

Cover Page

Order ID : P5411

Project ID : Monthly 2024

Client : Aramark Uniforms

Lab Sample Number

P5411-01
P5411-02

Client Sample Number

GRAB
COMP

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

Signature : _____

Date: 1/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5411

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 Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: KETAN PATEL

Date: 01/10/2025

LAB CHRONICLE

OrderID:	P5411	OrderDate:	12/31/2024 11:34:00 AM
Client:	Aramark Uniforms	Project:	Monthly 2024
Contact:	Jose Liceaga	Location:	L11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5411-02	COMP	Water			12/31/24			12/31/24
			Mercury	7470A		01/03/25	01/06/25	
			Metals ICP-Group1	6010D		01/09/25	01/13/25	



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

Hit Summary Sheet
SW-846

SDG No.: P5411

Order ID: P5411

Client: Aramark Uniforms

Project ID: Monthly 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP								
P5411-02	COMP	Water	Cadmium	0.0011	J	0.000094	0.0030	mg/L
P5411-02	COMP	Water	Copper	0.13		0.0071	0.010	mg/L
P5411-02	COMP	Water	Lead	0.026		0.0035	0.0060	mg/L
P5411-02	COMP	Water	Mercury	0.00015	J	0.000081	0.00020	mg/L
P5411-02	COMP	Water	Nickel	0.021		0.00085	0.020	mg/L
P5411-02	COMP	Water	Zinc	0.47		0.0018	0.020	mg/L



SAMPLE DATA

Report of Analysis

Client:	Aramark Uniforms	Date Collected:	12/31/24
Project:	Monthly 2024	Date Received:	12/31/24
Client Sample ID:	COMP	SDG No.:	P5411
Lab Sample ID:	P5411-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-43-9	Cadmium	0.0011	J	1	0.000094	0.0030	mg/L	01/09/25 10:25	01/13/25 18:50	SW6010	SW3010
7440-50-8	Copper	0.13		1	0.0071	0.010	mg/L	01/09/25 10:25	01/13/25 18:50	SW6010	SW3010
7439-92-1	Lead	0.026		1	0.0035	0.0060	mg/L	01/09/25 10:25	01/13/25 18:50	SW6010	SW3010
7439-97-6	Mercury	0.00015	J	1	0.000081	0.00020	mg/L	01/03/25 12:13	01/06/25 13:19	SW7470A	
7440-02-0	Nickel	0.021		1	0.00085	0.020	mg/L	01/09/25 10:25	01/13/25 18:50	SW6010	SW3010
7440-66-6	Zinc	0.47		1	0.0018	0.020	mg/L	01/09/25 10:25	01/13/25 18:50	SW6010	SW3010

Color Before:	Light brown	Clarity Before:	Cloudy	Texture:
Color After:	Light brown	Clarity After:	Cloudy	Artifacts:
Comments:	Metals Group1			

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

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
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
ICV43	Mercury	4.00	4.0	100	90 - 110	CV	01/06/2025	12:17	LB134165

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
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
CCV03	Mercury	5.48	5.0	110	90 - 110	CV	01/06/2025	12:30	LB134165
CCV04	Mercury	5.48	5.0	110	90 - 110	CV	01/06/2025	13:03	LB134165
CCV05	Mercury	4.59	5.0	92	90 - 110	CV	01/06/2025	13:36	LB134165
CCV06	Mercury	4.59	5.0	92	90 - 110	CV	01/06/2025	13:42	LB134165

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Cadmium	490	510	96	90 - 110	P	01/13/2025	16:19	LB134257
	Copper	511	510	100	90 - 110	P	01/13/2025	16:19	LB134257
	Lead	978	1000	98	90 - 110	P	01/13/2025	16:19	LB134257
	Nickel	498	530	94	90 - 110	P	01/13/2025	16:19	LB134257
	Zinc	1050	1000	105	90 - 110	P	01/13/2025	16:19	LB134257

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Cadmium	5.72	6.0	95	80 - 120	P	01/13/2025	16:29	LB134257
	Copper	21.5	20.0	108	80 - 120	P	01/13/2025	16:29	LB134257
	Lead	11.3	12.0	94	80 - 120	P	01/13/2025	16:29	LB134257
	Nickel	39.0	40.0	98	80 - 120	P	01/13/2025	16:29	LB134257
	Zinc	40.5	40.0	101	80 - 120	P	01/13/2025	16:29	LB134257

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Cadmium	2370	2500	95	90 - 110	P	01/13/2025	16:51	LB134257
	Copper	1180	1250	95	90 - 110	P	01/13/2025	16:51	LB134257
	Lead	4730	5000	95	90 - 110	P	01/13/2025	16:51	LB134257
	Nickel	2370	2500	95	90 - 110	P	01/13/2025	16:51	LB134257
	Zinc	2380	2500	95	90 - 110	P	01/13/2025	16:51	LB134257
CCV02	Cadmium	2390	2500	96	90 - 110	P	01/13/2025	17:35	LB134257
	Copper	1200	1250	96	90 - 110	P	01/13/2025	17:35	LB134257
	Lead	4770	5000	95	90 - 110	P	01/13/2025	17:35	LB134257
	Nickel	2390	2500	95	90 - 110	P	01/13/2025	17:35	LB134257
	Zinc	2380	2500	95	90 - 110	P	01/13/2025	17:35	LB134257
CCV03	Cadmium	2390	2500	96	90 - 110	P	01/13/2025	18:33	LB134257
	Copper	1200	1250	96	90 - 110	P	01/13/2025	18:33	LB134257
	Lead	4760	5000	95	90 - 110	P	01/13/2025	18:33	LB134257
	Nickel	2390	2500	95	90 - 110	P	01/13/2025	18:33	LB134257
	Zinc	2490	2500	100	90 - 110	P	01/13/2025	18:33	LB134257
CCV04	Cadmium	2420	2500	97	90 - 110	P	01/13/2025	19:20	LB134257
	Copper	1200	1250	96	90 - 110	P	01/13/2025	19:20	LB134257
	Lead	4830	5000	97	90 - 110	P	01/13/2025	19:20	LB134257
	Nickel	2420	2500	97	90 - 110	P	01/13/2025	19:20	LB134257
	Zinc	2440	2500	98	90 - 110	P	01/13/2025	19:20	LB134257
CCV05	Cadmium	2410	2500	96	90 - 110	P	01/13/2025	19:37	LB134257
	Copper	1200	1250	96	90 - 110	P	01/13/2025	19:37	LB134257
	Lead	4810	5000	96	90 - 110	P	01/13/2025	19:37	LB134257
	Nickel	2400	2500	96	90 - 110	P	01/13/2025	19:37	LB134257
	Zinc	2410	2500	96	90 - 110	P	01/13/2025	19:37	LB134257
CCV06	Cadmium	2440	2500	98	90 - 110	P	01/13/2025	19:50	LB134257
	Copper	1210	1250	97	90 - 110	P	01/13/2025	19:50	LB134257
	Lead	4850	5000	97	90 - 110	P	01/13/2025	19:50	LB134257
	Nickel	2430	2500	97	90 - 110	P	01/13/2025	19:50	LB134257
	Zinc	2480	2500	99	90 - 110	P	01/13/2025	19:50	LB134257



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
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	0.21	0.2	106	40 - 160	CV	01/06/2025	12:37	LB134165
CRI01	Cadmium	5.76	6.0	96	40 - 160	P	01/13/2025	16:38	LB134257
	Copper	21.7	20.0	108	40 - 160	P	01/13/2025	16:38	LB134257
	Lead	10.8	12.0	90	40 - 160	P	01/13/2025	16:38	LB134257
	Nickel	38.7	40.0	97	40 - 160	P	01/13/2025	16:38	LB134257
	Zinc	42.0	40.0	105	40 - 160	P	01/13/2025	16:38	LB134257



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Aramark Uniforms				SDG No.:	P5411				
Contract:	ARAM01	Lab Code:	CHEM	Case No.:	P5411	SAS No.:	P5411			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB43	Mercury	0.20	+/-0.20	U	0.20	CV	01/06/2025	12:20	LB134165	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Mercury	0.20	+/-0.20	U	0.20	CV	01/06/2025	12:32	LB134165
CCB04	Mercury	0.20	+/-0.20	U	0.20	CV	01/06/2025	13:05	LB134165
CCB05	Mercury	0.20	+/-0.20	U	0.20	CV	01/06/2025	13:38	LB134165
CCB06	Mercury	0.20	+/-0.20	U	0.20	CV	01/06/2025	13:45	LB134165

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Aramark Uniforms</u>		SDG No.: <u>P5411</u>							
Contract: <u>ARAM01</u>		Lab Code: <u>CHEM</u>		Case No.: <u>P5411</u>		SAS No.: <u>P5411</u>			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	16:33	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	16:33	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	16:33	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	16:33	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	16:33	LB134257

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Aramark Uniforms</u>		SDG No.: <u>P5411</u>							
Contract: <u>ARAM01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5411</u>	SAS No.: <u>P5411</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	17:04	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	17:04	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	17:04	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	17:04	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	17:04	LB134257
CCB02	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	17:39	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	17:39	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	17:39	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	17:39	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	17:39	LB134257
CCB03	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	18:37	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	18:37	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	18:37	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	18:37	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	18:37	LB134257
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	19:24	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	19:24	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	19:24	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	19:24	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	19:24	LB134257
CCB05	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	19:41	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	19:41	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	19:41	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	19:41	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	19:41	LB134257
CCB06	Cadmium	6.00	+/-6.00	U	6.00	P	01/13/2025	19:54	LB134257
	Copper	20.0	+/-20.0	U	20.0	P	01/13/2025	19:54	LB134257
	Lead	12.0	+/-12.0	U	12.0	P	01/13/2025	19:54	LB134257
	Nickel	40.0	+/-40.0	U	40.0	P	01/13/2025	19:54	LB134257
	Zinc	40.0	+/-40.0	U	40.0	P	01/13/2025	19:54	LB134257

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	------	---	------------------	------------------	---------------

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Aramark Uniforms

SDG No.: P5411

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165951BL		WATER		Batch Number:	PB165951		Prep Date:	01/03/2025	
	Mercury	0.20	<0.20	U	0.20	CV	01/06/2025	13:00	LB134165

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Aramark Uniforms

SDG No.: P5411

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165996BL	WATER			Batch Number:	PB165996		Prep Date:	01/09/2025	
	Cadmium	3.00	<3.00	U	3.00	P	01/13/2025	17:44	LB134257
	Copper	10.0	<10.0	U	10.0	P	01/13/2025	17:44	LB134257
	Lead	6.00	<6.00	U	6.00	P	01/13/2025	17:44	LB134257
	Nickel	20.0	<20.0	U	20.0	P	01/13/2025	17:44	LB134257
	Zinc	20.0	<20.0	U	20.0	P	01/13/2025	17:44	LB134257

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Cadmium	0.85	1.0	85	-5	7	01/13/2025	16:42	LB134257
	Copper	5.77	2.0	288	-18	22	01/13/2025	16:42	LB134257
	Lead	8.17			-12	12	01/13/2025	16:42	LB134257
	Nickel	2.06	2.0	103	-38	42	01/13/2025	16:42	LB134257
	Zinc	5.63			-40	40	01/13/2025	16:42	LB134257
ICSAB01	Cadmium	948	972	98	826	1120	01/13/2025	16:46	LB134257
	Copper	459	511	90	434	588	01/13/2025	16:46	LB134257
	Lead	52.6	49.0	107	37	61	01/13/2025	16:46	LB134257
	Nickel	945	954	99	810	1100	01/13/2025	16:46	LB134257
	Zinc	1030	952	108	809	1095	01/13/2025	16:46	LB134257



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P5411
contract: ARAM01 **lab code:** CHEM **case no.:** P5411 **sas no.:** P5411
matrix: Water **sample id:** P5386-05 **client id:** MOO-24-00397MS
Percent Solids for Sample: NA **Spiked ID:** P5386-05MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.76		0.18	J	4.0	90		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Aramark Uniforms</u>	level:	<u>low</u>	sdg no.:	<u>P5411</u>	
contract:	<u>ARAM01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5411</u>	sas no.: <u>P5411</u>
matrix:	<u>Water</u>	sample id:	<u>P5386-05</u>	client id:	<u>MOO-24-00397MSD</u>	
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P5386-05MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>	

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.10		0.18	J	4.0	98		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P5411
contract: ARAM01 **lab code:** CHEM **case no.:** P5411 **sas no.:** P5411
matrix: Water **sample id:** Q1033-01 **client id:** 28612MS
Percent Solids for Sample: NA **Spiked ID:** Q1033-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	93.2		3.00	U	100	93		P
Copper	ug/L	75 - 125	142		10.0	U	150	95		P
Lead	ug/L	75 - 125	449		6.00	U	500	90		P
Nickel	ug/L	75 - 125	236		2.14	J	250	94		P
Zinc	ug/L	75 - 125	124		19.1	J	100	105		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Aramark Uniforms **level:** low **sdg no.:** P5411
contract: ARAM01 **lab code:** CHEM **case no.:** P5411 **sas no.:** P5411
matrix: Water **sample id:** Q1033-01 **client id:** 28612MSD
Percent Solids for Sample: NA **Spiked ID:** Q1033-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	92.7		3.00	U	100	93		P
Copper	ug/L	75 - 125	142		10.0	U	150	95		P
Lead	ug/L	75 - 125	446		6.00	U	500	89		P
Nickel	ug/L	75 - 125	235		2.14	J	250	93		P
Zinc	ug/L	75 - 125	123		19.1	J	100	104		P

Metals
- 5b -

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Matrix: **Level:** LOW **Client ID:**
Sample ID: **Spiked ID:**

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

.....

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Matrix: Water **Sample ID:** P5386-05 **Client ID:** MOO-24-00397DUP
Percent Solids for Sample: NA **Duplicate ID** P5386-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.18	J	0.22		21		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Matrix: Water **Sample ID:** P5386-05MS **Client ID:** MOO-24-00397MSD
Percent Solids for Sample: NA **Duplicate ID** P5386-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.76		4.10		9		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Matrix: Water **Sample ID:** Q1033-01 **Client ID:** 28612DUP
Percent Solids for Sample: NA **Duplicate ID** Q1033-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	3.00	U	3.00	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Lead	ug/L	20	6.00	U	6.00	U			P
Nickel	ug/L	20	2.14	J	2.06	J	4		P
Zinc	ug/L	20	19.1	J	19.2	J	1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Aramark Uniforms **Level:** LOW **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411
Matrix: Water **Sample ID:** Q1033-01MS **Client ID:** 28612MSD
Percent Solids for Sample: NA **Duplicate ID** Q1033-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	93.2		92.7		1		P
Copper	ug/L	20	142		142		0		P
Lead	ug/L	20	449		446		1		P
Nickel	ug/L	20	236		235		0		P
Zinc	ug/L	20	124		123		1		P



- 7 -

Client:	<u>Aramark Uniforms</u>	SDG No.:	<u>P5411</u>				
Contract:	<u>ARAM01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5411</u>	SAS No.:	<u>P5411</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165951BS Mercury	ug/L	4.0	4.08		102	80 - 120	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Case No.:** P5411 **SAS No.:** P5411

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165996BS							
Cadmium	ug/L	100	93.4		93	80 - 120	P
Copper	ug/L	150	147		98	80 - 120	P
Lead	ug/L	500	469		94	80 - 120	P
Nickel	ug/L	250	237		95	80 - 120	P
Zinc	ug/L	100	101		101	80 - 120	P

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

MOO-24-00397L

Lab Name: Chemtech Consulting Group

Contract: ARAM01

Lab Code: CHEM

Lb No.: lb134165

Lab Sample ID : P5386-05L

SDG No.: P5411

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.18 J	1.00 U	100.0		CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

28612L

Lab Name: Chemtech Consulting Group

Contract: ARAM01

Lab Code: CHEM **Lb No.:** lb134257 **Lab Sample ID :** Q1033-01L **SDG No.:** P5411

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)			Serial Dilution Result (S)			% Differ- ence	Q	M
	C			C					
Cadmium	3.00	U		15.0	U				P
Copper	10.0	U		50.0	U				P
Lead	6.00	U		30.0	U				P
Nickel	2.14	J		100	U		100.0		P
Zinc	19.1	J		20.1	J		5		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 12 -

LINEAR RANGES

Client: Aramark Uniforms

SDG No.: P5411

Contract: ARAM01

Lab Code: CHEM

Case No.: P5411

SAS No.: P5411

Instrument ID: P4

Date: 01/04/2018

<u>Analyte</u>	<u>Integration</u>	<u>LDR</u>
	<u>Time</u> <u>(sec)</u>	
Cadmium	10	9000
Copper	10	333000
Lead	10	225000
Nickel	10	90000
Zinc	10	45000



METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Method:**
Case No.: P5411 **SAS No.:** P5411

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165951							
P5386-05DUP	MOO-24-00397DUP	DUP	WATER	01/03/2025	30.0	30.0	
P5386-05MS	MOO-24-00397MS	MS	WATER	01/03/2025	30.0	30.0	
P5386-05MSD	MOO-24-00397MSD	MSD	WATER	01/03/2025	30.0	30.0	
P5411-02	COMP	SAM	WATER	01/03/2025	30.0	30.0	
PB165951BL	PB165951BL	MB	WATER	01/03/2025	30.0	30.0	
PB165951BS	PB165951BS	LCS	WATER	01/03/2025	30.0	30.0	

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Aramark Uniforms **SDG No.:** P5411
Contract: ARAM01 **Lab Code:** CHEM **Method:**
Case No.: P5411 **SAS No.:** P5411

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165996							
P5411-02	COMP	SAM	WATER	01/09/2025	50.0	25.0	
PB165996BL	PB165996BL	MB	WATER	01/09/2025	50.0	25.0	
PB165996BS	PB165996BS	LCS	WATER	01/09/2025	50.0	25.0	
Q1033-01DUP	28612DUP	DUP	WATER	01/09/2025	50.0	25.0	
Q1033-01MS	28612MS	MS	WATER	01/09/2025	50.0	25.0	
Q1033-01MSD	28612MSD	MSD	WATER	01/09/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Aramark Uniforms

Contract: ARAM01

Lab code: CHEM **Case no.:** P5411 **Sas no.:** P5411

Sdg no.: P5411

Instrument id number: **Method:**

Run number: LB134165

Start date: 01/06/2025 **End date:** 01/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1145	HG
S0.2	S0.2	1	1147	HG
S2.5	S2.5	1	1149	HG
S5	S5	1	1152	HG
S7.5	S7.5	1	1157	HG
S10	S10	1	1209	HG
ICV43	ICV43	1	1217	HG
ICB43	ICB43	1	1220	HG
CCV03	CCV03	1	1230	HG
CCB03	CCB03	1	1232	HG
CRA	CRA	1	1237	HG
PB165951BL	PB165951BL	1	1300	HG
CCV04	CCV04	1	1303	HG
CCB04	CCB04	1	1305	HG
PB165951BS	PB165951BS	1	1307	HG
P5386-05DUP	MOO-24-00397DUP	1	1312	HG
P5386-05MS	MOO-24-00397MS	1	1314	HG
P5386-05MSD	MOO-24-00397MSD	1	1316	HG
P5411-02	COMP	1	1319	HG
CCV05	CCV05	1	1336	HG
CCB05	CCB05	1	1338	HG
CCV06	CCV06	1	1342	HG
CCB06	CCB06	1	1345	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: Aramark Uniforms

Contract: ARAM01

Lab code: CHEM **Case no.:** P5411 **Sas no.:** P5411

Sdg no.: P5411

Instrument id number: **Method:**

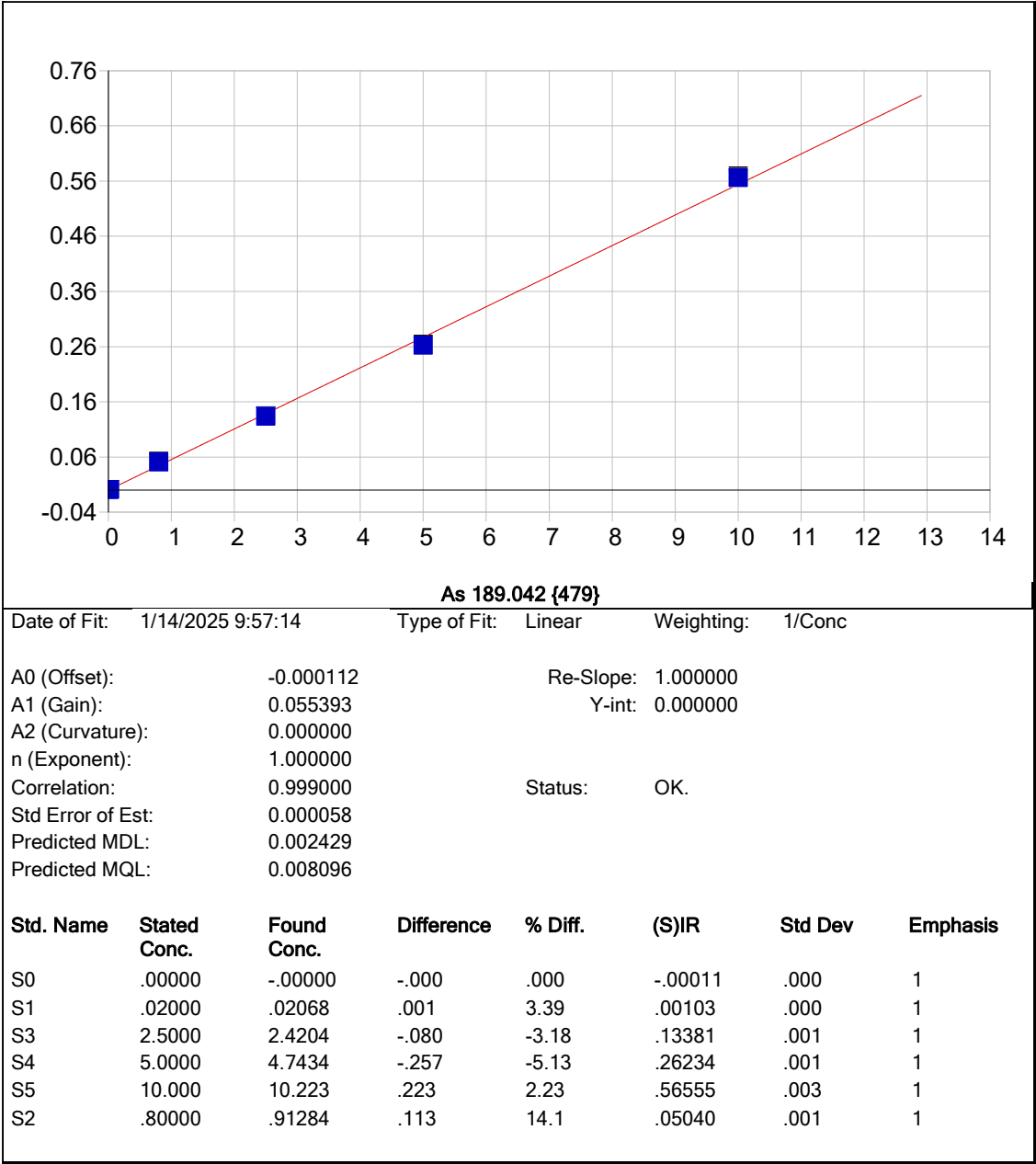
Run number: LB134257

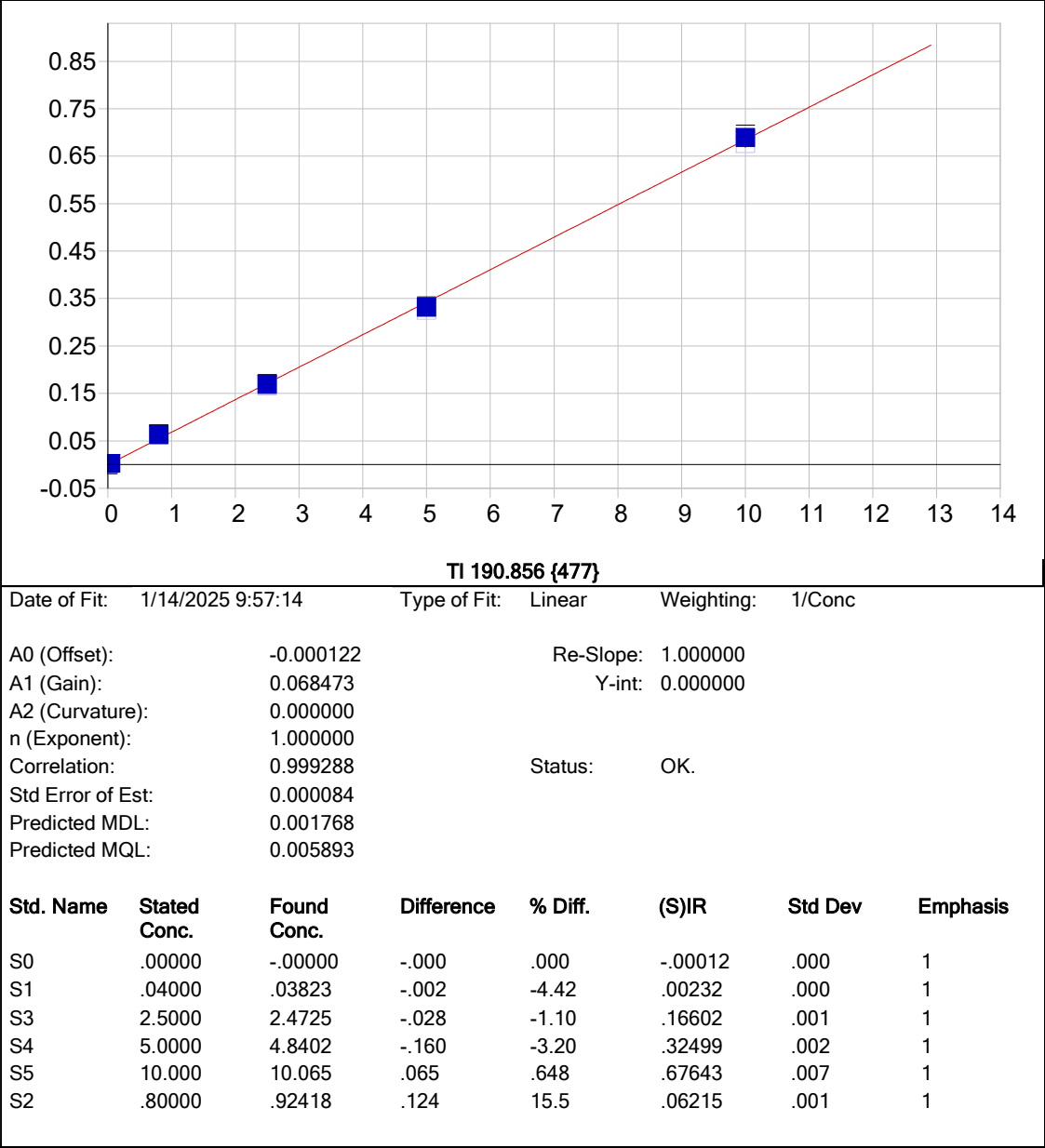
Start date: 01/13/2025 **End date:** 01/13/2025

