddev	.000012	.0000951	.005182	.000178	.0001264	.001019	.004914
%RSD	80.45357	105.4139	47.35108	289.6953	165.5883	272.3099	307.9967
#1	-.000024	-.000004	-.016875	.000126	.0001705	-.001292	.004059
#2	-.000001	.000186	-.007292	-.000084	.0001257	.000722	-.004014
#3	-.000021	.000089	-.008665	-.000227	-.000067	-.000552	-.004832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000252**	**-.010123**	**.0004939**	**-.000709**	**.2219049**	**.0007265**	**-.000023**
Stddev	.000168	.006867	.0004376	.000322	.0324365	.0037221	.000221
%RSD	66.39357	67.84045	88.60788	45.39077	14.61730	512.3264	970.5799
#1	-.000409	-.015923	.0009987	-.000552	.1847214	-.002322	-.000212
#2	-.000076	-.002540	.0002605	-.000496	.2366028	.004875	.000220
#3	-.000272	-.011904	.0002225	-.001080	.2443907	-.000373	-.000076

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2313601**	**.0044125**	**.0033402**	**.0161334**	**.0022003**	**.0075298**	**.0087189**
Stddev	.0811220	.0007224	.0007495	.0003601	.0017513	.0069939	.0062394
%RSD	35.06308	16.37090	22.43927	2.231755	79.59107	92.88255	71.56140
#1	.1525338	.0035961	.0041667	.0159327	.0005828	.0128911	.0097083
#2	.2269487	.0046726	.0031492	.0159185	.0040601	-.000381	.0144046
#3	.3145978	.0049687	.0027046	.0165491	.0019580	.010079	.0020440

Sample Name: CCB10 Acquired: 11/9/2023 18:36:37 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0023739	.0032278	.0001782
Stddev	.0033370	.0016307	.0001419
%RSD	140.5686	50.51986	79.61171
#1	.0057999	.0020387	.0002616
#2	.0021881	.0050867	.0002586
#3	-.000866	.0025580	.0000144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1928.038	36239.29	5790.780	1886.402	2338.355
Stddev	6.541	37.87	17.633	4.628	4.622
%RSD	.3392650	.1045133	.3044972	.2453356	.1976465
#1	1920.488	36273.91	5804.900	1890.927	2333.110
#2	1932.025	36245.13	5796.422	1886.601	2340.123
#3	1931.599	36198.84	5771.016	1881.678	2341.832

Sample Name: O5211-07 Acquired: 11/9/2023 18:40:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0961323	.0799715	.0381065	.0309500	.0032877	1110.581
Stddev	.0026074	.0059661	.0035545	.0071512	.0023787	11.480
%RSD	2.712337	7.460256	9.327737	23.10562	72.35072	1.033664
#1	.0986715	.0783709	.0344927	.0354147	.0043291	1103.186
#2	.0962638	.0865747	.0415985	.0347335	.0005659	1104.751
#3	.0934616	.0749690	.0382281	.0227019	.0049681	1123.805

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.367655	-.000776	.0020681	67.55149	.0449508	.0127474
Stddev	.003257	.000035	.0001798	.16365	.0005805	.0006994
%RSD	.2381678	4.565213	8.695168	.2422560	1.291319	5.486303
#1	1.364194	-.000816	.0018957	67.41953	.0446073	.0119402
#2	1.370661	-.000757	.0020541	67.50035	.0456210	.0131304
#3	1.368108	-.000753	.0022545	67.73461	.0446241	.0131716

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4004520	42.81621	F 57.10376	16.63195	.0637916	-.004911
Stddev	.0000703	.37099	.61576	.06006	.0011666	.001026
%RSD	.0175623	.8664674	1.078310	.3611103	1.828767	20.89898
#1	.4005047	42.41033	57.22653	16.61938	.0624765	-.004877
#2	.4003722	43.13781	56.43587	16.57917	.0641965	-.003901
#3	.4004792	42.90049	57.64888	16.69730	.0647018	-.005953

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	74.00871	.0409537	.2952676	8.550960	.0206293	.0062811
Stddev	.42358	.0048226	.0005952	.081568	.0002875	.0001669
%RSD	.5723368	11.77567	.2015861	.9539053	1.393811	2.656829
#1	73.54209	.0366144	.2952036	8.523253	.0204432	.0064408
#2	74.36899	.0401010	.2947069	8.642773	.0209605	.0061079
#3	74.11504	.0461458	.2958922	8.486855	.0204842	.0062947

Sample Name: O5211-07 Acquired: 11/9/2023 18:40:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004811	.1184115	F 43.38100	F 16.51692	F 55.09990	.0014670
Stddev	.0033526	.0009012	.27237	.10833	.39923	.0042077
%RSD	696.8423	.7610871	.6278495	.6558636	.7245487	286.8257
#1	.0036811	.1180539	43.07645	16.43010	54.75583	-.002814
#2	.0007679	.1177440	43.60125	16.48234	55.00624	.005598
#3	-.003006	.1194367	43.46531	16.63832	55.53763	.001617

Elem	Sr4077
Units	ppm
Avg	.2252517
Stddev	.0013080
%RSD	.5806918
#1	.2247435
#2	.2242740
#3	.2267375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2155.400	38344.79	6223.394	2058.472	2291.447
Stddev	3.199	177.17	22.297	9.266	5.501
%RSD	.1484007	.4620550	.3582738	.4501538	.2400777
#1	2158.788	38540.99	6219.896	2063.216	2296.580
#2	2152.433	38196.49	6247.233	2047.795	2292.121
#3	2154.978	38296.90	6203.053	2064.406	2285.639

Sample Name: O5283-07 Acquired: 11/9/2023 18:44:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0825624	.0533198	.0332893	.0179066	.0024876	864.8615
Stddev	.0108257	.0104888	.0037081	.0062912	.0037875	4.7098
%RSD	13.11212	19.67151	11.13907	35.13337	152.2537	.5445702
#1	.0928639	.0649511	.0332703	.0244544	-.001622	860.4927
#2	.0835440	.0445802	.0295908	.0119080	.003248	864.2410
#3	.0712794	.0504282	.0370070	.0173573	.005837	869.8508

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.387601	-.000487	.0018010	64.03738	.0382493	.0113880
Stddev	.004366	.000046	.0000441	.25792	.0004667	.0005211
%RSD	.3146149	9.367377	2.449269	.4027641	1.220228	4.575901
#1	1.382723	-.000457	.0018328	63.75614	.0387639	.0111350
#2	1.388942	-.000465	.0018196	64.09314	.0378533	.0119873
#3	1.391139	-.000540	.0017507	64.26286	.0381307	.0110418

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3883797	40.43173	F 47.42920	16.14315	.0592959	-.004967
Stddev	.0004324	.37639	.16050	.02997	.0005630	.000262
%RSD	.1113373	.9309225	.3384061	.1856413	.9494609	5.276494
#1	.3884413	40.00225	47.25697	16.10864	.0599440	-.005139
#2	.3879198	40.70418	47.57460	16.16259	.0590166	-.005097
#3	.3887780	40.58876	47.45602	16.15821	.0589273	-.004666

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	70.23097	.0389187	.2762122	8.613748	.0206807	.0045928
Stddev	.51298	.0027577	.0013871	.071092	.0036971	.0006657
%RSD	.7304120	7.085764	.5021980	.8253306	17.87707	14.49499
#1	69.65475	.0421026	.2763453	8.531713	.0178255	.0039979
#2	70.63792	.0373667	.2747634	8.657359	.0248568	.0053119
#3	70.40024	.0372866	.2775281	8.652172	.0193597	.0044685

Sample Name: O5283-07 Acquired: 11/9/2023 18:44:38 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003342	.1341318	F 34.99084	F 14.14870	F 46.39959	-.001204
Stddev	.0031612	.0027806	.28539	.01092	.11795	.003007
%RSD	945.8755	2.073062	.8156220	.0772065	.2542145	249.7242
#1	-.000247	.1319131	34.66855	14.16126	46.27142	.001270
#2	-.002496	.1332312	35.21153	14.14144	46.50359	-.004551
#3	.003746	.1372511	35.09243	14.14338	46.42375	-.000331

Elem	Sr4077
Units	ppm
Avg	.2044932
Stddev	.0006057
%RSD	.2961872
#1	.2038157
#2	.2049822
#3	.2046817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.938	37304.26	6132.814	2010.527	2226.852
Stddev	2.330	145.28	15.393	5.383	2.737
%RSD	.1121318	.3894550	.2509895	.2677583	.1228965
#1	2077.566	37417.92	6117.169	2013.520	2224.799
#2	2075.816	37140.57	6133.333	2004.312	2225.798
#3	2080.432	37354.29	6147.941	2013.749	2229.959

Sample Name: O5231-07 Acquired: 11/9/2023 18:48:36 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0973824	.0780351	.0355790	.0296432	-.002933	1202.050
Stddev	.0058024	.0114455	.0007508	.0040596	.006181	13.386
%RSD	5.958378	14.66716	2.110289	13.69490	210.7406	1.113611
#1	.0927988	.0890824	.0348215	.0323491	-.010006	1189.187
#2	.0954420	.0787938	.0363229	.0316052	.001426	1201.059
#3	.1039063	.0662291	.0355926	.0249753	-.000219	1215.904

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.660536	-.000300	.0021415	70.50094	.0484989	.0116699
Stddev	.017543	.000060	.0002773	.62552	.0001467	.0001192
%RSD	1.056494	19.92641	12.95042	.8872519	.3025579	1.021267
#1	1.641401	-.000268	.0019190	69.83048	.0484068	.0115793
#2	1.664345	-.000264	.0020533	70.60348	.0486681	.0116254
#3	1.675862	-.000369	.0024522	71.06885	.0484219	.0118049

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3681433	38.60814	F 53.24085	16.34376	.0744820	-.005090
Stddev	.0012494	.46087	.27415	.09239	.0001957	.000199
%RSD	.3393844	1.193701	.5149313	.5652714	.2627899	3.904868
#1	.3679123	38.11109	52.94567	16.24415	.0746782	-.005307
#2	.3694922	38.69204	53.28940	16.36047	.0742867	-.005049
#3	.3670256	39.02130	53.48749	16.42665	.0744810	-.004915

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	71.49534	.0291519	.4531973	10.34568	.0345937	.0059121
Stddev	.67724	.0011387	.0009036	.15667	.0011034	.0002726
%RSD	.9472535	3.906147	.1993912	1.514313	3.189694	4.610774
#1	70.76974	.0290589	.4524857	10.16611	.0333532	.0056965
#2	71.60557	.0303343	.4542140	10.41653	.0354659	.0062185
#3	72.11070	.0280626	.4528922	10.45442	.0349620	.0058212

Sample Name: O5231-07 Acquired: 11/9/2023 18:48:36 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012424	.1253152	F 45.46198	F 27.61597	F 56.56505	.0020488
Stddev	.0016693	.0012382	.38391	.06677	.16645	.0016456
%RSD	134.3569	.9880708	.8444576	.2417692	.2942712	80.32094
#1	-.000185	.1242276	45.03122	27.54769	56.37991	.0037091
#2	.003078	.1250553	45.58671	27.61911	56.61289	.0004182
#3	.000834	.1266627	45.76802	27.68111	56.70234	.0020192

Elem	Sr4077
Units	ppm
Avg	.2326826
Stddev	.0009569
%RSD	.4112446
#1	.2315796
#2	.2331778
#3	.2332904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2091.619	36776.11	6286.425	2024.424	2170.470
Stddev	5.177	44.18	10.612	4.154	3.674
%RSD	.2475054	.1201263	.1688011	.2051737	.1692904
#1	2093.875	36795.40	6275.563	2023.068	2172.967
#2	2095.285	36807.36	6296.767	2021.117	2172.193
#3	2085.697	36725.57	6286.944	2029.086	2166.251

Sample Name: O5298-07 Acquired: 11/9/2023 18:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	.0622241	.0430068	.0257752	.0147452	.0028082	686.6455
Stddev	.0042426	.0110543	.0021138	.0066304	.0012147	6.2291
%RSD	6.818182	25.70363	8.200804	44.96679	43.25750	.9071827
#1	.0632883	.0486513	.0250564	.0121808	.0035896	679.8691
#2	.0575507	.0302698	.0241146	.0097799	.0014087	687.9451
#3	.0658332	.0500994	.0281546	.0222748	.0034263	692.1224

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.341616	-.000498	.0012014	51.27116	.0286249	.0075275
Stddev	.006332	.000018	.0002483	.32817	.0006552	.0000214
%RSD	.4719726	3.541956	20.66501	.6400747	2.288801	.2845063
#1	1.335990	-.000509	.0010014	51.04490	.0290899	.0075070
#2	1.340384	-.000507	.0014793	51.12102	.0278756	.0075257
#3	1.348474	-.000477	.0011237	51.64754	.0289093	.0075497

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2955032	30.03205	37.48861	12.92715	.0435754	-.003791
Stddev	.0007966	.17877	.32928	.13270	.0004509	.000547
%RSD	.2695794	.5952787	.8783366	1.026539	1.034872	14.42808
#1	.2951145	29.90664	37.13975	12.77985	.0437569	-.003626
#2	.2964196	30.23676	37.53211	12.96425	.0430619	-.003346
#3	.2949755	29.95276	37.79397	13.03736	.0439072	-.004402

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.16496	.0318674	.1822450	6.536226	.0151130	.0029216
Stddev	.29756	.0004527	.0015001	.057015	.0025649	.0004409
%RSD	.5394033	1.420603	.8231136	.8722894	16.97142	15.09095
#1	55.09619	.0319881	.1807970	6.535654	.0165030	.0027209
#2	55.49089	.0313666	.1837922	6.593525	.0166829	.0034271
#3	54.90781	.0322475	.1821458	6.479500	.0121532	.0026168

Sample Name: O5298-07 Acquired: 11/9/2023 18:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001071	.0700622	F 24.80825	9.311680	F 33.73813	-.002518
Stddev	.001518	.0014165	.12435	.026624	.10700	.001964
%RSD	141.7406	2.021727	.5012609	.2859200	.3171529	77.97339
#1	.000649	.0684942	24.72204	9.330965	33.77809	-.000787
#2	-.001637	.0704432	24.95080	9.281304	33.61689	-.004652
#3	-.002224	.0712493	24.75191	9.322772	33.81939	-.002117

Elem	Sr4077
Units	ppm
Avg	.1659815
Stddev	.0016172
%RSD	.9743292
#1	.1642746
#2	.1661791
#3	.1674909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2155.992	39058.67	6219.041	2085.316	2362.997
Stddev	1.375	113.56	45.236	3.968	.249
%RSD	.0637579	.2907414	.7273860	.1902888	.0105555
#1	2157.467	38952.13	6225.567	2084.361	2362.966
#2	2154.747	39045.73	6260.660	2081.913	2363.261
#3	2155.762	39178.14	6170.896	2089.675	2362.765

Sample Name: LRCHECK 1 Acquired: 11/9/2023 18:56:33 Type: Unk
Method: NON EPA-6010-200.7(v2065) 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	-.109751	.0569884	-.038279	-.093057	.0238430	1901.316	.0091472
Stddev	.011361	.0095974	.002717	.009312	.0061669	10.424	.0007868
%RSD	10.35130	16.84102	7.098830	10.00625	25.86465	.5482740	8.601801
#1	-.121351	.0575323	-.035309	-.086253	.0252810	1913.113	.0099826
#2	-.098646	.0663023	-.040641	-.089250	.0291640	1893.346	.0084202
#3	-.109257	.0471306	-.038887	-.103669	.0170842	1897.490	.0090388

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062922	.0274574	1964.749	.0254615	.0097369	.0967432	943.8539
Stddev	.0001708	.0008609	1.125	.0002841	.0006545	.0066175	7.4203
%RSD	2.714452	3.135363	.0572503	1.115964	6.721992	6.840310	.7861747
#1	.0061250	.0267807	1965.982	.0256198	.0101513	.0892998	951.2859
#2	.0062852	.0284264	1963.779	.0256311	.0100771	.0989687	936.4453
#3	.0064664	.0271652	1964.487	.0251334	.0089824	.1019611	943.8304

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703864	1704.708	.0176043	-.030862	1651.860	.0219627	.0756202
Stddev	.0006868	4.447	.0002307	.001692	6.582	.0025284	.0006660
%RSD	.9758075	.2608472	1.310486	5.483512	.3984781	11.51220	.8807740
#1	.0709728	1706.149	.0174492	-.030433	1657.842	.0190653	.0749037
#2	.0705555	1708.256	.0178694	-.032728	1644.809	.0231006	.0757366
#3	.0696308	1699.720	.0174943	-.029426	1652.930	.0237222	.0762204

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1005.026	-.314057	.0071282	-.000005	-.037555	.4957365	.0818455
Stddev	9.413	.048378	.0017699	.005243	.000615	.0115639	.0175640
%RSD	.9365488	15.40432	24.82952	100986.2	1.636512	2.332679	21.45998
#1	1015.788	-.270548	.0055712	-.004290	-.037676	.5079638	.0977251
#2	1000.962	-.366155	.0067603	-.001567	-.036889	.4849759	.0629799
#3	998.329	-.305469	.0090531	.005841	-.038100	.4942697	.0848314

Sample Name: LRCHECK 1 Acquired: 11/9/2023 18:56:33 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2203736	-.003608	-.912541
Stddev	.0125096	.004887	.007508
%RSD	5.676526	135.4307	.8227854
#1	.2084320	-.005105	-.920015
#2	.2193061	.001852	-.904999
#3	.2333827	-.007572	-.912609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1498.819	27286.97	5113.954	1419.148	1551.816
Stddev	2.921	202.17	11.796	10.521	4.610
%RSD	.1948606	.7408976	.2306726	.7413453	.2970722
#1	1498.170	27067.40	5105.450	1409.105	1556.660
#2	1502.009	27465.43	5108.990	1430.089	1547.483
#3	1496.277	27328.06	5127.421	1418.251	1551.305

Sample Name: LRCHECK 2 Acquired: 11/9/2023 19:01:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213726	.0182994	247.6092	.0766615	.0314903	.7815639
Stddev	.0057855	.0013207	.1452	.0010604	.0057596	.0455235
%RSD	27.06974	7.217399	.0586222	1.383163	18.28996	5.824669
#1	.0148343	.0191972	247.7515	.0778076	.0333429	.7816531
#2	.0258292	.0167828	247.4613	.0757153	.0250324	.8270428
#3	.0234542	.0189181	247.6148	.0764615	.0360956	.7359959

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 112.2389	-.002962	.0011523	.8174066	.0168313	.0087165
Stddev	.0911	.000083	.0000245	.0186794	.0004978	.0001599
%RSD	.0811850	2.818895	2.128043	2.285207	2.957344	1.834443
#1	112.3072	-.003026	.0011791	.8059775	.0165695	.0085849
#2	112.2740	-.002992	.0011309	.8389627	.0174054	.0086702
#3	112.1354	-.002868	.0011470	.8072797	.0165192	.0088944

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 375.3724	.2591018	47.58599	.3758177	54.71784	.0007019
Stddev	.4617	.0265475	.15448	.0334334	.04473	.0001695
%RSD	.1229883	10.24598	.3246339	8.896173	.0817508	24.14814
#1	374.8485	.2724694	47.41529	.3677752	54.76583	.0006163
#2	375.5486	.2763083	47.62651	.4125388	54.67730	.0005923
#3	375.7200	.2285276	47.71617	.3471391	54.71040	.0008971

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007906	-.011318	F 40.24276	.8406653	.0072621	-.009502
Stddev	.027148	.001375	.20973	.0325759	.0024382	.000616
%RSD	2.693519	12.14487	.5211571	3.875015	33.57345	6.477682
#1	.992263	-.012880	40.20706	.8782688	.0088601	-.009006
#2	1.039254	-.010781	40.05317	.8210426	.0044558	-.009310
#3	.992200	-.010293	40.46804	.8226845	.0084705	-.010191

Sample Name: LRCHECK 2 Acquired: 11/9/2023 19:01:01 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004598**	**-.036952**	**.0496666**	**.1977101**	**.0771338**	**.0020322**
Stddev	.000832	.001121	.0123391	.0068575	.0088126	.0032899
%RSD	18.09852	3.034263	24.84389	3.468487	11.42511	161.8871
#1	-.003687	-.035967	.0354952	.2000149	.0840497	-.000941
#2	-.005318	-.038172	.0554746	.1899970	.0801404	.005567
#3	-.004789	-.036717	.0580300	.2031183	.0672113	.001470

Elem	Sr4077
Units	ppm
Avg	**.0023478**
Stddev	.0000058
%RSD	.2451485
#1	.0023494
#2	.0023526
#3	.0023414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1472.934**	**38109.35**	**5823.039**	**1862.055**	**2453.857**
Stddev	2.106	169.90	39.377	7.348	5.267
%RSD	.1429967	.4458167	.6762249	.3946162	.2146589
#1	1470.763	37945.72	5781.281	1861.868	2447.889
#2	1473.070	38097.44	5828.338	1869.495	2455.827
#3	1474.969	38284.89	5859.498	1854.803	2457.856

Sample Name: CCV11 Acquired: 11/9/2023 19:05:12 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.012595**	**4.919408**	**4.957268**	**5.074211**	**4.902145**	**9.616385**	**9.488875**
Stddev	.009396	.057919	.005017	.014206	.013314	.077170	.055377
%RSD	.1874418	1.177349	.1012054	.2799639	.2715894	.8024877	.5836011
#1	5.018461	4.979716	4.954156	5.077446	4.906929	9.528590	9.425329
#2	5.001758	4.864219	4.963056	5.058666	4.887100	9.673485	9.526821
#3	5.017566	4.914290	4.954592	5.086520	4.912405	9.647079	9.514474

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2437020**	**2.479389**	**23.90079**	**.9741193**	**2.422102**	**1.228722**	**4.845140**
Stddev	.0007750	.002497	.17012	.0029512	.004559	.004288	.031242
%RSD	.3180032	.1006986	.7117571	.3029646	.1882236	.3490119	.6448082
#1	.2442502	2.482134	23.70451	.9714329	2.426890	1.225082	4.809067
#2	.2428154	2.478780	24.00554	.9772783	2.417814	1.227634	4.863487
#3	.2440405	2.477254	23.99233	.9736467	2.421602	1.233449	4.862866

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.430209**	**23.66723**	**2.421199**	**1.225869**	**24.60131**	**2.373344**	**2.408208**
Stddev	.012886	.16714	.002296	.002862	.28263	.009533	.001855
%RSD	.5302441	.7062006	.0948217	.2334420	1.148833	.4016844	.0770301
#1	2.415369	23.48111	2.423828	1.223349	24.27559	2.365250	2.410346
#2	2.438568	23.80449	2.420179	1.225277	24.78185	2.383852	2.407263
#3	2.436689	23.71609	2.419589	1.228980	24.74648	2.370928	2.407017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.50401**	**4.853966**	**4.837563**	**4.868424**	**4.780525**	**4.970083**	**4.920333**
Stddev	.34672	.014502	.008839	.006024	.036275	.047093	.004246
%RSD	1.414967	.2987761	.1827160	.1237323	.7587974	.9475318	.0862901
#1	24.11845	4.866234	4.835055	4.875378	4.738789	4.919038	4.919588
#2	24.60338	4.837961	4.830250	4.865066	4.798335	5.011840	4.916509
#3	24.79021	4.857704	4.847386	4.864828	4.804453	4.979372	4.924902

Sample Name: CCV11 Acquired: 11/9/2023 19:05:12 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.019172**	**4.703593**	**4.920977**
Stddev	.015683	.030314	.051885
%RSD	.3124646	.6444923	1.054355
#1	5.032551	4.668995	4.861386
#2	5.001913	4.725496	4.945417
#3	5.023051	4.716289	4.956128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1881.293**	**35378.37**	**5707.168**	**1824.539**	**2208.378**
Stddev	1.036	103.35	21.808	6.880	3.864
%RSD	.0550493	.2921260	.3821202	.3770911	.1749545
#1	1880.366	35390.17	5685.933	1816.597	2205.516
#2	1882.411	35269.63	5706.063	1828.352	2206.845
#3	1881.102	35475.31	5729.507	1828.669	2212.773

Sample Name: CCB11 Acquired: 11/9/2023 19:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000760**	**.0009174**	**.0024462**	**-.000079**	**.0017091**	**-.009063**	**-.005025**
Stddev	.002472	.0059583	.0009115	.002598	.0024983	.006161	.002507
%RSD	325.1662	649.4499	37.26098	3303.217	146.1810	67.97943	49.88839
#1	.000000	-.005265	.0016292	-.002359	-.001162	-.015799	-.003452
#2	-.003523	.001394	.0022801	.002750	.002904	-.007679	-.007916
#3	.001242	.006623	.0034293	-.000627	.003386	-.003712	-.003707

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000187**	**.0001347**	**-.002927**	**-.000218**	**.0002893**	**.0007354**	**.0050162**
Stddev	.0000190	.0000662	.013575	.000764	.0001947	.0004269	.0042794
%RSD	101.7138	49.15819	463.7316	349.9564	67.31859	58.05278	85.31205
#1	.0000290	.0001176	-.014775	.000004	.0000705	.0005525	.0099262
#2	-.000003	.0002078	-.005892	-.001069	.0003535	.0004305	.0030434
#3	.000030	.0000788	.011885	.000410	.0004438	.0012234	.0020790

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001324**	**-.008460**	**.0003900**	**-.000545**	**.3698391**	**.0027287**	**.0008221**
Stddev	.0001277	.015484	.0005692	.000463	.0402939	.0006002	.0002149
%RSD	96.45543	183.0206	145.9429	85.03910	10.89498	21.99782	26.14520
#1	.0001858	.008177	.0009661	-.000426	.3294139	.0029746	.0007681
#2	.0002247	-.011109	.0003758	-.000152	.3701030	.0031669	.0006393
#3	-.000013	-.022449	-.000172	-.001056	.4100004	.0020445	.0010589