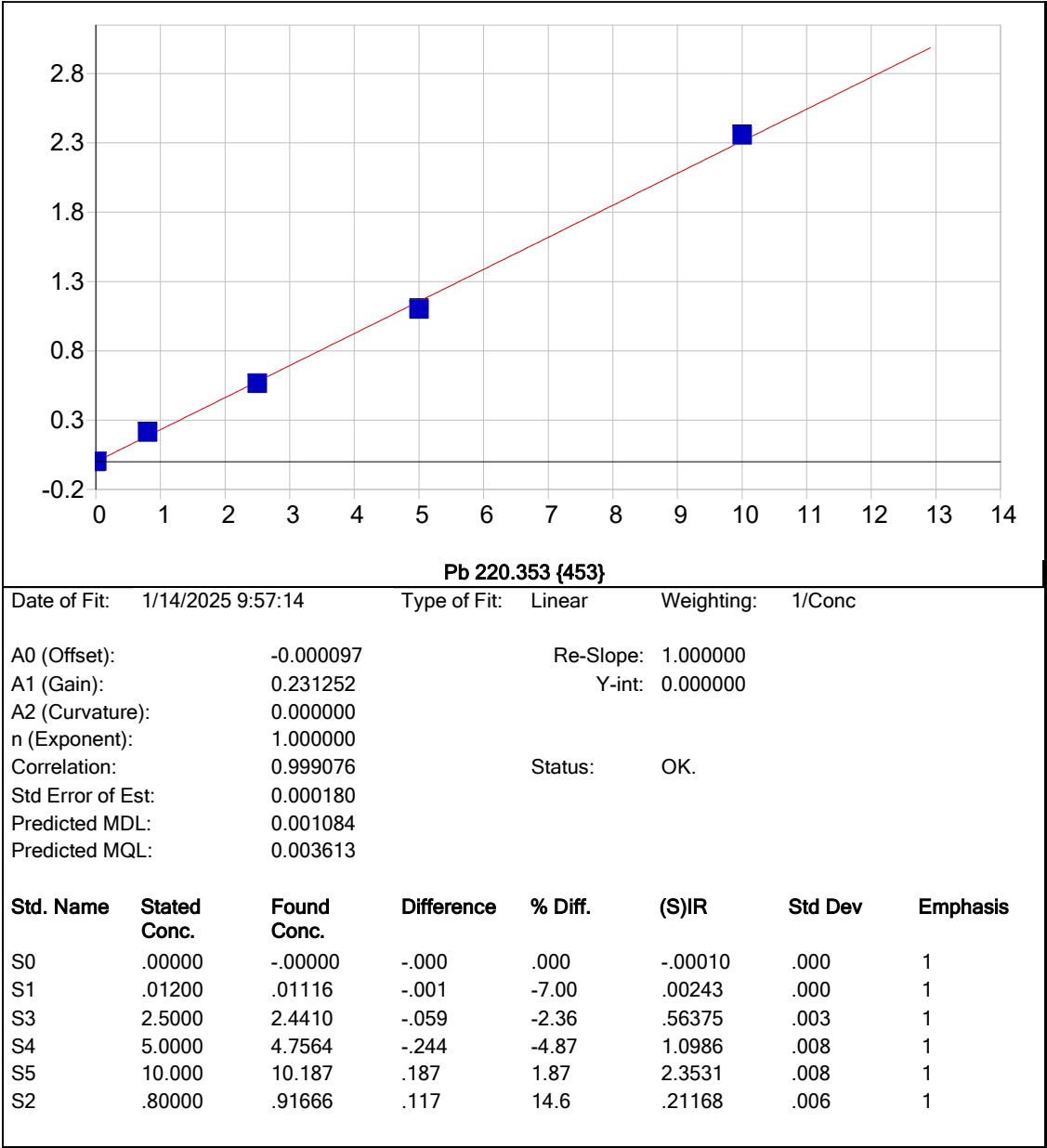
Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1553	Cd,Cu,Ni,Pb,Zn
S1	S1	1	1558	Cd,Cu,Ni,Pb,Zn
S2	S2	1	1602	Cd,Cu,Ni,Pb,Zn
S3	S3	1	1606	Cd,Cu,Ni,Pb,Zn
S4	S4	1	1611	Cd,Cu,Ni,Pb,Zn
S5	S5	1	1615	Cd,Cu,Ni,Pb,Zn
ICV01	ICV01	1	1619	Cd,Cu,Ni,Pb,Zn
LLICV01	LLICV01	1	1629	Cd,Cu,Ni,Pb,Zn
ICB01	ICB01	1	1633	Cd,Cu,Ni,Pb,Zn
CRI01	CRI01	1	1638	Cd,Cu,Ni,Pb,Zn
ICSA01	ICSA01	1	1642	Cd,Cu,Ni,Pb,Zn
ICSAB01	ICSAB01	1	1646	Cd,Cu,Ni,Pb,Zn
CCV01	CCV01	1	1651	Cd,Cu,Ni,Pb,Zn
CCB01	CCB01	1	1704	Cd,Cu,Ni,Pb,Zn
CCV02	CCV02	1	1735	Cd,Cu,Ni,Pb,Zn
CCB02	CCB02	1	1739	Cd,Cu,Ni,Pb,Zn
PB165996BL	PB165996BL	1	1744	Cd,Cu,Ni,Pb,Zn
PB165996BS	PB165996BS	1	1748	Cd,Cu,Ni,Pb,Zn
CCV03	CCV03	1	1833	Cd,Cu,Ni,Pb,Zn
CCB03	CCB03	1	1837	Cd,Cu,Ni,Pb,Zn
P5411-02	COMP	1	1850	Cd,Cu,Ni,Pb,Zn
Q1033-01DUP	28612DUP	1	1858	Cd,Cu,Ni,Pb,Zn
Q1033-01MS	28612MS	1	1907	Cd,Cu,Ni,Pb,Zn
Q1033-01MSD	28612MSD	1	1911	Cd,Cu,Ni,Pb,Zn
CCV04	CCV04	1	1920	Cd,Cu,Ni,Pb,Zn
CCB04	CCB04	1	1924	Cd,Cu,Ni,Pb,Zn
CCV05	CCV05	1	1937	Cd,Cu,Ni,Pb,Zn
CCB05	CCB05	1	1941	Cd,Cu,Ni,Pb,Zn
CCV06	CCV06	1	1950	Cd,Cu,Ni,Pb,Zn
CCB06	CCB06	1	1954	Cd,Cu,Ni,Pb,Zn

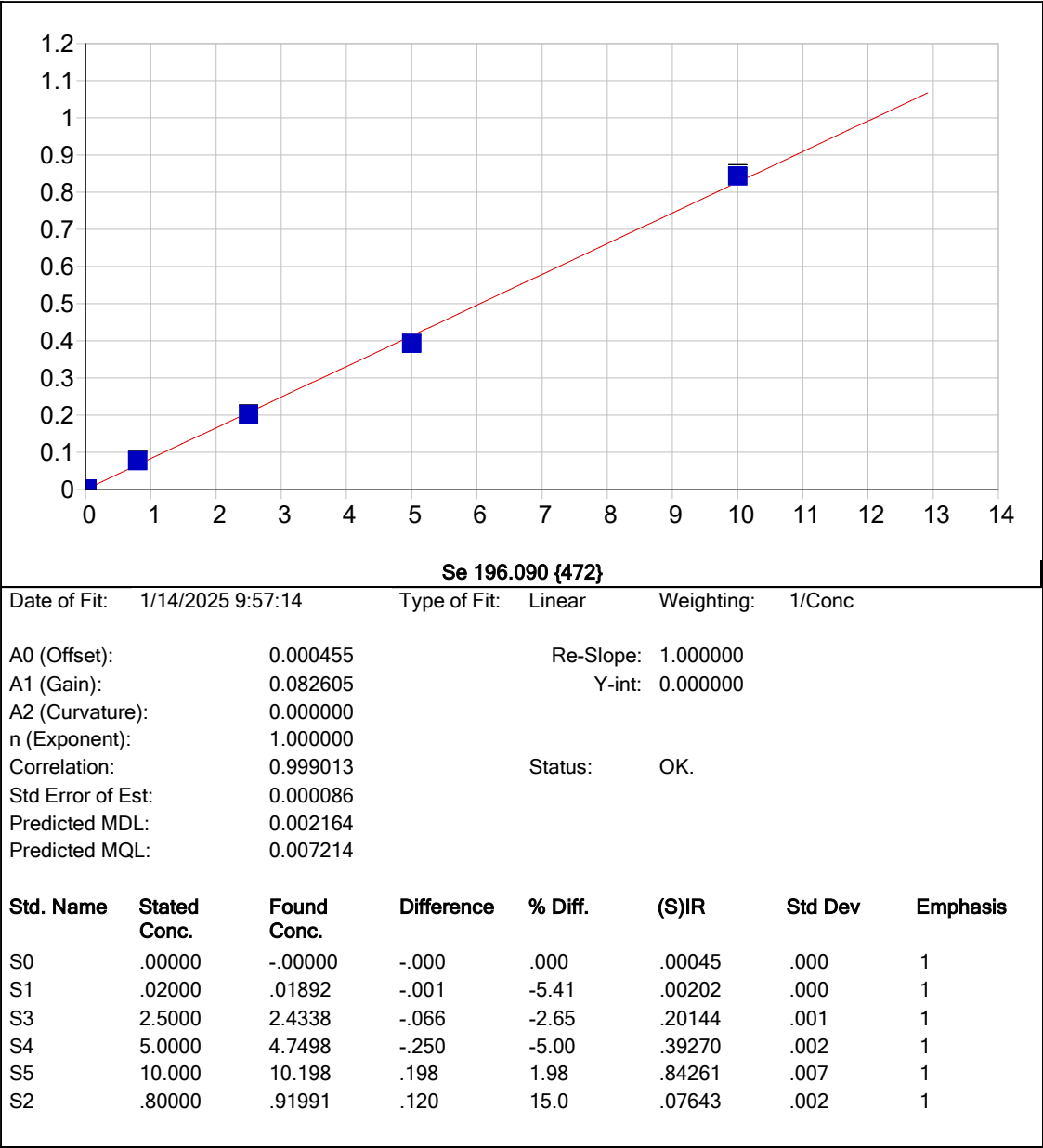


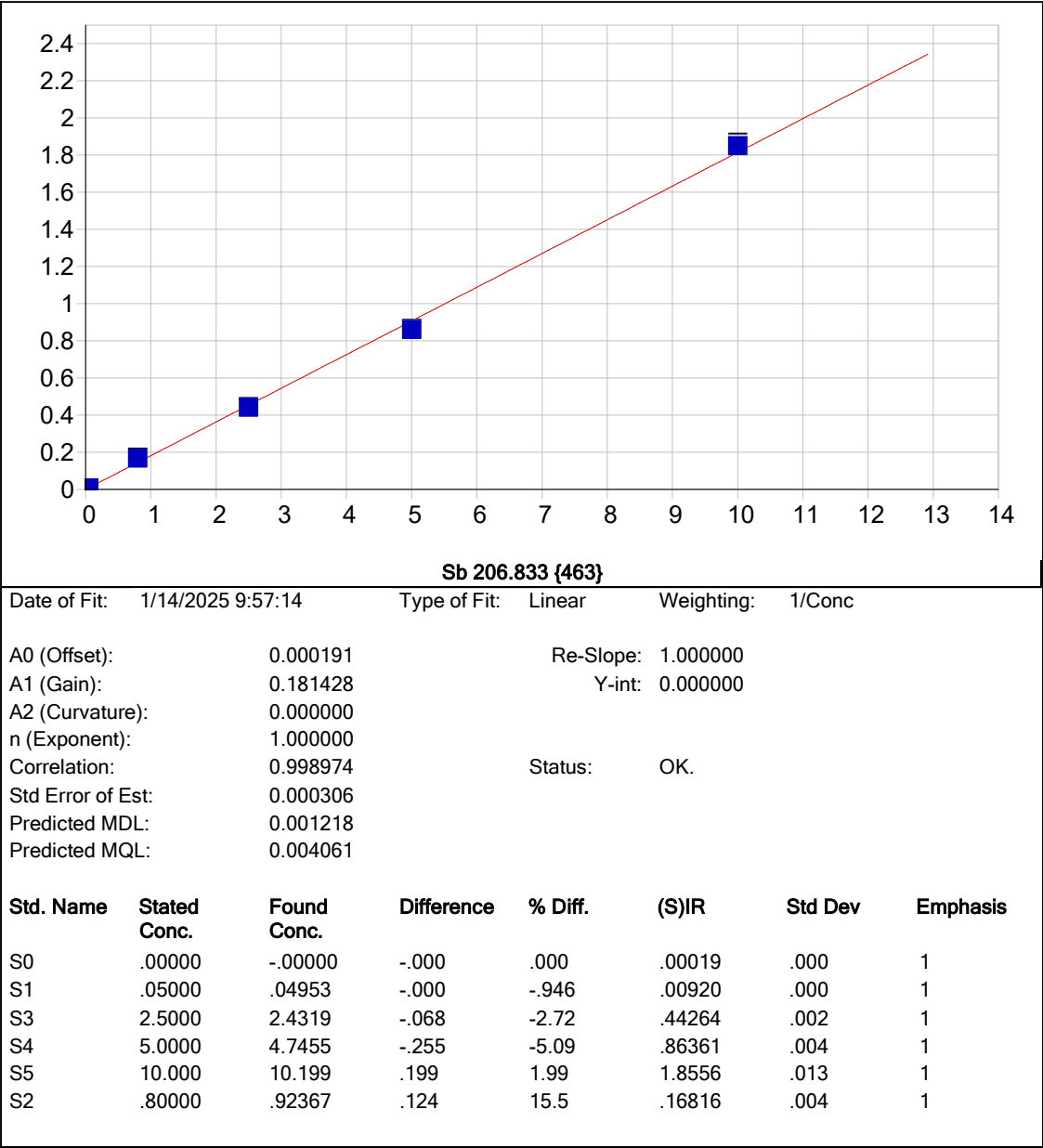
METAL RAW DATA

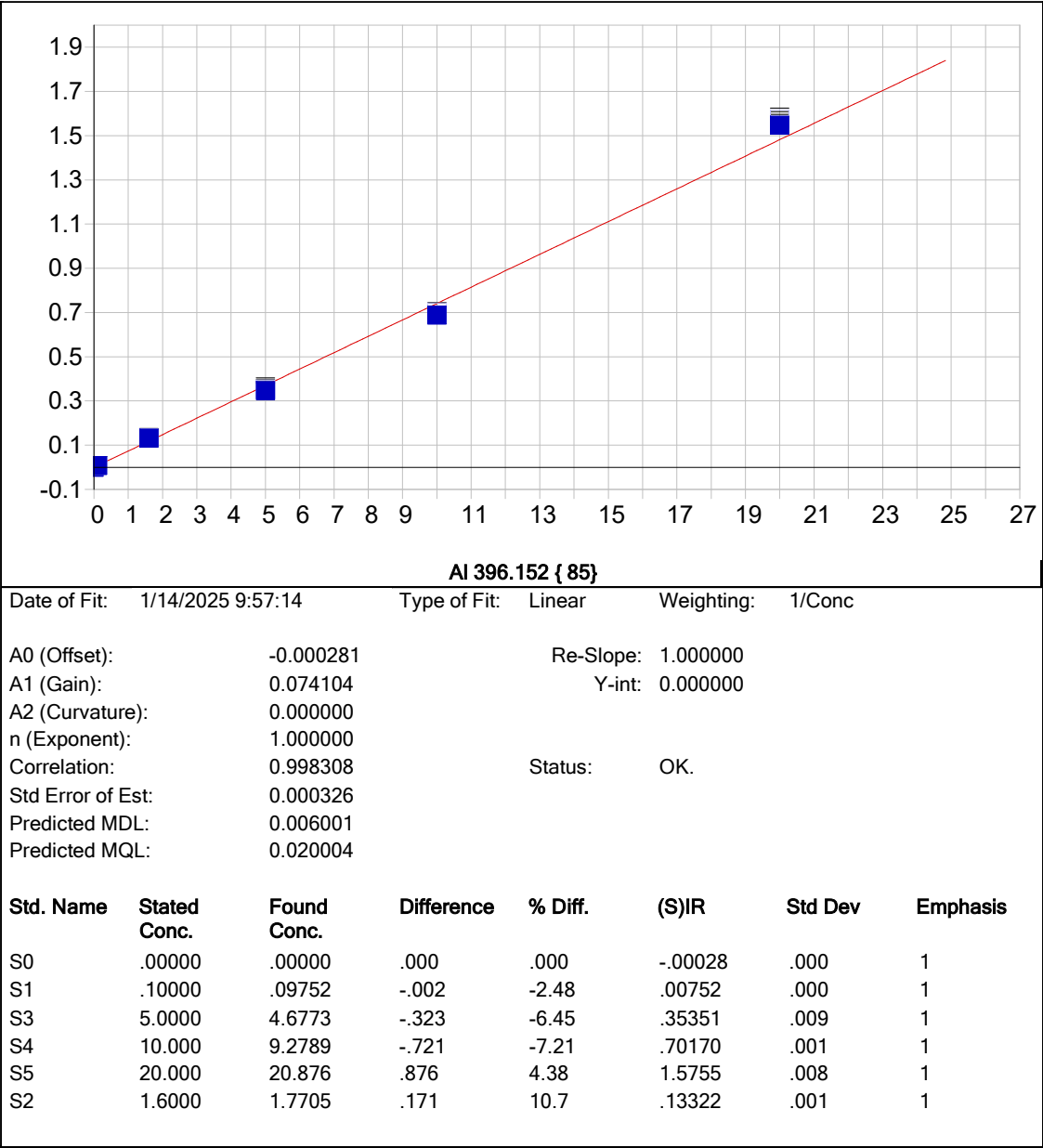


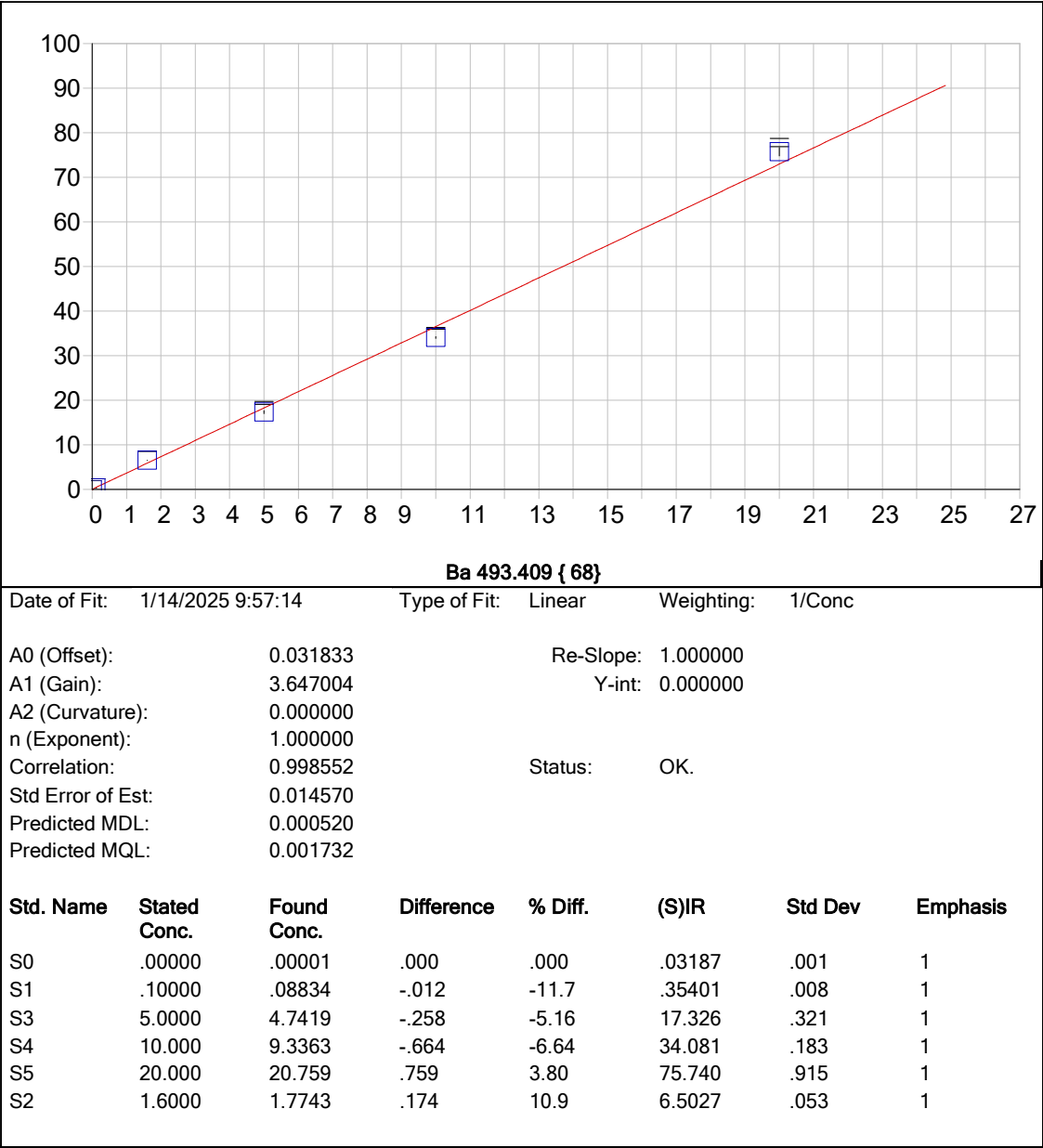


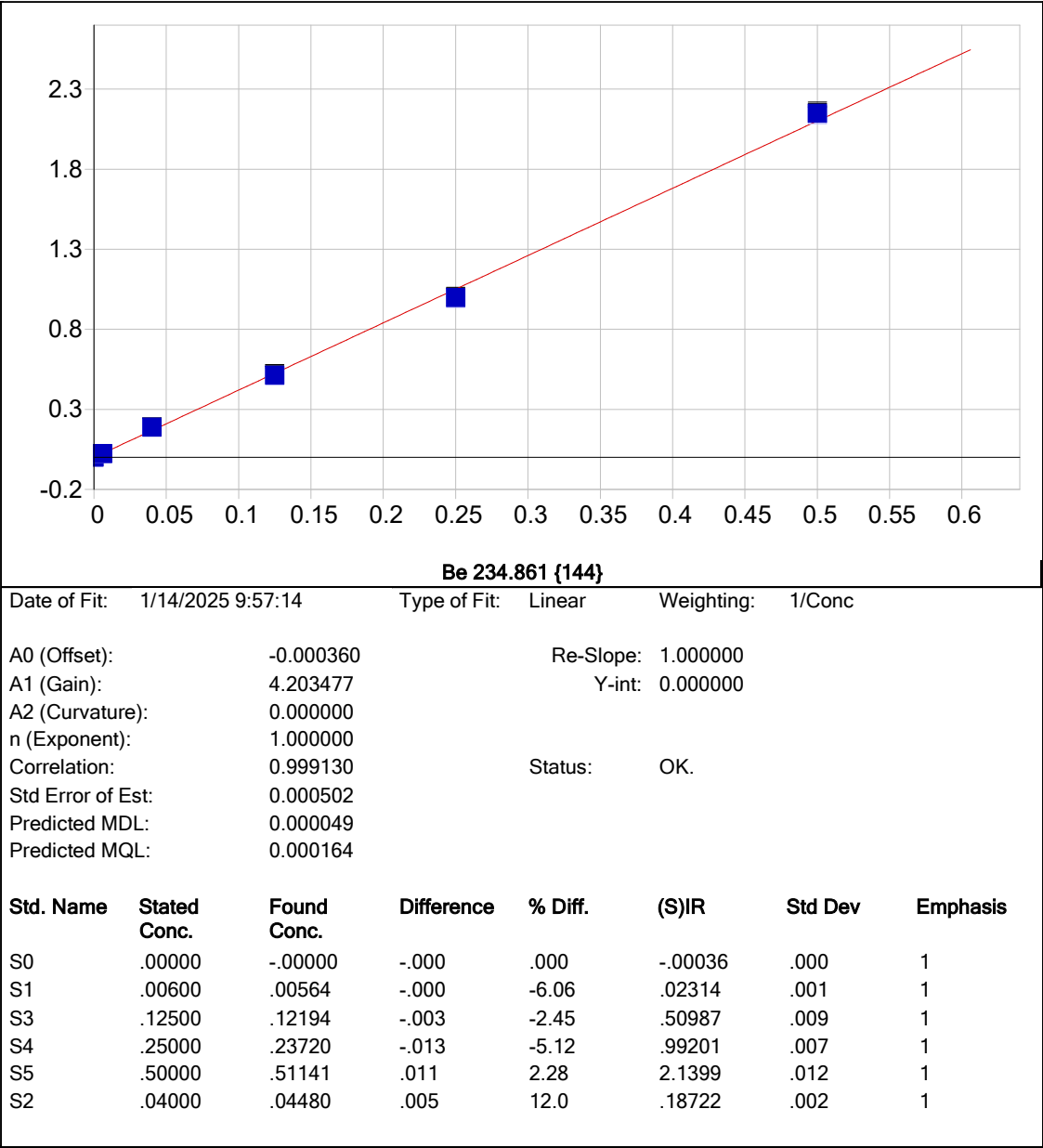


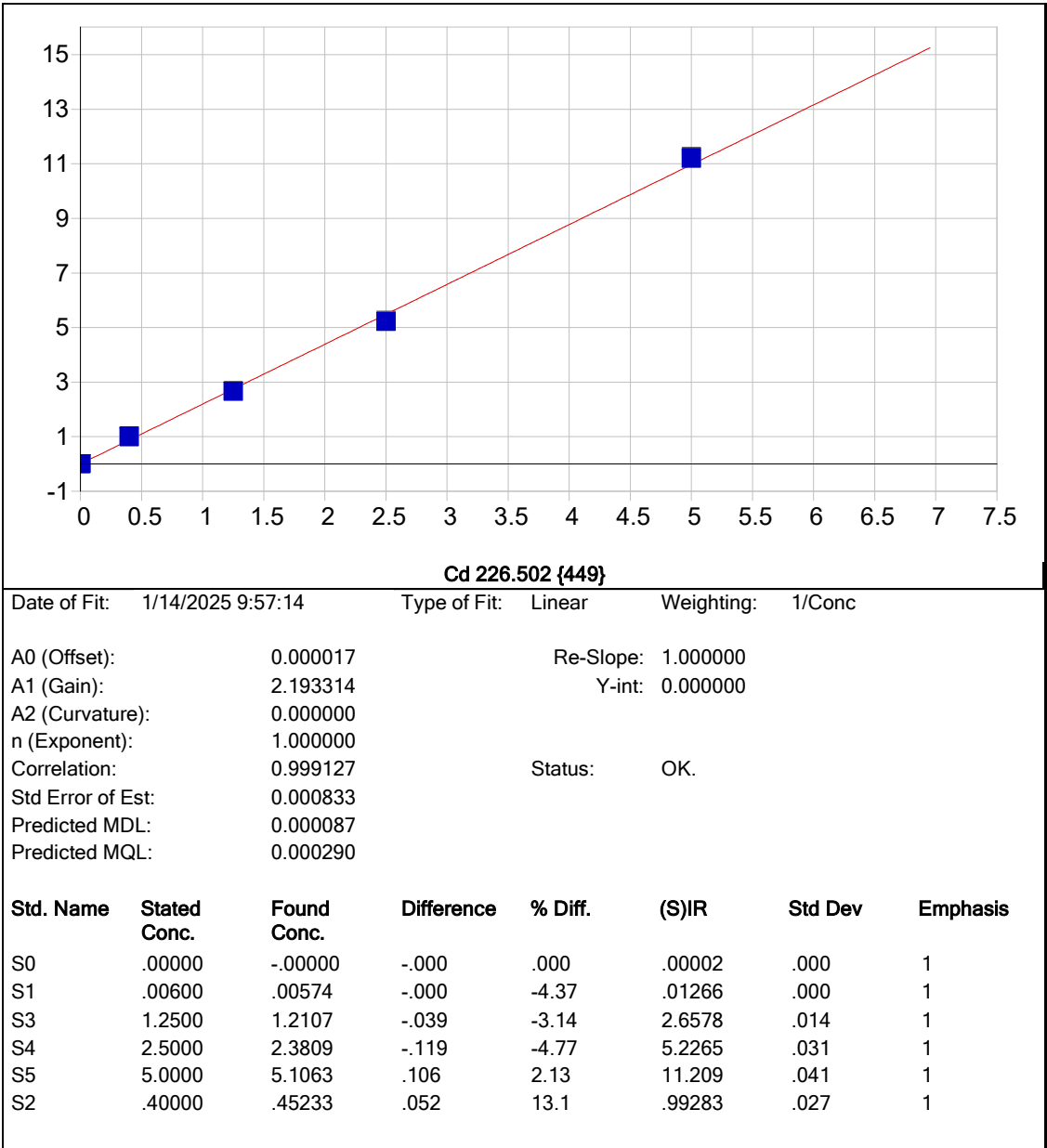


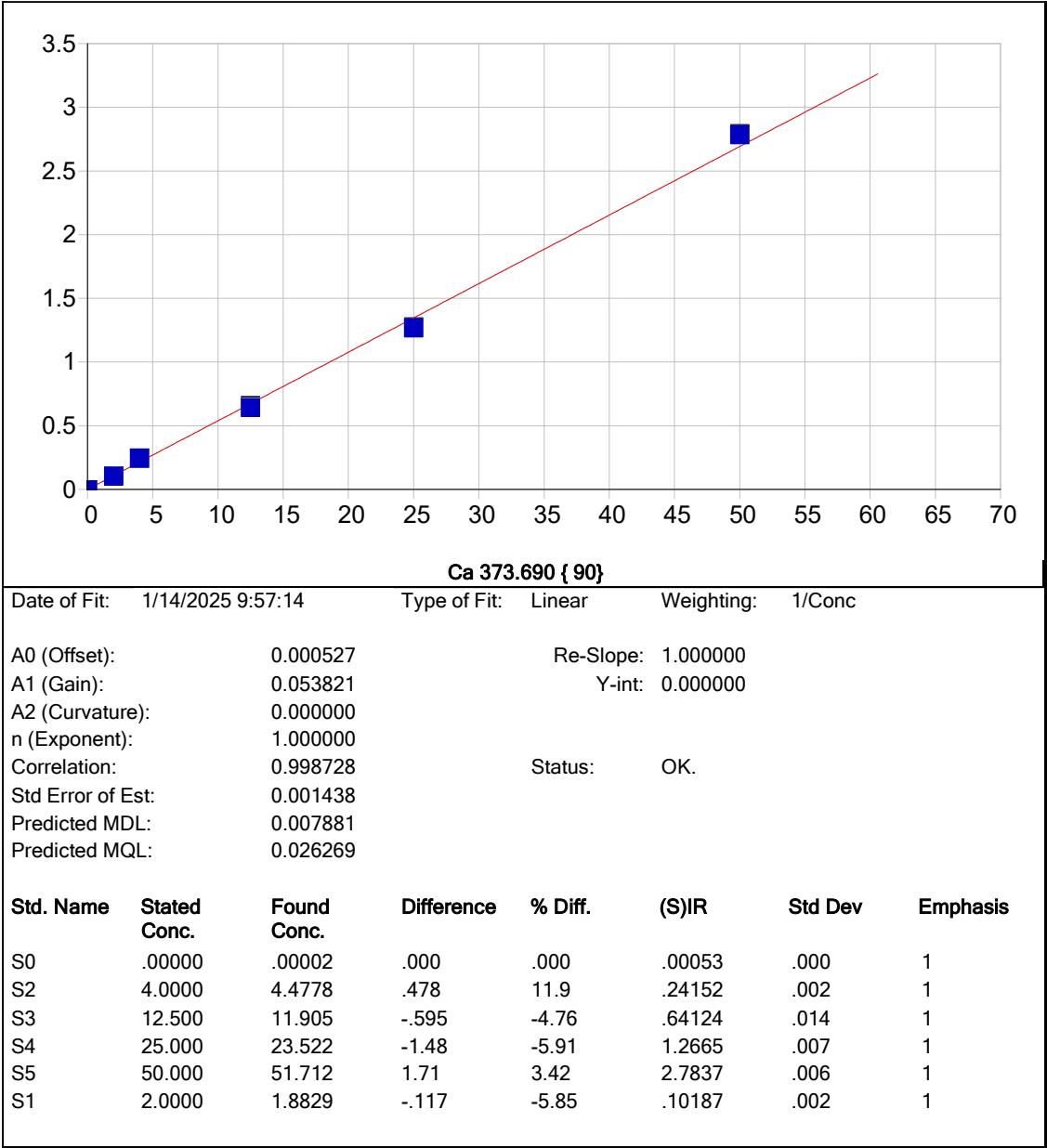


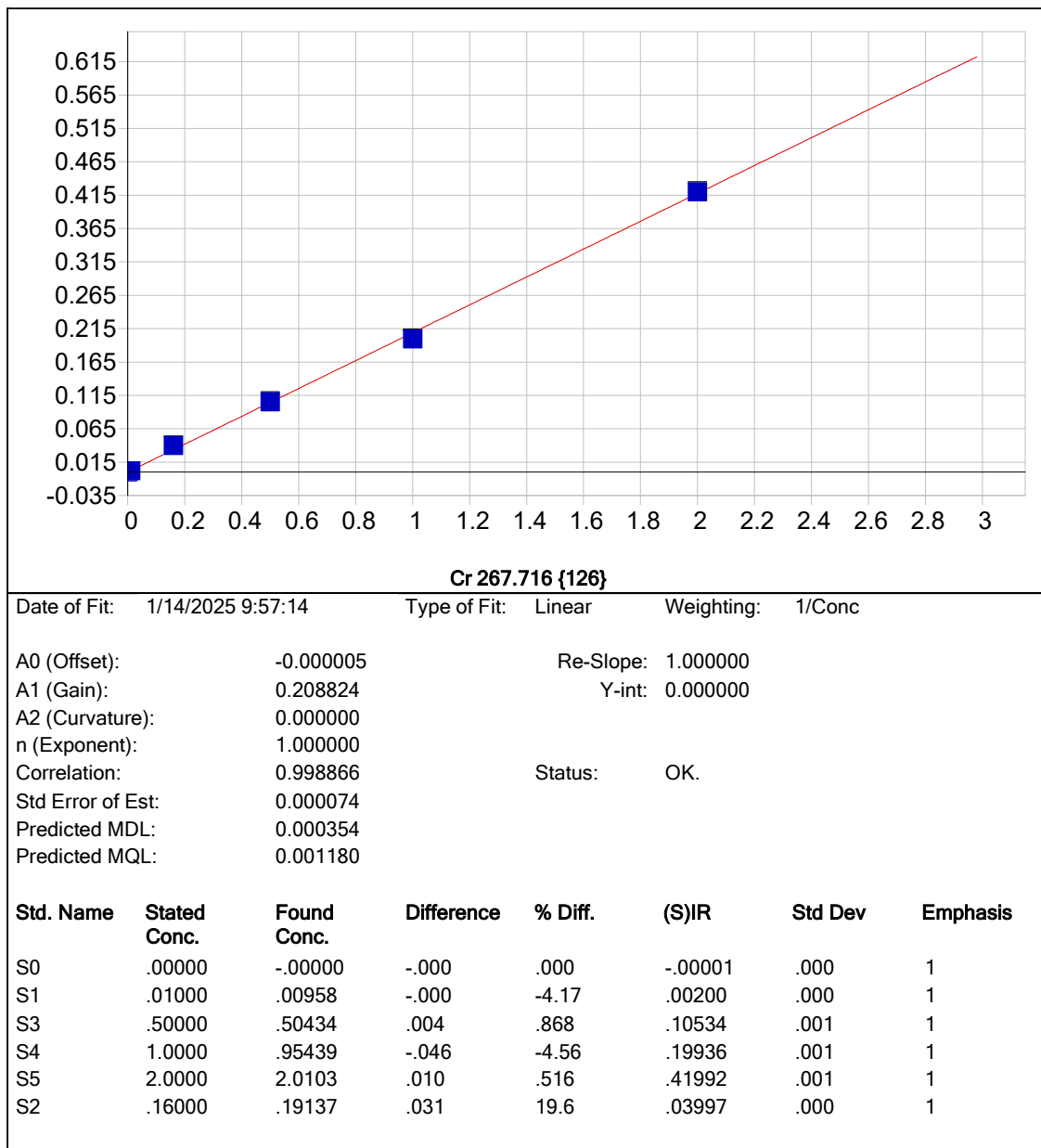


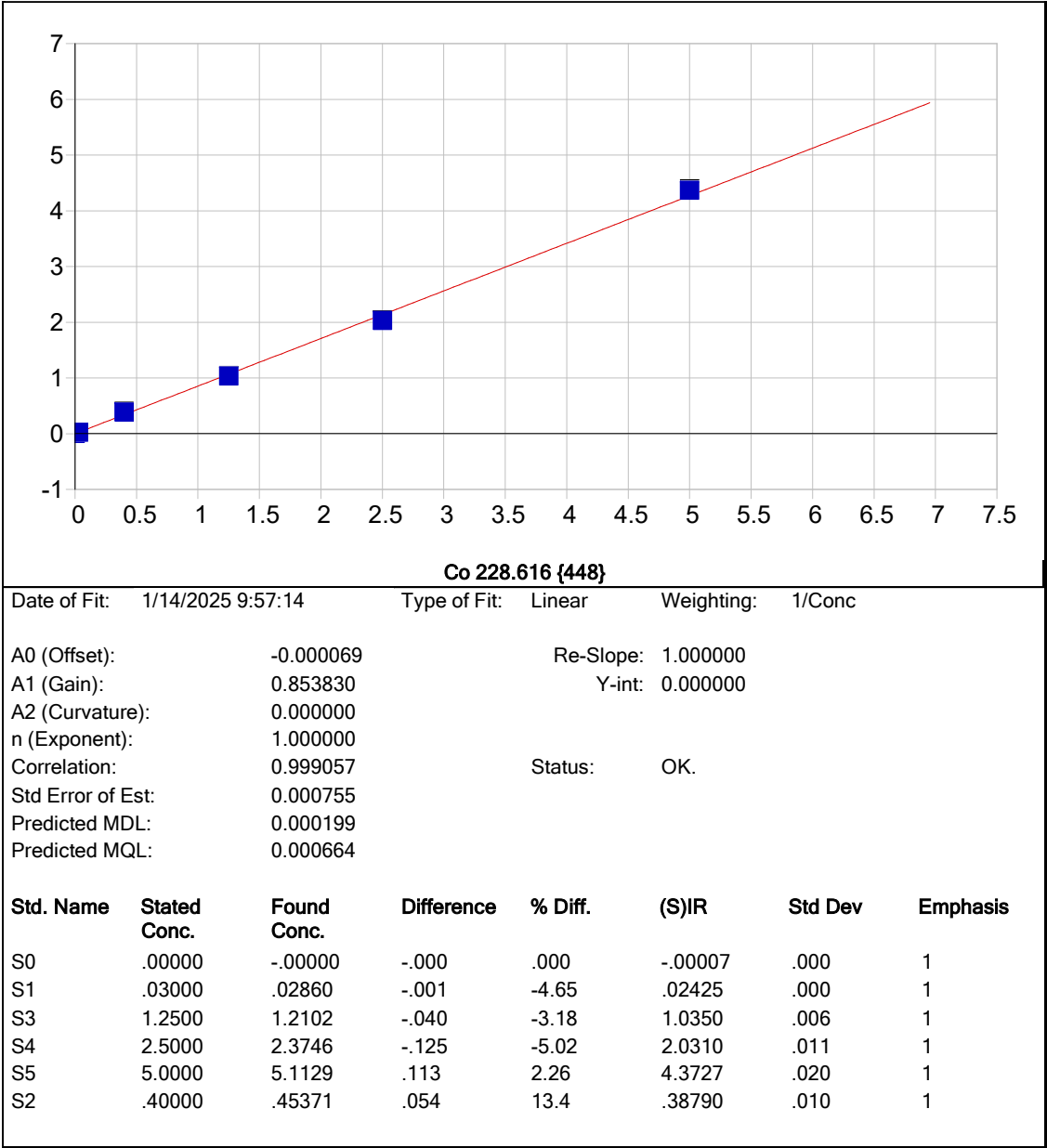


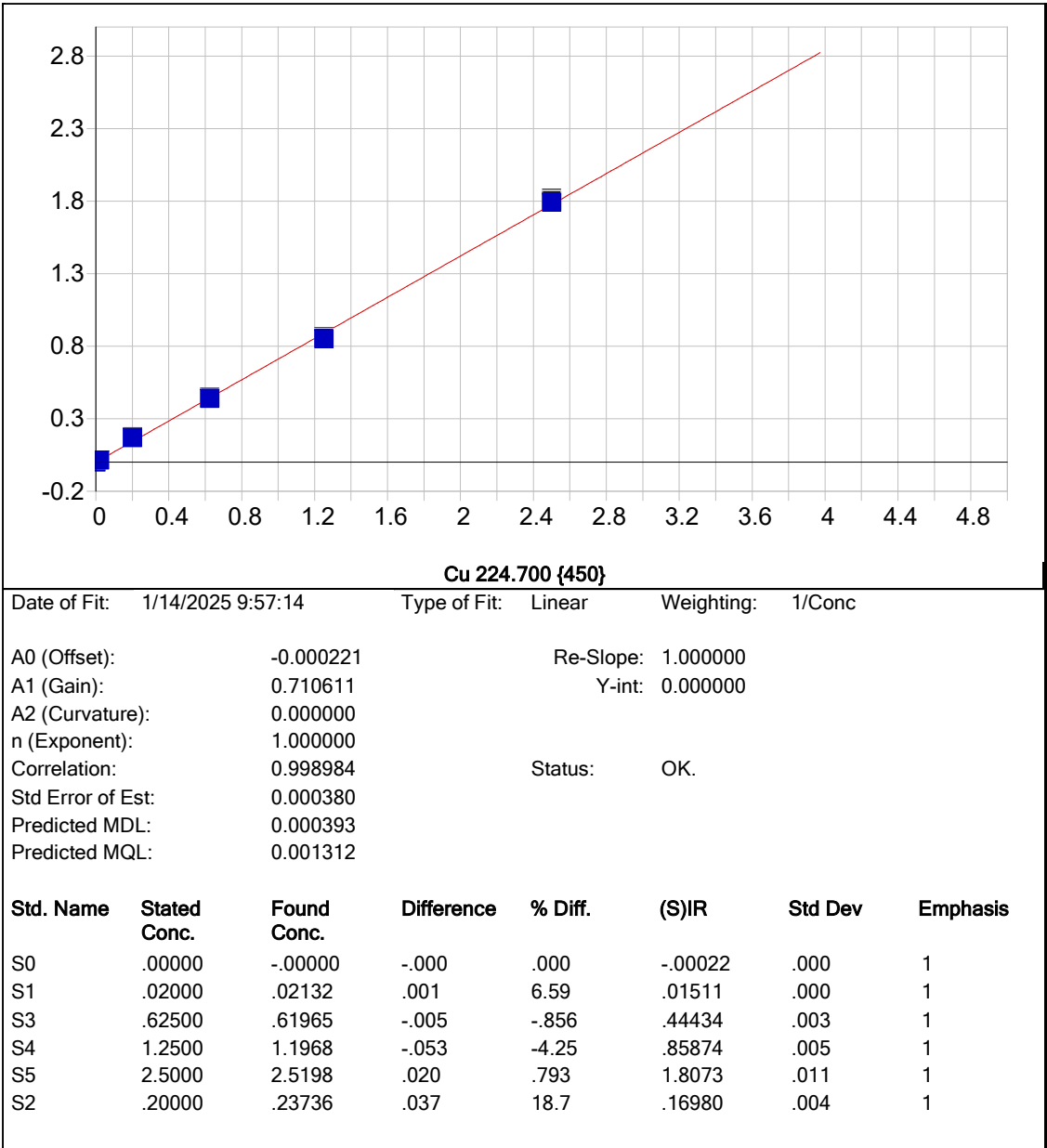


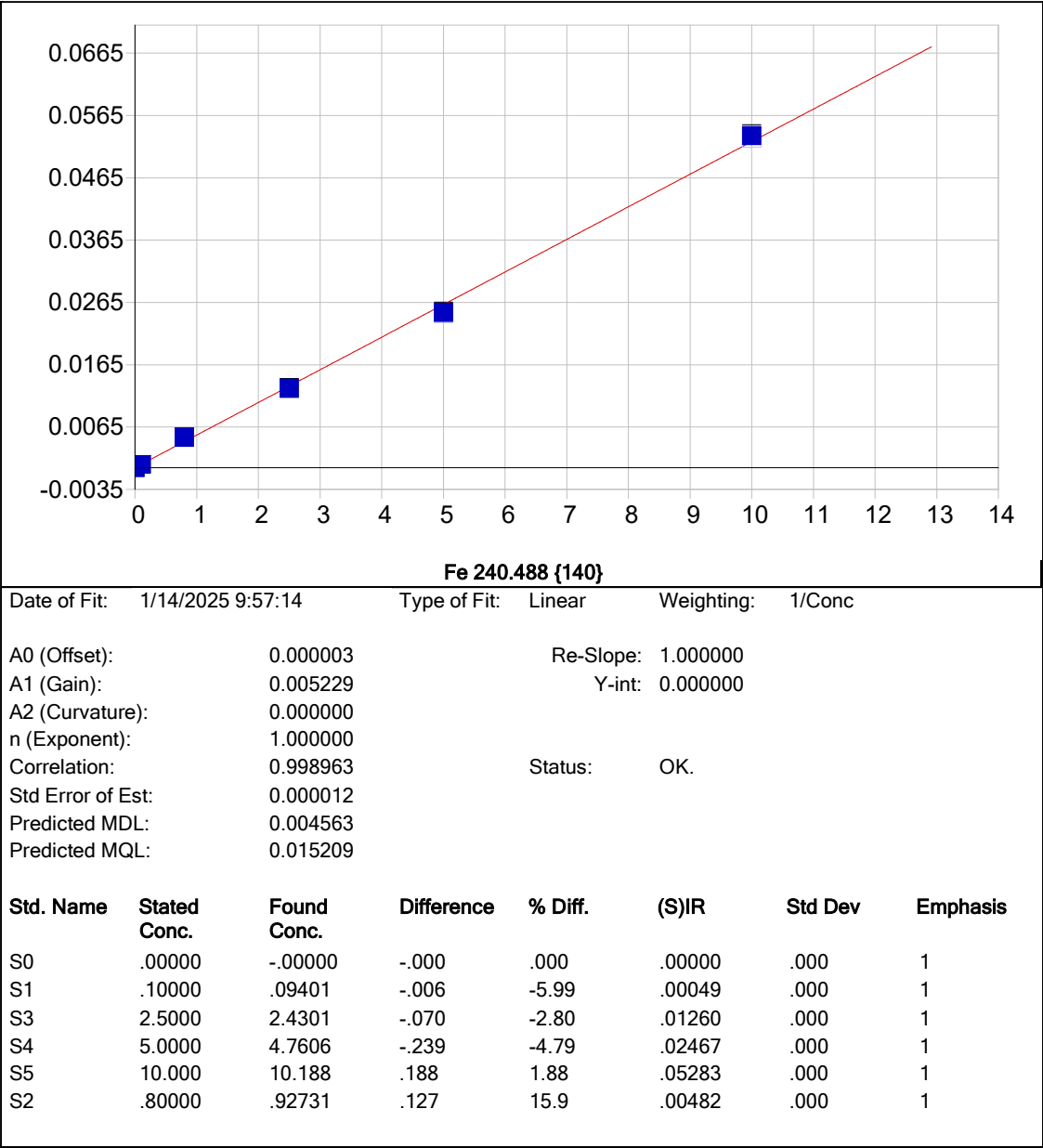


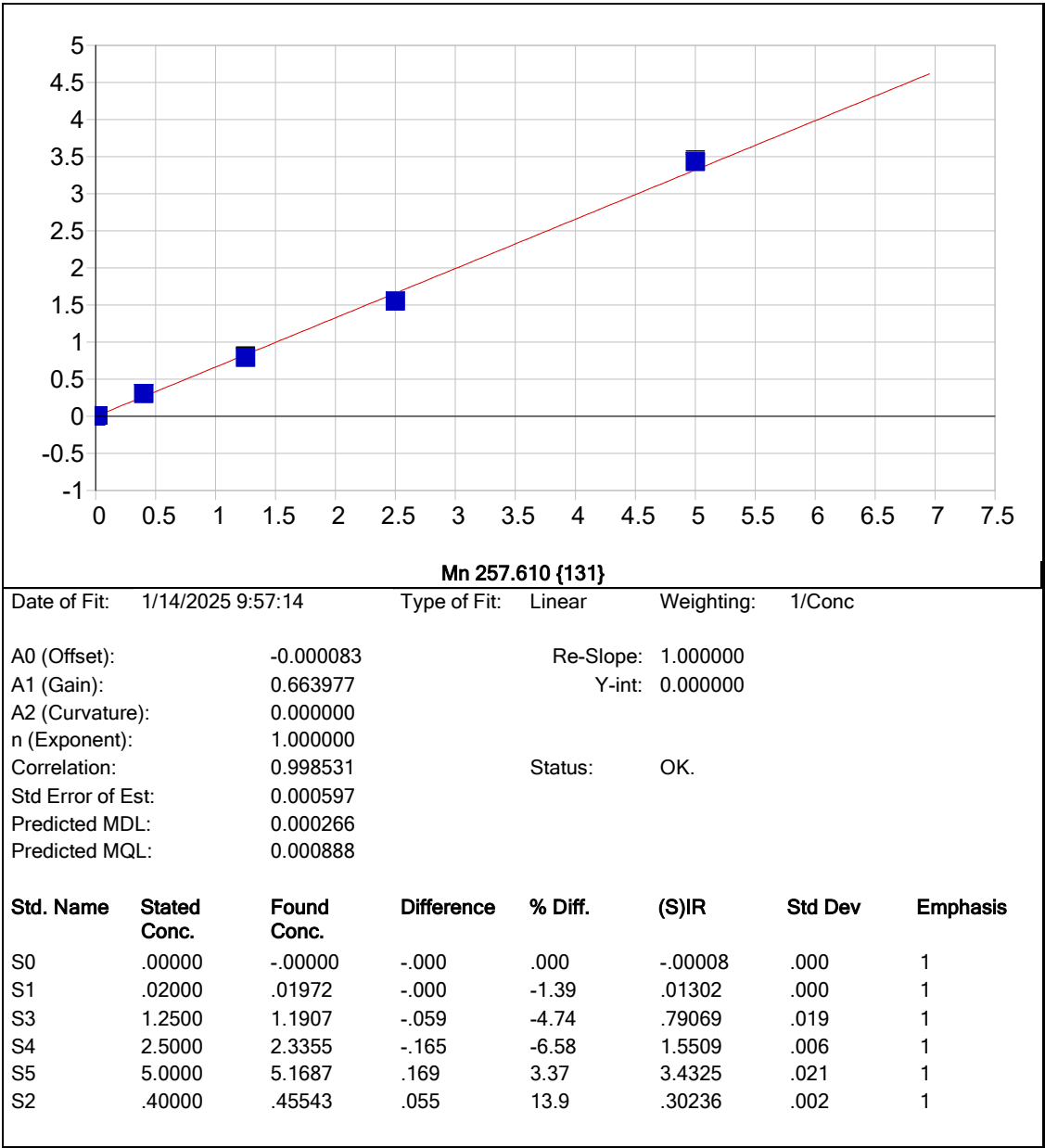


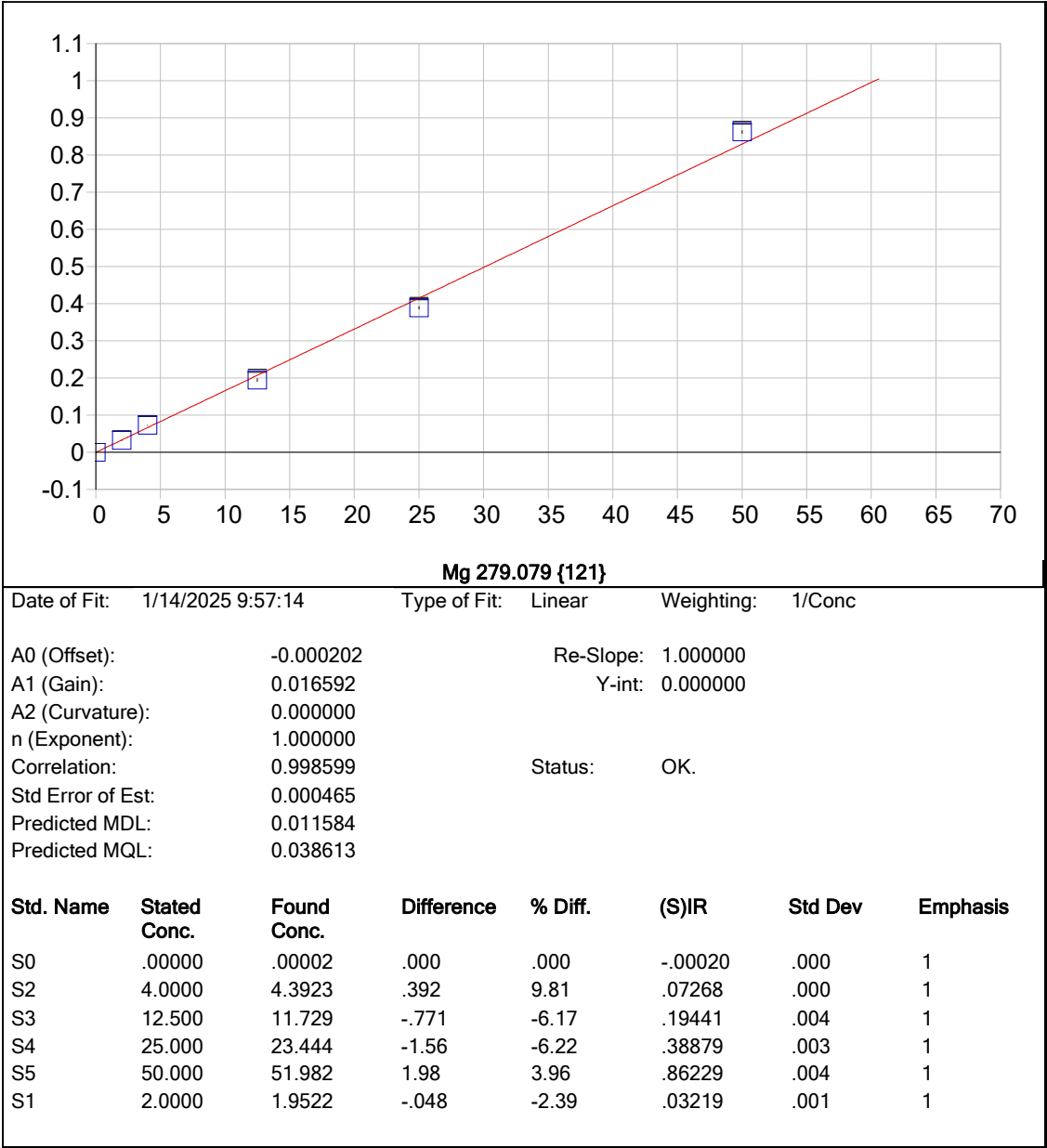


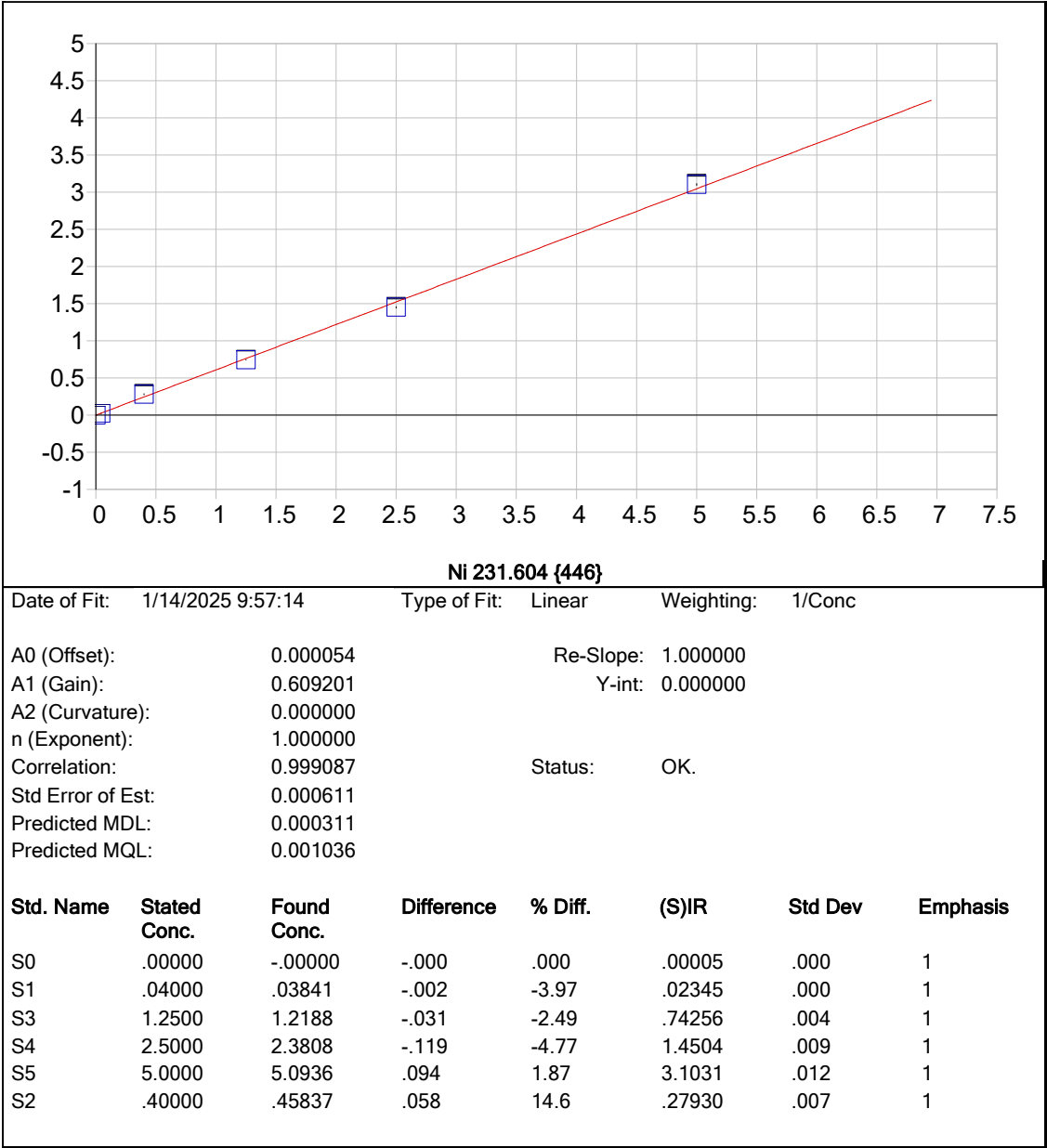


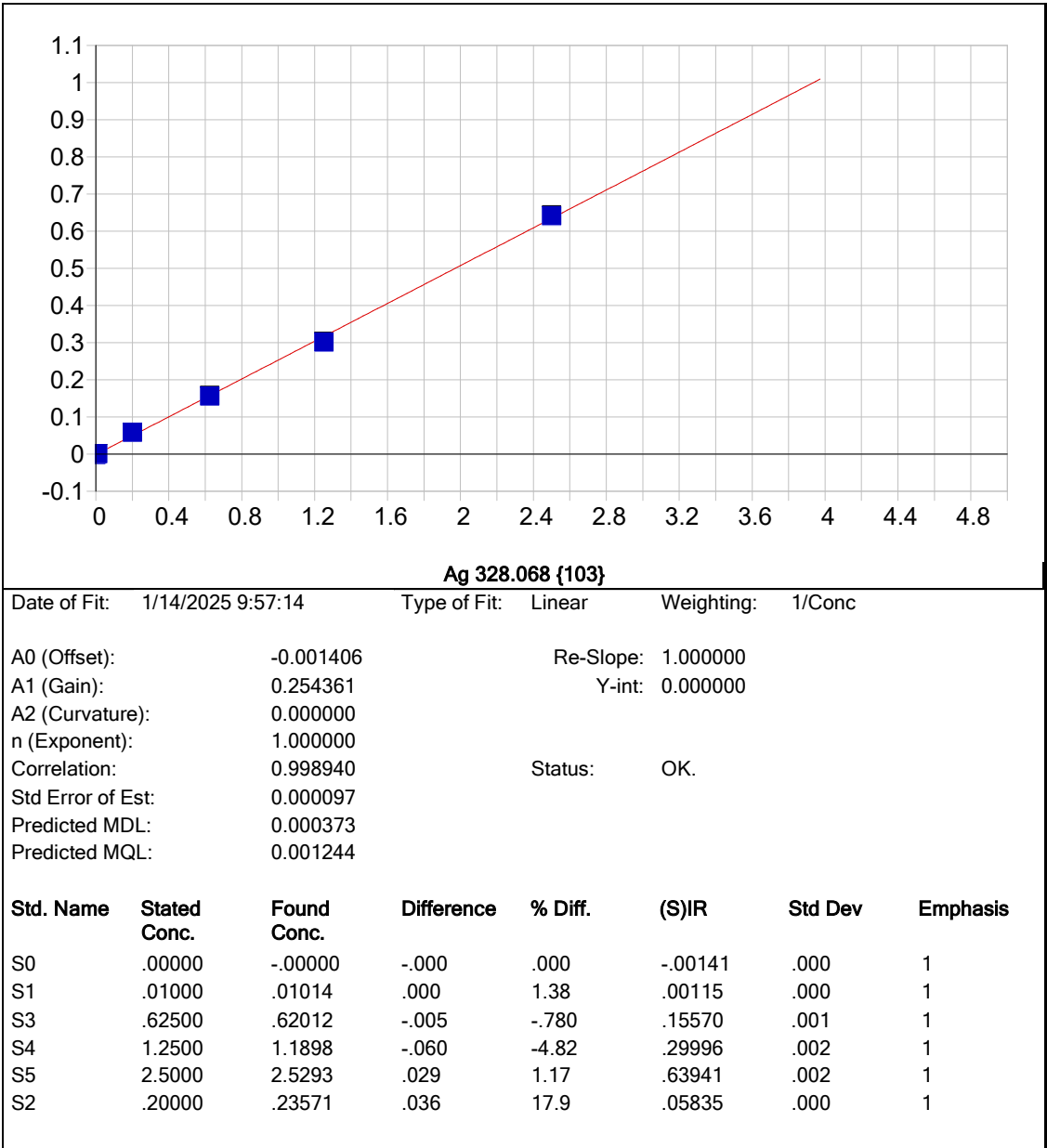


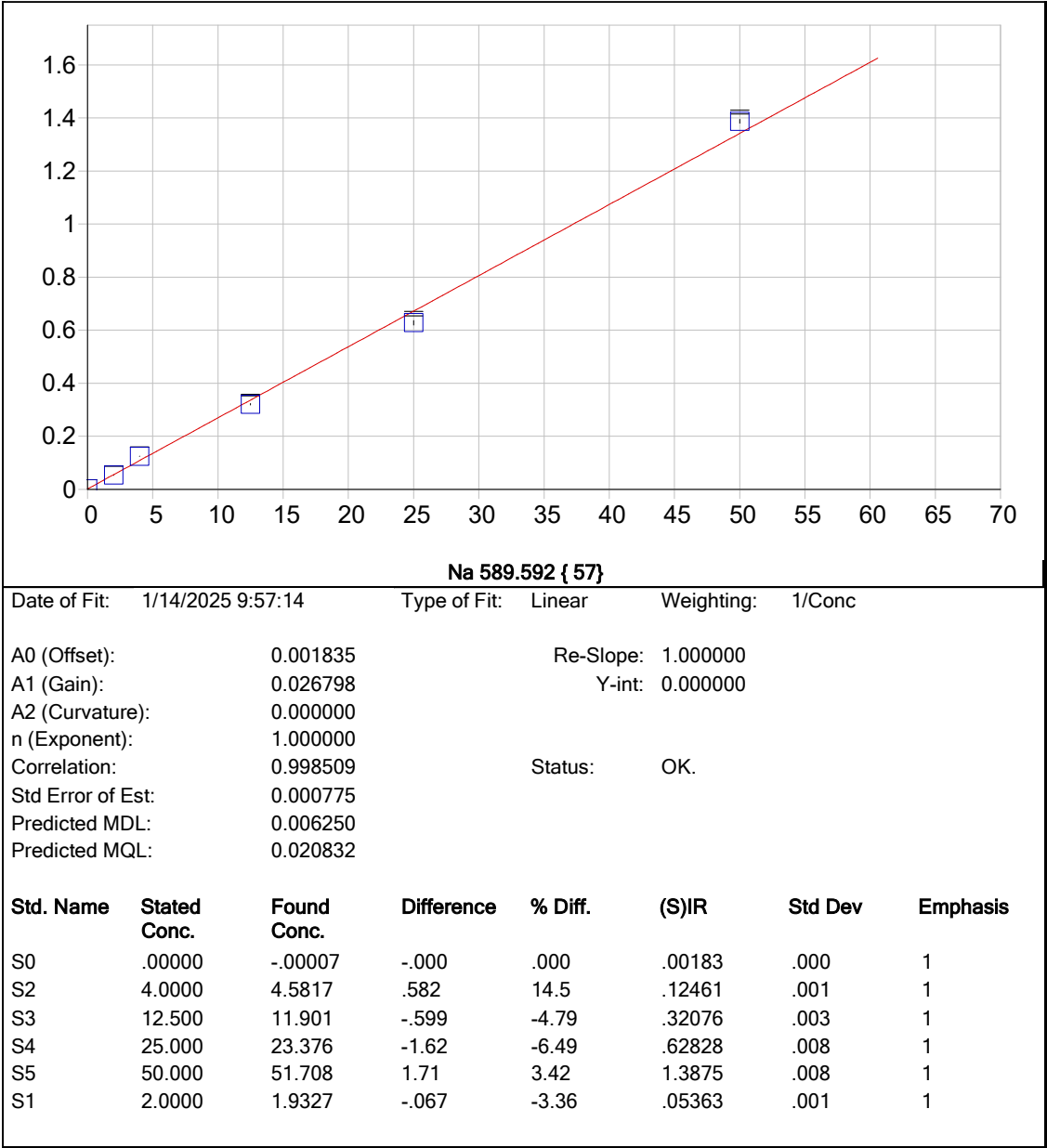


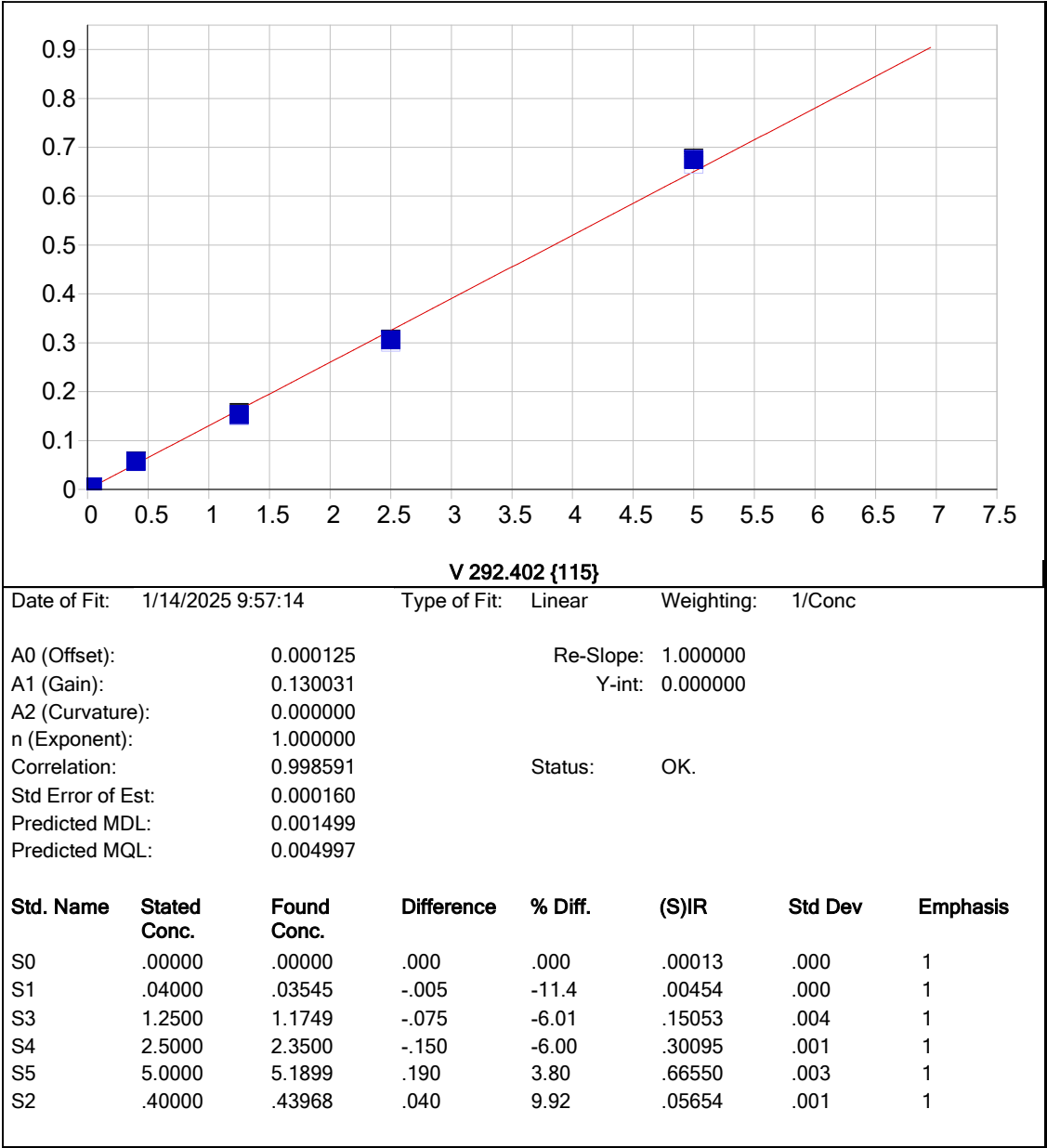


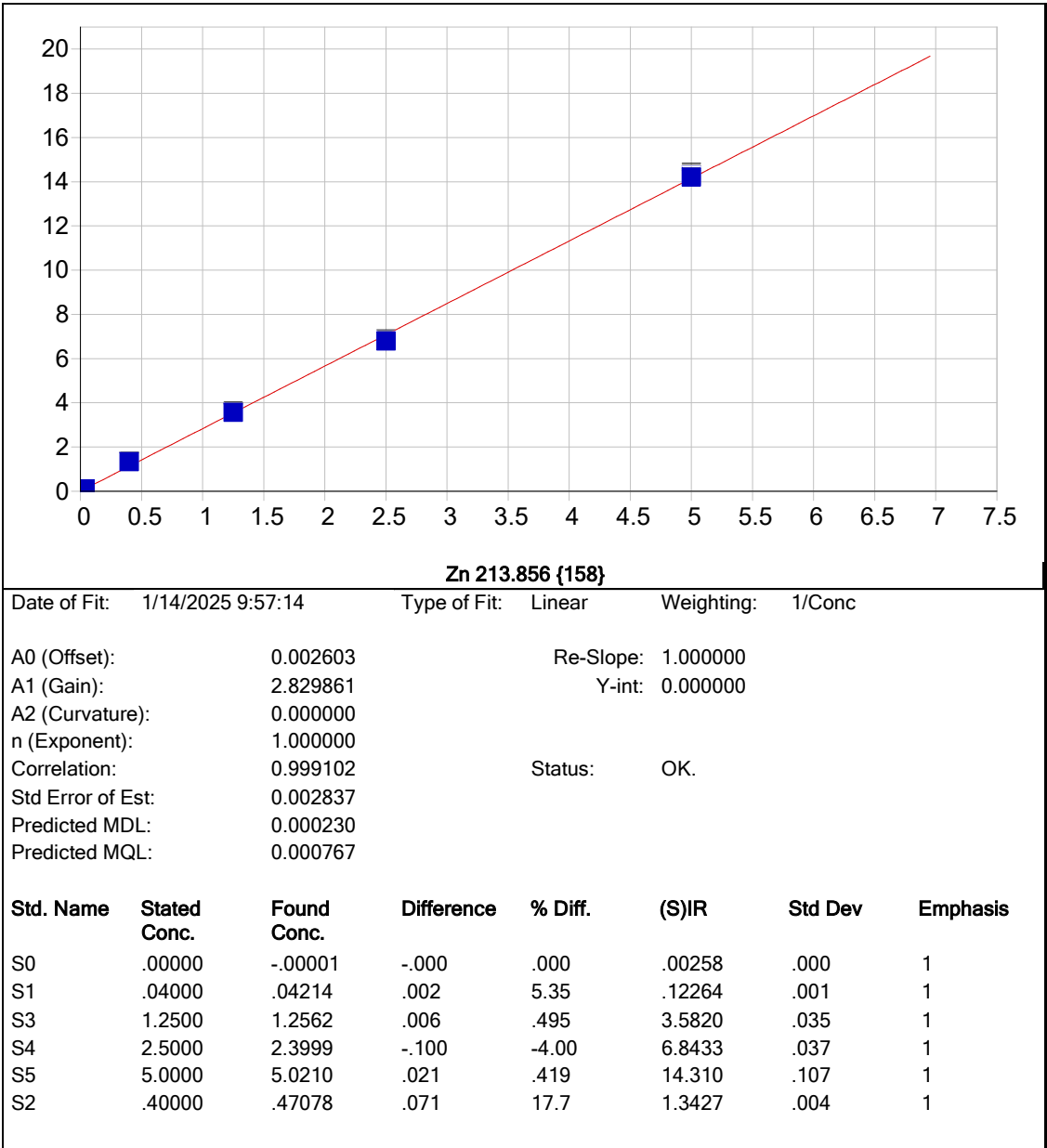


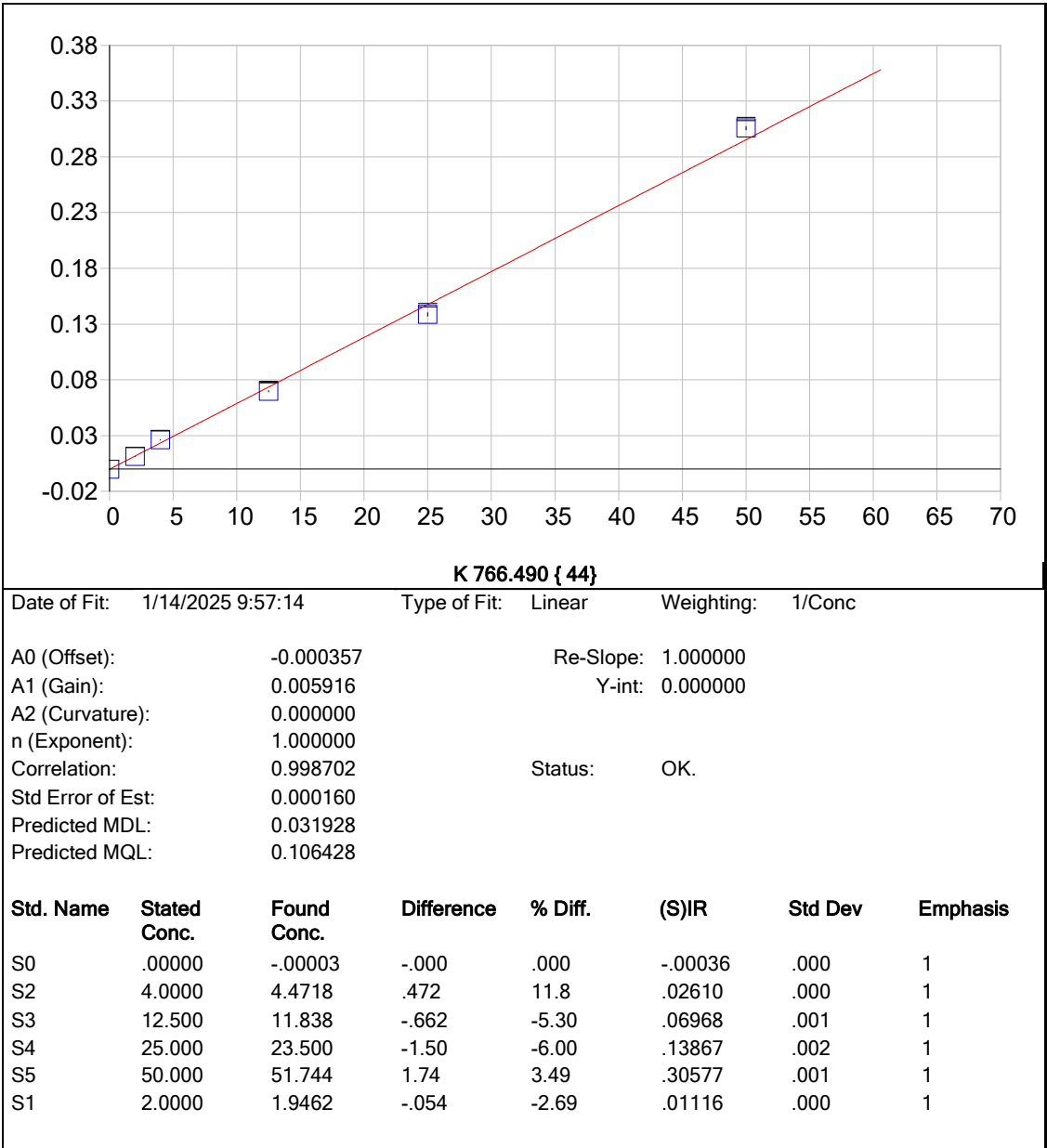


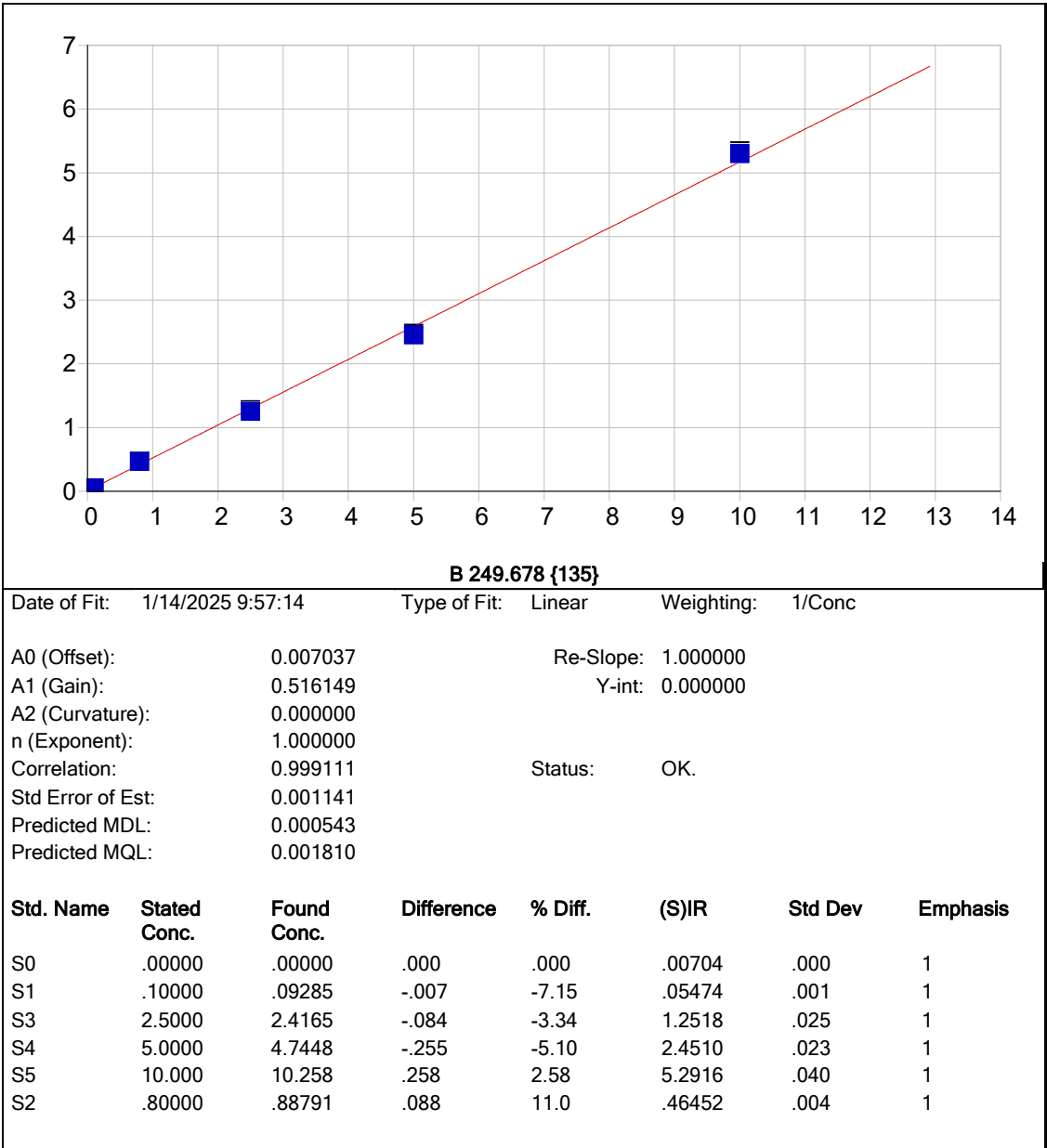


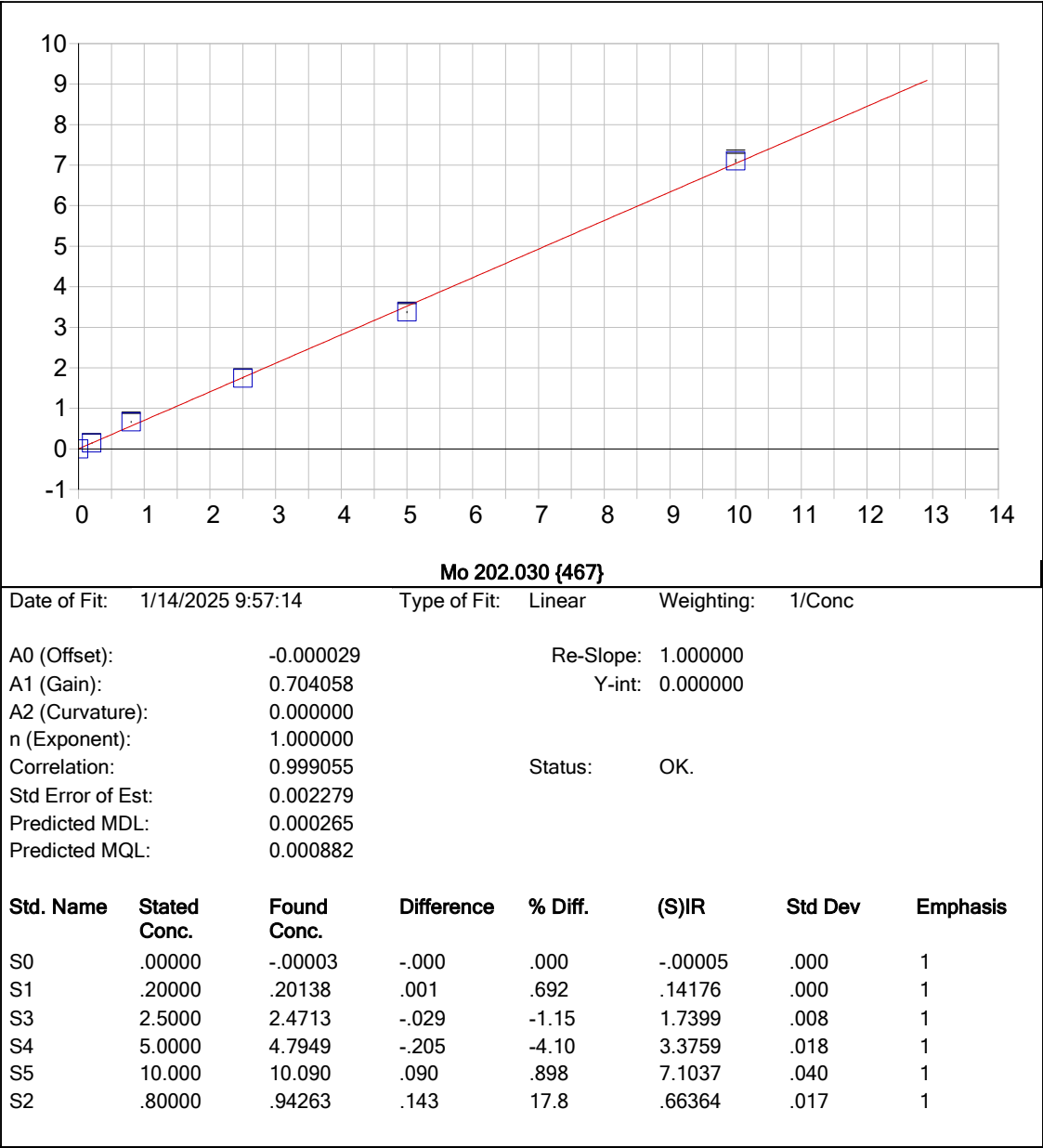


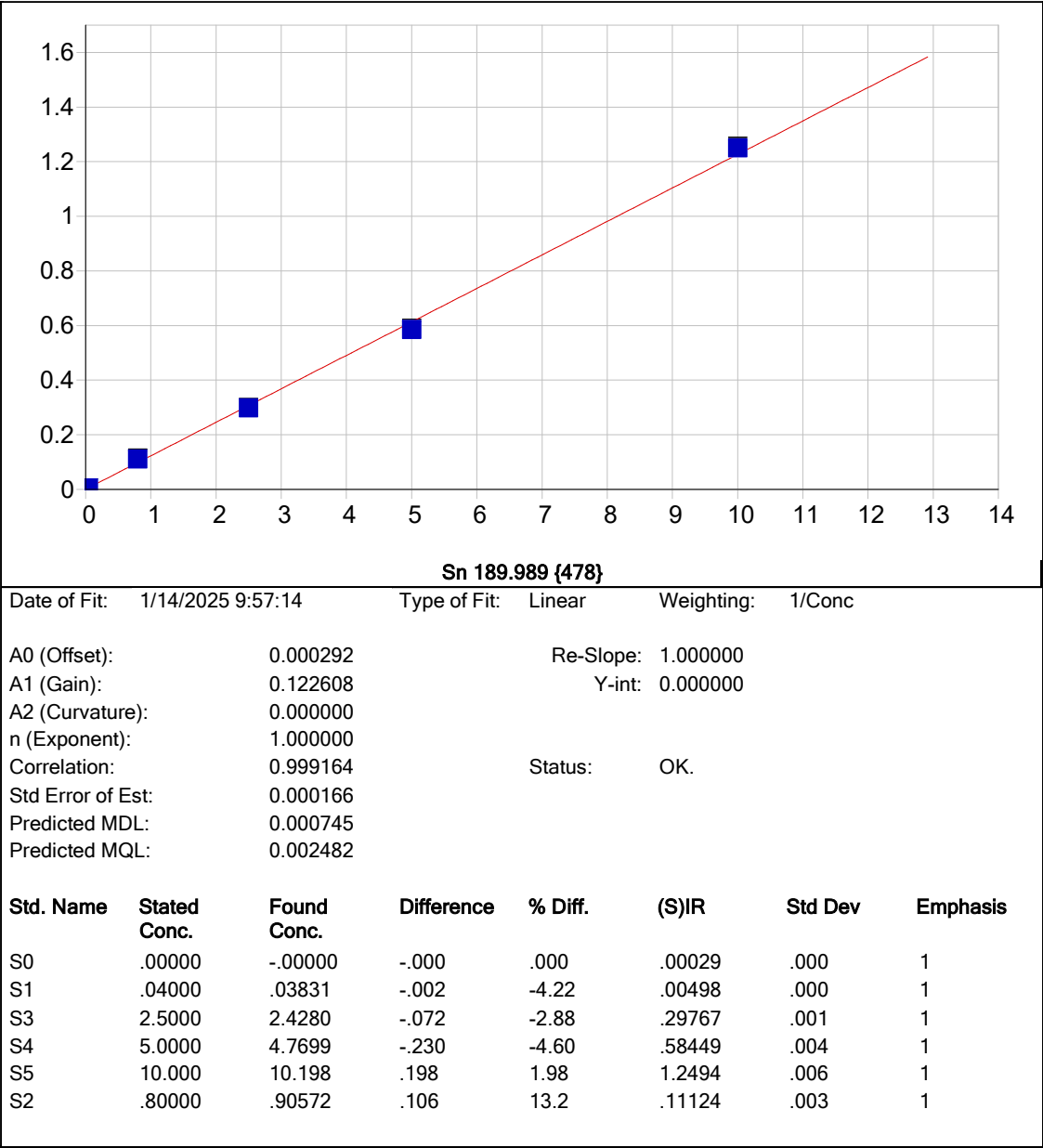


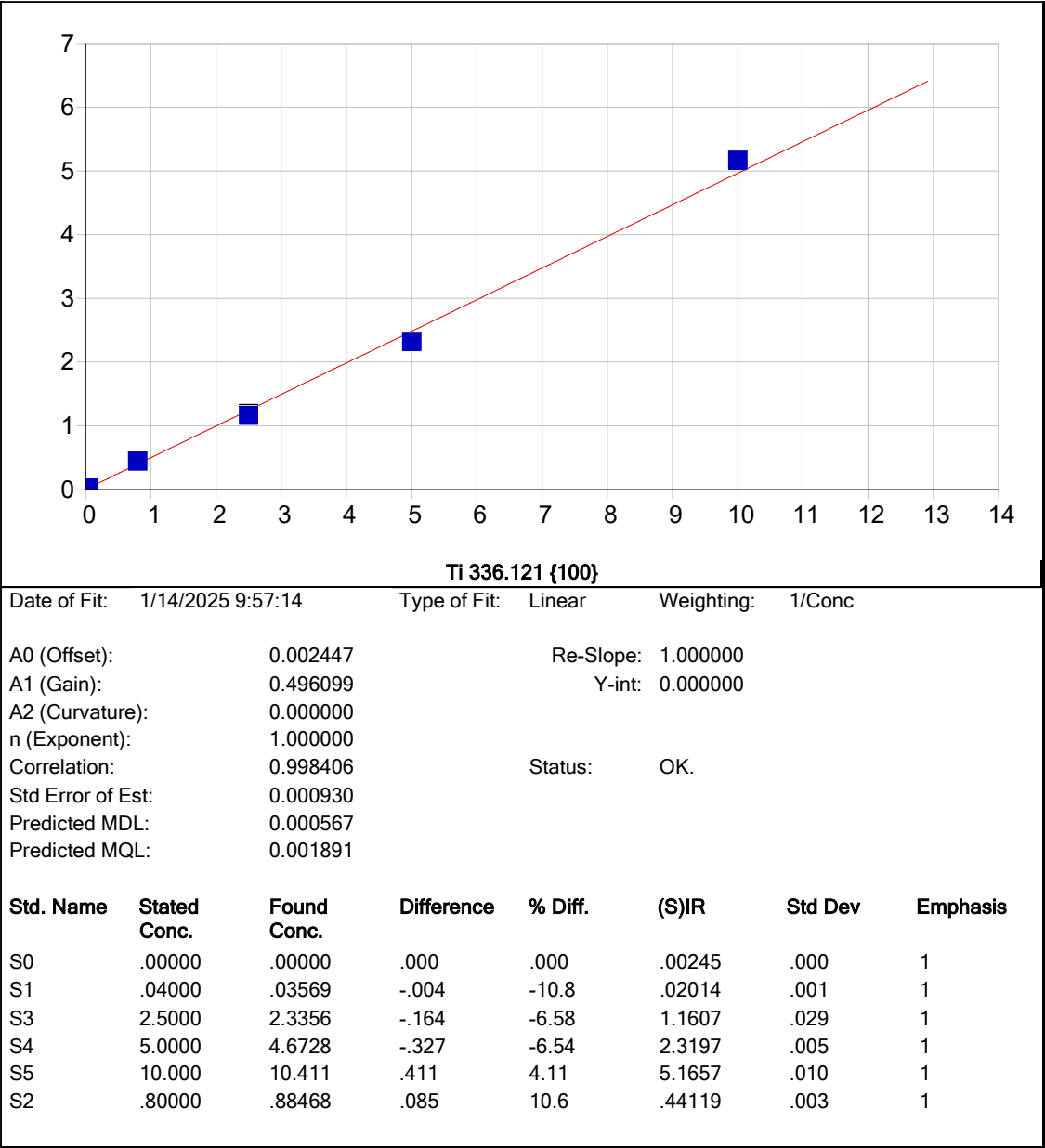


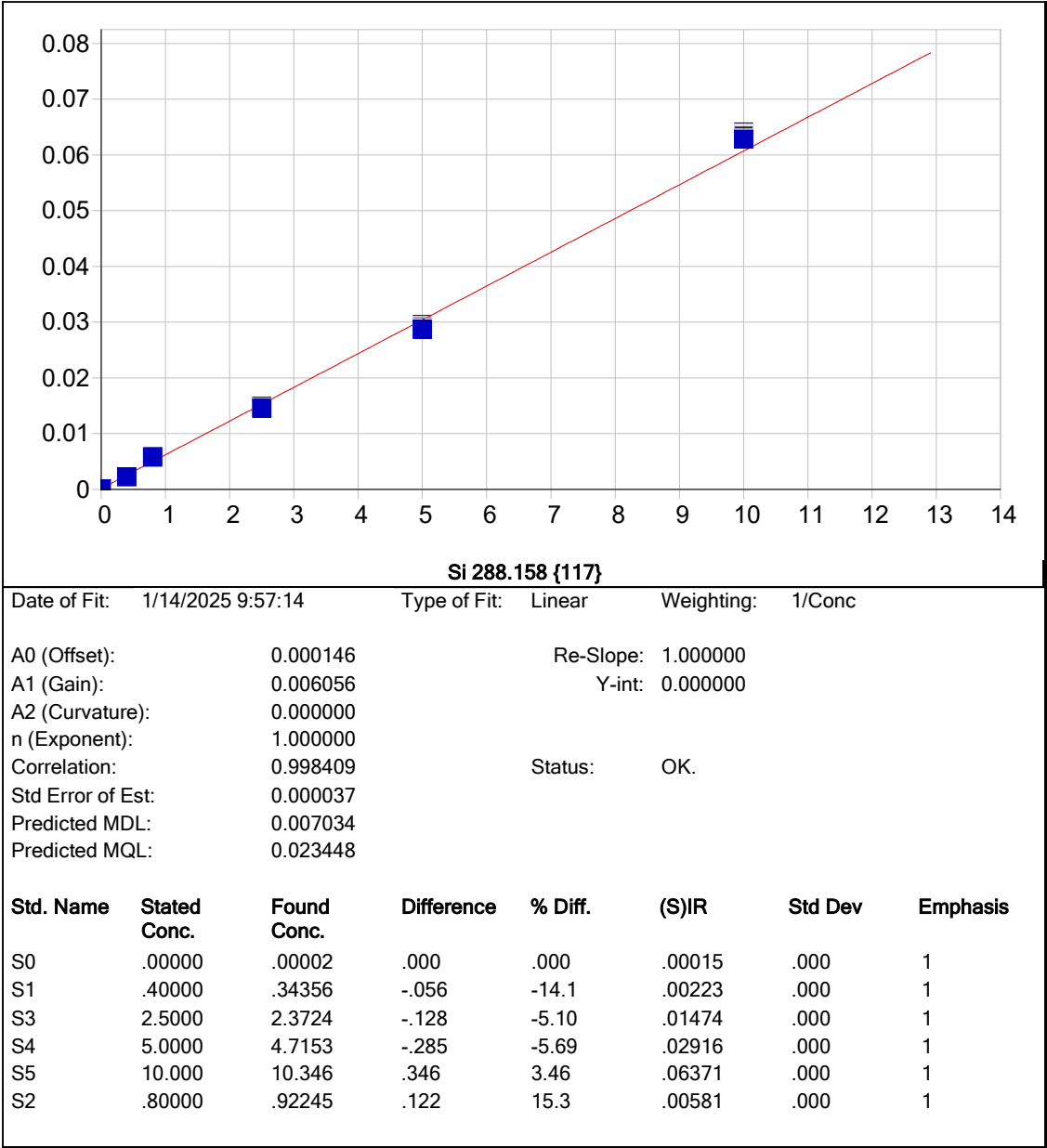


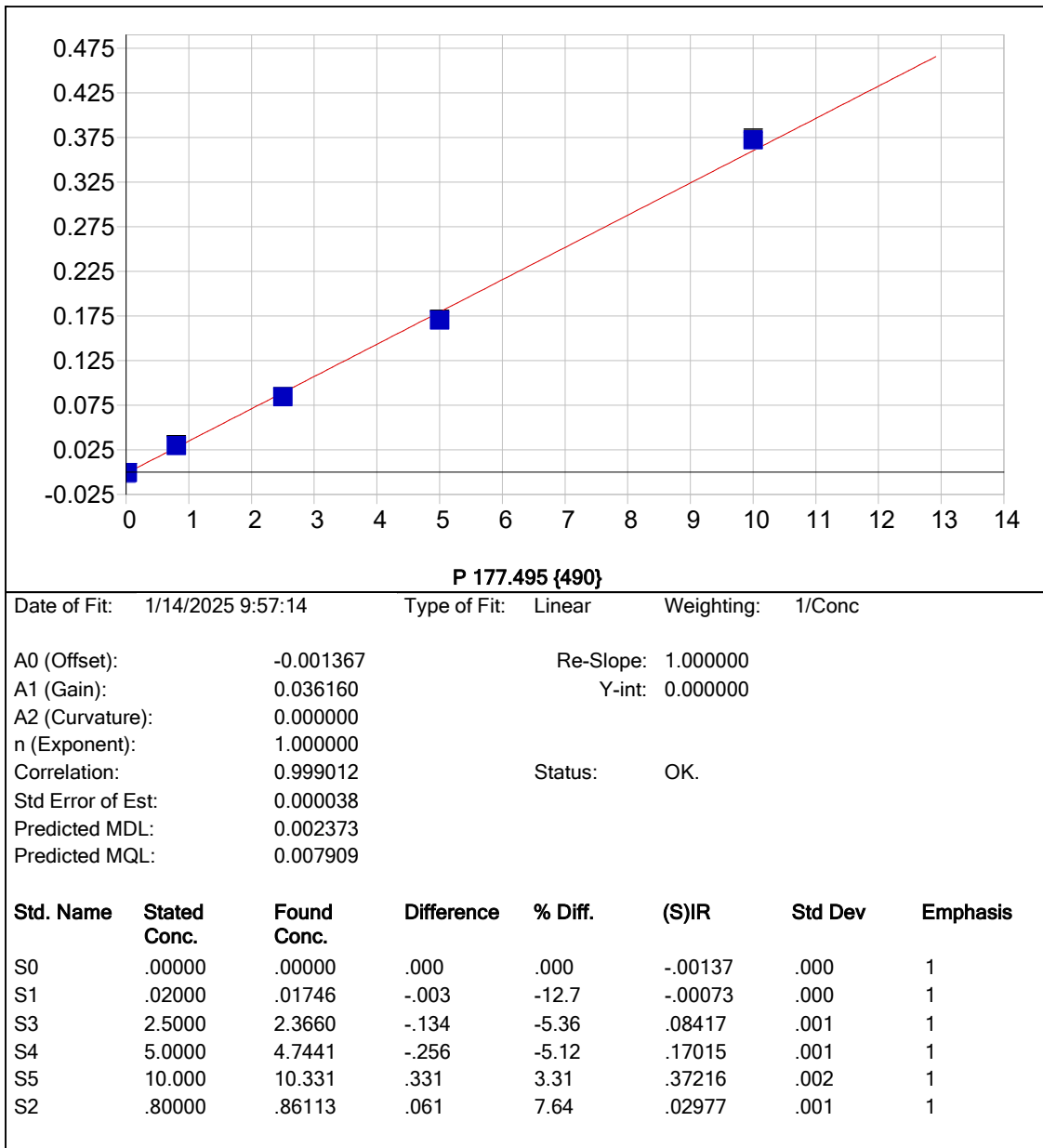


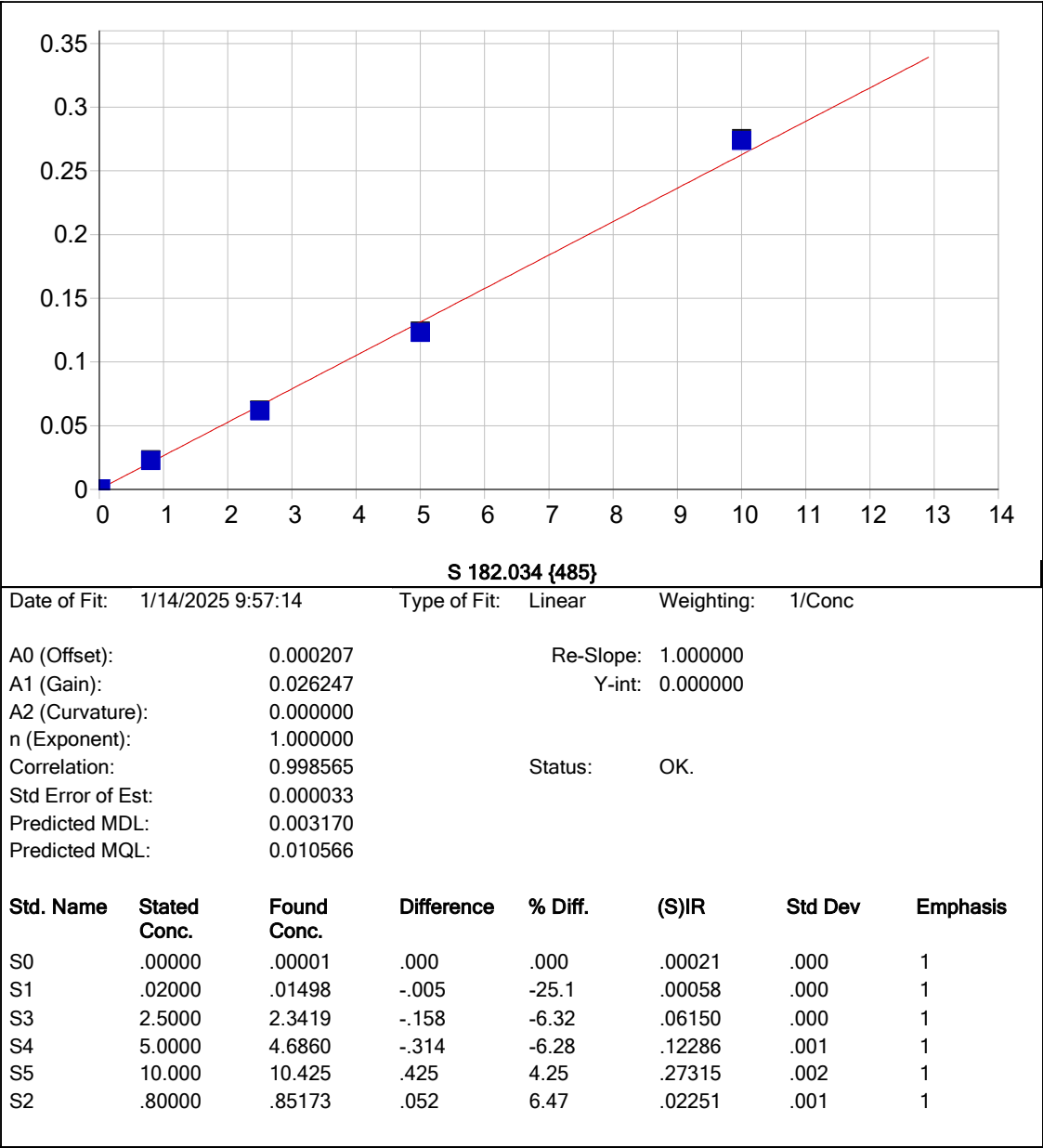


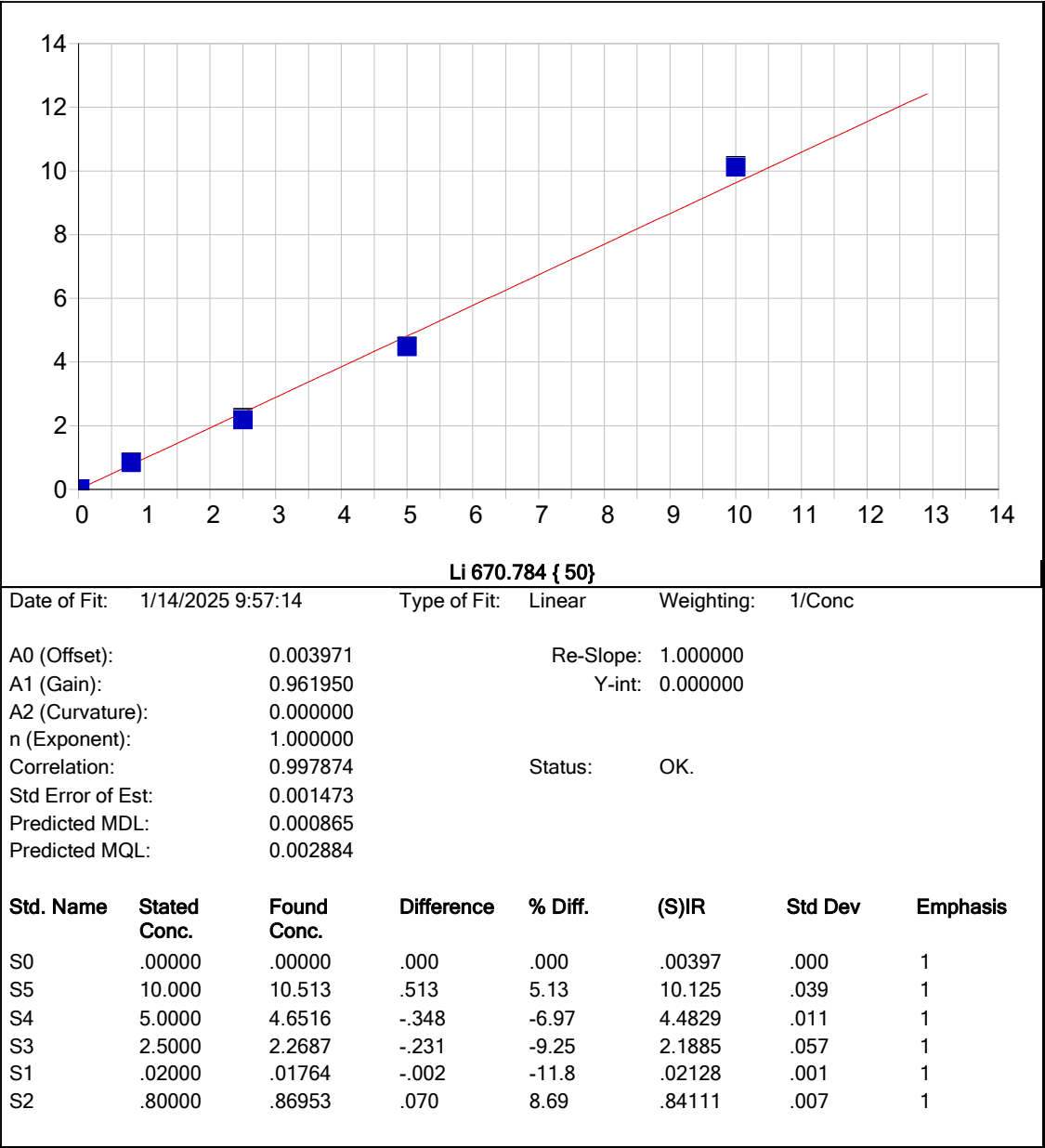


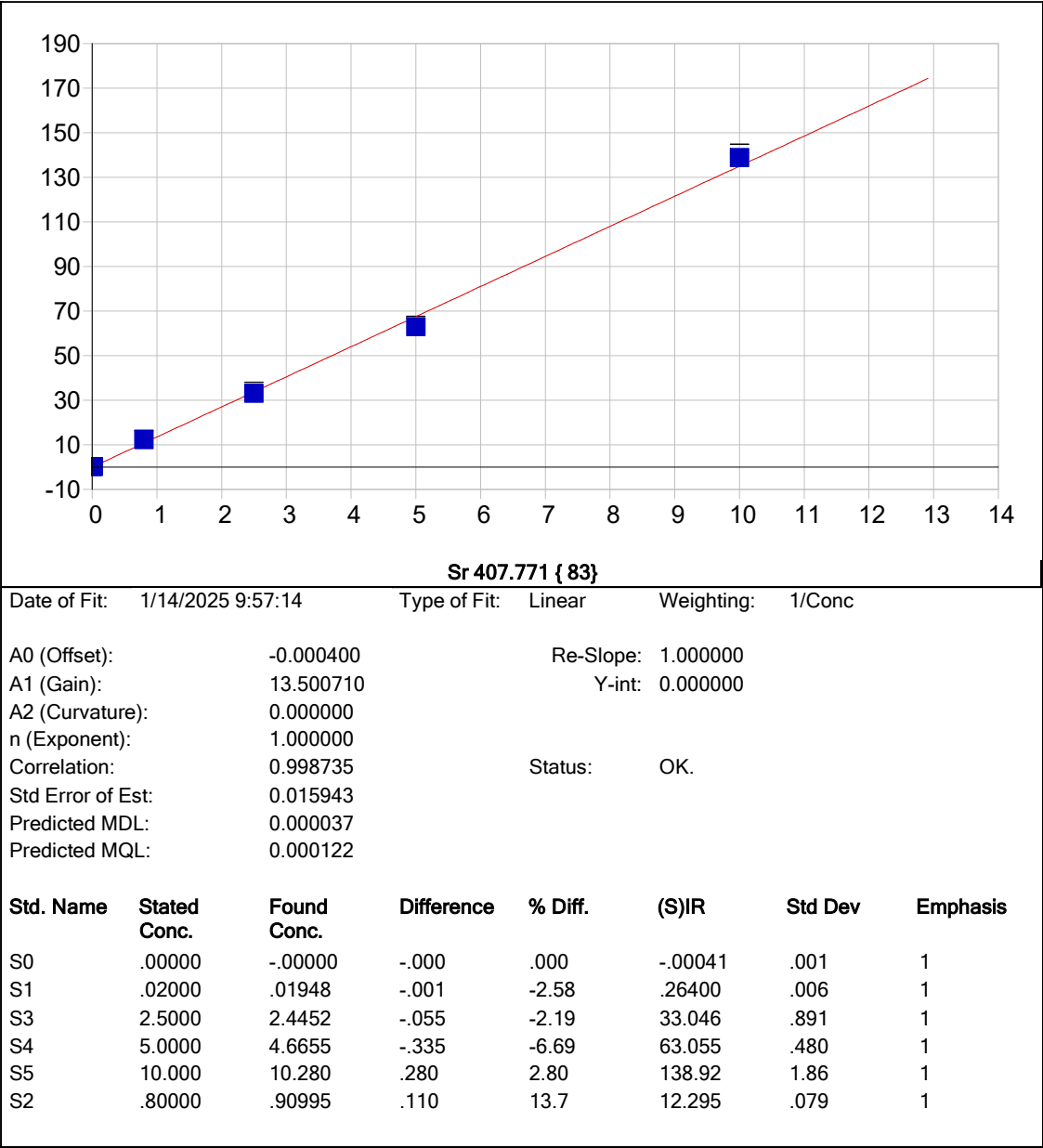


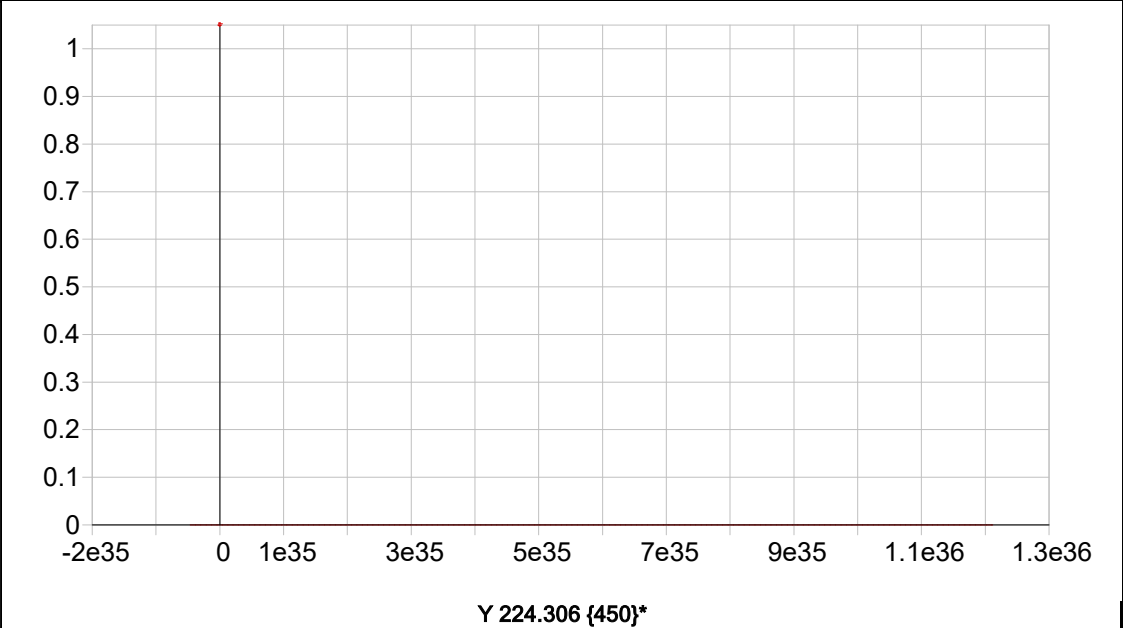




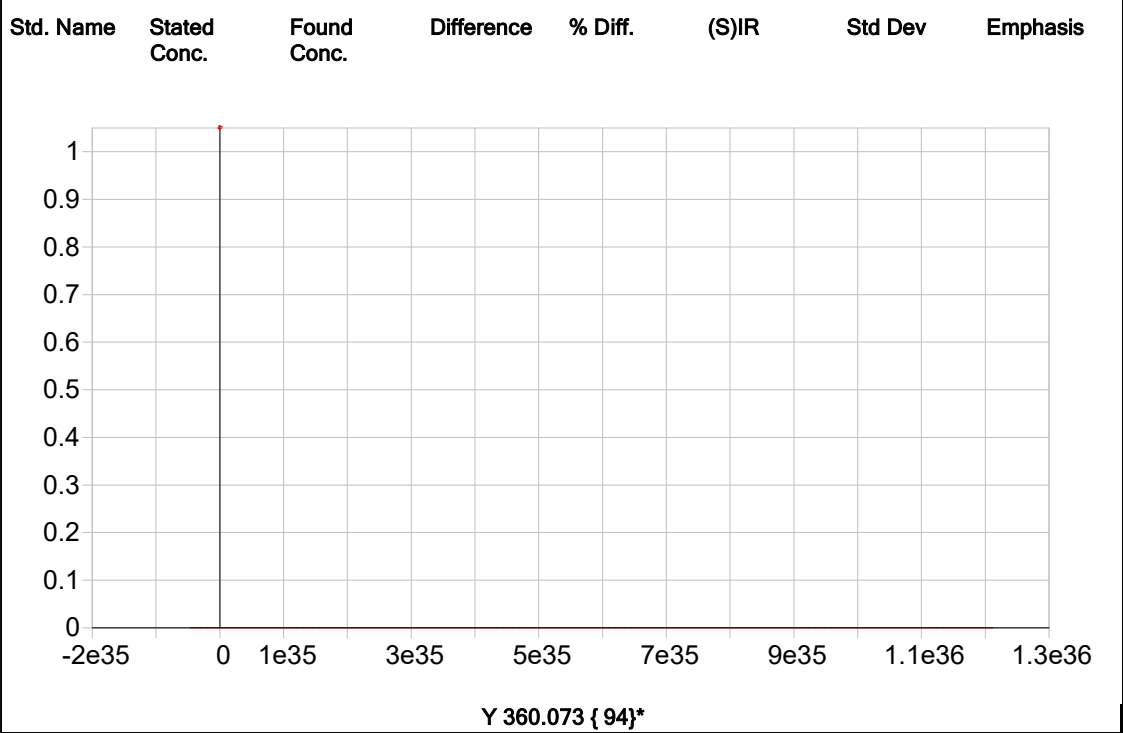




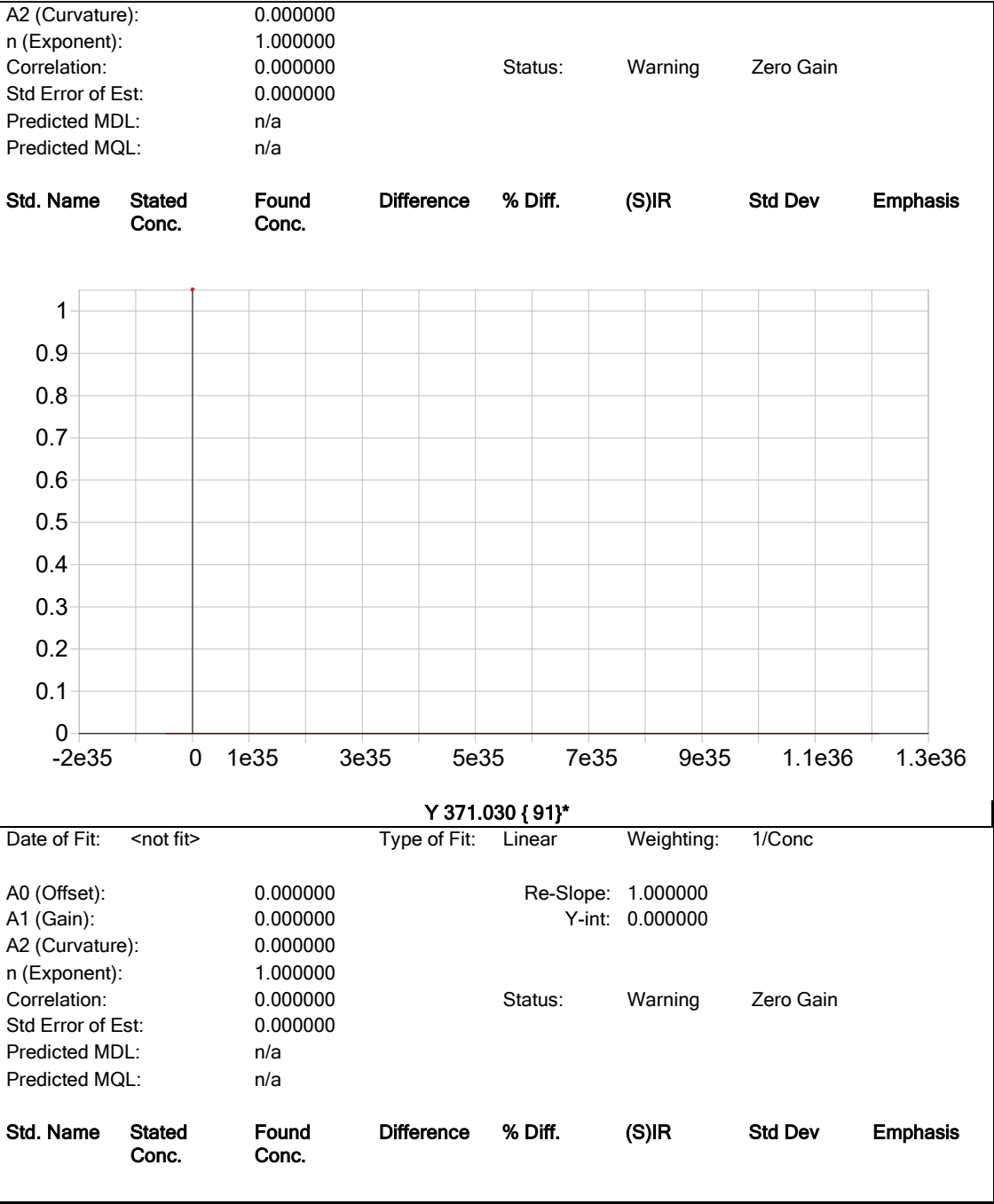


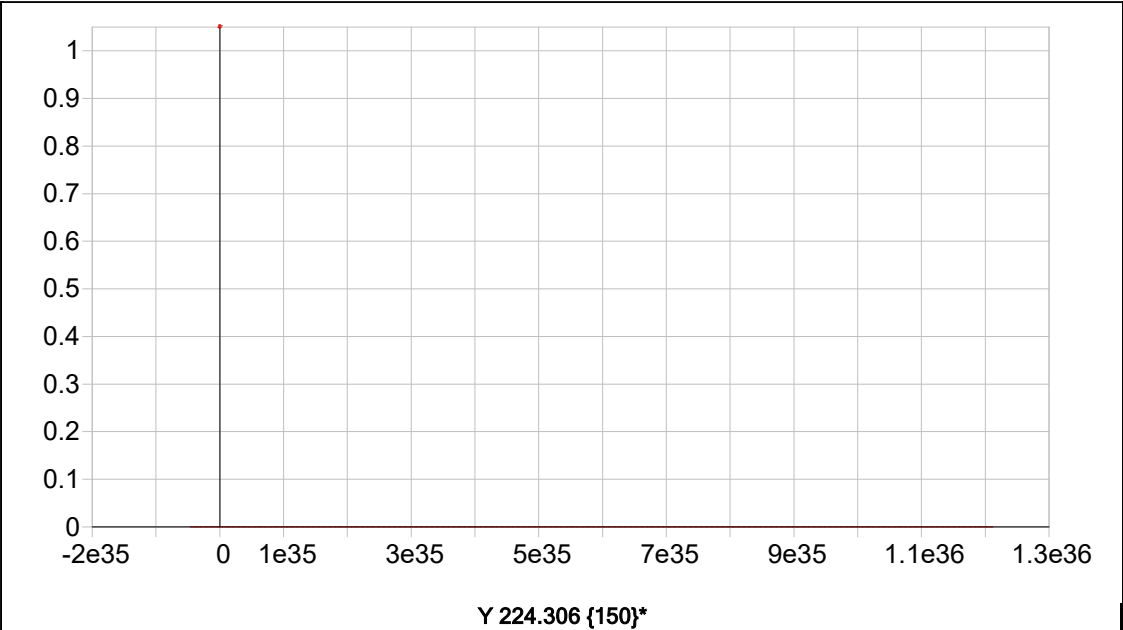


Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

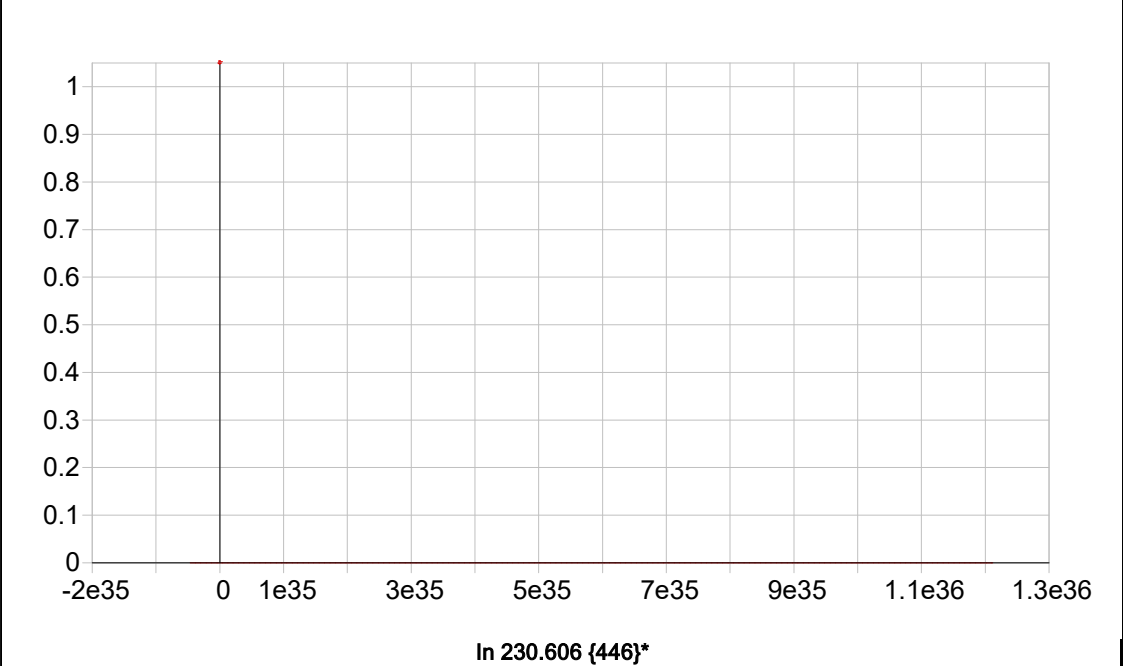


Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis





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



A2 (Curvature):		0.000000		Status:	Warning	Zero Gain	
n (Exponent):		1.000000					
Correlation:		0.000000					
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: 1/13/2025 15:53:59 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00011	-.00012	-.00010	.00045	.00019	-.00028	.03187	-.00036
Stddev	.00010	.00005	.00021	.00008	.00015	.00030	.00064	.00001
%RSD	92.463	42.715	219.11	16.651	76.882	105.77	2.0061	2.5416
#1	.00001	-.00007	-.00014	.00054	.00003	-.00045	.03144	-.00035
#2	-.00019	-.00018	-.00028	.00039	.00031	.00006	.03260	-.00037
#3	-.00015	-.00012	.00014	.00043	.00023	-.00046	.03155	-.00036
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	.00002	.00053	-.00001	-.00007	-.00022	.00000	-.00008	-.00020
Stddev	.00010	.00030	.00007	.00007	.00028	.00001	.00012	.00012
%RSD	618.18	55.850	1408.5	102.56	123.38	395.84	139.41	59.570
#1	-.00007	.00020	.00003	-.00014	-.00006	-.00001	-.00009	-.00029
#2	-.00001	.00062	-.00009	-.00007	-.00007	-.00000	-.00020	-.00006
#3	.00013	.00077	.00004	.00000	-.00054	.00001	.00004	-.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	.00005	-.00141	.00183	.00013	.00258	-.00036	.00704	-.00005
Stddev	.00010	.00003	.00006	.00003	.00045	.00011	.00027	.00012
%RSD	182.40	2.2493	3.1675	27.914	17.395	30.988	3.8478	245.47
#1	.00009	-.00138	.00189	.00009	.00262	-.00041	.00674	-.00008
#2	-.00006	-.00141	.00184	.00012	.00211	-.00023	.00712	.00008
#3	.00012	-.00144	.00177	.00016	.00301	-.00043	.00726	-.00015
Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.00029	.00245	.00015	-.00137	.00021	.00397	-.00041	
Stddev	.00003	.00028	.00002	.00003	.00004	.00036	.00063	
%RSD	10.008	11.398	16.531	2.5445	20.512	9.1272	152.58	
#1	.00029	.00215	.00012	-.00133	.00022	.00401	-.00012	
#2	.00026	.00250	.00017	-.00138	.00016	.00432	-.00114	
#3	.00032	.00270	.00015	-.00139	.00024	.00359	.00002	