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2611579**	**.0060635**	**.0031413**	**.0149656**	**.0007850**	**.0030277**	**.0024016**
Stddev	.0358600	.0010223	.0010405	.0010295	.0009197	.0064165	.0022362
%RSD	13.73117	16.85949	33.12260	6.879156	117.1540	211.9276	93.11437
#1	.2264443	.0050958	.0043410	.0146007	.0008830	.0045482	.0048705
#2	.2980638	.0071328	.0024845	.0161279	-.000180	-.004012	.0018219
#3	.2589654	.0059619	.0025985	.0141683	.001652	.008547	.0005122

Sample Name: CCB11 Acquired: 11/9/2023 19:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2065) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0052274	-.000053	.0001515
Stddev	.0006966	.001716	.0000973
%RSD	13.32552	3209.194	64.19918
#1	.0048598	-.000260	.0002510
#2	.0047916	-.001657	.0001470
#3	.0060308	.001756	.0000566

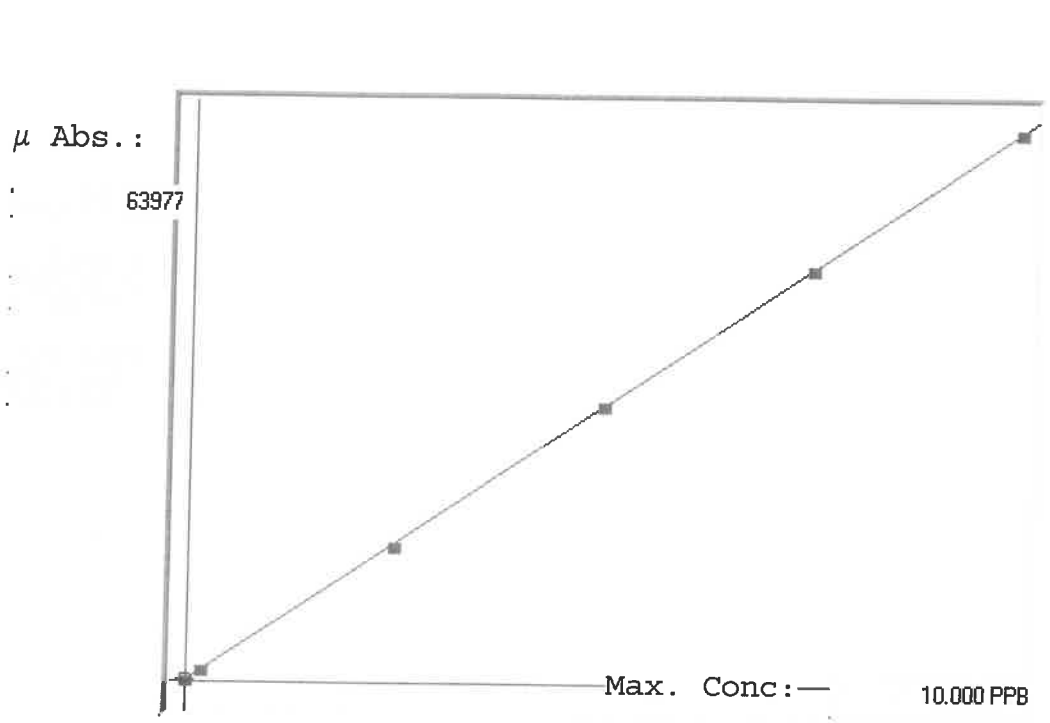
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1982.338	37540.02	5748.145	1926.561	2441.472
Stddev	3.005	77.21	84.999	4.981	6.624
%RSD	.1515990	.2056624	1.478720	.2585432	.2713094
#1	1985.108	37458.72	5652.948	1923.135	2443.933
#2	1982.764	37548.99	5775.056	1924.273	2446.514
#3	1979.143	37612.35	5816.431	1932.275	2433.970

Reviewed By:bin
On:11/8/2023 8:34:36 PM
Inst Id :CV1
LB :LB128217

LB128217

7471B

INSTRUMENT ID : CV1



A= 0.0000e+000

B= 1.5652e-004

C= -2.7167e-002

Rho= 0.9999698

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.0	0.000	0.034	0.034	390	0.000	390					-1
0.2	0.200	0.189	-0.011	1383	0.0 %	1383					-6
2.5	2.500	2.449	-0.051	15818	0.0 %	15818					-2
5.0	5.000	5.021	0.021	32251	0.0 %	32251					0
7.5	7.500	7.521	0.021	48222	0.0 %	48222					0
10.0	10.000	9.987	-0.013	63977	0.0 %	63977					0

Reviewed By:bin
On:11/8/2023 8:34:36 PM
Inst Id :CV1
LB :LB128217

LB128217 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 07 Nov 2023 15:55:34

Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	390	-	0.0000	7471B	PPB	07 Nov 2023 15:55:48	S	Std
0.2 - 1	202	1383	-	0.2000	7471B	PPB	07 Nov 2023 15:58:05	S	Std
2.5 - 1	52.5	15818	-	2.5000	7471B	PPB	07 Nov 2023 16:00:23	S	Std
5.0 - 1	55	32251	-	5.0000	7471B	PPB	07 Nov 2023 16:02:39	S	Std
7.5 - 1	57.5	48222	-	7.5000	7471B	PPB	07 Nov 2023 16:07:33	S	Std
10.0 - 1	510	63977	-	10.0000	7471B	PPB	07 Nov 2023 16:09:50	S	Std
ICV61 - 1	ICV61	25103	3.9020		-7471B	PPB	07 Nov 2023 16:12:47	U	SMPL
ICB61 - 1	ICB61	89	-0.0132		-7471B	PPB	07 Nov 2023 16:15:03	U	SMPL
CCV74 - 1	CCV74	31880	4.9628		-7471B	PPB	07 Nov 2023 16:17:20	U	SMPL
CCB74 - 1	CCB74	83	-0.0142		-7471B	PPB	07 Nov 2023 16:19:36	U	SMPL
CRA - 1	CRA	1235	0.1661		-7471B	PPB	07 Nov 2023 16:21:53	U	SMPL
HighStd - 1	HighStd	62861	9.8120		-7471B	PPB	07 Nov 2023 16:24:08	U	SMPL
ChkStd - 1	ChkStd	43322	6.7537		-7471B	PPB	07 Nov 2023 16:26:23	U	SMPL
PB156977BL - 1	PBS	0	-0.0272		-7471B	PPB	07 Nov 2023 16:28:42	U	SMPL
PB156977BS - 1	LCSS	26365	4.0995		-7471B	PPB	07 Nov 2023 16:31:01	U	SMPL
O5237-01 - 1	11TH-ST-1	17091	2.6480		-7471B	PPB	07 Nov 2023 16:33:17	U	SMPL
O5252-01 - 1	WASTE	2899	0.4266		-7471B	PPB	07 Nov 2023 16:35:35	U	SMPL
O5253-01 - 1	L-1(65FT)(5-10)	7431	1.1359		-7471B	PPB	07 Nov 2023 16:37:55	U	SMPL
O5253-02 - 1	L-6(0-5)	817	0.1007		-7471B	PPB	07 Nov 2023 16:40:12	U	SMPL
O5253-03 - 1	L-3(120FT)(0-5)	9508	1.4610		-7471B	PPB	07 Nov 2023 16:42:28	U	SMPL
CCV75 - 1	CCV75	31797	4.9498		-7471B	PPB	07 Nov 2023 16:44:44	U	SMPL
CCB75 - 1	CCB75	407	0.0365		-7471B	PPB	07 Nov 2023 16:46:59	U	SMPL
O5253-04 - 1	L-3(195FT)(0-5)	5135	0.7766		-7471B	PPB	07 Nov 2023 16:49:16	U	SMPL
O5256-01 - 1	WC-1	2224	0.3209		-7471B	PPB	07 Nov 2023 16:51:31	U	SMPL
O5256-05 - 1	WC-11	4028	0.6033		-7471B	PPB	07 Nov 2023 16:53:48	U	SMPL
O5256-09 - 1	WC-10	4804	0.7248		-7471B	PPB	07 Nov 2023 16:56:03	U	SMPL
O5257-01 - 1	WC-6	8378	1.2842		-7471B	PPB	07 Nov 2023 16:58:19	U	SMPL
O5257-05 - 1	WC-2	9393	1.4430		-7471B	PPB	07 Nov 2023 17:06:53	U	SMPL
O5257-05DUP - 1	WC-2DUP	8006	1.2259		-7471B	PPB	07 Nov 2023 17:12:05	U	SMPL
O5257-05MS - 1	WC-2MS	38950	6.0694		-7471B	PPB	07 Nov 2023 17:14:21	U	SMPL
O5257-05MSD - 1	WC-2MSD	33537	5.2221		-7471B	PPB	07 Nov 2023 17:16:38	U	SMPL
O5257-09 - 1	WC-3	4752	0.7166		-7471B	PPB	07 Nov 2023 17:18:56	U	SMPL
CCV76 - 1	CCV76	31990	4.9800		-7471B	PPB	07 Nov 2023 17:21:14	U	SMPL
CCB76 - 1	CCB76	363	0.0297		-7471B	PPB	07 Nov 2023 17:23:30	U	SMPL
O5266-01 - 1	1203	1271	0.1718		-7471B	PPB	07 Nov 2023 17:25:46	U	SMPL
O5270-01 - 1	OR-3-110623	1836	0.2602		-7471B	PPB	07 Nov 2023 17:28:02	U	SMPL
O5257-05LX5 - 1		4853	0.7324		-7471B	PPB	07 Nov 2023 17:30:18	U	SMPL
O5257-05A - 1		22039	3.4224		-7471B	PPB	07 Nov 2023 17:32:33	U	SMPL
CCV77 - 1	CCV77	31665	4.9291		-7471B	PPB	07 Nov 2023 17:34:48	U	SMPL
CCB77 - 1	CCB77	413	0.0375		-7471B	PPB	07 Nov 2023 17:37:05	U	SMPL

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB156965

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. 96°C 2. N/A

Start Digest Date: 11/07/2023 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/07/2023 **Time :** 15:30 **Temp :** 96 °C

Digestion tube ID: M5594

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: AI

Supervisor Signature: MA

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M5643
LFS-2	1.00	M5648
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	MP76793
Conc. HNO3	5.00	M5705
30% H2O2	3.00	M5631
Conc. HCL	10.00	M5707
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
11/7/23 15:40	AI/Org. Lab	MA (Met Lab)
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB156965

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O5252-01	WASTE	N/A	2.49	100	Brown	Brown	Medium	No	N/A	3-1
O5253-01	L-1(65FT)(5-10)	N/A	2.35	100	Brown	Brown	Medium	No	N/A	2
O5253-02	L-6(0-5)	N/A	2.40	100	Brown	Brown	Medium	No	N/A	3
O5253-03	L-3(120FT)(0-5)	N/A	2.49	100	Brown	Brown	Medium	No	N/A	4
O5253-04	L-3(195FT)(0-5)	N/A	2.13	100	Brown	Brown	Medium	No	N/A	5
O5256-01	WC-1	N/A	2.05	100	Brown	Brown	Medium	No	N/A	6
O5256-05	WC-11	N/A	2.30	100	Brown	Brown	Medium	No	N/A	7
O5256-09	WC-10	N/A	2.05	100	Brown	Brown	Medium	No	N/A	8
O5257-01	WC-6	N/A	2.30	100	Brown	Brown	Medium	No	N/A	9
O5257-05	WC-2	N/A	2.31	100	Brown	Brown	Medium	No	N/A	10
O5257-09	WC-3	N/A	2.25	100	Brown	Brown	Medium	No	N/A	11
O5266-01	1203	N/A	2.23	100	Brown	Brown	Medium	No	N/A	12
O5267-01	ETGI-320	N/A	2.25	100	Brown	Brown	Medium	No	N/A	13
O5270-01	OR-3-110623	N/A	2.49	100	Brown	Brown	Medium	No	N/A	14
O5270-01DUP	OR-3-110623DUP	N/A	2.48	100	Brown	Brown	Medium	No	N/A	15
O5270-01MS	OR-3-110623MS	N/A	2.41	100	Brown	Brown	Medium	No	M5643,M5648	16
O5270-01MSD	OR-3-110623MSD	N/A	2.42	100	Brown	Brown	Medium	No	M5643,M5648	17
PB156965BL	PBS965	N/A	2.12	100	Colorless	Colorless	Fine	No	N/A	18
PB156965BS	LCS965	N/A	2.06	100	Colorless	Colorless	Fine	No	M5643,M5648	19

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB156995 **WorkList ID :** 175387 **Department :** Digestion **Date :** 11-08-2023 10:55:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5272-02	002	Solid	Metals Group3	Cool 4 deg C	CONS03	I41	11/03/2023	6010D
O5279-01	TP-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	11/06/2023	6010D
O5279-05	MH-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	11/06/2023	6010D
O5286-02	002	Solid	Metals Group3	Cool 4 deg C	CONS03	L41	11/06/2023	6010D
O5291-01	QUEEN-PLAZA	Solid	Metals ICP-RCRA	Cool 4 deg C	TULL02	L41	11/07/2023	6010D
O5292-01	CORONA	Solid	Metals ICP-RCRA	Cool 4 deg C	TULL02	L41	11/07/2023	6010D
O5293-01	SB-1	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-02	SB-2	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-03	SB-3	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-04	SB-4	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-05	SB-5	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-06	SB-6	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-07	SB-7	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5293-08	SB-8	Solid	Metals ICP-TAL	Cool 4 deg C	RMJE02	L31	11/07/2023	6010D
O5295-01	TP-2	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	11/07/2023	6010D

Date/Time 11/7/23 11:45
Raw Sample Received by: At/Big/Lab
Raw Sample Relinquished by:

Date/Time 11/7/23 12:49
Raw Sample Received by:
Raw Sample Relinquished by: At/Big/Lab

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB156977

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: 11/07/2023 **Time :** 13:05 **Temp :** 95 °C

End Digest Date: 11/07/2023 **Time :** 13:35 **Temp :** 94 °C

Digestion tube ID: M5586

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: [signature]

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP78130
CCV	30mL	MP78132
CRA	30mL	MP78134
Blank Spike	0.48mL	MP78123
Matrix Spike	0.48mL	MP78123

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP78136
KMnO4	4.5mL	MP78042
Hydroxylamine HCL	2.0mL	MP78044
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP78124
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP78125
2.5 ppb	S2.5	30mL	MP78126
5.0 ppb	S5.0	30mL	MP78127
7.5 ppb	S7.5	30mL	MP78128
10.0 ppb	S10.0	30mL	MP78129
ICV	ICV	30mL	MP78130
ICB	ICB	30mL	MP78131
CCV	CCV	30mL	MP78132
CCB	CCB	30mL	MP78133
CRI	CRI	30mL	MP78134
CHK STD	CHK STD	30mL	MP78135

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/23 @ 13:50	MB - HG Lab	PB - Metal Lab
	Preparation Group	**Analysis Group**

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB156977

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
05237-01	11TH-ST-1	0.56	35	NA	N/A	3-1
05252-01	WASTE	0.54	35	NA	N/A	2
05253-01	L-1(65FT)(5-10)	0.52	35	NA	N/A	3
05253-02	L-6(0-5)	0.50	35	NA	N/A	4
05253-03	L-3(120FT)(0-5)	0.50	35	NA	N/A	5
05253-04	L-3(195FT)(0-5)	0.53	35	NA	N/A	6
05256-01	WC-1	0.55	35	NA	N/A	7
05256-05	WC-11	0.55	35	NA	N/A	8
05256-09	WC-10	0.60	35	NA	N/A	9
05257-01	WC-6	0.59	35	NA	N/A	10
05257-05	WC-2	0.53	35	NA	N/A	11
05257-05DUP	WC-2DUP	0.56	35	NA	N/A	12
05257-05MS	WC-2MS	0.52	35	NA	MP78123	13
05257-05MSD	WC-2MSD	0.53	35	NA	MP78123	14
05257-09	WC-3	0.52	35	NA	N/A	15
05266-01	1203	0.51	35	NA	N/A	16
05270-01	OR-3-110623	0.56	35	NA	N/A	17
PB156977BL	PBS977	0.55	35	NA	N/A	18
PB156977BS	LCS977	0.52	35	NA	MP78123	19

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 110723_7471 **WorkList ID :** 175332 **Department :** Digestion **Date :** 11-07-2023 08:04:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5237-01	111TH-ST-1	Solid	Mercury	Cool 4 deg C	DIST01	I41	11/02/2023	7471B
O5253-01	L-1(65FT)(5-10)	Solid	Mercury	Cool 4 deg C	GEIC06	I41	11/02/2023	7471B
O5253-02	L-6(0-5)	Solid	Mercury	Cool 4 deg C	GEIC06	I41	11/03/2023	7471B
O5253-03	L-3(120FT)(0-5)	Solid	Mercury	Cool 4 deg C	GEIC06	I41	11/03/2023	7471B
O5253-04	L-3(195FT)(0-5)	Solid	Mercury	Cool 4 deg C	GEIC06	I41	11/03/2023	7471B
O5256-01	WC-1	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5256-05	WC-11	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5256-09	WC-10	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5257-01	WC-6	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5257-05	WC-2	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5257-09	WC-3	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5266-01	1203	Solid	Mercury	Cool 4 deg C	PSEG03	L31	11/03/2023	7471B
O5270-01	OR-3-110623	Solid	Mercury	Cool 4 deg C	PSEG03	I41	11/06/2023	7471B
O5252-01	WASTE	Solid	Mercury	Cool 4 deg C	PSEG05	I31	11/06/2023	7471B
					RMJE02	I31	11/03/2023	7471B

Date/Time 11/7/23 @ 12:40

Raw Sample Received by: MB - DIG. LAB

Raw Sample Relinquished by: MB - DIG. LAB

Date/Time 11/7/23 @ 13:30

Raw Sample Received by:

Raw Sample Relinquished by: MB - DIG LAB

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB128195

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
O5102-02	67S-SB02-0815	89	1.15	8.58	9.73	7.6	75.2	
O5102-03	67S-SB02-2628	90	1.14	8.64	9.78	6.04	56.7	
O5102-04	67S-SB04-1419	91	1.16	8.74	9.9	7.15	68.5	
O5102-05	67S-SB07-1418	92	1.15	8.81	9.96	7.55	72.6	
O5102-06	67S-SB08-1619	93	1.15	8.81	9.96	9.00	89.1	
O5102-07	67S-SB09-1314.5	94	1.19	8.79	9.98	5.8	52.4	
O5102-08	67S-SB11-1218	95	1.12	8.46	9.58	8.11	82.6	
O5102-09	67S-SB11-1218-D	96	1.19	8.47	9.66	8.02	80.6	
O5102-10	67S-SB14-1216	97	1.11	8.76	9.87	8.07	79.5	
O5102-11	67S-SB16-1617	98	1.17	8.55	9.72	7.46	73.6	
O5102-13	67-IDW-01	99	1.13	8.52	9.65	8.02	80.9	
O5244-01	1A	1	1.14	8.63	9.77	7.54	74.2	
O5244-04	2A	2	1.18	8.48	9.66	8.15	82.2	
O5244-07	3A	3	1.16	8.50	9.66	8.22	83.1	
O5244-10	4A	4	1.19	8.78	9.97	8.58	84.2	
O5244-13	5A	5	1.11	8.47	9.58	8.47	86.9	
O5244-16	6A	6	1.19	8.71	9.9	6.99	66.6	
O5244-19	7A	7	1.19	8.79	9.98	7.01	66.2	
O5245-02	8A	8	1.16	8.48	9.64	6.25	60.0	
O5245-05	9A	9	1.19	8.55	9.74	7.21	70.4	
O5245-08	10A	10	1.13	8.67	9.8	7.04	68.2	
O5245-11	11A	11	1.16	8.68	9.84	7.72	75.6	
O5245-14	12A	12	1.15	8.83	9.98	8.19	79.7	
O5245-17	13A	13	1.14	8.68	9.82	8.6	85.9	
O5245-20	14A	14	1.19	8.79	9.98	8.86	87.3	
O5246-03	15A	15	1.18	8.64	9.82	8.47	84.4	
O5246-06	16A	16	1.13	8.84	9.97	9.00	89.0	
O5246-09	17A	17	1.16	8.80	9.96	8.81	86.9	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB128195

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
O5246-12	18A	18	1.13	8.75	9.88	8.64	85.8	
O5246-15	19A	19	1.18	8.50	9.68	8.56	86.8	
O5246-18	20B	20	1.18	8.78	9.96	7.48	71.8	
O5247-01	21B	21	1.18	8.46	9.64	8.2	83.0	
O5247-04	22B	22	1.18	8.79	9.97	8.7	85.6	
O5247-07	23B	23	1.15	8.80	9.95	8.51	83.6	
O5247-10	24B	24	1.18	8.41	9.59	8.37	85.5	
O5247-13	25B	25	1.14	8.65	9.79	8.84	89.0	
O5247-16	26A	26	1.17	8.57	9.74	8.42	84.6	
O5247-19	27A	27	1.19	8.59	9.78	7.36	71.8	
O5248-02	28A	28	1.19	8.80	9.99	7.44	71.0	
O5248-03	29A	29	1.12	8.71	9.83	8.21	81.4	
O5248-04	30A	30	1.19	8.58	9.77	7.99	79.3	
O5248-05	31A	31	1.15	8.53	9.68	7.61	75.7	
O5248-06	32A	32	1.19	8.73	9.92	7.88	76.6	
O5248-07	33A	33	1.18	8.80	9.98	7.29	69.4	
O5248-08	34A	34	1.19	8.60	9.79	8.26	82.2	
O5248-09	35A	35	1.16	8.58	9.74	7.74	76.7	
O5248-10	DUP-1	36	1.15	8.51	9.66	7.49	74.5	
O5248-13	DUP-4	37	1.16	8.81	9.97	7.83	75.7	
O5248-14	DUP-5	38	1.19	8.55	9.74	8.32	83.4	
O5248-16	DUP-7	39	1.19	8.51	9.7	7.1	69.4	
O5251-01	T-1	40	1.12	8.76	9.88	8.27	81.6	
O5251-02	T-2	41	1.19	8.50	9.69	8.42	85.1	
O5251-03	T-3	42	1.15	8.52	9.67	8.14	82.0	
O5251-04	T-4	43	1.19	8.43	9.62	8.39	85.4	
O5251-05	T-5	44	1.16	8.39	9.55	8.39	86.2	
O5251-06	T-6	45	1.18	8.63	9.81	8.22	81.6	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB128195

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
O5251-07	T-7	46	1.17	8.50	9.67	8.55	86.8	
O5251-08	T-8	47	1.19	8.69	9.88	8.73	86.8	
O5251-09	T-9	48	1.12	8.70	9.82	8.76	87.8	
O5251-10	T-10	49	1.19	8.73	9.92	8.85	87.7	
O5251-11	T-11	50	1.19	8.65	9.84	8.68	86.6	
O5252-01	WASTE	51	1.17	8.60	9.77	8.96	90.6	
O5253-01	L-1(65FT)(5-10)	52	1.18	8.53	9.71	8.35	84.1	
O5253-02	L-6(0-5)	53	1.13	8.53	9.66	8.76	89.4	
O5253-03	L-3(120FT)(0-5)	54	1.15	8.57	9.72	9.00	91.6	
O5253-04	L-3(195FT)(0-5)	55	1.19	8.58	9.77	9.02	91.3	
O5258-01	01-A-01-B-01-C	56	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-02	02-A-02-B-02-C	57	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-03	03-A-03-B-03-C	58	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-04	04-A-04-B-04-C	59	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-05	05-A-05-B-05-C	60	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-06	06-A-06-B-06-C	61	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-07	07-A-07-B-07-C	62	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-08	08-A-08-B-08-C	63	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-09	09-A-09-B-09-C	64	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-10	10-A-10-B-10-C	65	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-11	11-A-11-B-11-C	66	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-12	12-A-12-B-12-C	67	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-13	13-A-14-B-14-C	68	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-14	14-A-14-B-14-C	69	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-15	15-A-15-B-15-C	70	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-16	16-A-16-B-16-C	71	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-17	17-A-17-B-17-C	72	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-18	18-A-18-B-18-C	73	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB128195

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
O5258-19	19-A-19-B-19-C	74	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-20	20-A-20-B-20-C	75	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-21	21-A-21-B-21-C	76	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-22	22-A-22-B-22-C	77	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-23	23-A-23-B-23-C	78	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-24	24-A-24-B-24-C	79	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-25	25-A-25-B-25-C	80	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-26	26-A-26-B-26-C	81	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-27	27-A-27-B-27-C	82	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5266-01	1203	83	1.15	8.42	9.57	9.24	96.1	
O5267-01	ETGI-320	86	1.00	1.00	2.00	2.00	100.0	CONCRETE SAMPLE
O5270-01	OR-3-110623	84	1.18	8.80	9.98	9.34	92.7	
O5270-02	OR-3-110623-E2	85	1.13	8.80	9.93	9.01	89.5	
O5272-01	001	87	1.15	8.39	9.54	7.94	80.9	
O5272-02	002	88	1.15	8.39	9.54	7.94	80.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

VB 128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5102-02	67S-SB02-0815	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-03	67S-SB02-2628	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-04	67S-SB04-1419	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-05	67S-SB07-1418	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-06	67S-SB08-1619	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-07	67S-SB09-1314.5	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-08	67S-SB11-1218	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-09	67S-SB11-1218-D	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5102-10	67S-SB14-1216	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5102-11	67S-SB16-1617	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5244-01	1A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-04	2A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-07	3A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-10	4A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-13	5A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-16	6A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-19	7A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-02	8A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-05	9A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-08	10A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-11	11A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO

Date/Time 11.06.23 15:30

Raw Sample Received by: JR (WC)

Raw Sample Relinquished by:

Date/Time 11.06.23 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JR (WC)

WORKLIST(Hardcopy Internal Chain)

VB 128195

WorkList Name : %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5245-14	12A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-17	13A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-20	14A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-03	15A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-06	16A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-09	17A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-12	18A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-15	19A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-18	20B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5247-01	21B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5247-04	22B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-07	23B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-10	24B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-13	25B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-16	26A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-19	27A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5248-02	28A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5248-03	29A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-04	30A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-05	31A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-06	32A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO

Date/Time 11-06-23 15:30

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by:

Date/Time 11-06-23 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JP (WC)

WORKLIST(Hardcopy Internal Chain)

VB128195

WorkList Name : %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5248-07	33A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-08	34A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-09	35A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-10	DUP-1	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-13	DUP-4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-14	DUP-5	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-16	DUP-7	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5251-01	T-1	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5251-02	T-2	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-03	T-3	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-04	T-4	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-05	T-5	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-06	T-6	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-07	T-7	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-08	T-8	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-09	T-9	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-10	T-10	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-11	T-11	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5252-01	WASTE	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5253-01	L-1(65FT)(5-10)	Solid	Percent Solids	Cool 4 deg C	RMJE02	I31	11/03/2023	Chemtech -SO
O5253-02	L-6(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/02/2023	Chemtech -SO
					GEIC06	L21	11/03/2023	Chemtech -SO

Date/Time 11-06-23 15:30

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by:

Date/Time 11-06-23 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JP (WC)

NB128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5253-03	L-3(120FT)(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO
O5253-04	L-3(195FT)(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO
O5258-01	01-A-01-B-01-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-02	02-A-02-B-02-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-03	03-A-03-B-03-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-04	04-A-04-B-04-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-05	05-A-05-B-05-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-06	06-A-06-B-06-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-07	07-A-07-B-07-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-08	08-A-08-B-08-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-09	09-A-09-B-09-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-10	10-A-10-B-10-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-11	11-A-11-B-11-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-12	12-A-12-B-12-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-13	13-A-14-B-14-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-14	14-A-14-B-14-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-15	15-A-15-B-15-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-16	16-A-16-B-16-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-17	17-A-17-B-17-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-18	18-A-18-B-18-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-19	19-A-19-B-19-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO

Date/Time 11.06.23 15:30

Raw Sample Received by: JD (CWC)

Raw Sample Relinquished by: CP Sm

Date/Time 11.06.23 17:30

Raw Sample Received by: CP Sm

Raw Sample Relinquished by: JD (CWC)

NB128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5258-20	20-A-20-B-20-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-21	21-A-21-B-21-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-22	22-A-22-B-22-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-23	23-A-23-B-23-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-24	24-A-24-B-24-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-25	25-A-25-B-25-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-26	26-A-26-B-26-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-27	27-A-27-B-27-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5266-01	1203	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	11/06/2023	Chemtech -SO
O5267-01	ETGI-320	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/06/2023	Chemtech -SO
O5270-01	OR-3-110623	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	11/06/2023	Chemtech -SO
O5270-02	OR-3-110623-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	11/06/2023	Chemtech -SO
O5272-01	001	Solid	Percent Solids	Cool 4 deg C	CONS03	I41	11/02/2023	Chemtech -SO
O5272-02	002	Solid	Percent Solids	Cool 4 deg C	CONS03	I41	11/02/2023	Chemtech -SO

Date/Time 11.06.23 15:30

Raw Sample Received by: JD (CEC)

Raw Sample Relinquished by: CR SM

Date/Time 11.06.23 17:30

Raw Sample Received by: CR SM

Raw Sample Relinquished by: JD (CEC)

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB128217

Review By	jaswal	Review On	11/8/2023 8:34:26 PM
Supervise By	bin	Supervise On	11/8/2023 8:34:36 PM

STD. NAME	STD REF.#
ICAL Standard	MP78124,MP78125,MP78126,MP78127,MP78128,MP78129
ICV Standard	MP78130
CCV Standard	MP78132
ICSA Standard	
CRI Standard	MP78134
LCS Standard	
Chk Standard	MP78131,MP78133,MP781375,MP78137

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/07/23 15:55		mohan	OK
2	S0.2	S0.2	CAL2	11/07/23 15:58		mohan	OK
3	S2.5	S2.5	CAL3	11/07/23 16:00		mohan	OK
4	S5	S5	CAL4	11/07/23 16:02		mohan	OK
5	S7.5	S7.5	CAL5	11/07/23 16:07		mohan	OK
6	S10	S10	CAL6	11/07/23 16:09		mohan	OK
7	ICV61	ICV61	ICV	11/07/23 16:12		mohan	OK
8	ICB61	ICB61	ICB	11/07/23 16:15		mohan	OK
9	CCV74	CCV74	CCV	11/07/23 16:17		mohan	OK
10	CCB74	CCB74	CCB	11/07/23 16:19		mohan	OK
11	CRA	CRA	CRDL	11/07/23 16:21		mohan	OK
12	HighStd	HighStd	HIGH STD	11/07/23 16:24		mohan	OK
13	ChkStd	ChkStd	SAM	11/07/23 16:26		mohan	OK
14	PB156977BL	PB156977BL	MB	11/07/23 16:28		mohan	OK
15	PB156977BS	PB156977BS	LCS	11/07/23 16:31		mohan	OK
16	O5237-01	111TH-ST-1	SAM	11/07/23 16:33		mohan	OK
17	O5252-01	WASTE	SAM	11/07/23 16:35		mohan	OK
18	O5253-01	L-1(65FT)(5-10)	SAM	11/07/23 16:37		mohan	OK
19	O5253-02	L-6(0-5)	SAM	11/07/23 16:40		mohan	OK
20	O5253-03	L-3(120FT)(0-5)	SAM	11/07/23 16:42		mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB128217

Review By	jaswal	Review On	11/8/2023 8:34:26 PM
Supervise By	bin	Supervise On	11/8/2023 8:34:36 PM

STD. NAME	STD REF.#
ICAL Standard	MP78124,MP78125,MP78126,MP78127,MP78128,MP78129
ICV Standard	MP78130
CCV Standard	MP78132
ICSA Standard	
CRI Standard	MP78134
LCS Standard	
Chk Standard	MP78131,MP78133,MP781375,MP78137

21	CCV75	CCV75	CCV	11/07/23 16:44		mohan	OK
22	CCB75	CCB75	CCB	11/07/23 16:46		mohan	OK
23	O5253-04	L-3(195FT)(0-5)	SAM	11/07/23 16:49		mohan	OK
24	O5256-01	WC-1	SAM	11/07/23 16:51		mohan	OK
25	O5256-05	WC-11	SAM	11/07/23 16:53		mohan	OK
26	O5256-09	WC-10	SAM	11/07/23 16:56		mohan	OK
27	O5257-01	WC-6	SAM	11/07/23 16:58		mohan	OK
28	O5257-05	WC-2	SAM	11/07/23 17:06		mohan	OK
29	O5257-05DUP	WC-2DUP	DUP	11/07/23 17:12		mohan	OK
30	O5257-05MS	WC-2MS	MS	11/07/23 17:14		mohan	OK
31	O5257-05MSD	WC-2MSD	MSD	11/07/23 17:16		mohan	OK
32	O5257-09	WC-3	SAM	11/07/23 17:18		mohan	OK
33	CCV76	CCV76	CCV	11/07/23 17:21		mohan	OK
34	CCB76	CCB76	CCB	11/07/23 17:23		mohan	OK
35	O5266-01	1203	SAM	11/07/23 17:25		mohan	OK
36	O5270-01	OR-3-110623	SAM	11/07/23 17:28		mohan	OK
37	O5257-05L	WC-2L	SD	11/07/23 17:30		mohan	OK
38	O5257-05A	WC-2A	PS	11/07/23 17:32		mohan	OK
39	CCV77	CCV77	CCV	11/07/23 17:34		mohan	OK
40	CCB77	CCB77	CCB	11/07/23 17:37		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/09/23 10:53		Bin	OK
2	S1	S1	CAL2	11/09/23 10:57		Bin	OK
3	S2	S2	CAL3	11/09/23 11:01		Bin	OK
4	S3	S3	CAL4	11/09/23 11:05		Bin	OK
5	S4	S4	CAL5	11/09/23 11:08		Bin	OK
6	S5	S5	CAL6	11/09/23 11:12		Bin	OK
7	ICV01	ICV01	ICV	11/09/23 11:16	ICV fail for As,Ba,Mo,Se,Si (200.7)	Bin	OK
8	LLICV01	LLICV01	LLICV	11/09/23 11:20		Bin	OK
9	ICB01	ICB01	ICB	11/09/23 11:24		Bin	OK
10	CRI01	CRI01	CRDL	11/09/23 11:28		Bin	OK
11	ICSA01	ICSA01	ICSA	11/09/23 11:32		Bin	OK
12	ICSAB01	ICSAB01	ICSAB	11/09/23 11:36	ICSAB fail for Mo	Bin	OK
13	CCV01	CCV01	CCV	11/09/23 11:40		Bin	OK
14	LLCCV01	LLCCV01	LLCCV	11/09/23 11:44		Bin	OK
15	CCB01	CCB01	CCB	11/09/23 11:48		Bin	OK
16	PB156965BL	PB156965BL	MB	11/09/23 11:52		Bin	OK
17	PB156965BS	PB156965BS	LCS	11/09/23 11:56		Bin	OK
18	O5252-01	WASTE	SAM	11/09/23 12:00		Bin	OK
19	O5253-01	L-1(65FT)(5-10)	SAM	11/09/23 12:03		Bin	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

20	O5253-02	L-6(0-5)	SAM	11/09/23 12:07		Bin	OK
21	O5253-03	L-3(120FT)(0-5)	SAM	11/09/23 12:11		Bin	OK
22	O5253-04	L-3(195FT)(0-5)	SAM	11/09/23 12:15		Bin	OK
23	O5266-01	1203	SAM	11/09/23 12:18		Bin	OK
24	O5267-01	ETGI-320	SAM	11/09/23 12:22		Bin	OK
25	O5270-01	OR-3-110623	SAM	11/09/23 12:26		Bin	OK
26	CCV02	CCV02	CCV	11/09/23 12:30		Bin	OK
27	CCB02	CCB02	CCB	11/09/23 12:34		Bin	OK
28	O5270-01DUP	OR-3-110623DUP	DUP	11/09/23 12:38		Bin	OK
29	O5270-01L	OR-3-110623L	SD	11/09/23 12:42		Bin	OK
30	O5270-01MS	OR-3-110623MS	MS	11/09/23 12:45		Bin	OK
31	O5270-01MSD	OR-3-110623MSD	MSD	11/09/23 12:49		Bin	OK
32	O5270-01A	OR-3-110623A	PS	11/09/23 12:53		Bin	OK
33	CCV03	CCV03	CCV	11/09/23 12:57		Bin	OK
34	CCB03	CCB03	CCB	11/09/23 13:00		Bin	OK
35	PB156995BL	PB156995BL	MB	11/09/23 13:49		Bin	OK
36	PB156995BS	PB156995BS	LCS	11/09/23 13:53		Bin	OK
37	O5272-02	002	SAM	11/09/23 13:56		Bin	OK
38	CCV04	CCV04	CCV	11/09/23 14:00		Bin	OK
39	CCB04	CCB04	CCB	11/09/23 14:04		Bin	OK
40	O5279-01	TP-1	SAM	11/09/23 14:08		Bin	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

41	O5279-05	MH-1	SAM	11/09/23 14:12		Bin	OK
42	O5286-02	002	SAM	11/09/23 14:16		Bin	OK
43	O5286-02DUP	002DUP	DUP	11/09/23 14:20		Bin	OK
44	O5286-02MS	002MS	MS	11/09/23 14:23		Bin	OK
45	O5286-02MSD	002MSD	MSD	11/09/23 14:27		Bin	OK
46	O5286-02A	002A	PS	11/09/23 14:31		Bin	OK
47	O5286-02L	002L	SD	11/09/23 14:35		Bin	OK
48	O5291-01	QUEEN-PLAZA	SAM	11/09/23 14:39		Bin	OK
49	O5292-01	CORONA	SAM	11/09/23 14:43		Bin	OK
50	CCV05	CCV05	CCV	11/09/23 14:46		Bin	OK
51	CCB05	CCB05	CCB	11/09/23 14:50		Bin	OK
52	O5293-01	SB-1	SAM	11/09/23 14:54		Bin	OK
53	O5293-02	SB-2	SAM	11/09/23 14:58		Bin	OK
54	O5293-03	SB-3	SAM	11/09/23 15:02		Bin	OK
55	O5293-04	SB-4	SAM	11/09/23 15:06		Bin	OK
56	O5293-05	SB-5	SAM	11/09/23 15:10		Bin	OK
57	O5293-06	SB-6	SAM	11/09/23 15:13		Bin	OK
58	O5293-07	SB-7	SAM	11/09/23 15:17		Bin	OK
59	O5293-08	SB-8	SAM	11/09/23 15:21		Bin	OK
60	O5295-01	TP-2	SAM	11/09/23 15:25		Bin	OK
61	O5209-01	MONTHLY-OUTFALL-	SAM	11/09/23 15:29		Bin	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

62	CCV06	CCV06	CCV	11/09/23 15:33		Bin	OK
63	CCB06	CCB06	CCB	11/09/23 15:37		Bin	OK
64	PB156964BL	PB156964BL	MB	11/09/23 15:41	ICV fail for As,Se,Mo,Si	Bin	Not Ok
65	PB156964BS	PB156964BS	LCS	11/09/23 15:45	ICV fail for As,Se,Mo,SI	Bin	Not Ok
66	O5249-01	001-WILLETS-PT-BL\	SAM	11/09/23 15:48	ICV fail for As,Se	Bin	OK
67	O5249-01DUP	001-WILLETS-PT-BL\	DUP	11/09/23 15:52	ICV fail for As,Se,Mo	Bin	Not Ok
68	O5249-01MS	001-WILLETS-PT-BL\	MS	11/09/23 15:56	ICV fail for As,Se,Mo	Bin	Not Ok
69	O5249-01MSD	001-WILLETS-PT-BL\	MSD	11/09/23 16:00	ICV fail for As,Se,Mo	Bin	Not Ok
70	O5249-01A	001-WILLETS-PT-BL\	PS	11/09/23 16:04	ICV fail for As,Se,Mo	Bin	Not Ok
71	O5249-01L	001-WILLETS-PT-BL\	SD	11/09/23 16:08	ICV fail for As,Se,Mo	Bin	Not Ok
72	O5249-02	002-35TH-AVE(NOV)	SAM	11/09/23 16:12		Bin	OK
73	O5282-01	YORK-20231106	SAM	11/09/23 16:15		Bin	OK
74	CCV07	CCV07	CCV	11/09/23 16:19		Bin	OK
75	CCB07	CCB07	CCB	11/09/23 16:23		Bin	OK
76	O5301-01	POOL-WATER	SAM	11/09/23 16:27	ICV fail for Si	Bin	Not Ok
77	PB157041BL	PB157041BL	MB	11/09/23 16:31		Bin	OK
78	PB157041BS	PB157041BS	LCS	11/09/23 16:35		Bin	OK
79	O5279-04	TP-1	SAM	11/09/23 16:39		Bin	OK
80	O5279-04DUP	TP-1DUP	DUP	11/09/23 16:43		Bin	OK
81	O5279-04MS	TP-1MS	MS	11/09/23 16:47		Bin	OK
82	O5279-04MSD	TP-1MSD	MSD	11/09/23 16:51		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

83	O5279-04A	TP-1A	PS	11/09/23 16:55		Bin	OK
84	O5279-04L	TP-1L	SD	11/09/23 16:59		Bin	OK
85	O5279-08	MH-1	SAM	11/09/23 17:03		Bin	OK
86	CCV08	CCV08	CCV	11/09/23 17:07		Bin	OK
87	CCB08	CCB08	CCB	11/09/23 17:11		Bin	OK
88	O5284-02	SB-1	SAM	11/09/23 17:15		Bin	OK
89	O5284-04	SB-2	SAM	11/09/23 17:19		Bin	OK
90	O5285-02	002	SAM	11/09/23 17:23		Bin	OK
91	O5286-03	003	SAM	11/09/23 17:27		Bin	OK
92	O5291-02	QUEEN-PLAZA	SAM	11/09/23 17:31		Bin	OK
93	O5292-02	CORONA	SAM	11/09/23 17:35		Bin	OK
94	O5295-04	TP-2	SAM	11/09/23 17:39		Bin	OK
95	O5311-03	TP-1	SAM	11/09/23 17:43		Bin	OK
96	O5311-06	TP-2	SAM	11/09/23 17:48		Bin	OK
97	O5311-09	TP-3	SAM	11/09/23 17:52		Bin	OK
98	CCV09	CCV09	CCV	11/09/23 17:56		Bin	OK
99	CCB09	CCB09	CCB	11/09/23 18:00		Bin	OK
100	O5311-12	TP-4	SAM	11/09/23 18:04		Bin	OK
101	O5311-15	TP-5	SAM	11/09/23 18:08		Bin	OK
102	O5311-18	TP-6	SAM	11/09/23 18:12		Bin	OK
103	O5317-05	D3308	SAM	11/09/23 18:16		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB128258

Review By	Jaswal	Review On	11/21/2023 4:35:42 AM
Supervise By	Bin	Supervise On	11/21/2023 4:36:42 AM

STD. NAME	STD REF.#
ICAL Standard	MP77927,MP77937,MP77935,MP77934,MP77933,MP77932
ICV Standard	MP77929,MP77937
CCV Standard	MP77936
ICSA Standard	MP77930,MP77931
CRI Standard	
LCS Standard	
Chk Standard	MP77925,MP77941,MP77938,MP77939

104	O5317-06	D3317	SAM	11/09/23 18:20		Bin	OK
105	O5318-01	KEARNY-DRUM	SAM	11/09/23 18:24		Bin	OK
106	PB156994TB	PB156994TB	MB	11/09/23 18:28		Bin	OK
107	CCV10	CCV10	CCV	11/09/23 18:32		Bin	OK
108	CCB10	CCB10	CCB	11/09/23 18:36		Bin	OK
109	O5211-07	14B-(1-4)-COMP	SAM	11/09/23 18:40	ICV fail for Mo	Bin	Not Ok
110	O5283-07	14B-(1-4)-COMP	SAM	11/09/23 18:44	ICV fail for Mo	Bin	Not Ok
111	O5231-07	14B-(1-4)-COMP	SAM	11/09/23 18:48	ICV fail for Mo	Bin	Not Ok
112	O5298-07	14B-(1-4)-COMP	SAM	11/09/23 18:52	ICV fail for Mo	Bin	Not Ok
113	LRCHECK 1	LRCHECK 1	HIGH STD	11/09/23 18:56		Bin	OK
114	LRCHECK 2	LRCHECK 2	HIGH STD	11/09/23 19:01		Bin	OK
115	CCV11	CCV11	CCV	11/09/23 19:05		Bin	OK
116	CCB11	CCB11	CCB	11/09/23 19:09		Bin	OK

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Prep Standard - Chemical Standard Summary

Order ID : O5252

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB156965,PB156977,

Sequence ID/Qc Batch ID: LB128217,LB128258,LB128258,

Standard ID :
MP76793,MP77012,MP77013,MP77925,MP77927,MP77929,MP77930,MP77931,MP77932,MP77933,MP77934,MP779
35,MP77936,MP77937,MP77938,MP77939,MP77941,MP78042,MP78044,MP78123,MP78124,MP78125,MP78126,MP7
8127,MP78128,MP78129,MP78130,MP78131,MP78132,MP78133,MP78134,MP78136,MP78137,MP781375,

Chemical ID :
M4371,M4456,M4589,M4825,M4874,M4876,M4877,M4880,M4881,M4882,M4883,M4884,M4885,M4886,M4888,M4889,
M4891,M4901,M4916,M4920,M4939,M4960,M4961,M5019,M5020,M5062,M5100,M5129,M5184,M5192,M5200,M5218,
M5222,M5224,M5226,M5227,M5228,M5288,M5289,M5293,M5298,M5387,M5393,M5429,M5467,M5496,M5498,M5513,
M5518,M5521,M5531,M5582,M5626,M5631,M5635,M5643,M5648,M5652,M5658,M5685,M5691,M5701,M5705,M5706,
M5707,W2606,

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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	MP76793	08/16/2023	02/03/2024	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 08/16/2023

FROM 1250.00000ml of M5626 + 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)	MP77012	08/27/2023	02/16/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 08/29/2023

FROM 125.00000ml of M5652 + 2350.00000ml of W2606 + 25.00000ml of M5635 = 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
2950	ICP AES S1/CRI STOCK STD	MP77013	08/27/2023	01/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 08/29/2023

FROM 0.03000ml of M4876 + 0.03000ml of M4877 + 0.05000ml of M4885 + 0.05000ml of M5298 + 0.05000ml of M5496 + 0.05000ml of M5658 + 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 M5228 + 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 + 0.25000ml of M5467 + 0.50000ml of M4901 + 0.50000ml of M5387 + 1.00000ml of M5192 + 1.00000ml of M5200 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5518 + 2.00000ml of M4882 + 2.00000ml of M4884 + 87.33000ml of MP77012 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP77925	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 200.00000ml of M5691 + 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP77927	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 125.00000ml of M5685 + 2350.00000ml of W2606 + 25.00000ml of M5691 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP77929	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 0.02500ml of M5019 + 0.02500ml of M5020 + 0.02500ml of M5429 + 0.25000ml of M5218 + 0.25000ml of M5228 + 10.00000ml of M5293 + 89.42500ml of MP77927 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP77930	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 10.00000ml of M5129 + 90.00000ml of MP77927 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP77931	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 0.10000ml of M4589 + 0.10000ml of M4880 + 0.10000ml of M4882 + 0.10000ml of M4939 + 0.10000ml of M5228 + 10.00000ml of M5129 + 10.00000ml of M5222 + 79.50000ml of MP77927 = 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
907	ICP AES STD S (S5)	MP77932	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 5.00000ml of M4589 + 5.00000ml of M4880 + 5.00000ml of M4882 + 5.00000ml of M4939 + 5.00000ml of M5100 + 5.00000ml of M5224 + 5.00000ml of M5228 + 5.00000ml of M5393 + 460.00000ml of MP77927 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP77933	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 100.00000ml of MP77927 + 100.00000ml of MP77932 = 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
909	ICP AES STD S3	MP77934	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 150.00000ml of MP77927 + 50.00000ml of MP77932 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP77935	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 16.00000ml of MP77932 + 184.00000ml of MP77927 = 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
911	ICP AES CCV SOLN	MP77936	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 100.00000ml of MP77927 + 100.00000ml of MP77932 = 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	MP77937	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 196.00000ml of MP77927 + 4.00000ml of MP77013 = 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	MP77938	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 10.00000ml of M5288 + 18.00000ml of M5200 + 18.00000ml of M5498 + 18.00000ml of M5518 + 20.00000ml of M5289 + 9.00000ml of M5298 + 7.00000ml of MP77927 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3652	LR CHECK2	MP77939	10/30/2023	11/13/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 10/30/2023

FROM 10.00000ml of M5387 + 2.50000ml of M5513 + 25.00000ml of M5226 + 3.50000ml of M4891 + 4.50000ml of M5184 + 54.50000ml of MP77927 = 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
919	ICP AES INTERNAL STD	MP77941	11/01/2023	11/30/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 11/01/2023

FROM 1.00000ml of M4961 + 10.00000ml of M4960 + 1969.00000ml of W2606 + 20.00000ml of M5691 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP78042	10/31/2023	04/30/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/31/2023

FROM 100.00000gram of M4916 + 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
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP78044	10/31/2023	04/30/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/31/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4456 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP78123	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 11/07/2023

FROM 1.00000ml of M5701 + 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	MP78124	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 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	MP78125	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 247.30000ml of W2606 + 0.20000ml of MP78123 = 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	MP78126	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 245.00000ml of W2606 + 2.50000ml of MP78123 = 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	MP78127	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 242.50000ml of W2606 + 5.00000ml of MP78123 = 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	MP78128	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 240.00000ml of W2606 + 7.50000ml of MP78123 = 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	MP78129	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 237.50000ml of W2606 + 10.00000ml of MP78123 = 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	MP78130	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5531 + 2.50000ml of M5701 + 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)	MP78131	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 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)	MP78132	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5701 + 10.00000ml of MP78123 = 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)	MP78133	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5701 = 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)	MP78134	11/07/2023	11/08/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2023

FROM 2.50000ml of M5701 + 247.30000ml of W2606 + 0.20000ml of MP78123 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP78136	11/07/2023	11/08/2023	Mohan Bera	None	None	Sarabjit Jaswal 11/07/2023

FROM 150.00000ml of M5706 + 50.00000ml of M5701 = 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
68	STANNOUS CHLORIDE SOLUTION	MP78137	11/07/2023	11/08/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/07/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5706 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/04/2021 / Ankita	10/30/2019 / AMANDEEP	M4456

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.	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

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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.	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

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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

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.	57005 / B, 1000 PPM, 125 ml	031921	03/19/2024	08/06/2021 / jaswal	08/06/2021 / jaswal	M4901

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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	04/28/2024	10/28/2023 /	04/20/2021 / bin	M5129

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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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 #
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	04/28/2024	10/28/2023 /	04/20/2021 / bin	M5222

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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5228

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	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 #
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 #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

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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	12/12/2023	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

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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	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5518

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

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	12/31/2023	01/01/1900 /	03/30/2023 / mohan	M5531

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)	23B0262006	02/03/2024	08/08/2023 / Al-Terek	01/13/2023 / Al-Terek	M5626

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		02/07/2024	/	08/03/2022 / Al-Terek	M5631

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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	02/16/2024	08/16/2023 / Al-Terek	01/13/2023 / Al-Terek	M5635

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/17/2024	08/18/2023 / bin	04/16/2023 / bin	M5643

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	T2-MEB715594	08/17/2024	08/18/2023 / bin	04/16/2023 / bin	M5648

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	02/17/2024	08/18/2023 / Al-Terek	04/11/2022 / Al-Terek	M5652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	04/09/2024	10/06/2023 / Al-Terek	04/11/2022 / Al-Terek	M5685

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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	04/12/2024	10/13/2023 / Al-Terek	01/13/2023 / Al-Terek	M5691

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)	23C1762001	04/30/2024	10/31/2023 / Al-Terek	03/08/2023 / Al-Terek	M5701

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)	23C1762001	04/30/2024	/	03/08/2023 / Al-Terek	M5705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	05/02/2024	11/03/2023 / Al-Terek	04/11/2022 / Al-Terek	M5706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	05/02/2024	/	04/11/2022 / Al-Terek	M5707

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

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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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

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.