Sample Name: S0 Acquired: 1/13/2025 15:53:59 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3073.8	63425.	13140.	2676.0	4674.5
Stddev	36.4	452.	331.	21.1	51.2
%RSD	1.1841	.71235	2.5153	.79033	1.0960
#1	3115.3	63162.	13408.	2657.8	4732.7
#2	3058.9	63167.	13241.	2670.9	4654.8
#3	3047.2	63947.	12771.	2699.2	4636.1

Sample Name: S1 Acquired: 1/13/2025 15:58:24 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00103	.00232	.00243	.00202	.00920	.00752	.35401	.02314
Stddev	.00003	.00014	.00023	.00021	.00009	.00023	.00751	.00052
%RSD	2.5941	5.9828	9.5106	10.633	1.0205	3.0496	2.1214	2.2419

#1	.00101	.00224	.00232	.00190	.00920	.00733	.34746	.02277
#2	.00106	.00224	.00227	.00189	.00929	.00746	.36221	.02374
#3	.00101	.00248	.00269	.00227	.00910	.00777	.35237	.02293

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	.01266	.10187	.00200	.02425	.01511	.00049	.01302	.03219
Stddev	.00015	.00218	.00002	.00024	.00017	.00001	.00026	.00083
%RSD	1.1921	2.1389	1.1768	1.0082	1.0978	2.0129	1.9989	2.5872

#1	.01267	.10054	.00198	.02451	.01505	.00050	.01273	.03125
#2	.01251	.10438	.00202	.02420	.01498	.00049	.01325	.03285
#3	.01281	.10068	.00199	.02403	.01530	.00048	.01307	.03247

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	.02345	.00115	.05363	.00454	.12264	.01116	.05474	.14176
Stddev	.00003	.00006	.00066	.00015	.00077	.00018	.00105	.00027
%RSD	.13057	4.8510	1.2226	3.2528	.63150	1.5737	1.9235	.18977

#1	.02348	.00110	.05292	.00439	.12324	.01095	.05361	.14197
#2	.02346	.00116	.05421	.00468	.12292	.01127	.05569	.14146
#3	.02342	.00121	.05376	.00455	.12177	.01125	.05492	.14185

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	.00498	.02014	.00223	-.00073	.00058	.02128	.26400	
Stddev	.00005	.00053	.00003	.00003	.00001	.00093	.00600	
%RSD	.93657	2.6309	1.3503	4.1551	2.0693	4.3817	2.2728	

#1	.00499	.01965	.00225	-.00072	.00057	.02053	.25791	
#2	.00493	.02070	.00225	-.00077	.00057	.02232	.26990	
#3	.00502	.02005	.00220	-.00071	.00059	.02100	.26418	

Sample Name: S1 Acquired: 1/13/2025 15:58:24 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3083.6	62214.	13138.	2638.7	4645.0
Stddev	11.8	281.	209.	15.1	21.1
%RSD	.38250	.45211	1.5904	.57170	.45388
#1	3070.4	62384.	13295.	2640.5	4621.3
#2	3093.1	61890.	12901.	2622.8	4661.6
#3	3087.1	62369.	13218.	2652.8	4652.1

Sample Name: S2 Acquired: 1/13/2025 16:02:48 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05040	.06215	.21168	.07643	.16816	.13322	6.5027	.18722
Stddev	.00117	.00133	.00555	.00171	.00435	.00090	.0533	.00201
%RSD	2.3126	2.1445	2.6197	2.2340	2.5846	.67908	.81999	1.0710

#1	.05164	.06358	.21754	.07823	.17264	.13402	6.5630	.18912
#2	.05026	.06192	.21098	.07622	.16789	.13224	6.4617	.18513
#3	.04932	.06095	.20652	.07483	.16396	.13341	6.4833	.18741

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	.99283	.24152	.03997	.38790	.16980	.00482	.30236	.07268
Stddev	.02655	.00231	.00014	.01009	.00428	.00003	.00180	.00039
%RSD	2.6738	.95703	.35271	2.6018	2.5189	.55242	.59479	.53716

#1	1.0218	.24379	.03981	.39880	.17442	.00479	.30408	.07310
#2	.98695	.23917	.04002	.38601	.16902	.00484	.30049	.07234
#3	.96972	.24161	.04007	.37888	.16597	.00481	.30252	.07258

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	.27930	.05835	.12461	.05654	1.3427	.02610	.46452	.66364
Stddev	.00725	.00006	.00054	.00073	.0042	.00033	.00433	.01660
%RSD	2.5950	.09818	.42945	1.2891	.30897	1.2644	.93286	2.5019

#1	.28714	.05835	.12407	.05736	1.3400	.02577	.46804	.68144
#2	.27791	.05829	.12514	.05596	1.3406	.02643	.45968	.66089