- 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

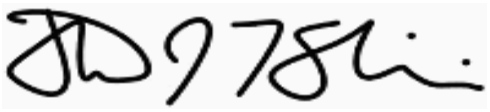
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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) HNO_3 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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

Certified Reference Material CRM

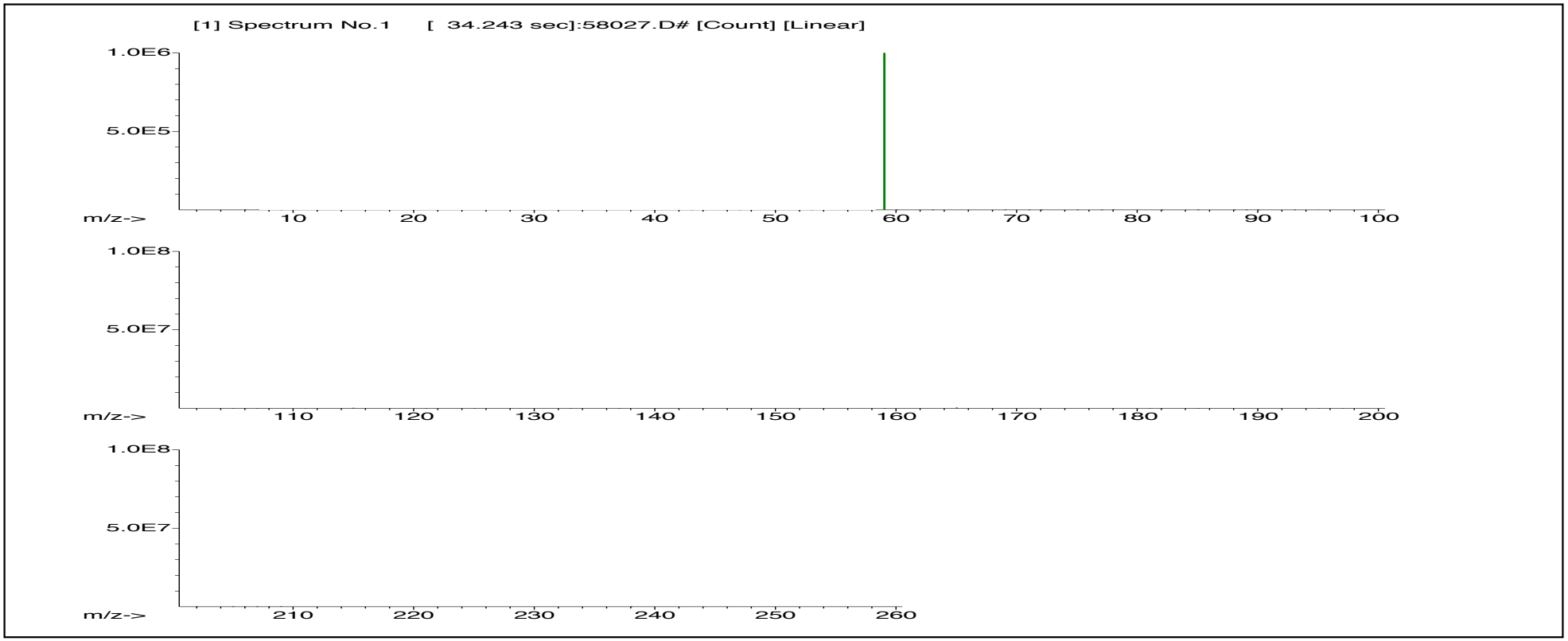
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 ºC)			
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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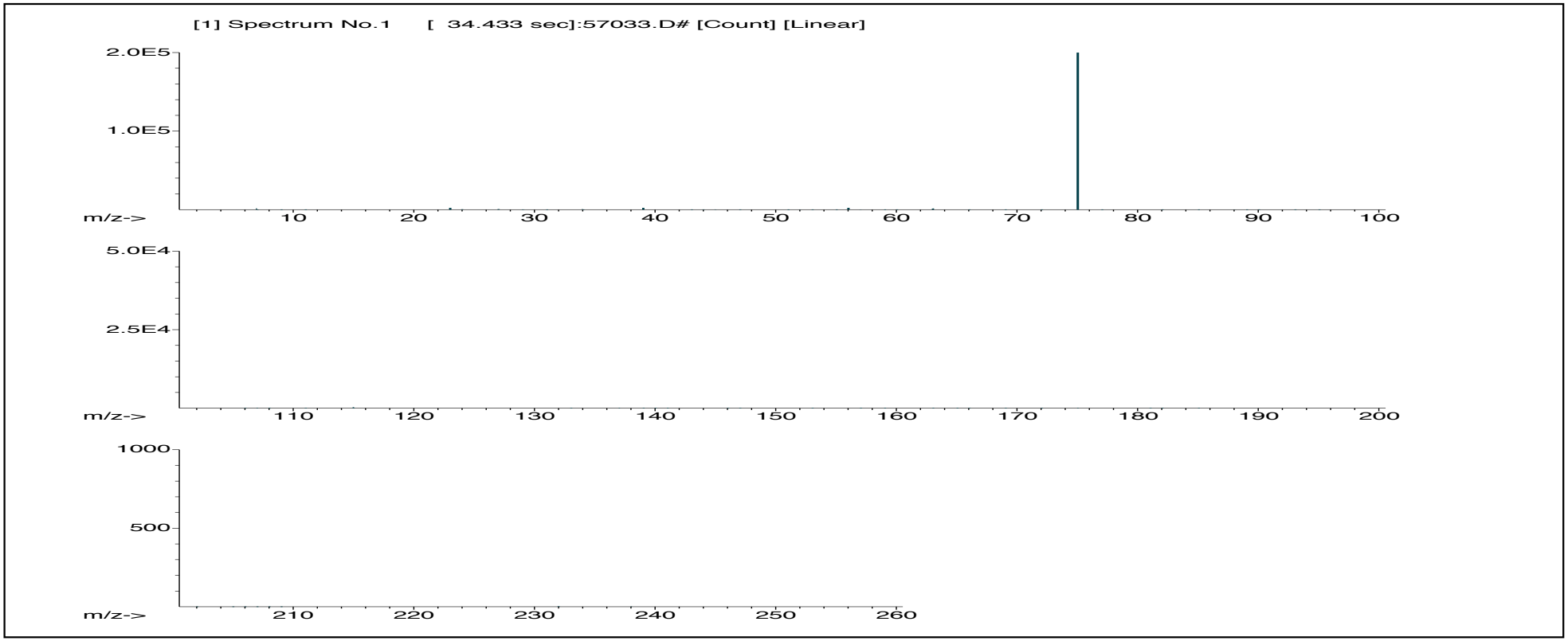
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CERTIFIED WEIGHT REPORT:

		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 ºC)			
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



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.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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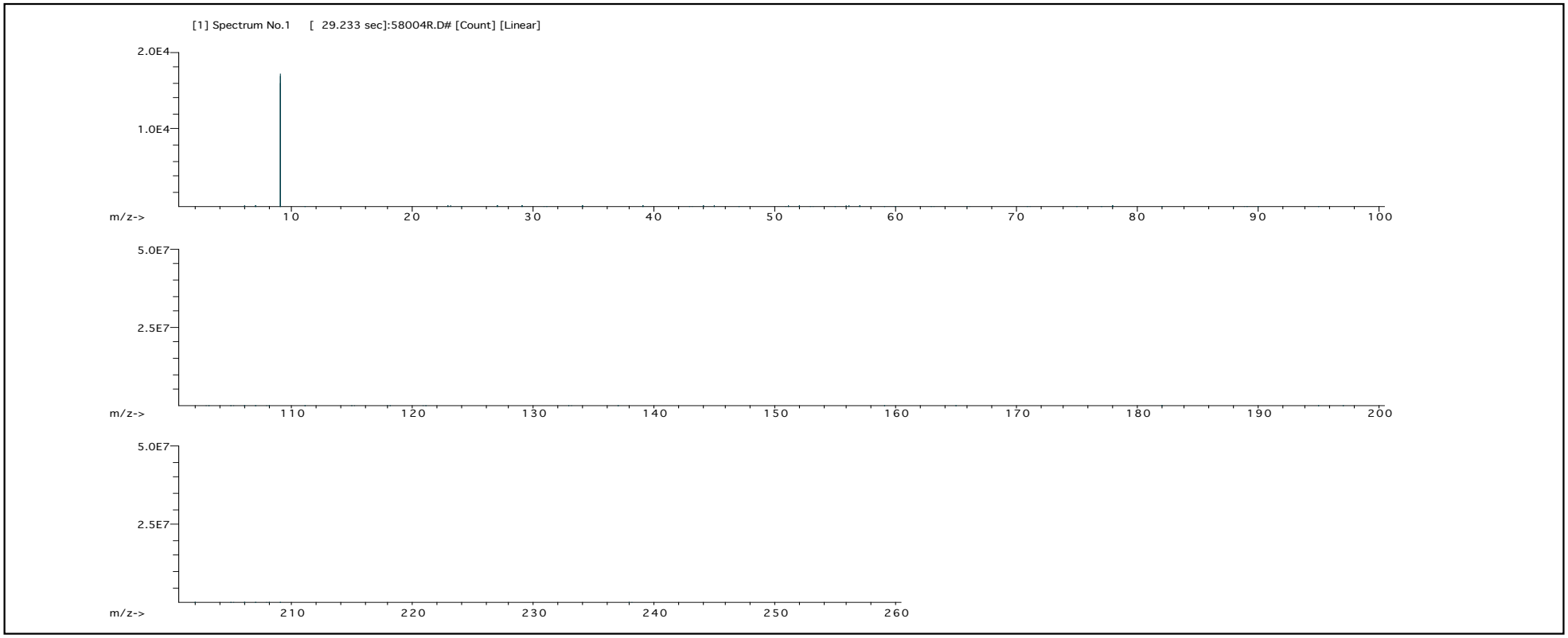
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CERTIFIED WEIGHT REPORT:

		Lot #	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 ºC)			
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



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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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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 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	

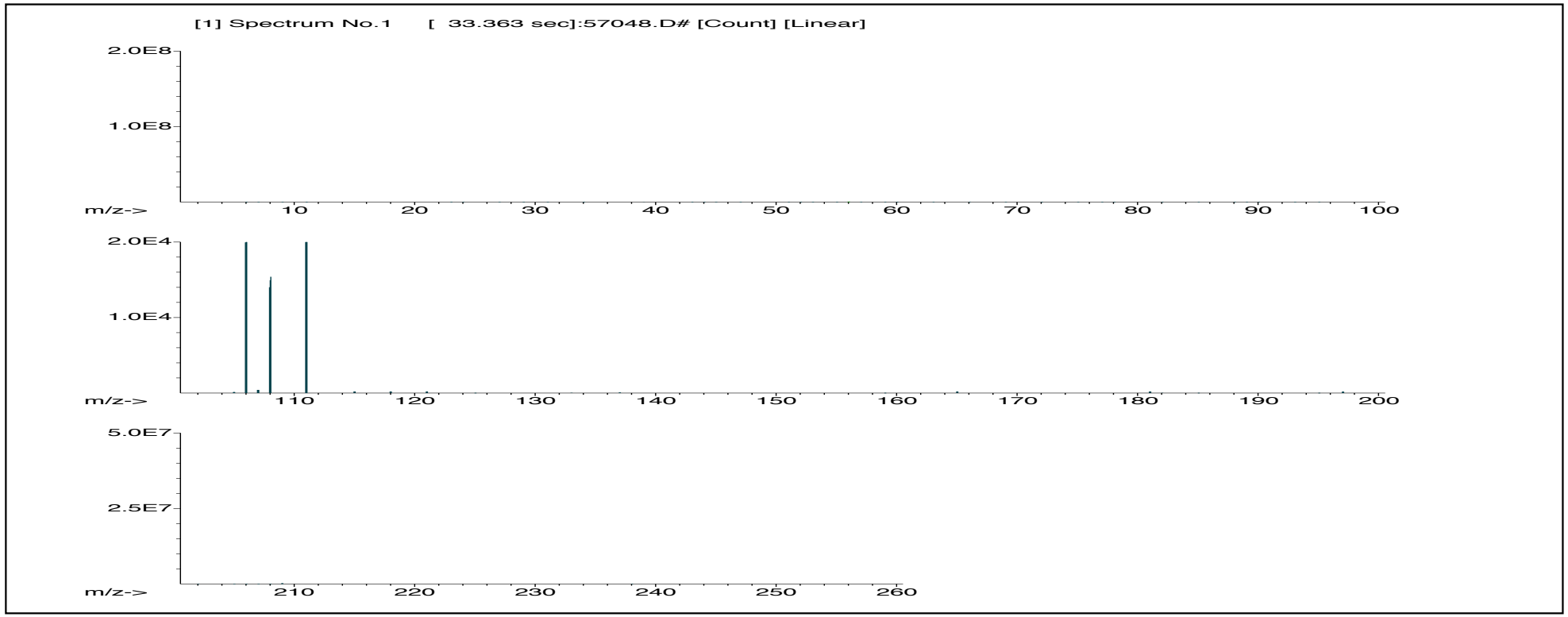
Giovanni Esposito

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. 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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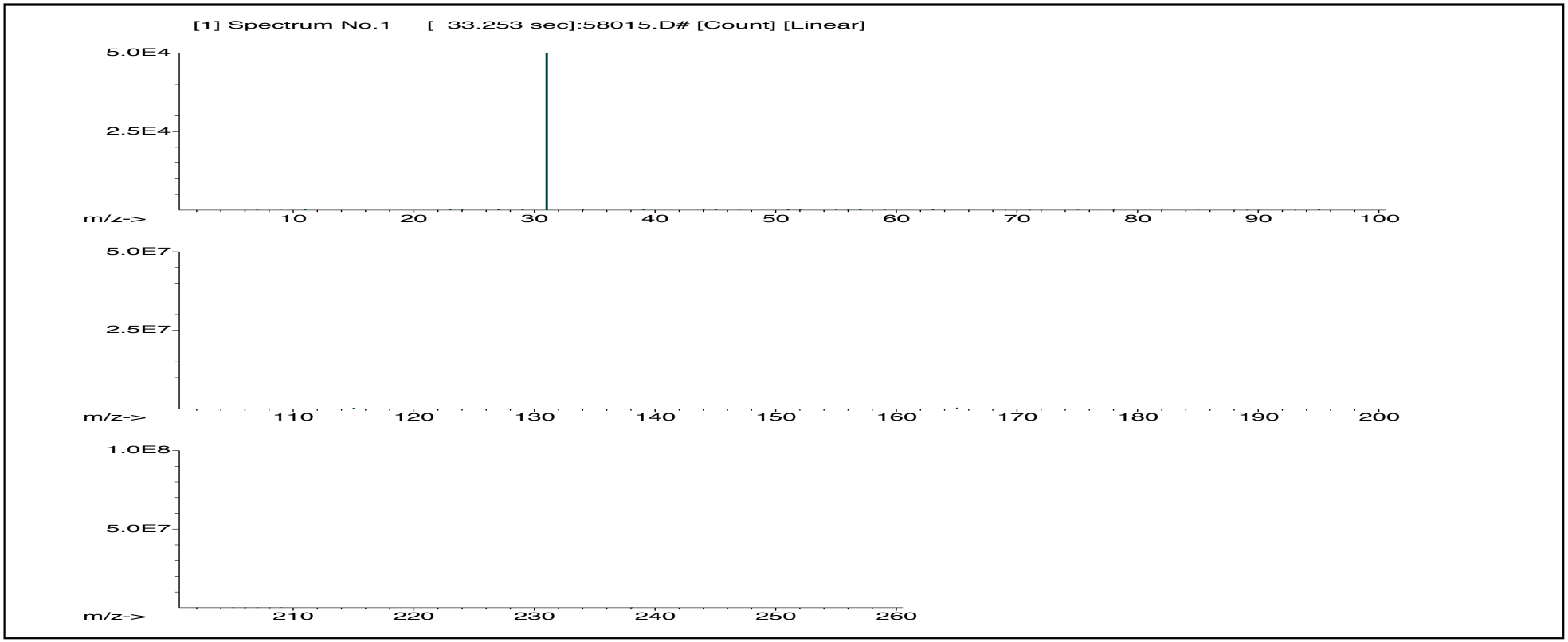
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CERTIFIED WEIGHT REPORT:

		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 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 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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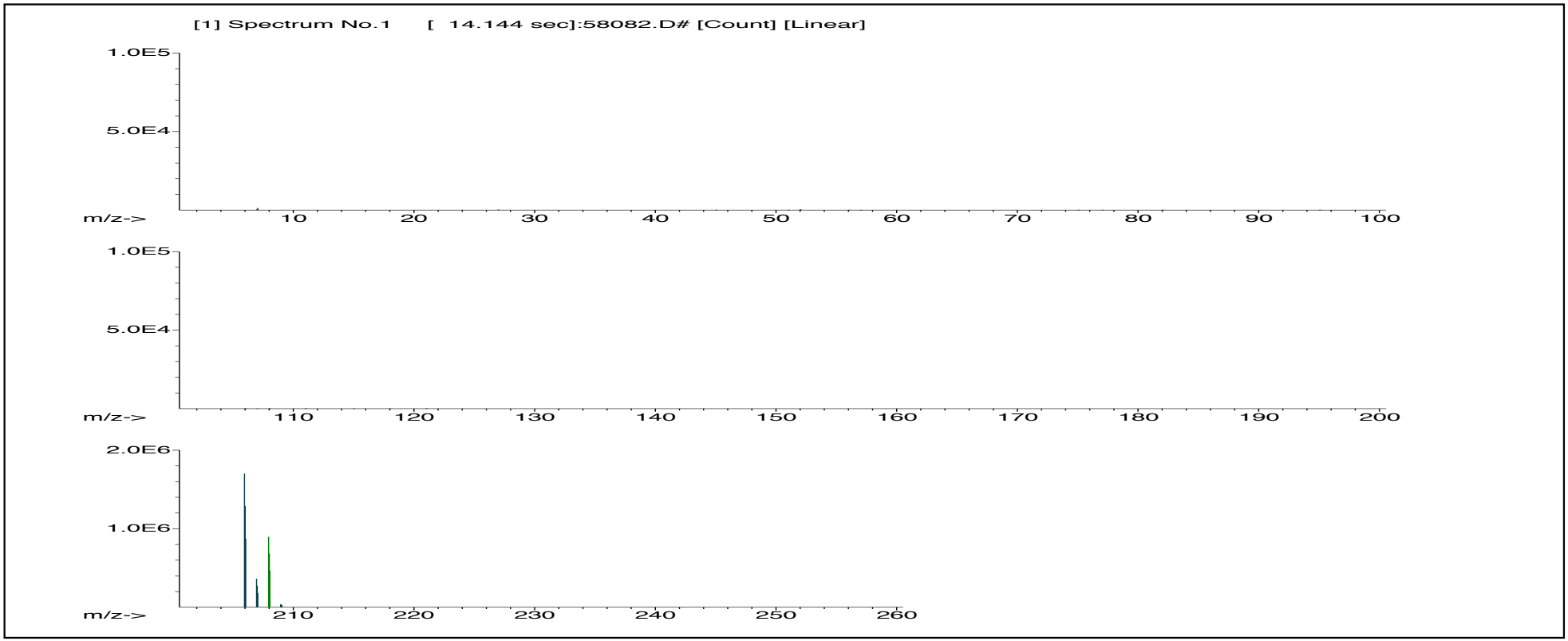
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	062224		(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:	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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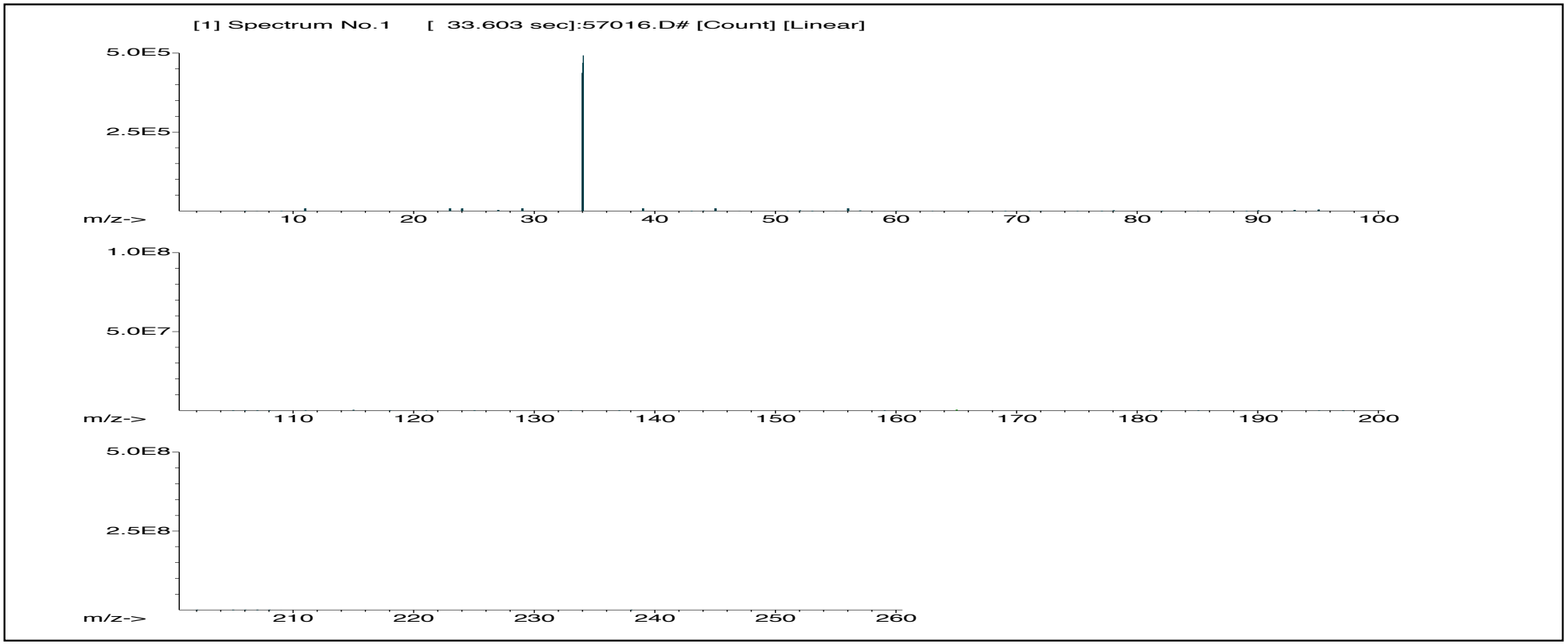
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date: 051724
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): 1999.48 0.058 Flask Uncertainty

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



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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* 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 (mL)	Nitric Acid
Expiration Date:	070224			
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	

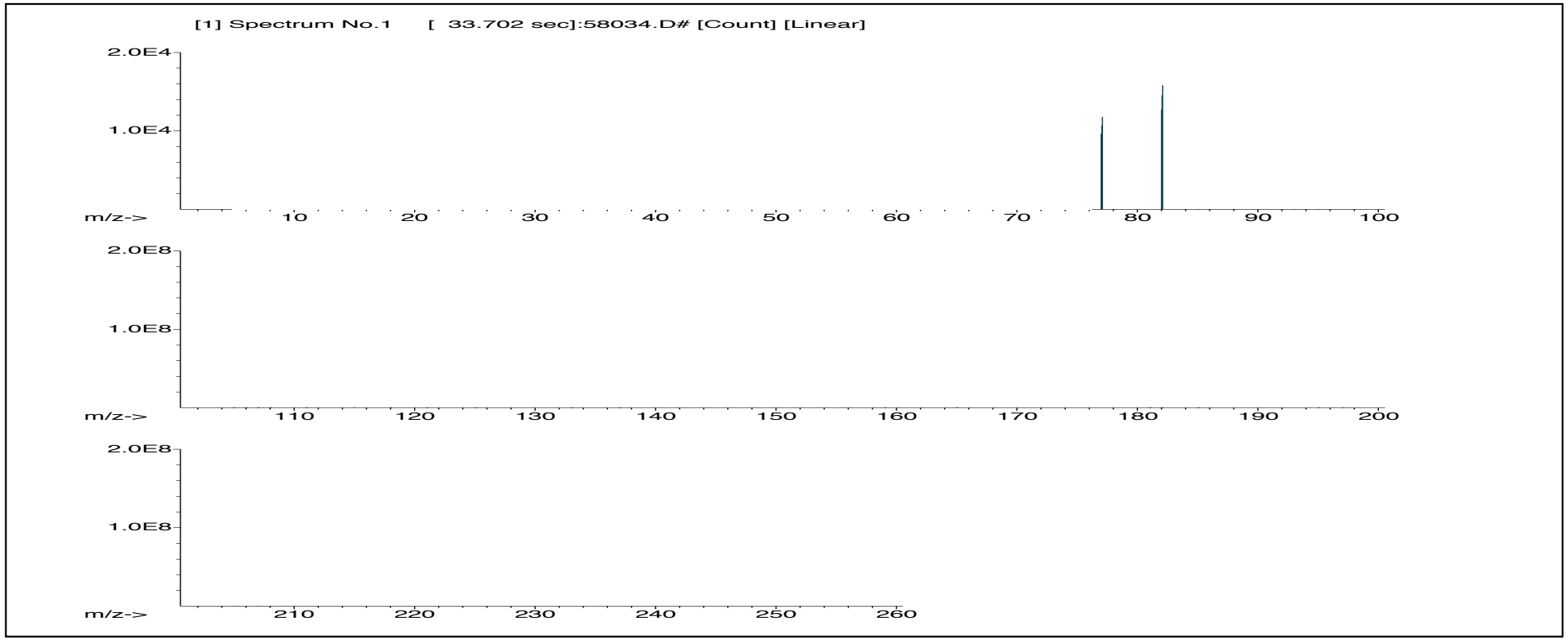
Giovanni Esposito

Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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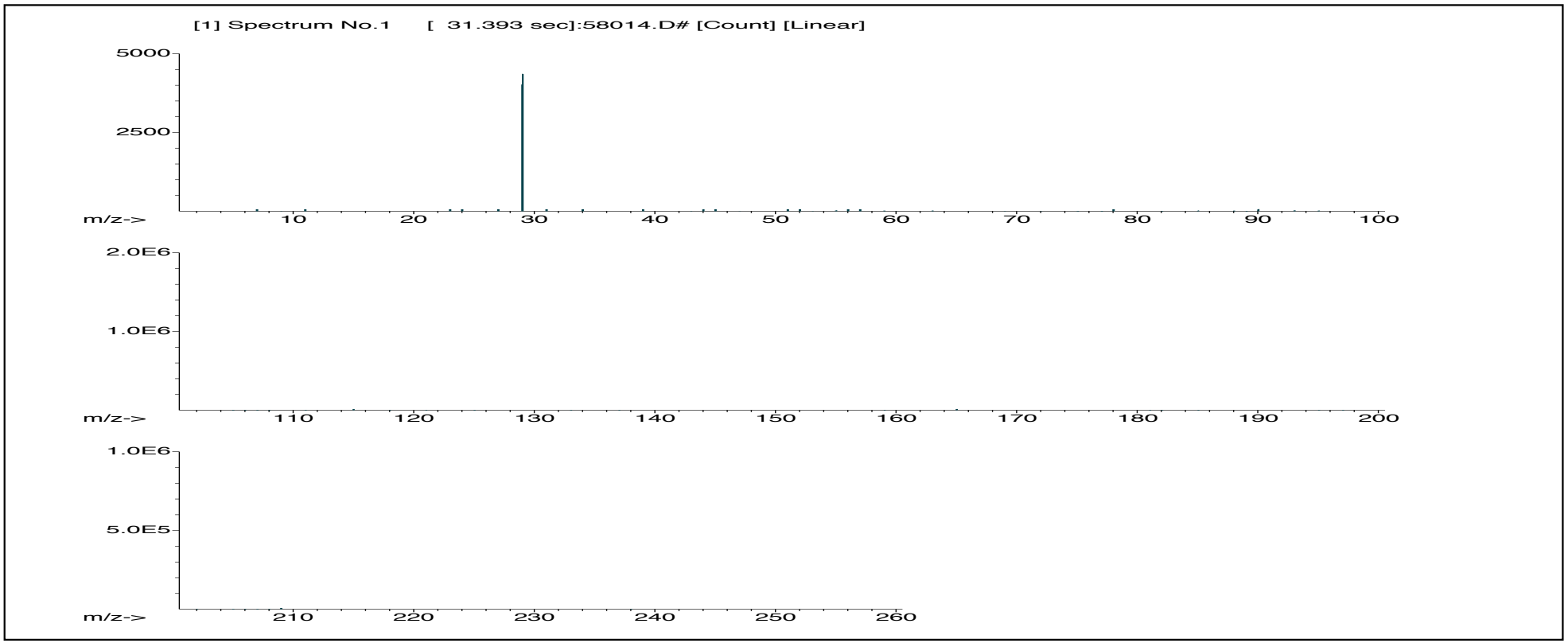
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CERTIFIED WEIGHT REPORT:

		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 (mL)	Nitric Acid
Expiration Date:	072924			
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	

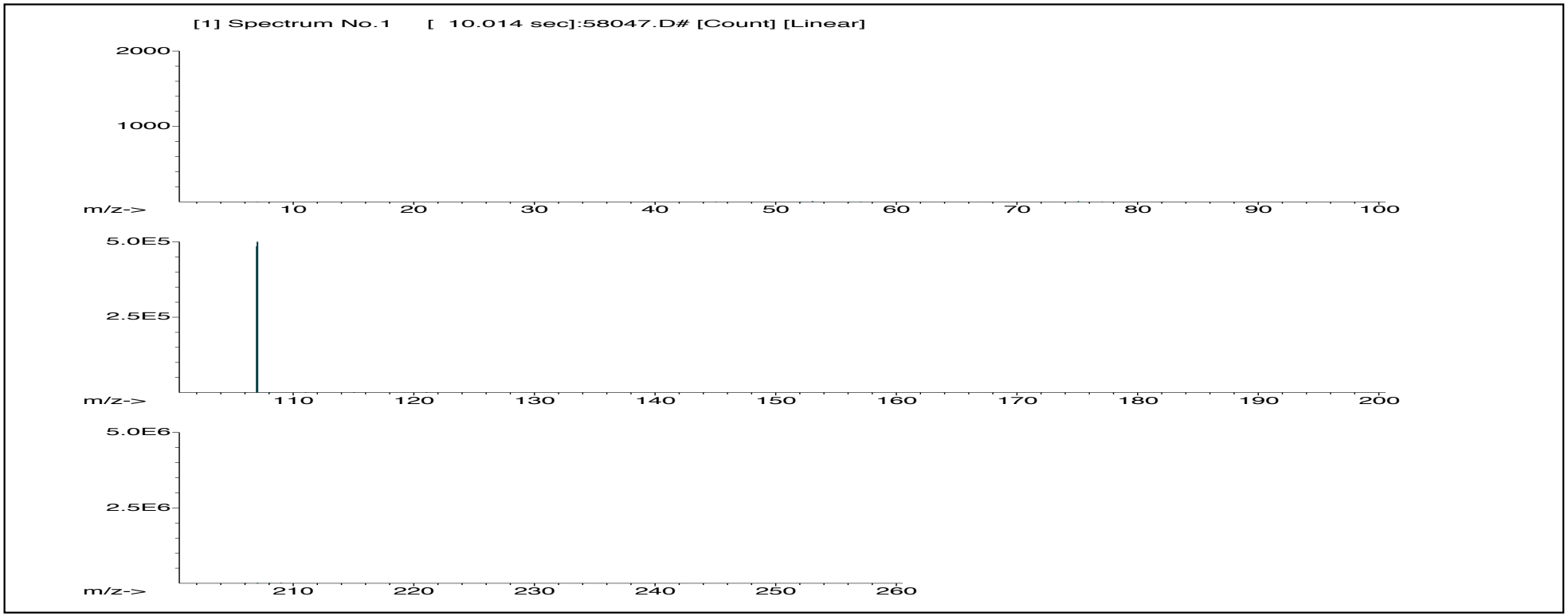
Giovanni Esposito

Formulated By:	Giovanni Esposito	072921

Pedro Rentas

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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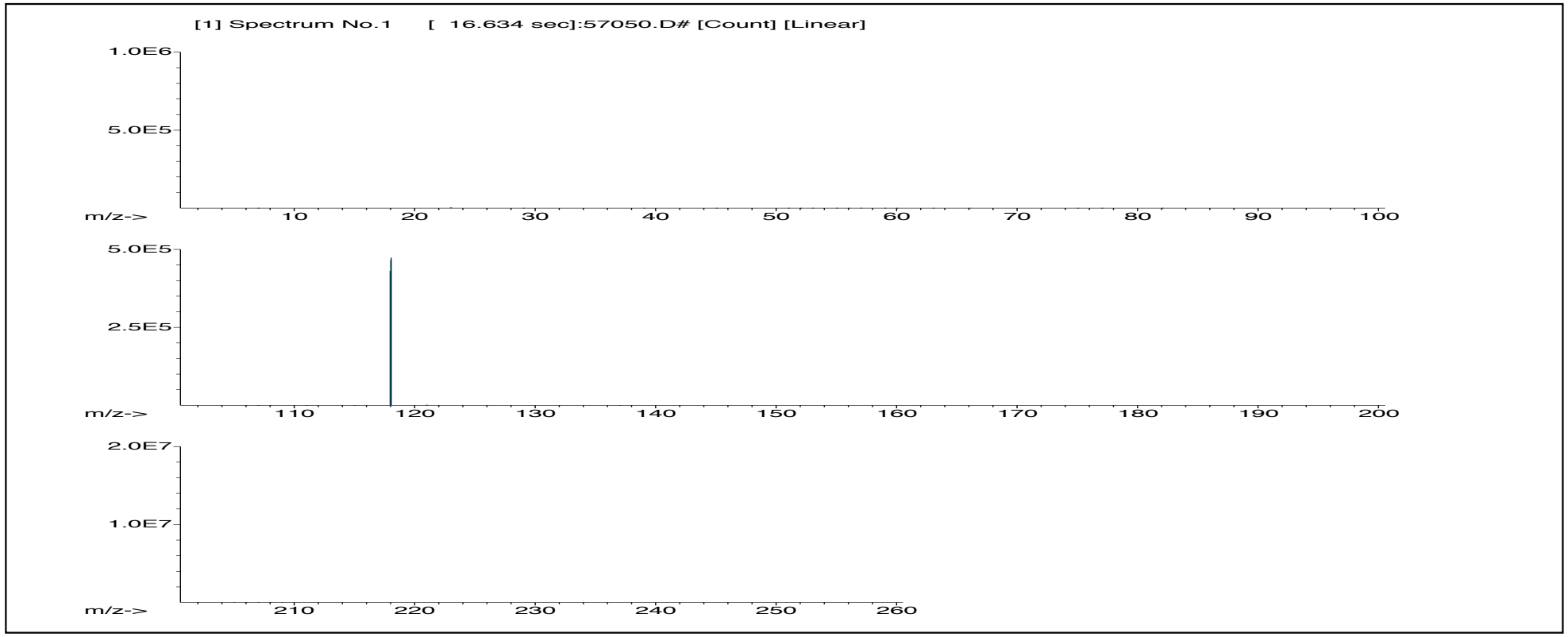
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
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 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



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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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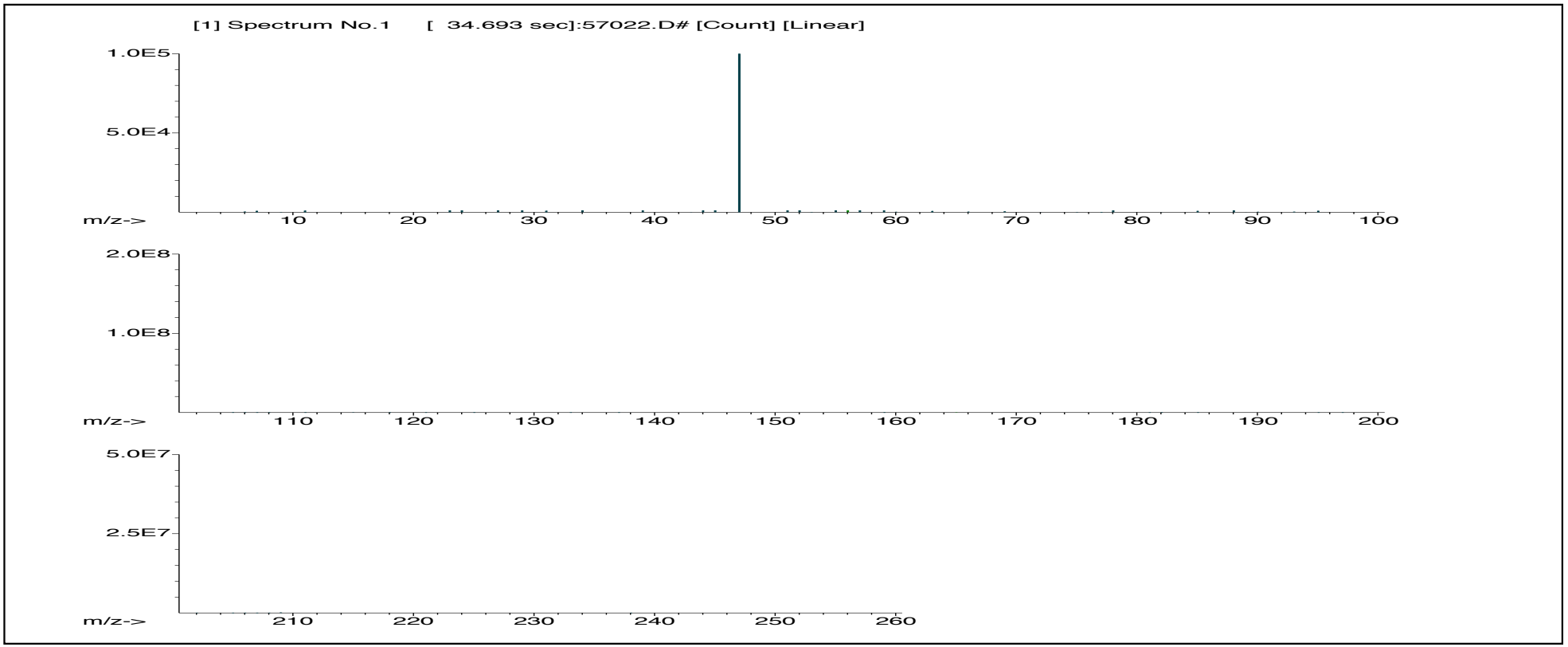
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	070724		(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:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

	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	Conc. (µg/mL)	Conc. (µg/mL)	**Conc. (µg/mL)**	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	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



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	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	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:	**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	

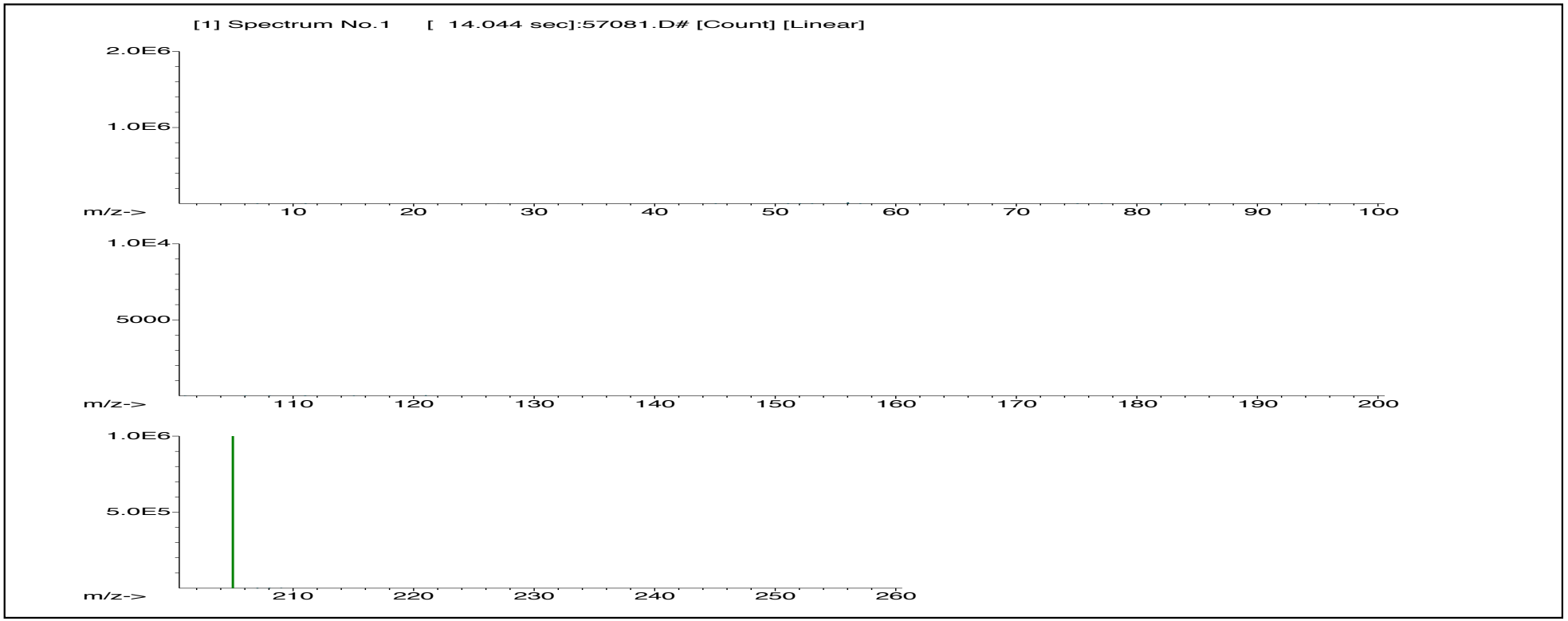
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

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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* 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:	**58030**	20370011	Nitric Acid	
Lot Number:	**031921**			
Description:	**Zinc (Zn)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	031924			
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	

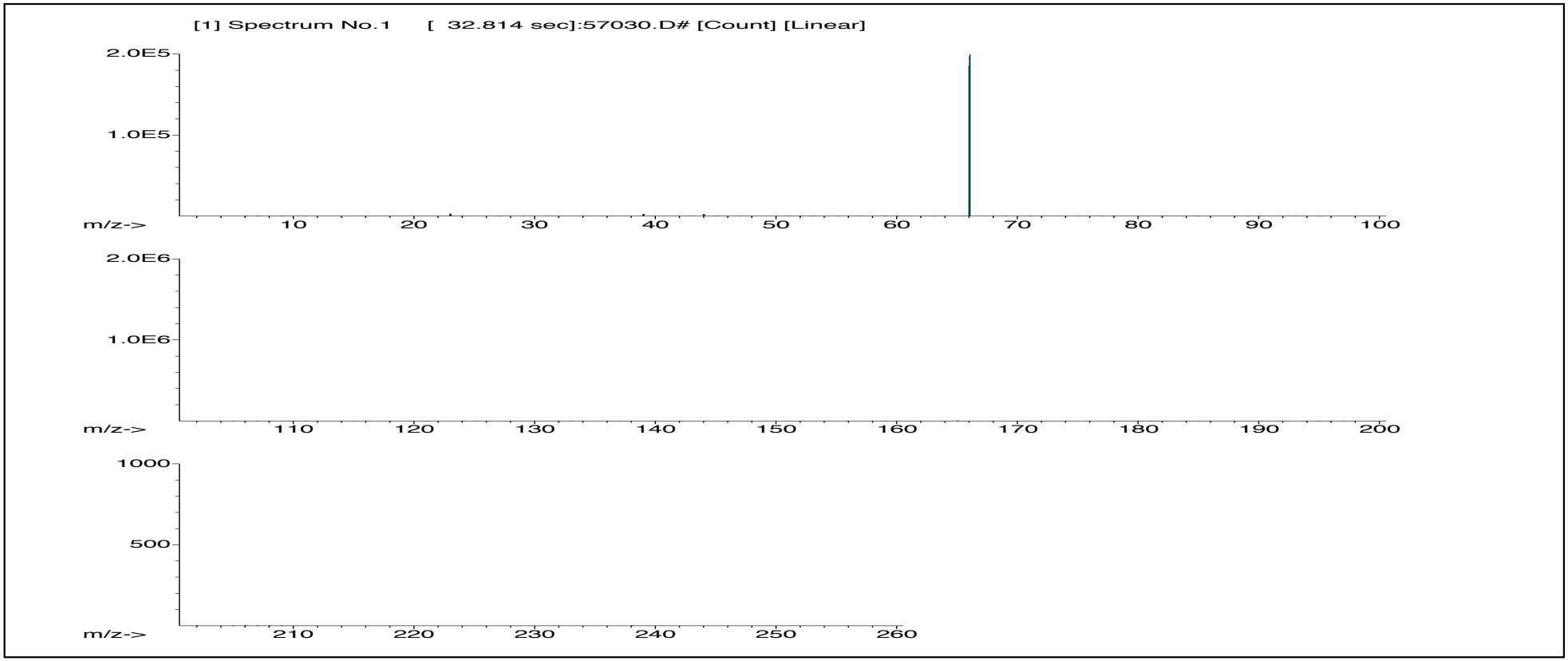
Giovanni Esposito

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



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.
* 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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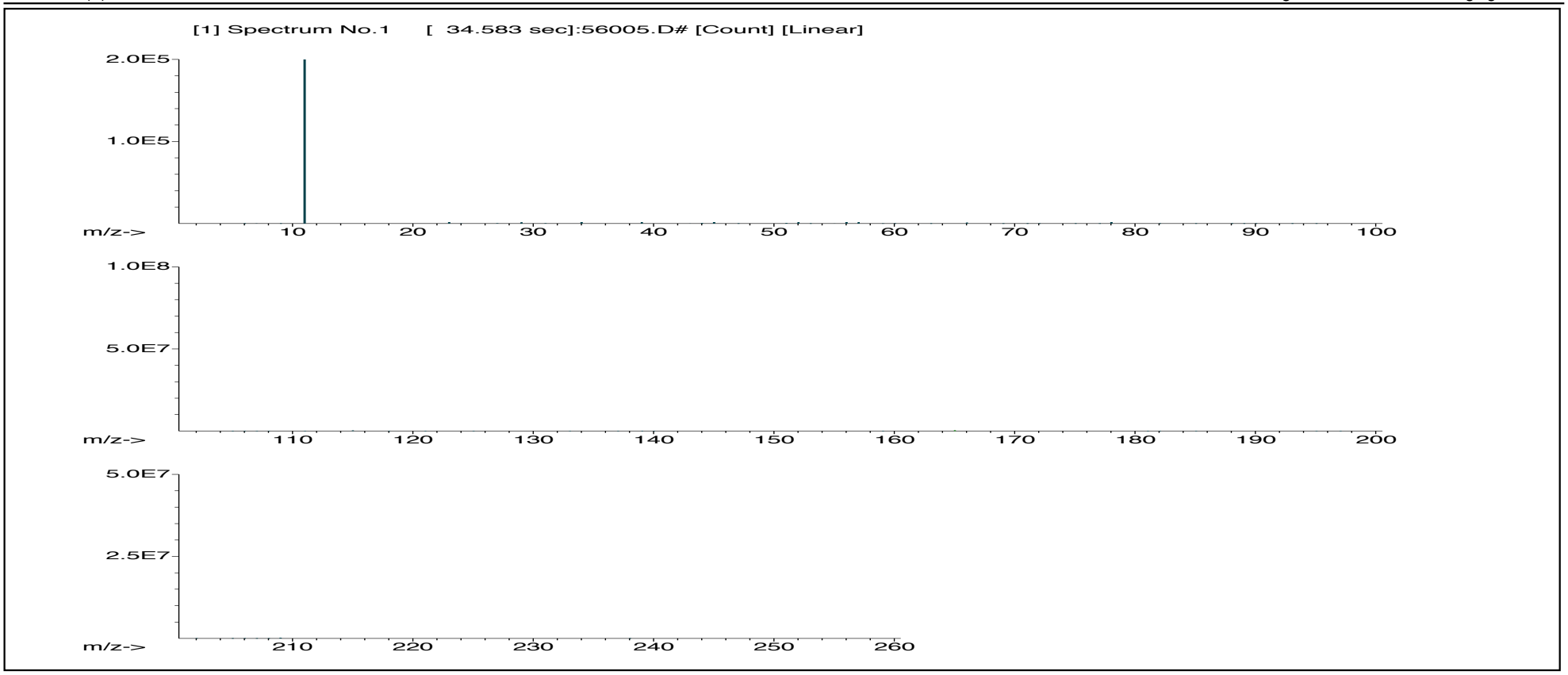
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57005**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**031921**		
Description:	**Boron (B)**		
		2.0%	40.0 (mL) Ammonium hydroxide
Expiration Date:	031924		
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 031921
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:

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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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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M4917 - 20
MB

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

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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)

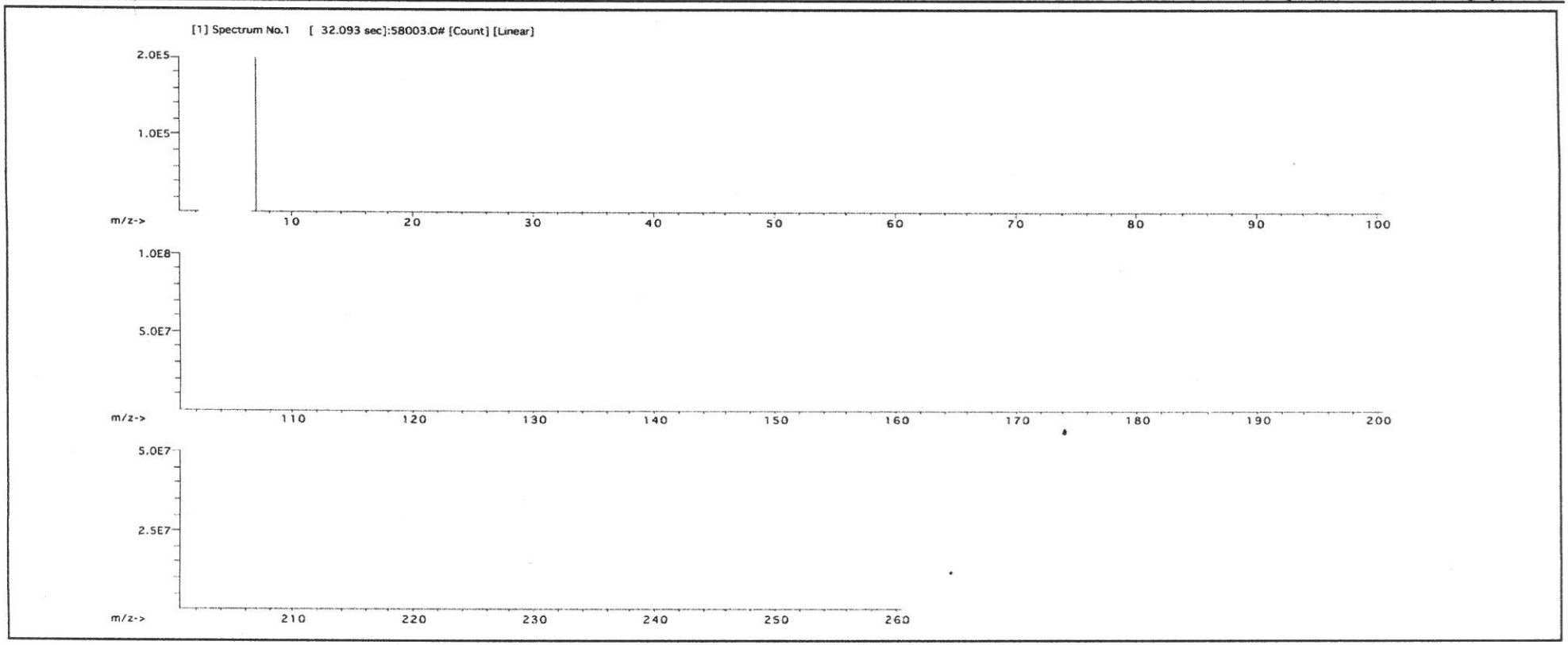
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CERTIFIED WEIGHT REPORT:

		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



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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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

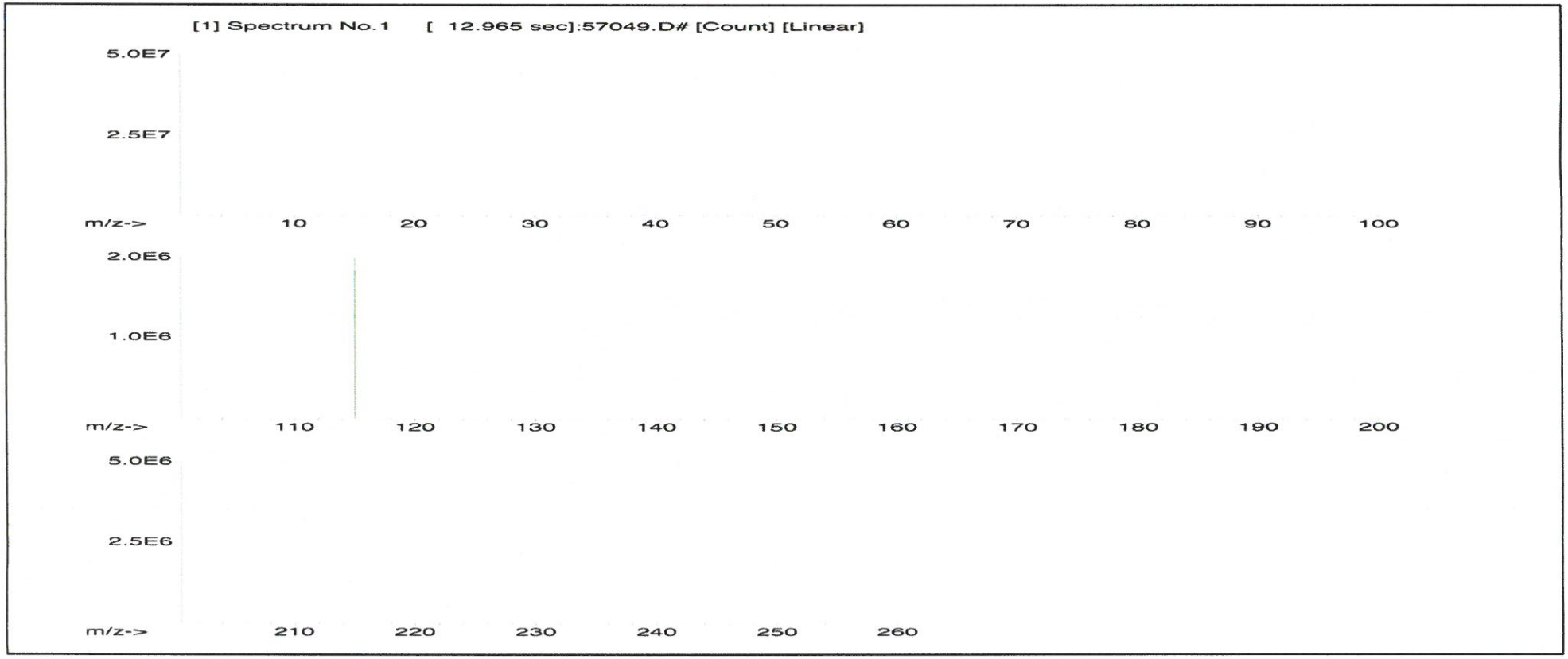
Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

	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



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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* 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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M4961 R: 10/08/21 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58139
Lot Number: 052521
Description: Yttrium (Y)

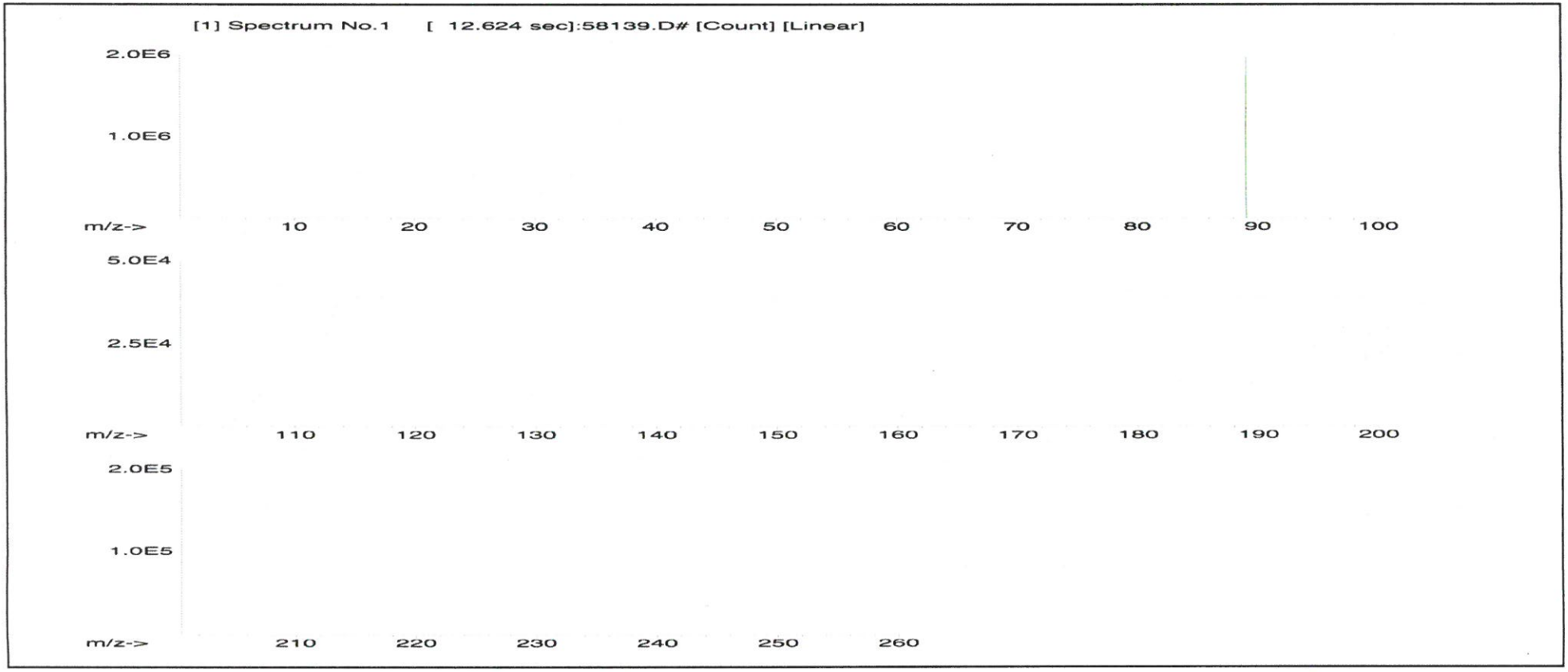
Expiration Date: 052524
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	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



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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

IN 5019 R: 12/09/21 (BH)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

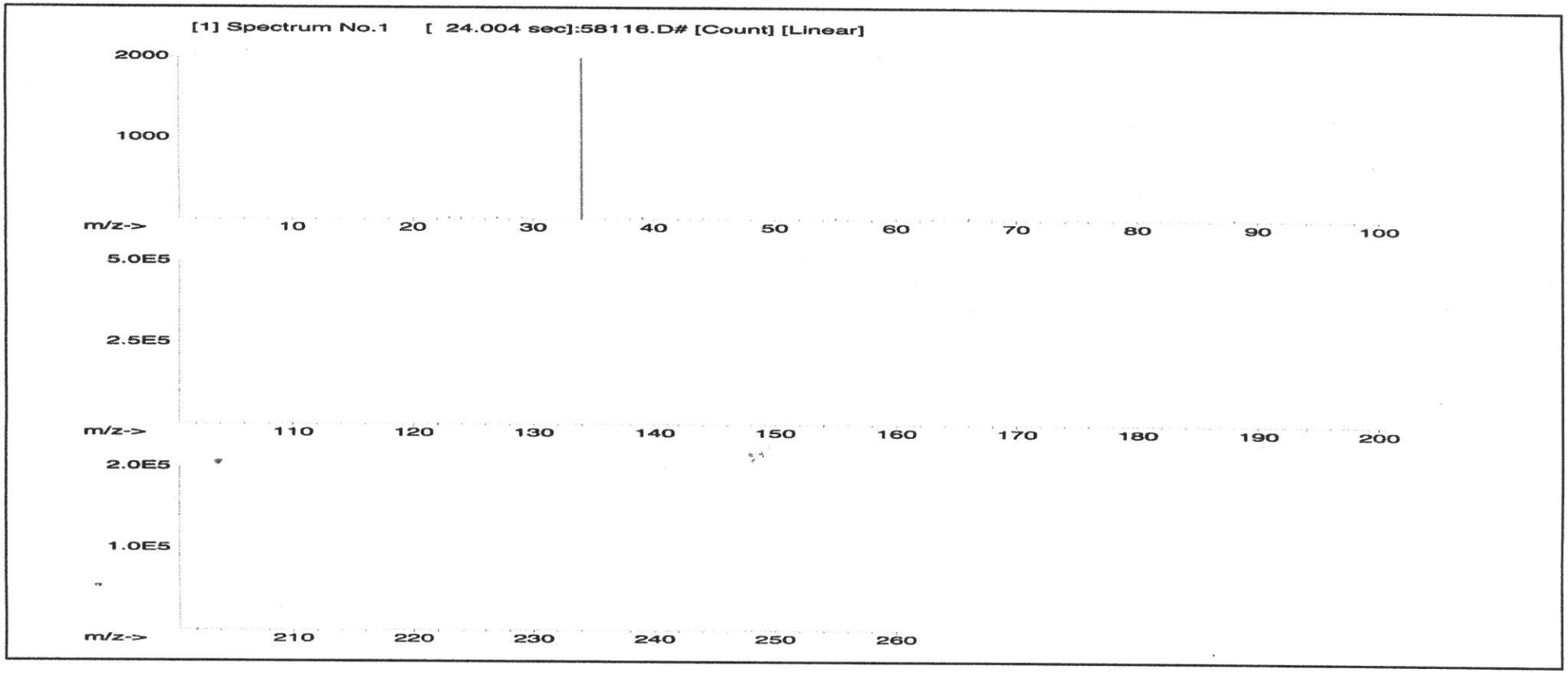
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

5E-05 Balance Uncertainty

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



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.

* 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

BA

M5020

R: 12/09/21

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

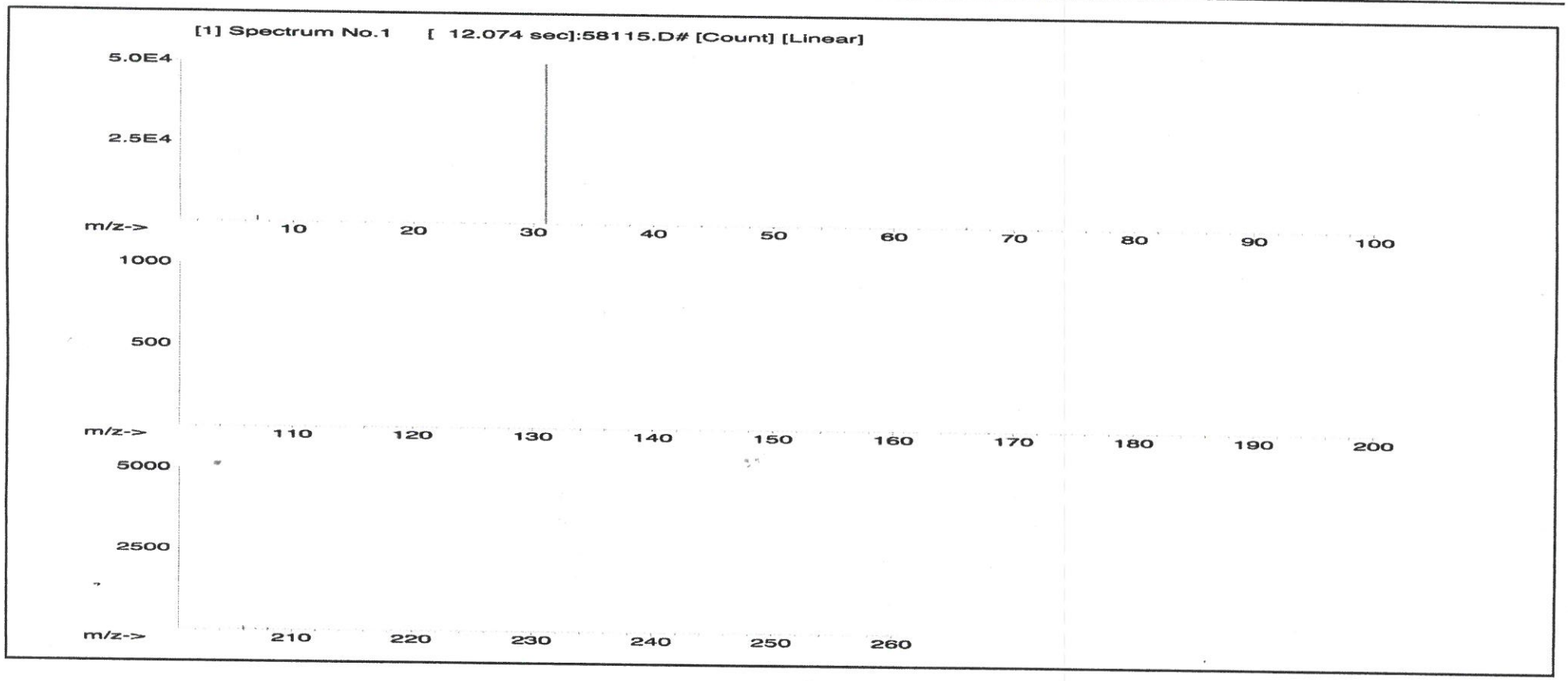
Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	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



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:

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).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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Certified Reference Material CRM

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AR-1539 Certificate Number
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R: 6/2/22

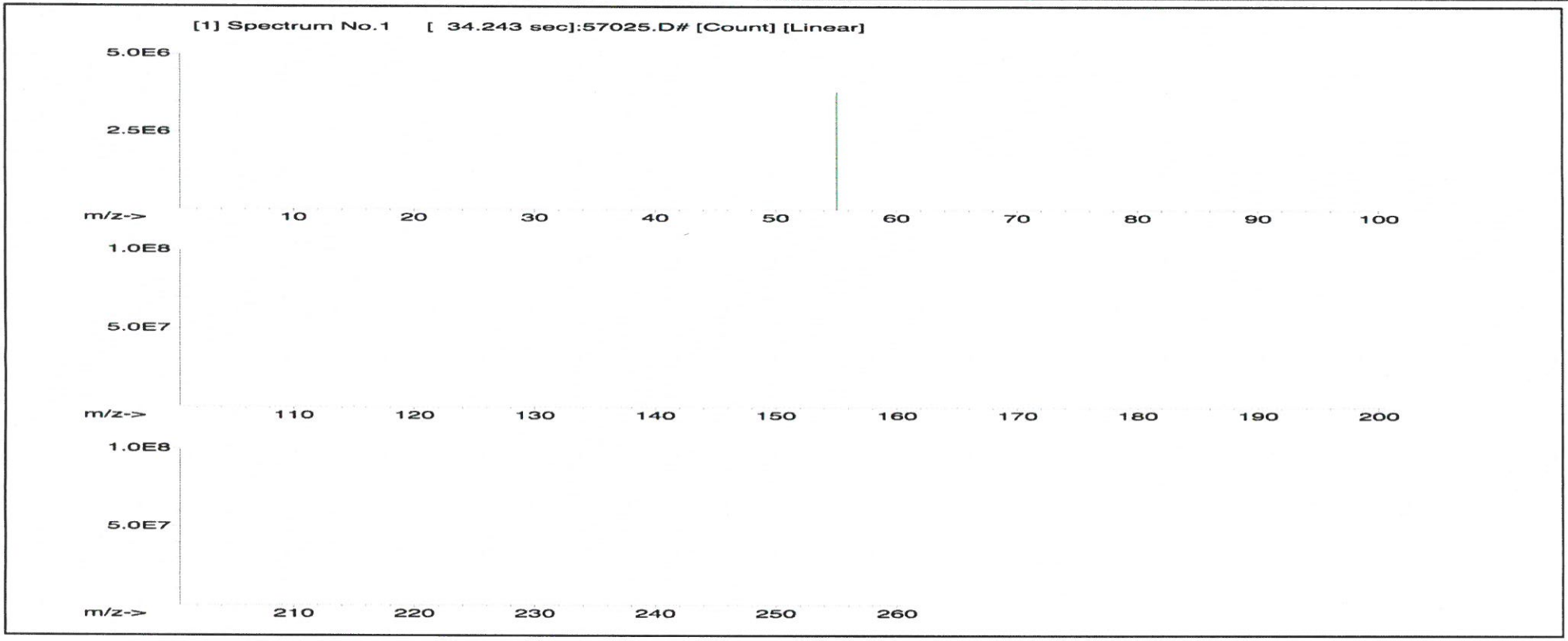
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:	
Part Number:	**58025**	20510011	Nitric Acid	
Lot Number:	**060122**			
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



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:

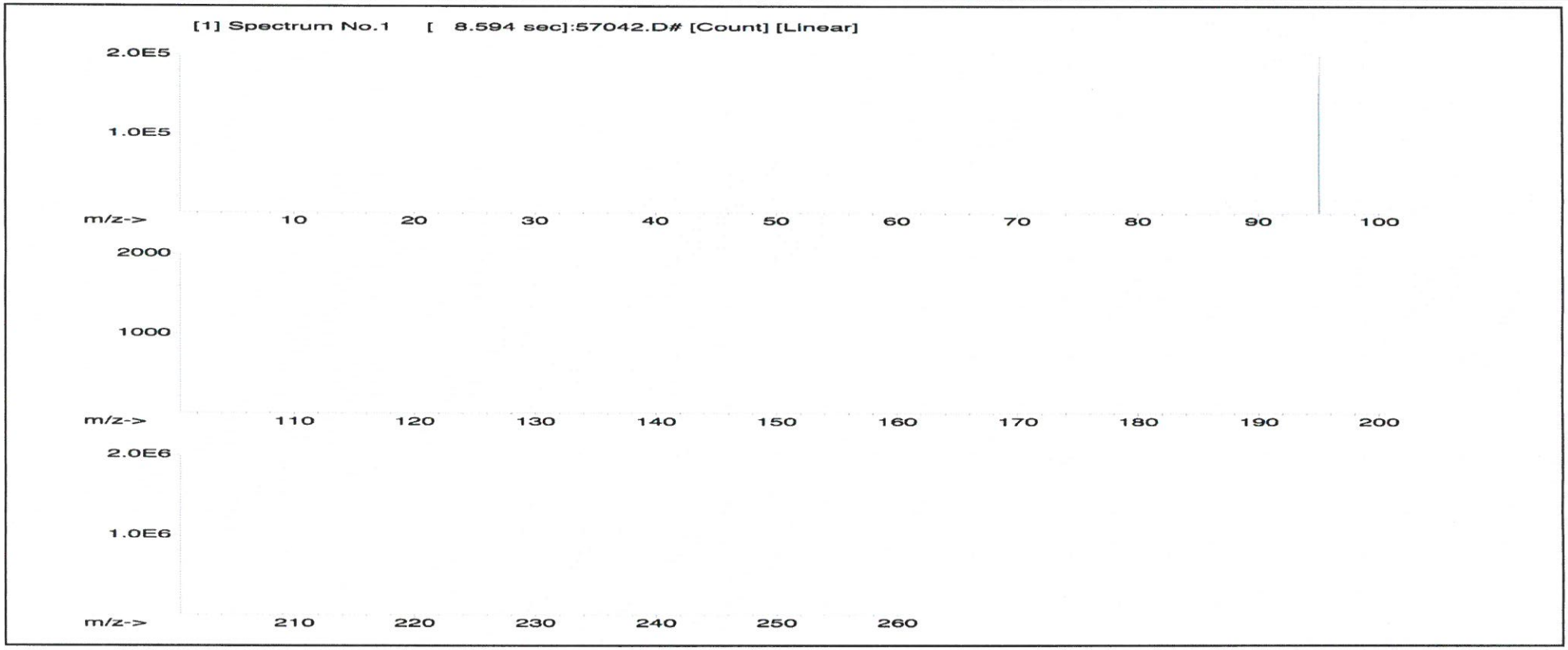
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	Lot #	Solvent:	
	MKBQ8597V	Ammonium hydroxide	
	0.5%	15.0 (mL)	Ammonium hydroxide

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M 5700 R: 10/05/21 BH

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

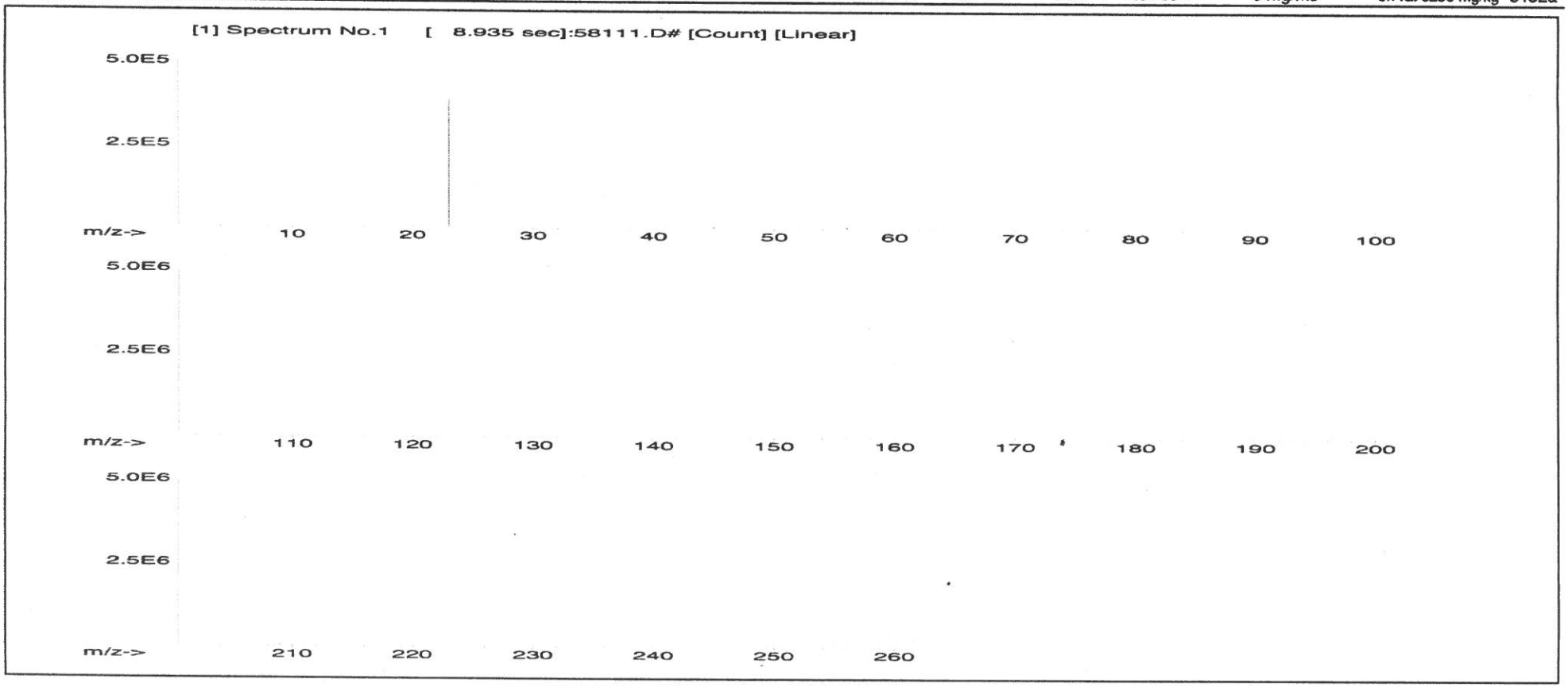
Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

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



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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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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:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	20370011	Nitric Acid	
Lot Number:	**101521**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	101524			
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):	2000.25	0.116	Flask Uncertainty	

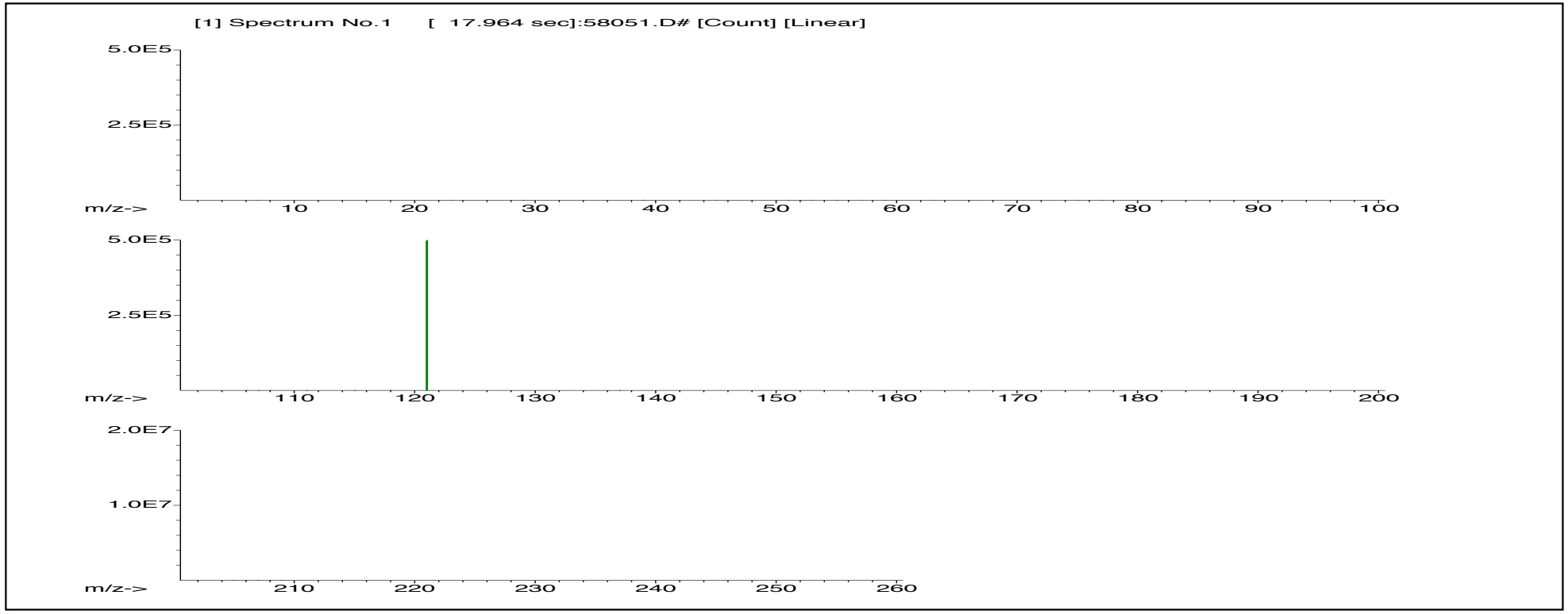
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

											SDS Information			
		Part	Lot	Dilution	Initial	Uncertainty	Nominal	Initial	**Final**	Expanded Uncertainty	(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.	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



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.