#3	.27284	.05840	.12463	.05630	1.3475	.02609	.46584	.64858

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	.11124	.44119	.00581	.02977	.02251	.84111	12.295
Stddev	.00271	.00329	.00004	.00080	.00056	.00672	.079
%RSD	2.4389	.74597	.72024	2.6740	2.4913	.79898	.64384

#1	.11414	.44446	.00579	.03065	.02310	.84886	12.370
#2	.11083	.43788	.00577	.02956	.02243	.83762	12.212
#3	.10876	.44123	.00585	.02910	.02199	.83685	12.303

Sample Name: S2 Acquired: 1/13/2025 16:02:48 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3042.9	61827.	12922.	2638.1	4498.8
Stddev	69.4	221.	106.	3.2	104.7
%RSD	2.2802	.35768	.81697	.12186	2.3263
#1	2969.7	62082.	12815.	2641.8	4387.0
#2	3051.3	61695.	13025.	2636.3	4514.9
#3	3107.6	61703.	12927.	2636.1	4594.4

Sample Name: S3 Acquired: 1/13/2025 16:06:55 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.13381	.16602	.56375	.20144	.44264	.35351	17.326	.50987
Stddev	.00064	.00081	.00331	.00133	.00223	.00870	.321	.00908
%RSD	.47598	.48551	.58667	.66169	.50362	2.4602	1.8553	1.7806

#1	.13320	.16532	.56222	.20076	.44170	.36356	17.695	.52023
#2	.13377	.16585	.56149	.20059	.44104	.34857	17.178	.50329
#3	.13447	.16690	.56755	.20298	.44519	.34842	17.105	.50609

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6578	.64124	.10534	1.0350	.44434	.01260	.79069	.19441
Stddev	.0140	.01442	.00104	.0059	.00295	.00009	.01939	.00434
%RSD	.52587	2.2486	.98672	.56606	.66317	.69916	2.4518	2.2334

#1	2.6515	.65775	.10436	1.0312	.44341	.01267	.81306	.19941
#2	2.6480	.63489	.10643	1.0321	.44197	.01262	.78025	.19158
#3	2.6738	.63109	.10525	1.0418	.44764	.01250	.77877	.19225

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	.74256	.15570	.32076	.15053	3.5820	.06968	1.2518	1.7399
Stddev	.00393	.00120	.00263	.00375	.0355	.00070	.0247	.0077
%RSD	.52959	.77051	.82099	2.4892	.99013	1.0082	1.9704	.44221

#1	.74099	.15489	.32052	.15480	3.5656	.06915	1.2803	1.7349
#2	.73965	.15708	.32351	.14894	3.6227	.07047	1.2377	1.7360
#3	.74703	.15512	.31826	.14783	3.5577	.06941	1.2374	1.7488

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	.29767	1.1607	.01474	.08417	.06150	2.1885	33.046
Stddev	.00133	.0285	.00016	.00064	.00027	.0574	.891
%RSD	.44669	2.4601	1.0605	.76610	.43991	2.6243	2.6971

#1	.29693	1.1934	.01461	.08377	.06122	2.2544	34.055
#2	.29687	1.1474	.01491	.08383	.06154	2.1622	32.368
#3	.29920	1.1412	.01471	.08492	.06175	2.1490	32.714

Sample Name: S3 Acquired: 1/13/2025 16:06:55 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3035.8	61567.	12697.	2606.4	4401.7
Stddev	10.6	452.	248.	23.6	16.6
%RSD	.34933	.73427	1.9539	.90734	.37724
#1	3036.7	61910.	12411.	2613.9	4402.9
#2	3045.9	61054.	12847.	2579.9	4417.7
#3	3024.7	61735.	12834.	2625.3	4384.5

Sample Name: S4 Acquired: 1/13/2025 16:11:10 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26234	.32499	1.0986	.39270	.86361	.70170	34.081	.99201
Stddev	.00119	.00243	.0075	.00206	.00390	.00053	.183	.00738
%RSD	.45537	.74763	.68542	.52481	.45143	.07585	.53719	.74391

#1	.26097	.32302	1.0905	.39047	.85912	.70202	33.870	.99506
#2	.26292	.32425	1.0997	.39453	.86612	.70199	34.191	.99737
#3	.26313	.32771	1.1055	.39311	.86560	.70109	34.183	.98359

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.2265	1.2665	.19936	2.0310	.85874	.02467	1.5509	.38879
Stddev	.0305	.0070	.00128	.0112	.00489	.00015	.0056	.00290
%RSD	.58407	.54988	.64436	.55342	.57002	.62451	.35834	.74684

#1	5.1927	1.2687	.19976	2.0184	.85310	.02469	1.5486	.38937
#2	5.2348	1.2722	.19792	2.0346	.86185	.02451	1.5573	.39136