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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

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CERTIFIED WEIGHT REPORT:

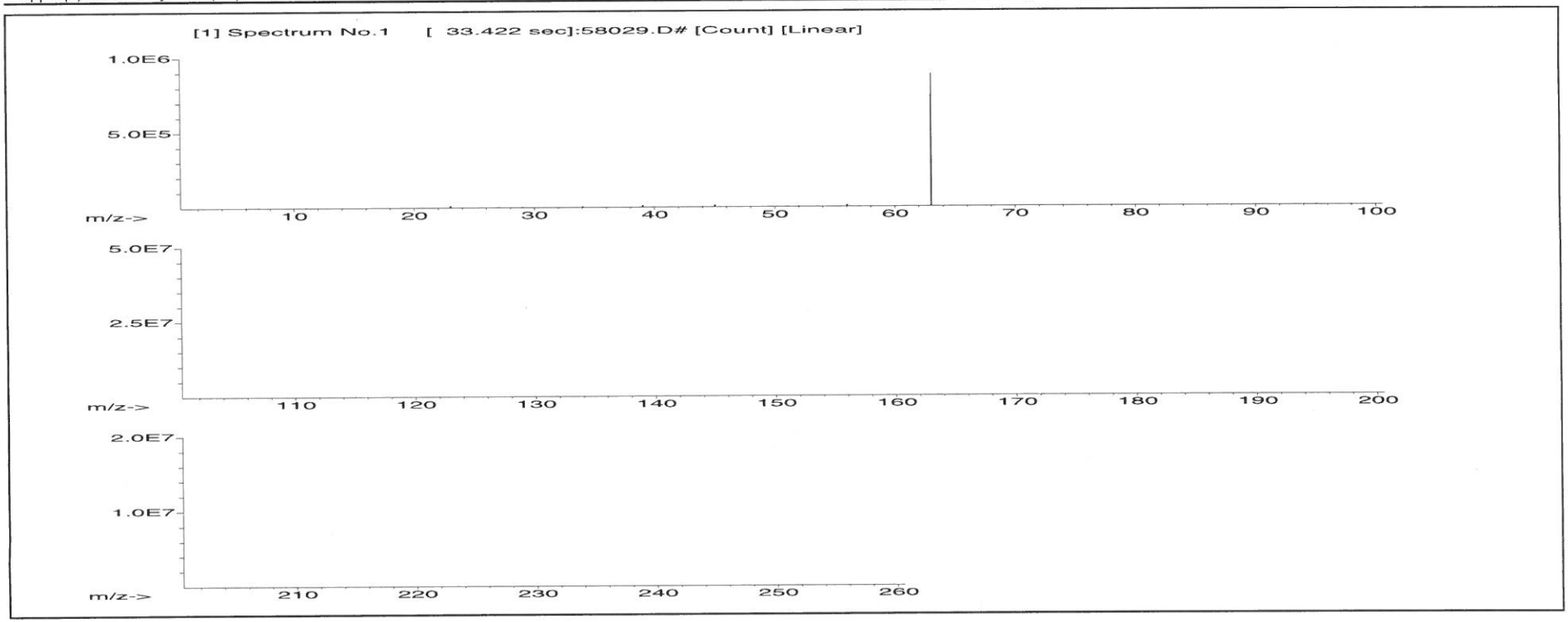
Part Number: 58029
Lot Number: 022822
Description: Copper (Cu)
Expiration Date: 022825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

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



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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* 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).

M5227 R: 10/18/2021

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	20370011	Nitric Acid	
Lot Number:	**100121**			
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	

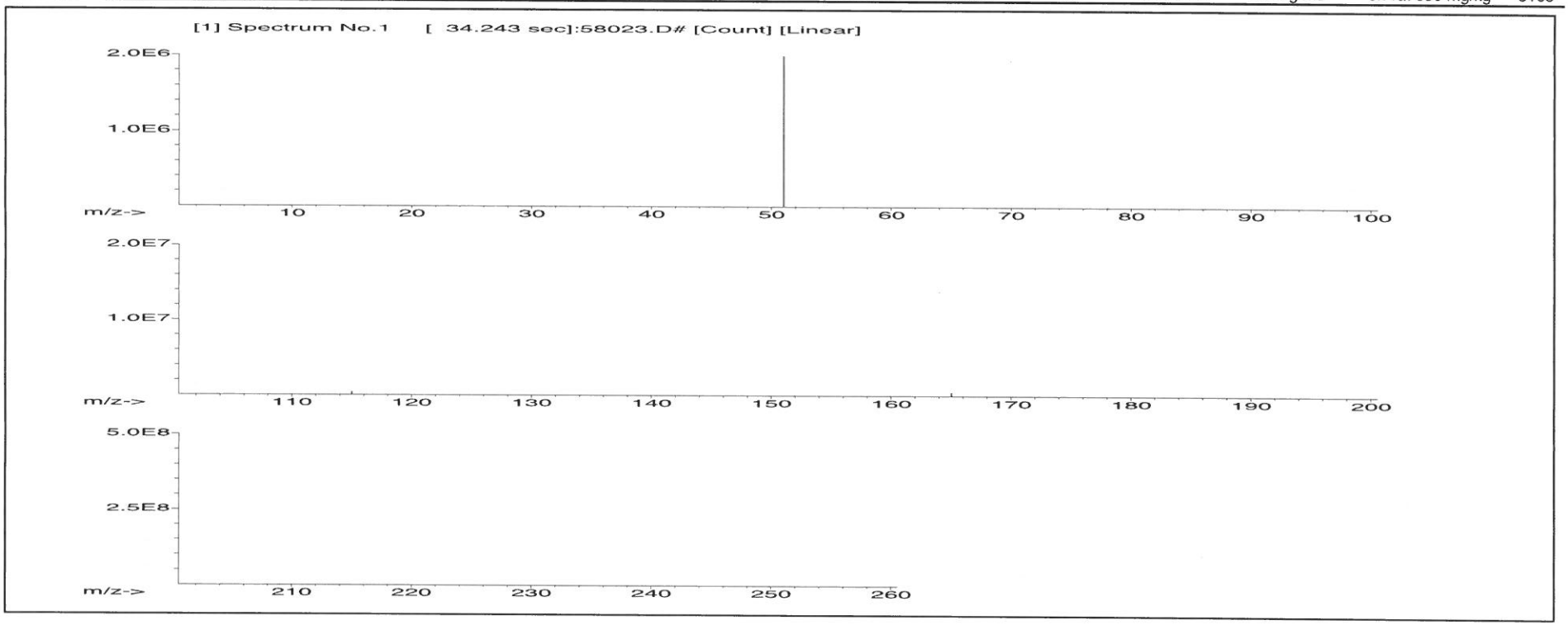
Giovanni Esposito

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



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:



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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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M5228 R: 07/05/22 BH

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57038**	20370011	Nitric Acid		
Lot Number:	**073021**				
Description:	**Strontium (Sr)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	073024				
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		

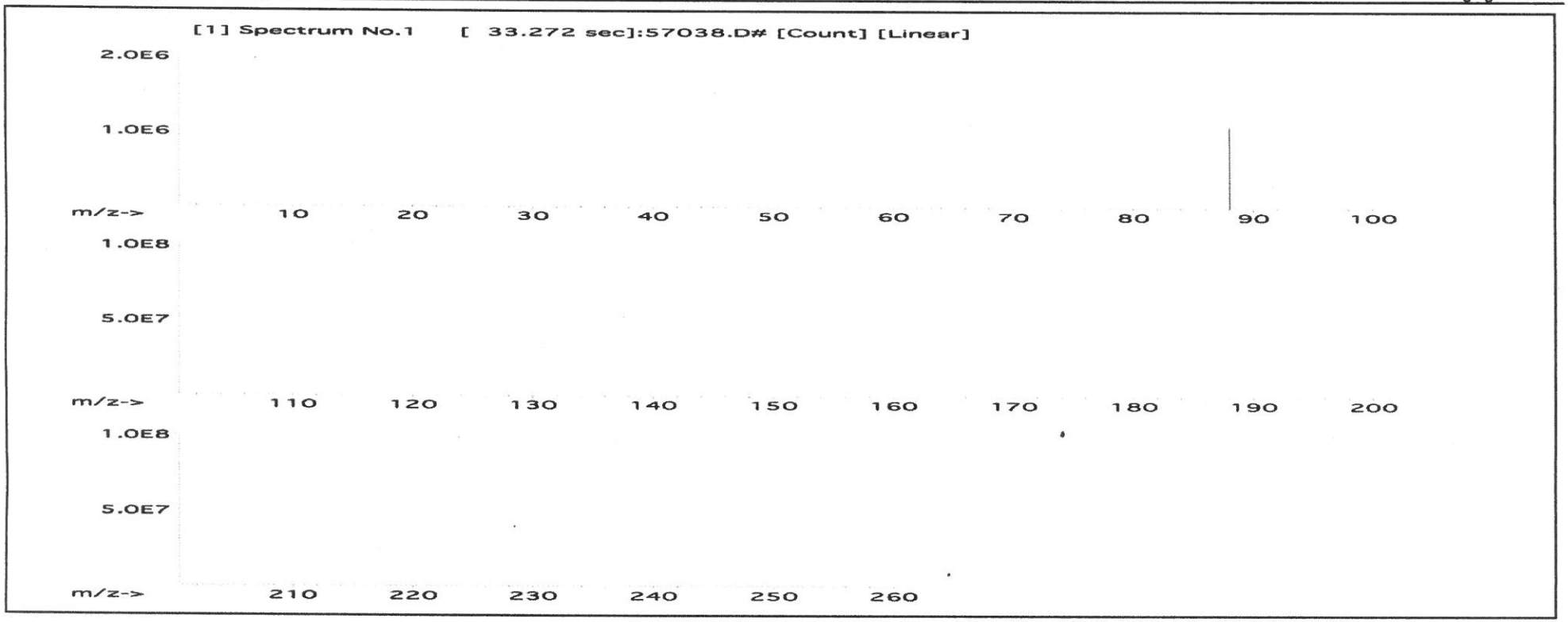
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

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. Strontium nitrate (Sr)	58138	062321	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	10042-76-9	NA	orl-rat 2750mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

V15200 R: 04/24/22 (BP)

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CERTIFIED WEIGHT REPORT:

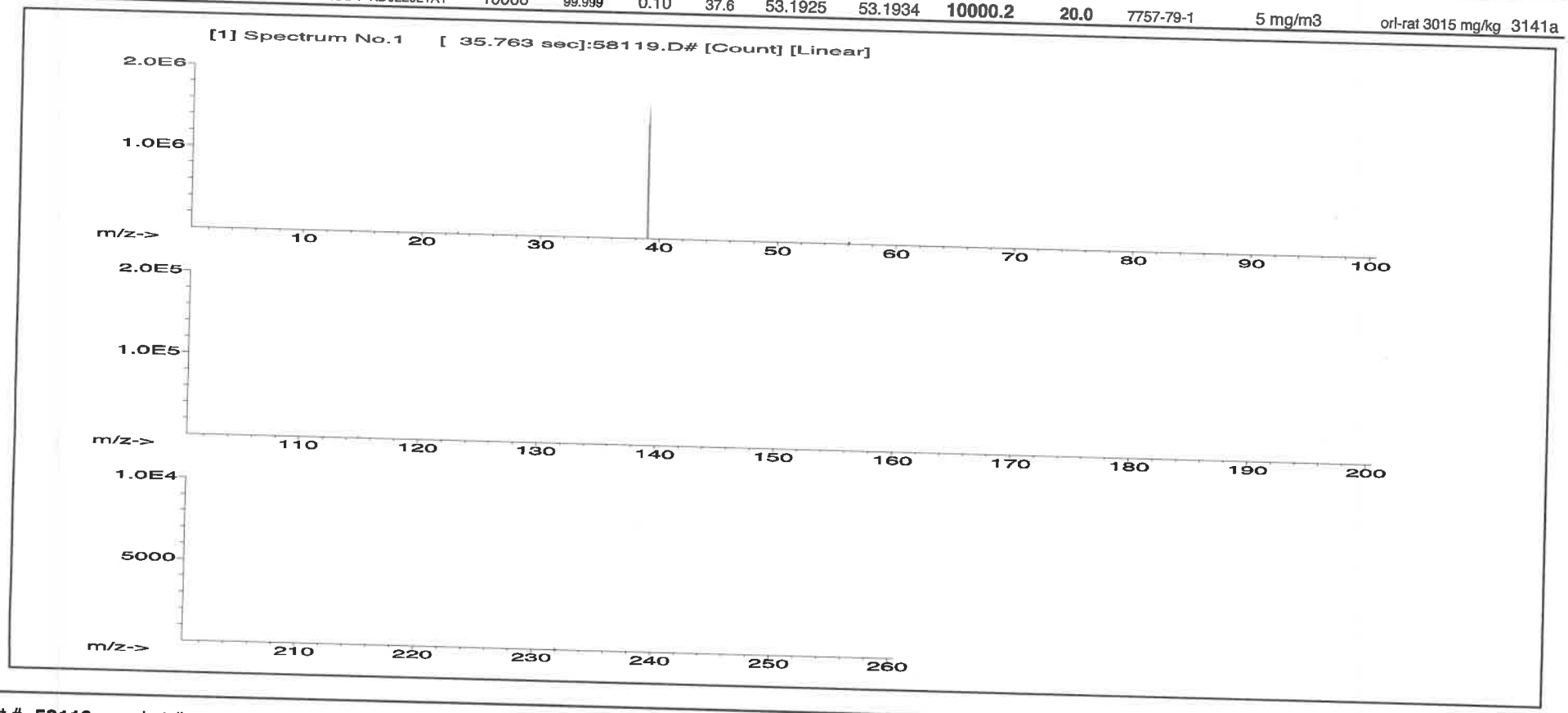
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5289 R: 07/12/22 (BH)

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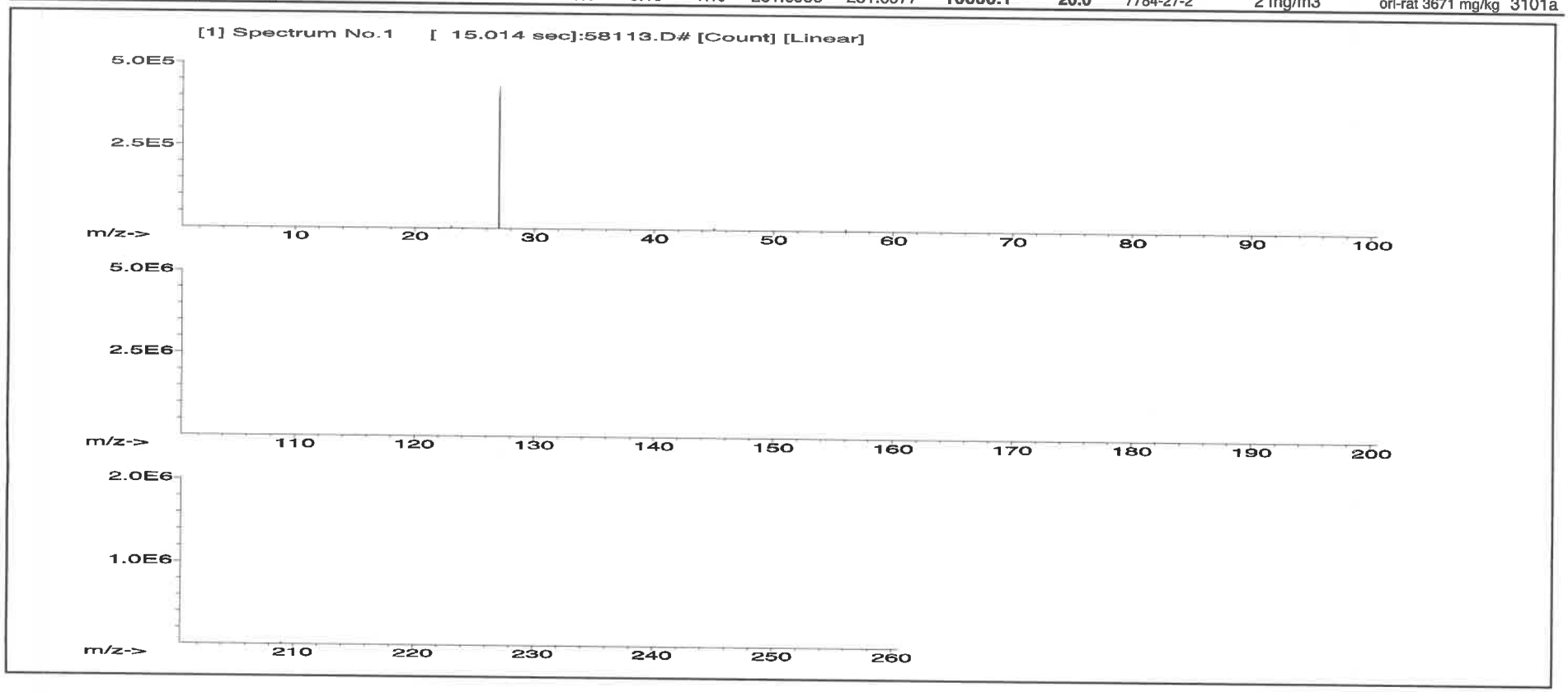
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CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**				
			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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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

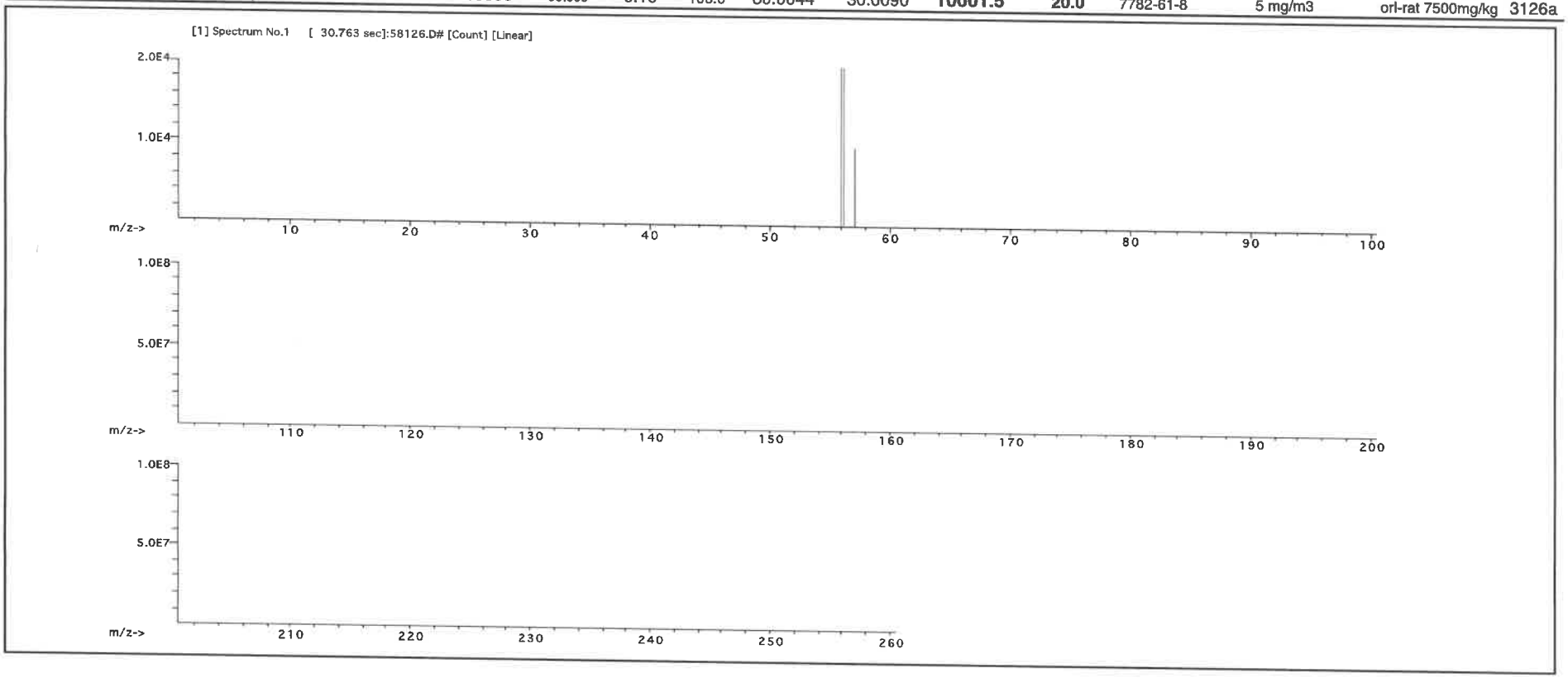
	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
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



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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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 09/08/22 (BH)

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M5387 . M5389 . M5390 . M5391 . M5392

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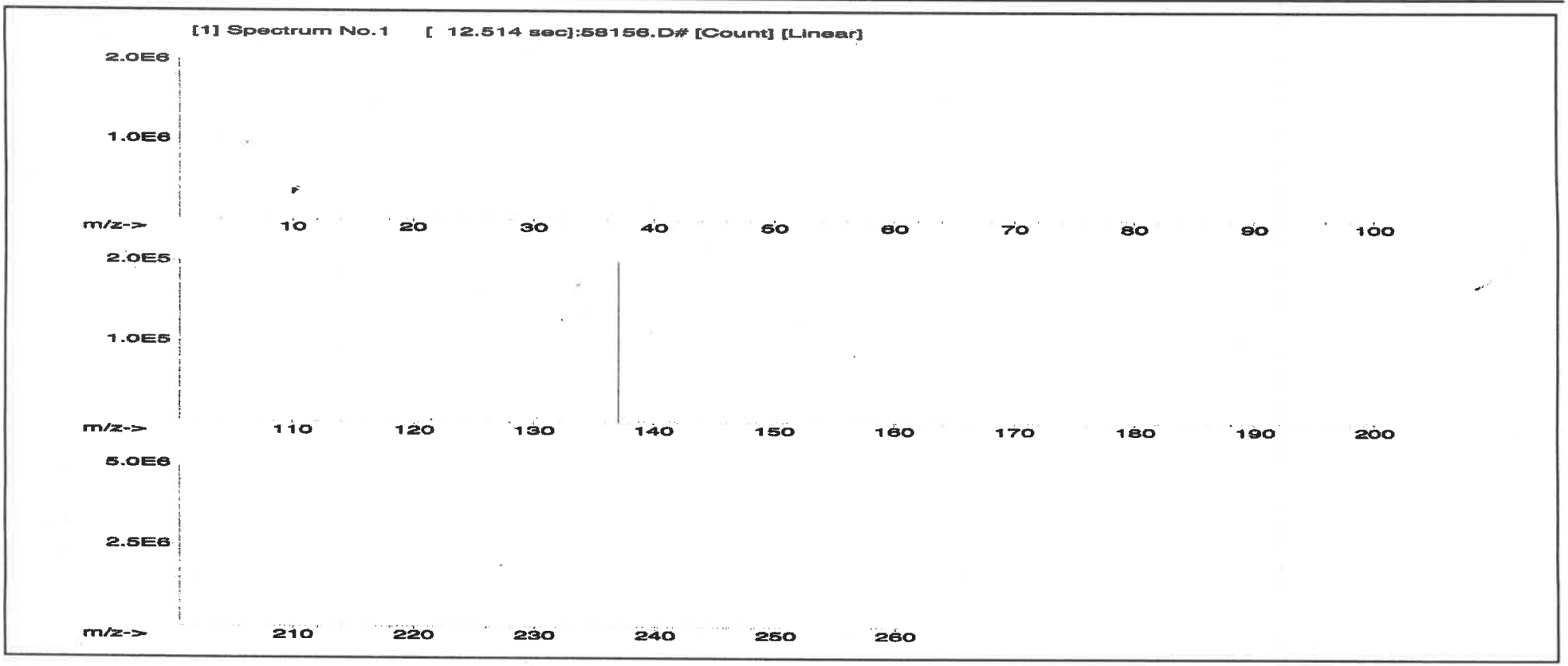
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