#3	5.2520	1.2587	.20039	2.0400	.86127	.02481	1.5469	.38564

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	1.4504	.29996	.62828	.30095	6.8433	.13867	2.4510	3.3759
Stddev	.0087	.00193	.00823	.00115	.0372	.00153	.0229	.0181
%RSD	.60118	.64183	1.3105	.38048	.54365	1.1010	.93402	.53693

#1	1.4406	.30145	.62731	.30106	6.8647	.13878	2.4619	3.3552
#2	1.4534	.29779	.62057	.30204	6.8003	.13710	2.4664	3.3835
#3	1.4573	.30064	.63695	.29975	6.8648	.14014	2.4247	3.3890

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	.58449	2.3197	.02916	.17015	.12286	4.4829	63.055
Stddev	.00402	.0050	.00040	.00095	.00083	.0107	.480
%RSD	.68703	.21767	1.3746	.55634	.67450	.23748	.76118

#1	.58036	2.3230	.02906	.16917	.12197	4.4788	63.369
#2	.58474	2.3222	.02881	.17023	.12300	4.4749	63.293
#3	.58838	2.3139	.02960	.17105	.12360	4.4950	62.502

Sample Name: S4 Acquired: 1/13/2025 16:11:10 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2985.2	61575.	12476.	2567.0	4250.9
Stddev	13.6	326.	99.	14.6	20.7
%RSD	.45434	.52992	.79298	.56879	.48678
#1	3000.5	61439.	12432.	2560.2	4274.8
#2	2974.8	61948.	12406.	2583.7	4239.7
#3	2980.3	61339.	12589.	2557.0	4238.3

Sample Name: S5 Acquired: 1/13/2025 16:15:24 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.56555	.67643	2.3531	.84261	1.8556	1.5755	75.740	2.1399
Stddev	.00273	.00722	.0083	.00652	.0132	.0084	.915	.0116
%RSD	.48264	1.0666	.35085	.77343	.71202	.53065	1.2081	.54015

#1	.56403	.67415	2.3466	.83783	1.8461	1.5691	74.684	2.1270
#2	.56392	.67064	2.3503	.83996	1.8499	1.5723	76.282	2.1434
#3	.56870	.68451	2.3624	.85003	1.8707	1.5849	76.256	2.1494

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.209	2.7837	.41992	4.3727	1.8073	.05283	3.4325	.86229
Stddev	.041	.0060	.00129	.0197	.0115	.00027	.0208	.00359
%RSD	.36774	.21493	.30699	.45122	.63329	.50428	.60624	.41644

#1	11.183	2.7778	.41933	4.3583	1.7984	.05303	3.4123	.85910
#2	11.187	2.7837	.41904	4.3647	1.8033	.05253	3.4312	.86159
#3	11.256	2.7897	.42140	4.3952	1.8202	.05292	3.4539	.86618

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1031	.63941	1.3875	.66550	14.310	.30577	5.2916	7.1037
Stddev	.0121	.00208	.0078	.00271	.107	.00145	.0405	.0401
%RSD	.39135	.32569	.56011	.40700	.74911	.47501	.76438	.56444

#1	3.0940	.63766	1.3903	.66320	14.223	.30700	5.2453	7.0794
#2	3.0984	.63886	1.3787	.66481	14.277	.30417	5.3091	7.0818
#3	3.1169	.64172	1.3935	.66848	14.429	.30615	5.3204	7.1500

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	1.2494	5.1657	.06371	.37216	.27315	10.125	138.92
Stddev	.0055	.0101	.00038	.00169	.00154	.039	1.86
%RSD	.44051	.19584	.60146	.45468	.56529	.38083	1.3423

#1	1.2461	5.1593	.06342	.37083	.27234	10.117	136.77
#2	1.2464	5.1605	.06358	.37158	.27218	10.092	140.03
#3	1.2558	5.1774	.06415	.37406	.27493	10.167	139.96

Sample Name: S5 Acquired: 1/13/2025 16:15:24 Type: Cal
Method: NON EPA-6010-200.7(v2597) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2848.8	59438.	11780.	2442.9	3958.0
Stddev	13.5	173.	58.	22.8	18.3
%RSD	.47498	.29176	.49213	.93455	.46346
#1	2859.8	59492.	11844.	2460.4	3974.3
#2	2852.9	59578.	11767.	2451.2	3961.5
#3	2833.7	59244.	11730.	2417.1	3938.1

Sample Name: ICV01 Acquired: 1/13/2025 16:19:34 Type: Unk
Method: NON EPA-6010-200.7(v2597) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.010640	1.014338	.9783336	1.014797	.9734137	2.359985
Stddev	.006684	.011864	.0043563	.003906	.0051278	.009348
%RSD	.6613141	1.169599	.4452731	.3849383	.5267833	.3960975

#1	1.017957	1.026720	.9824939	1.019243	.9789100	2.368796
#2	1.009106	1.003071	.9787020	1.011916	.9725728	2.360981
#3	1.004857	1.013224	.9738048	1.013231	.9687584	2.350179

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4700978	.4685473	.4901467	9.273453	.5343609	.4948850
Stddev	.0026096	.0031030	.0031915	.054457	.0176000	.0030965
%RSD	.5551243	.6622549	.6511206	.5872341	3.293647	.6257071

#1	.4726016	.4702521	.4929698	9.334256	.5206606	.4977401
#2	.4702980	.4704242	.4907865	9.256938	.5542105	.4953217
#3	.4673939	.4649657	.4866838	9.229165	.5282117	.4915933

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5110114	10.08134	.4831225	5.414120	.4975104	.2576718
Stddev	.0028577	.30623	.0020161	.040460	.0026427	.0079431
%RSD	.5592260	3.037605	.4173082	.7473049	.5311777	3.082639

#1	.5140204	9.87701	.4835826	5.452243	.4995896	.2522923
#2	.5106800	10.43344	.4848688	5.418446	.4984051	.2667950
#3	.5083339	9.93359	.4809161	5.371671	.4945366	.2539283

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02941	.4586812	1.046156	9.930515	F 2.227779	2.399652
Stddev	.32696	.0013521	.030521	.301500	.007918	.015082
%RSD	3.260008	.2947735	2.917482	3.036093	.3554316	.6284911

#1	9.76096	.4599610	1.017179	9.719464	2.233155	2.415571
#2	10.39353	.4588158	1.078017	10.27582	2.231495	2.397809
#3	9.93372	.4572669	1.043273	9.79626	2.218686	2.385577

Sample Name: ICV01 Acquired: 1/13/2025 16:19:34 Type: Unk
Method: NON EPA-6010-200.7(v2597) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.330331	F 2.227358	F 2.016898	F .0069844	F -.011150	F -.000723
Stddev	.015927	.013186	.057687	.0010654	.001161	.000837
%RSD	.6834602	.5920200	2.860186	15.25459	10.40971	115.8336
#1	2.345144	2.241107	1.977857	.0061473	-.011167	-.000266
#2	2.332364	2.226149	2.083159	.0066222	-.009981	-.000214
#3	2.313485	2.214817	1.989678	.0081837	-.012303	-.001689

Elem	Sr4077
Units	ppm
Avg	F -.008769
Stddev	.000289
%RSD	3.297095
#1	-.008562
#2	-.009099
#3	-.008645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.903	60407.32	13373.25	2545.990	4467.808
Stddev	11.761	1757.49	84.97	68.850	19.226
%RSD	.3876599	2.909397	.6353696	2.704245	.4303212
#1	3021.429	61799.96	13279.54	2612.221	4449.735
#2	3035.489	58432.65	13394.93	2474.790	4465.680
#3	3044.790	60989.34	13445.28	2550.959	4488.010

Sample Name: LLICV01 Acquired: 1/13/2025 16:29:37 Type: Unk
Method: NON EPA-6010-200.7(v2598) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0194091	.0388084	.0113235	.0189537	.0502402	.1015402	.0908209
Stddev	.0011516	.0019494	.0001583	.0014355	.0009506	.0039803	.0018081
%RSD	5.933050	5.023045	1.398221	7.573719	1.892187	3.919874	1.990811

#1	.0206279	.0375067	.0112997	.0196062	.0491514	.1035067	.0928875
#2	.0183394	.0410496	.0111784	.0173079	.0506638	.1041545	.0900443
#3	.0192600	.0378688	.0114924	.0199471	.0509054	.0969595	.0895309

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056497	.0057162	2.006742	.0097553	.0287254	.0215150	.0969123
Stddev	.0000778	.0000712	.033316	.0003509	.0002814	.0003889	.0005581
%RSD	1.376530	1.245085	1.660210	3.597089	.9797855	1.807528	.5759059

#1	.0057395	.0056446	2.044338	.0094231	.0284096	.0219166	.0964875
#2	.0056036	.0057870	1.995007	.0097206	.0288171	.0214883	.0975444
#3	.0056060	.0057170	1.980881	.0101223	.0289496	.0211402	.0967051

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198215	1.995182	.0390073	.0099958	1.871968	.0363518	.0405000
Stddev	.0004206	.023225	.0002362	.0000619	.010977	.0016091	.0002594
%RSD	2.121786	1.164044	.6056350	.6190495	.5864091	4.426332	.6406061