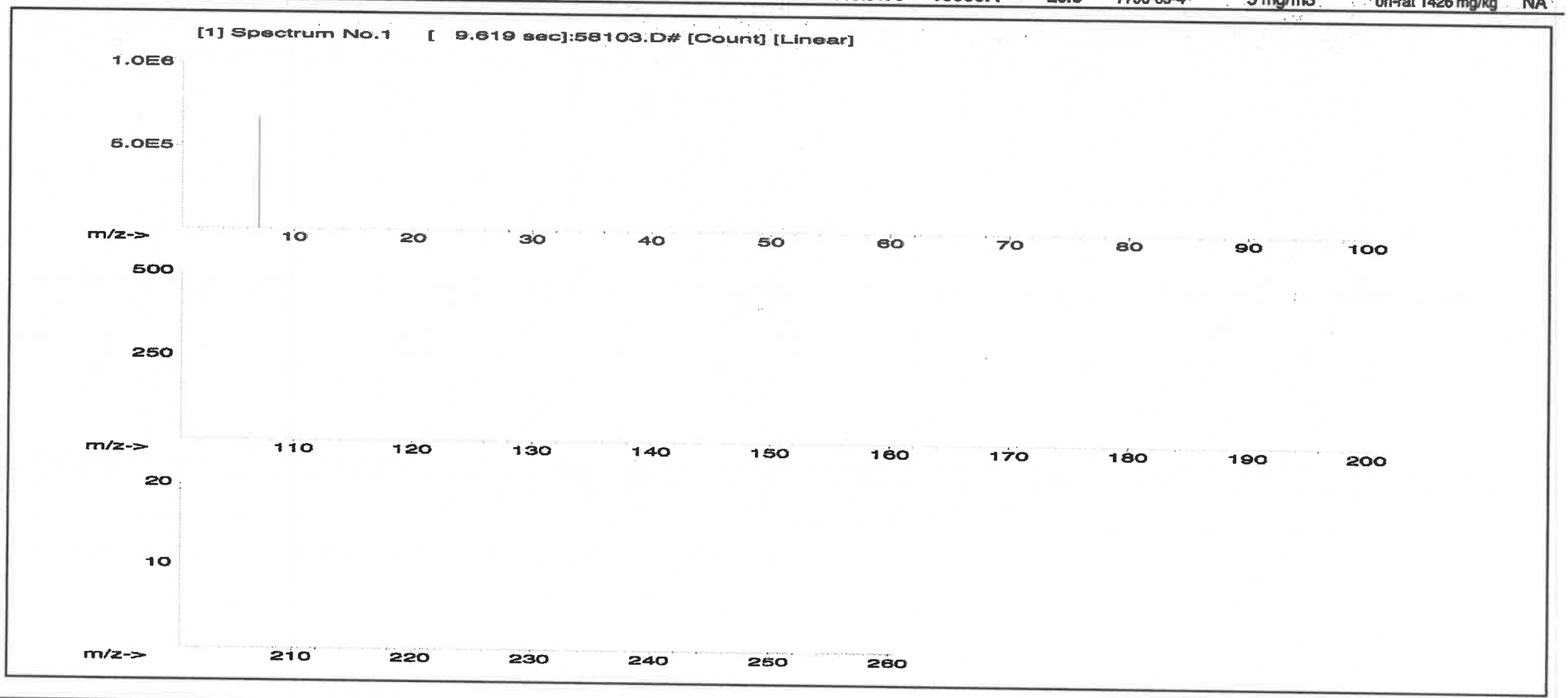
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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.
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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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M5467 R: 03/01/23 (LA)

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

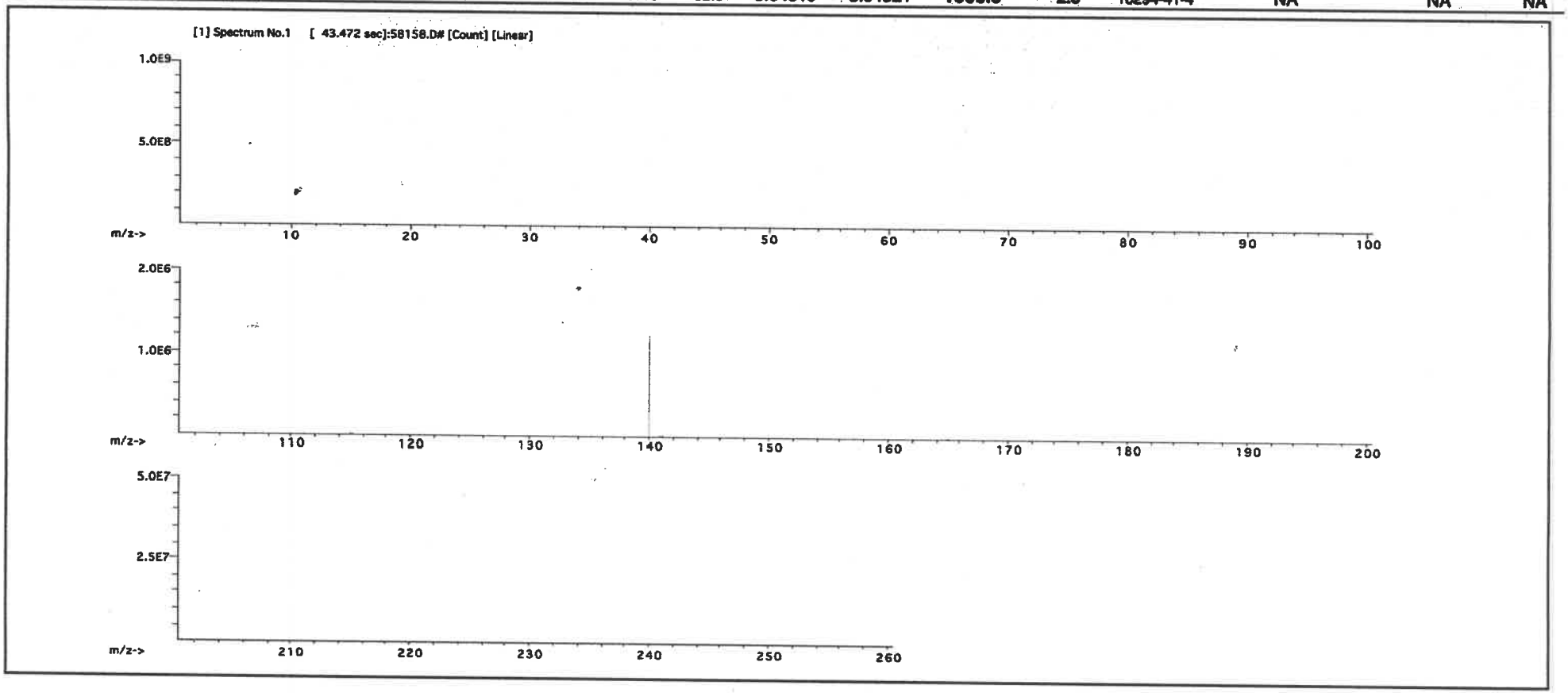
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

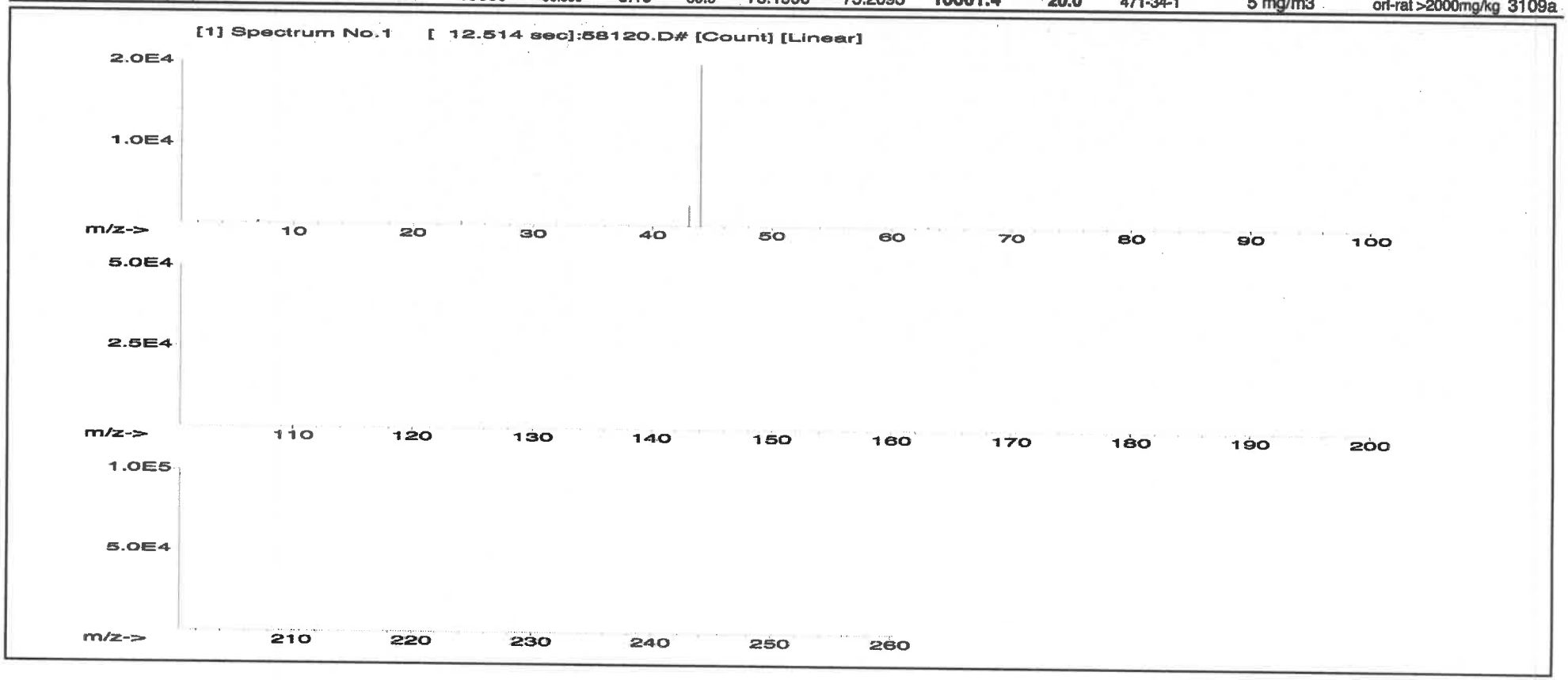
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

MS513 R:03/17/23 BE

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

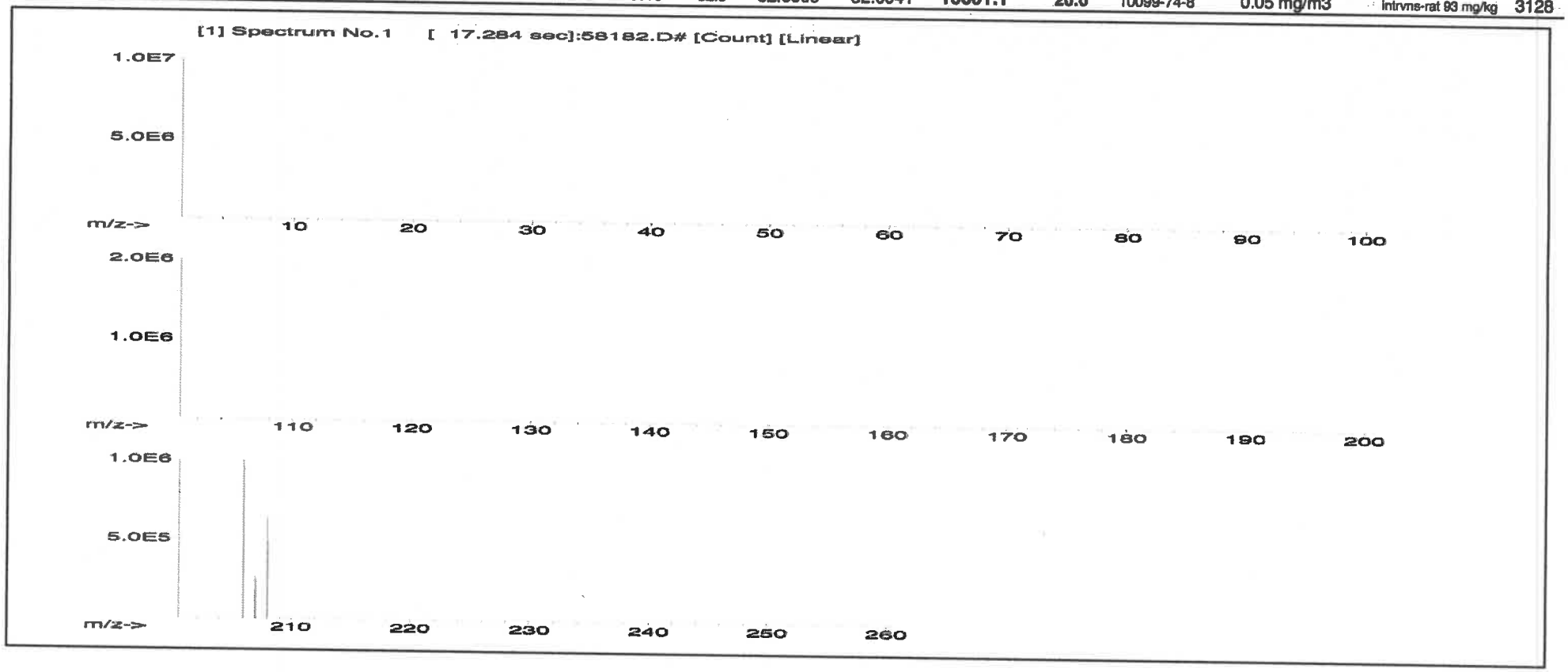
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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).

Absolute Standards, Inc.
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Certified Reference Material CRM

R:03/17/23 (BH) M5518

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 031523
Description: Magnesium (Mg)

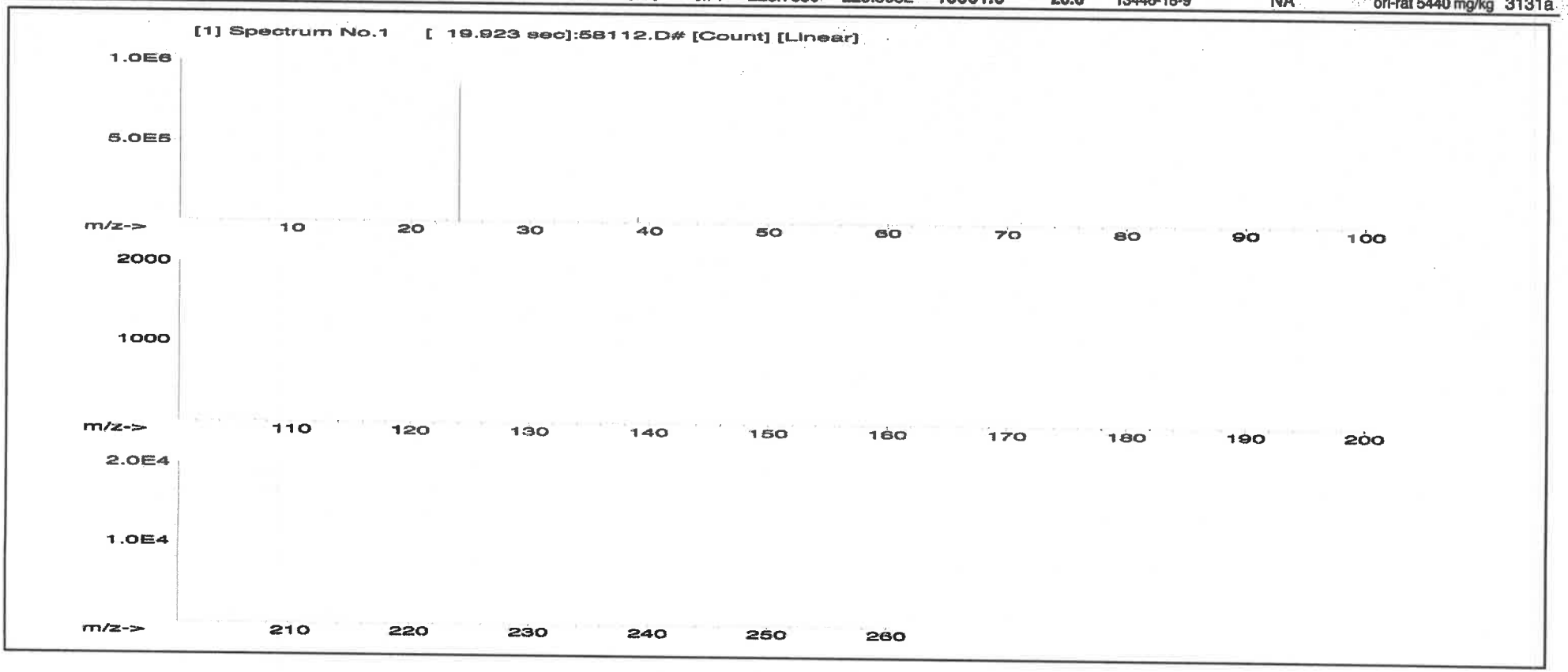
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	228.7850	228.8082	**10001.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

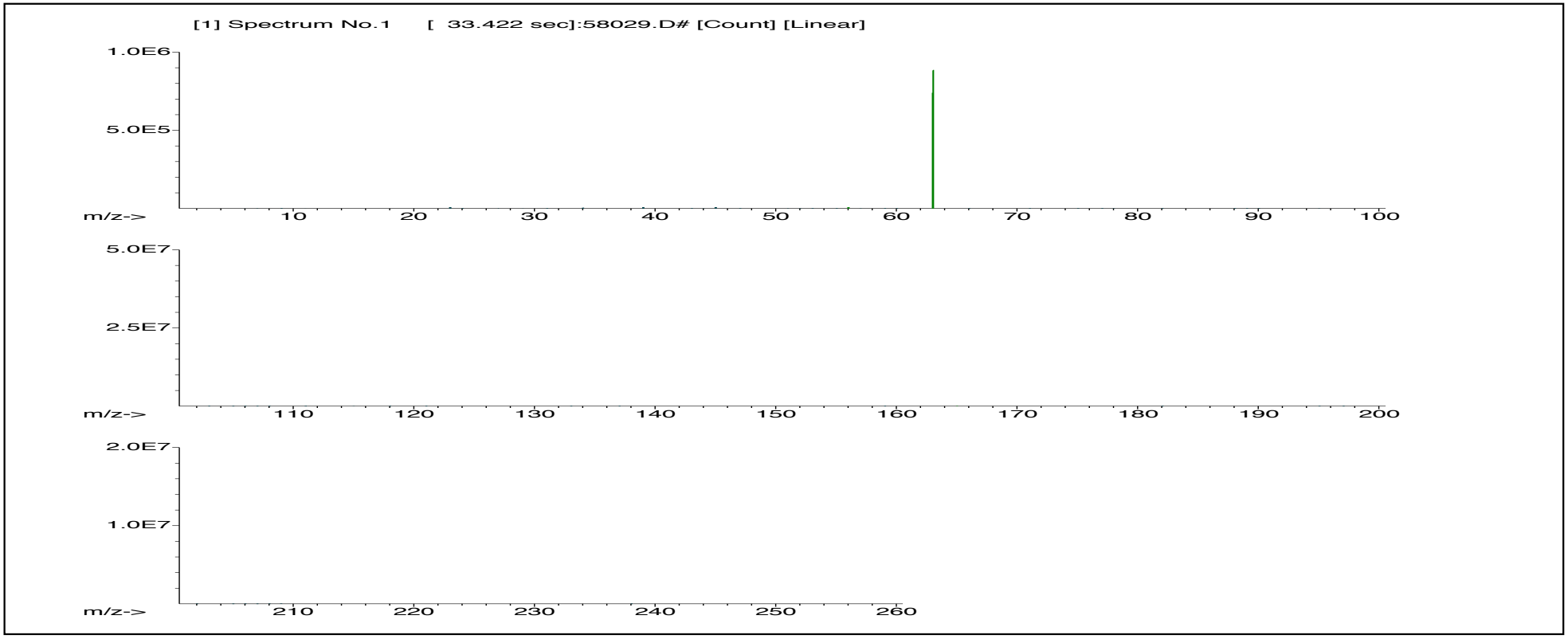
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 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:	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



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:

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QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

Nitric Acid
CMOS

M5625 M5626 M5627
M5628 M5629 M5630

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 >>>

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

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

Nitric Acid
CMOS

M5635 M5636 M5637
M5638 M5639 M5640

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 >>>

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5651 M5652 M5653
M5654 M5655 M5656

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

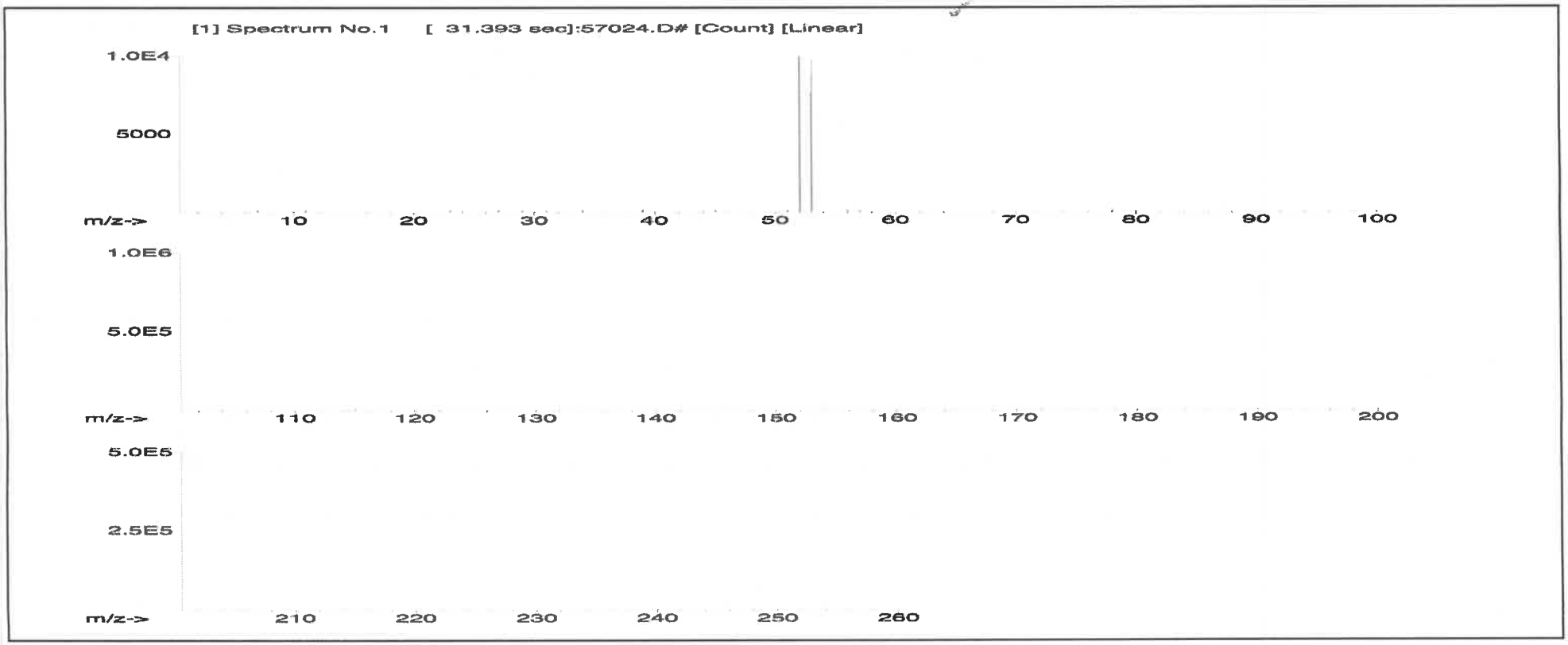
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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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:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 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	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

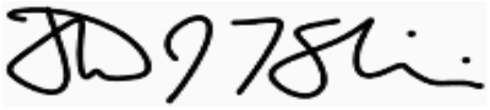
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	T2-MEB715594
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**80.1 ± 0.6 µg/mL**	**Molybdenum, Mo**	**40.04 ± 0.24 µg/mL**
Silica, SiO2	**200.2 ± 1.1 µg/mL**	**Tin, Sn**	**70.1 ± 0.4 µg/mL**
Titanium, Ti	**20.02 ± 0.14 µg/mL**		

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Sb	ICP Assay	3102a	140911
SiO2	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

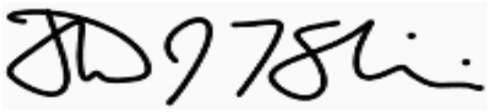
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



CHEMTECH

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.
QUOTE NO. 05252
COC Number 2042541

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RMJ
ADDRESS: PO Box 719
CITY Totowa STATE: NJ ZIP: 07511
ATTENTION: Jonathan Pereira
PHONE: 5512719485 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 245 Greenwood
PROJECT NO.: LOCATION: Midland Park
PROJECT MANAGER: Jonathan Pereira
e-mail:
PHONE: 9736330020 FAX: 9736330019

CLIENT BILLING INFORMATION

BILL TO: RMJ PO#:
ADDRESS: PO Box 719
CITY Totowa STATE: NJ ZIP: 07511
ATTENTION: Rita Della Fave 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 NJ EDD

ANALYSIS

1 EPH
2 TAL/TCL + 30
3 Paint Filter
4 TCLP Metals
5 VOC
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
												A					← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	Waste	Soil	X		11/3/23	1120	2	X	X	X	H						H = Hold
2.	Waste - VOC	↓		X	11/3/23	1126	3					X					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Jpereira	11/3/23 1402	1. IT
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.8 °C
Comments: Hold TCLP Metal Analysis

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
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	T104704488-23-16

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O5252 RMJE02
Client Name : RMJ Environomics, Inc.
Client Contact : Jonathan Pereira
Invoice Name : RMJ Environomics, Inc.
Invoice Contact : Jonathan Pereira

Order Date : 11/3/2023 2:14:16 PM
Project Name : 245 Greenwood Ave
Receive DateTime : 11/3/2023 2:02:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : NJ Reduced
EDD Type : HAZ/EXCEL
Hard Copy Date :
Date Signoff : 11/6/2023 9:49:22 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O5252-03	WASTE-VOC	Solid	11/03/2023	11:26					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By : DW
Date / Time : 11/6/23 1030

Received By : Sam
Date / Time : 11/6/23 10:30 aej#6 R22
Storage Area : VOA Refridgerator Room