#1	.0202455	2.021875	.0391803	.0099260	1.882385	.0381760	.0407989
#2	.0194044	1.979596	.0387381	.0100176	1.873014	.0357452	.0403329
#3	.0198146	1.984076	.0391034	.0100439	1.860505	.0351342	.0403682

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.888969	.0961287	.1995035	.0382147	.0363466	.3320140	.0189424
Stddev	.027745	.0009955	.0008949	.0003674	.0006575	.0047651	.0009369
%RSD	1.468813	1.035611	.4485640	.9614748	1.808953	1.435217	4.946331

#1	1.872957	.0972519	.1991667	.0378016	.0371037	.3357480	.0189263
#2	1.921007	.0957790	.1988258	.0385051	.0359190	.3266471	.0180136
#3	1.872944	.0953552	.2005179	.0383373	.0360170	.3336469	.0198873

Sample Name: LLICV01 Acquired: 1/13/2025 16:29:37 Type: Unk
 Method: NON EPA-6010-200.7(v2598) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0191675	.0175741	.0188403
Stddev	.0029470	.0009034	.0001847
%RSD	15.37513	5.140523	.9805796
#1	.0171905	.0178557	.0190463
#2	.0177573	.0183031	.0187850
#3	.0225546	.0165634	.0186894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3104.994	64344.86	13194.72	2716.626	4646.281
Stddev	11.810	258.50	152.75	23.071	15.994
%RSD	.3803444	.4017368	1.157661	.8492541	.3442384
#1	3112.535	64151.62	13020.30	2695.639	4658.364
#2	3111.064	64244.45	13259.24	2712.910	4652.336
#3	3091.384	64638.49	13304.63	2741.330	4628.144

Sample Name: ICB01 Acquired: 1/13/2025 16:33:49 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000359	-.001753	-.000589	-.001147	.0010802	.0037223	-.000060
Stddev	.000554	.000954	.000448	.001879	.0008760	.0037653	.000573
%RSD	154.3002	54.42381	76.07012	163.8192	81.09980	101.1568	951.0148

#1	-.000091	-.002668	-.000234	.001014	.0017621	.0063123	-.000583
#2	-.000997	-.000764	-.001092	-.002063	.0013862	.0054515	.000552
#3	.000010	-.001827	-.000440	-.002393	.0000922	-.000597	-.000149

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000018	.0000140	-.005123	-.000124	.0000044	-.000416	-.002619
Stddev	.000040	.0000360	.004618	.000281	.0003363	.000169	.002189
%RSD	229.0567	256.6233	90.15897	226.6403	7560.439	40.54234	83.58693

#1	.000021	.0000208	-.006319	-.000048	-.000348	-.000518	-.001083
#2	-.000014	-.000025	-.000024	-.000435	.000322	-.000221	-.005126
#3	-.000060	.000046	-.009025	.000112	.000040	-.000509	-.001649

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000004	.0011467	-.000326	-.000088	-.010840	-.000688	-.000067
Stddev	.000232	.0025818	.000163	.000155	.001661	.001639	.000155
%RSD	5491.494	225.1472	49.87859	175.6213	15.32298	238.1457	232.4160

#1	.000183	.0038225	-.000304	-.000120	-.012295	-.002575	-.000134
#2	.000069	.0009474	-.000176	.000080	-.009030	.000391	-.000176
#3	-.000264	-.001330	-.000499	-.000225	-.011194	.000118	.000110

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004182	-.005308	-.000193	.0000348	.0000839	-.003975	-.001102
Stddev	.027793	.000640	.000174	.0005662	.0005345	.002662	.000326
%RSD	664.6110	12.06551	90.09174	1626.535	636.8147	66.97282	29.58875

#1	.018195	-.006048	-.000024	-.000055	-.000533	-.003874	-.001478
#2	-.035293	-.004930	-.000184	-.000481	.000403	-.001364	-.000924
#3	.004553	-.004947	-.000371	.000641	.000382	-.006685	-.000903

Sample Name: ICB01 Acquired: 1/13/2025 16:33:49 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000165	-.000246	.0000144
Stddev	.003801	.000317	.0000096
%RSD	2303.263	128.5891	66.95080

#1	.004092	-.000562	.0000117
#2	-.001366	-.000247	.0000064
#3	-.003220	.000071	.0000251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3075.912	63745.09	13146.13	2691.761	4643.990
Stddev	11.665	260.99	244.35	13.517	15.064
%RSD	.3792446	.4094288	1.858713	.5021656	.3243750

#1	3079.683	63584.62	13426.52	2682.119	4649.874
#2	3085.226	63604.42	13033.20	2685.953	4655.225
#3	3062.828	64046.25	12978.67	2707.211	4626.873

Sample Name: CRI01 Acquired: 1/13/2025 16:38:10 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0195290	.0382064	.0107562	.0191147	.0499051	.0996883	.0897250
Stddev	.0019174	.0006166	.0001511	.0010739	.0012902	.0059665	.0010792
%RSD	9.817981	1.613981	1.404455	5.618231	2.585313	5.985193	1.202768

#1	.0200240	.0376627	.0108883	.0182042	.0512170	.1040635	.0909121
#2	.0211503	.0388764	.0107887	.0202990	.0486378	.0928917	.0894598
#3	.0174127	.0380801	.0105915	.0188409	.0498606	.1021096	.0888032

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056292	.0057579	1.901933	.0096807	.0285712	.0216724	.0962050
Stddev	.0000599	.0000973	.014426	.0001153	.0002584	.0002058	.0031880
%RSD	1.063389	1.690427	.7584999	1.191190	.9043623	.9494318	3.313782

#1	.0056978	.0058367	1.918421	.0097050	.0284325	.0215581	.0975051
#2	.0055874	.0057879	1.891633	.0097819	.0288693	.0219099	.0985375
#3	.0056025	.0056491	1.895746	.0095552	.0284118	.0215492	.0925723

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195166	1.990879	.0386644	.0099973	1.924728	.0374369	.0420406
Stddev	.0002854	.018931	.0003405	.0002151	.014150	.0005812	.0000267
%RSD	1.462411	.9508673	.8806925	2.151423	.7351721	1.552418	.0635630

#1	.0197591	2.012734	.0388956	.0097527	1.939081	.0376252	.0420117
#2	.0195886	1.980302	.0388243	.0101569	1.910790	.0367850	.0420645
#3	.0192021	1.979600	.0382734	.0100823	1.924314	.0379007	.0420454

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.918007	.0893291	.1998934	.0381241	.0368166	.3416760	.0154320
Stddev	.027332	.0013238	.0018287	.0005664	.0008968	.0058846	.0015317
%RSD	1.425034	1.481899	.9148165	1.485718	2.435821	1.722274	9.925739

#1	1.944301	.0907169	.2006614	.0378261	.0378378	.3481264	.0137316
#2	1.919979	.0880804	.2012128	.0387773	.0361575	.3366007	.0158607
#3	1.889743	.0891900	.1978059	.0377688	.0364545	.3403010	.0167037

Sample Name: CRI01 Acquired: 1/13/2025 16:38:10 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0189185	.0179511	.0190236
Stddev	.0008397	.0005586	.0000811
%RSD	4.438655	3.111704	.4261631
#1	.0198823	.0183203	.0191069
#2	.0183445	.0182245	.0189450
#3	.0185288	.0173085	.0190188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3095.132	63117.41	13214.56	2693.182	4640.983
Stddev	15.493	374.80	83.94	11.456	24.681
%RSD	.5005565	.5938170	.6352112	.4253540	.5318063
#1	3088.741	62742.40	13121.84	2680.292	4632.614
#2	3083.857	63492.01	13285.37	2702.198	4621.575
#3	3112.798	63117.81	13236.47	2697.057	4668.761

Sample Name: ICSA01 Acquired: 1/13/2025 16:42:28 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2:
Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022847	.0119383	.0081686	-.019602	-.001006	238.8804
Stddev	.0007655	.0012610	.0005057	.003085	.000883	2.2492
%RSD	33.50581	10.56300	6.190615	15.74036	87.84701	.9415414

#1	.0029091	.0133831	.0085331	-.020646	-.001928	241.4775
#2	.0014307	.0110594	.0083814	-.016130	-.000923	237.5803
#3	.0025143	.0113723	.0075913	-.022031	-.000167	237.5834

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041414	.0012427	.0008473	222.9835	.0550636	.0016730
Stddev	.0006607	.0000408	.0002835	1.3816	.0015072	.0003627
%RSD	15.95392	3.282849	33.45948	.6195870	2.737215	21.67630

#1	.0048868	.0012895	.0010296	224.5199	.0549717	.0017628
#2	.0036277	.0012152	.0009917	222.5875	.0536044	.0012739
#3	.0039097	.0012233	.0005207	221.8432	.0566147	.0019823

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057725	96.27626	.0055291	244.8830	.0020611	-.007274
Stddev	.0024583	2.06194	.0005151	1.2784	.0003234	.000456
%RSD	42.58682	2.141693	9.315941	.5220448	15.69231	6.262790

#1	.0053574	96.71642	.0058130	246.2136	.0023285	-.007113
#2	.0084120	94.02978	.0049345	244.7712	.0017016	-.006921
#3	.0035482	98.08258	.0058398	243.6641	.0021533	-.007788

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0376962	.0069547	.0056268	.0241080	.0387116	.0005248
Stddev	.0040330	.0022117	.0001600	.0078051	.0018456	.0007617
%RSD	10.69881	31.80102	2.844505	32.37548	4.767649	145.1510

#1	.0356024	.0056128	.0058062	.0224125	.0385012	.0006534
#2	.0351407	.0057439	.0055756	.0326215	.0369802	.0012140
#3	.0423456	.0095074	.0054986	.0172901	.0406534	-.000293

Sample Name: ICSA01 Acquired: 1/13/2025 16:42:28 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002450	-.001837	.0200831	.0003623	-.013938	F -.035477
Stddev	.000548	.000075	.0046079	.0020069	.005453	.000188
%RSD	22.37096	4.106329	22.94408	553.9642	39.12034	.5307290
#1	-.002968	-.001861	.0161130	.0020267	-.007939	-.035534
#2	-.002505	-.001752	.0190004	.0009265	-.015281	-.035630
#3	-.001876	-.001897	.0251359	-.001866	-.018594	-.035266

Elem	Sr4077
Units	ppm
Avg	-.001783
Stddev	.002132
%RSD	119.5184
#1	-.001593
#2	.000247
#3	-.004004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2725.416	55719.24	12528.58	2381.591	3709.680
Stddev	5.373	1085.00	96.96	47.995	8.632
%RSD	.1971290	1.947268	.7738931	2.015256	.2326859
#1	2719.275	55489.46	12429.29	2364.426	3699.808
#2	2727.726	56900.74	12533.41	2435.809	3713.423
#3	2729.247	54767.54	12623.03	2344.538	3715.809

Sample Name: ICSAB01 Acquired: 1/13/2025 16:46:51 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1034449	.0958518	.0525996	.0291076	.5640697	235.9440
Stddev	.0006114	.0019100	.0026510	.0043487	.0016300	1.8666
%RSD	.5910507	1.992689	5.039995	14.94014	.2889712	.7911340

#1	.1028106	.0970997	.0514022	.0341291	.5635261	237.9485
#2	.1040305	.0936530	.0507586	.0265870	.5627810	235.6277
#3	.1034935	.0968027	.0556381	.0266068	.5659021	234.2557

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4644137	.4670464	.9479877	223.5164	.5361985	.4796611
Stddev	.0034806	.0057351	.0040119	2.4571	.0031314	.0026867
%RSD	.7494698	1.227952	.4232019	1.099310	.5840036	.5601241

#1	.4676017	.4733382	.9438714	226.1081	.5398116	.4767658
#2	.4649393	.4656897	.9482055	223.2203	.5345142	.4801439
#3	.4607002	.4621112	.9518863	221.2207	.5342697	.4820737

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4590422	96.70195	.4574714	243.5657	.9448615	.2016116
Stddev	.0023649	.45489	.0044377	2.8830	.0041024	.0009200
%RSD	.5151742	.4704092	.9700401	1.183660	.4341812	.4563039

#1	.4577010	96.88724	.4619980	246.6172	.9403734	.2026720
#2	.4576529	97.03496	.4572876	243.1924	.9457930	.2011366
#3	.4617728	96.18365	.4531284	240.8876	.9484180	.2010263

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237711	.4529742	1.027440	.0146506	.9421576	.9722298
Stddev	.0065450	.0028660	.002732	.0117862	.0109046	.0029944
%RSD	27.53329	.6327115	.2658805	80.44870	1.157404	.3079951

#1	.0267320	.4557891	1.030223	.0023248	.9543427	.9707968
#2	.0162689	.4530740	1.024762	.0258106	.9388130	.9702211
#3	.0283124	.4500596	1.027334	.0158163	.9333170	.9756714

Sample Name: ICSAB01 Acquired: 1/13/2025 16:46:51 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9675607	.9242094	F .8440049	F .0111629	F -.018388	F -.037611
Stddev	.0046600	.0092788	.0099536	.0025918	.003727	.001232
%RSD	.4816252	1.003973	1.179331	23.21831	20.27016	3.275093
#1	.9625570	.9333395	.8542286	.0085480	-.022622	-.038968
#2	.9717765	.9245001	.8434407	.0112095	-.015600	-.037304
#3	.9683486	.9147887	.8343454	.0137311	-.016942	-.036562

Elem	Sr4077
Units	ppm
Avg	F -.003951
Stddev	.000522
%RSD	13.22326
#1	-.003359
#2	-.004350
#3	-.004143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2807.968	56269.94	12519.76	2361.769	3837.029
Stddev	4.563	197.07	144.42	5.321	8.891
%RSD	.1625172	.3502229	1.153552	.2252937	.2317233
#1	2810.856	56063.96	12361.56	2357.745	3846.530
#2	2810.340	56289.16	12553.18	2367.802	3835.648
#3	2802.707	56456.69	12644.54	2359.760	3828.909

Sample Name: CCV01 Acquired: 1/13/2025 16:51:02 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.679241	4.756534	4.731902	4.676118	4.683397	9.185200	9.430719
Stddev	.045439	.098070	.046185	.046366	.048039	.078453	.053082
%RSD	.9710722	2.061792	.9760400	.9915569	1.025730	.8541287	.5628637

#1	4.717944	4.869634	4.776006	4.717517	4.723331	9.262139	9.491779
#2	4.690570	4.704884	4.735815	4.684820	4.696772	9.188146	9.395556
#3	4.629210	4.695083	4.683884	4.626017	4.630088	9.105315	9.404822

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2362050	2.368445	23.37155	.9521721	2.363364	1.184443	4.716653
Stddev	.0016326	.022921	.21823	.0073962	.023752	.010832	.042512
%RSD	.6911967	.9677616	.9337371	.7767700	1.004993	.9145104	.9013099

#1	.2380724	2.391495	23.60997	.9475701	2.387518	1.192771	4.682677
#2	.2354947	2.368184	23.32298	.9607036	2.362537	1.188360	4.764324
#3	.2350478	2.345656	23.18169	.9482425	2.340037	1.172198	4.702959

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.304653	23.16771	2.366650	1.180017	23.06608	2.333656	2.384552
Stddev	.023253	.19678	.023338	.008096	.21467	.022874	.017213
%RSD	1.008939	.8493616	.9861071	.6861012	.9306609	.9801720	.7218505

#1	2.330944	23.36749	2.389770	1.172744	22.96170	2.355895	2.372102
#2	2.296227	23.16156	2.367079	1.188740	23.31298	2.334877	2.404194
#3	2.286788	22.97408	2.343101	1.178565	22.92357	2.310196	2.377359

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.26775	4.734344	4.768859	4.730426	4.646287	4.599562	4.700236
Stddev	.23579	.030501	.048620	.052592	.040627	.043815	.060629
%RSD	1.013356	.6442515	1.019533	1.111786	.8743898	.9525987	1.289908

#1	23.14164	4.766923	4.812085	4.787152	4.686539	4.563641	4.766369
#2	23.53977	4.729641	4.778271	4.720839	4.647025	4.648378	4.687060
#3	23.12183	4.706468	4.716221	4.683286	4.605296	4.586666	4.647278

Sample Name: CCV01 Acquired: 1/13/2025 16:51:02 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.617147	4.617970	4.617050
Stddev	.040749	.038690	.051290
%RSD	.8825675	.8378142	1.110878
#1	4.658366	4.650676	4.670098
#2	4.616192	4.627975	4.567721
#3	4.576884	4.575261	4.613330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3020.670	62194.70	12527.47	2589.709	4303.199
Stddev	23.654	293.22	116.12	17.840	37.369
%RSD	.7830574	.4714551	.9268955	.6888619	.8684075
#1	3003.980	62361.35	12393.42	2603.183	4269.587
#2	3010.291	61856.14	12592.07	2569.478	4296.573
#3	3047.739	62366.63	12596.91	2596.466	4343.439

Sample Name: CCB01 Acquired: 1/13/2025 17:04:31 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001530	-.000133	-.001038	-.002208	-.000251	.0028260	-.002944
Stddev	.000648	.000817	.000346	.002572	.000913	.0027710	.000342
%RSD	42.33690	614.5625	33.31424	116.5129	363.9597	98.05443	11.61947
#1	-.001377	.000788	-.001327	-.000695	-.001231	-.000351	-.003338
#2	-.000973	-.000415	-.001131	-.000750	-.000096	.004745	-.002769
#3	-.002241	-.000772	-.000655	-.005178	.000575	.004084	-.002724
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000157	-.000054	.0046636	.0001220	.0000445	-.000158	-.001832
Stddev	.0000141	.000055	.0079543	.0002657	.0001547	.000280	.000815
%RSD	90.06185	100.8652	170.5610	217.7544	347.4511	177.0608	44.48341
#1	.0000076	-.000098	.0115194	.0004250	.0002003	.000083	-.002760
#2	.0000319	.000007	.0065292	.0000121	.0000422	-.000092	-.001502
#3	.0000074	-.000072	-.004058	-.000071	-.000109	-.000465	-.001234
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003785	.0010174	-.000117	.0002812	-.014077	-.000706	-.000020
Stddev	.0000947	.0036097	.000175	.0003925	.004369	.001280	.000092
%RSD	25.03434	354.8054	149.4868	139.5570	31.03297	181.3915	459.6644
#1	.0004130	.0027429	-.000319	.0000291	-.009751	-.001120	-.000000
#2	.0002713	-.003131	-.000028	.0000812	-.018487	-.001727	.000060
#3	.0004512	.003440	-.000004	.0007334	-.013993	.000730	-.000120
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033557	-.005664	-.000205	-.000223	.0000103	-.001594	-.001194
Stddev	.017349	.000444	.000219	.000739	.0004897	.001335	.000731
%RSD	51.69953	7.846610	106.7816	331.8594	4750.084	83.74001	61.22638
#1	-.026975	-.006172	-.000451	.000142	.0005629	-.001398	-.001340
#2	-.053234	-.005347	-.000032	.000263	-.000162	-.003016	-.000401
#3	-.020462	-.005474	-.000132	-.001073	-.000370	-.000368	-.001841

Sample Name: CCB01 Acquired: 1/13/2025 17:04:31 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002784	-.000622	-.000005
Stddev	.002348	.000285	.000029
%RSD	84.31805	45.86193	624.7681
#1	-.005297	-.000904	-.000035
#2	-.000647	-.000628	.000023
#3	-.002408	-.000334	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3180.505	63217.25	13187.01	2688.829	4870.247
Stddev	12.441	860.28	214.54	35.979	17.577
%RSD	.3911727	1.360827	1.626893	1.338074	.3609084
#1	3166.652	62360.86	13378.16	2650.663	4851.569
#2	3184.137	63209.52	13227.89	2693.699	4872.708
#3	3190.727	64081.36	12954.97	2722.124	4886.463

Sample Name: Q1018-01 Acquired: 1/13/2025 17:08:51 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001488	-.006544	-.000110	.0009811	.0025802	.0309935	.3304833
Stddev	.002005	.000820	.000719	.0010792	.0005232	.0025603	.0066411
%RSD	134.7402	12.52750	656.2025	110.0058	20.27621	8.260783	2.009502

#1	-.002077	-.006940	-.000137	.0022023	.0020033	.0301933	.3379095
#2	-.003132	-.007090	.000623	.0001556	.0027135	.0338583	.3251141
#3	.000745	-.005601	-.000815	.0005853	.0030238	.0289288	.3284263

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001034	.0008470	13.38488	.0044227	.0007073	.0033380	4.219013
Stddev	.0000252	.0000548	.29888	.0005462	.0000724	.0001769	.007622
%RSD	24.36970	6.465357	2.232956	12.34926	10.23784	5.300736	.1806584

#1	.0001321	.0007976	13.72992	.0049007	.0006457	.0032931	4.211204
#2	.0000845	.0009059	13.21883	.0045401	.0006892	.0035331	4.226433
#3	.0000938	.0008375	13.20590	.0038274	.0007871	.0031879	4.219401

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0585762	2.368096	.0080266	-.000140	293.2297	.0006119	.3412192
Stddev	.0012869	.042385	.0001738	.000493	1.4869	.0010195	.0024082
%RSD	2.197021	1.789832	2.165238	352.6000	.5070808	166.6064	.7057705

#1	.0600601	2.416941	.0082229	.000420	291.5381	-.000008	.3394589
#2	.0579029	2.346341	.0078922	-.000509	294.3299	.000055	.3439637
#3	.0577656	2.341007	.0079647	-.000332	293.8212	.001789	.3402351

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.956232	.1174938	.0006098	-.000983	-.000614	2.635075	.0163237
Stddev	.058858	.0023787	.0001106	.000151	.000313	.018142	.0018645
%RSD	.7397781	2.024505	18.13599	15.38715	50.86862	.6884949	11.42198

#1	7.898313	.1202402	.0006364	-.000863	-.000841	2.622855	.0148537
#2	8.015987	.1161507	.0004884	-.001152	-.000744	2.655921	.0156965
#3	7.954396	.1160904	.0007047	-.000932	-.000258	2.626449	.0184209

Sample Name: Q1018-01 Acquired: 1/13/2025 17:08:51 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.526470	-.000086	.1034504
Stddev	.001626	.000138	.0024262
%RSD	.1065108	159.3344	2.345229
#1	1.527724	-.000239	.1062518
#2	1.524633	-.000049	.1020558
#3	1.527053	.000028	.1020435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2911.151	59127.28	13304.56	2459.933	4180.763
Stddev	9.480	549.17	310.35	18.194	9.947
%RSD	.3256285	.9287916	2.332656	.7396004	.2379195
#1	2919.148	59351.12	12953.04	2463.217	4189.840
#2	2913.627	58501.54	13419.97	2440.321	4182.320
#3	2900.680	59529.18	13540.68	2476.261	4170.130

Sample Name: Q1033-01 Acquired: 1/13/2025 17:13:16 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006771	-.009270	.0003829	.0021537	.0030480	1.504556
Stddev	.002094	.001331	.0009902	.0023153	.0009239	.043807
%RSD	30.92645	14.35935	258.6215	107.4997	30.31004	2.911656

#1	-.004826	-.009782	.0006829	.0015983	.0021550	1.538869
#2	-.008987	-.010269	.0011884	.0046962	.0039999	1.519586
#3	-.006498	-.007759	-.000723	.0001667	.0029892	1.455212

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1313701	-.000139	-.000204	208.0553	.0068548	.0013476
Stddev	.0036372	.000007	.000050	4.2828	.0002525	.0001803
%RSD	2.768688	5.137803	24.57181	2.058478	3.683779	13.37909

#1	.1345601	-.000137	-.000148	211.8343	.0067111	.0015549
#2	.1321411	-.000133	-.000221	208.9282	.0067069	.0012601
#3	.1274092	-.000147	-.000244	203.4033	.0071463	.0012277

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044670	2.309832	.7881309	34.45157	.0042706	-.000493
Stddev	.0001251	.029531	.0155643	.63258	.0001987	.000335
%RSD	2.800646	1.278496	1.974835	1.836129	4.652704	67.97683

#1	.0043875	2.339242	.8012838	34.97417	.0041619	-.000498
#2	.0046112	2.310074	.7921608	34.63222	.0041500	-.000155
#3	.0044022	2.280181	.7709480	33.74832	.0045000	-.000825

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	202.8341	.0054423	.0381634	9.975103	.1525944	.0493047
Stddev	.1862	.0009101	.0005112	.024696	.0035293	.0007370
%RSD	.0918046	16.72333	1.339627	.2475719	2.312853	1.494685

#1	202.8659	.0051521	.0375797	9.980392	.1558300	.0486708
#2	202.6340	.0064621	.0383790	9.948191	.1531223	.0491300
#3	203.0024	.0047126	.0385315	9.996725	.1488309	.0501133

Sample Name: Q1033-01 Acquired: 1/13/2025 17:13:16 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069214	.0530798	F 15.82951	.1998098	F 50.66264	-.029268
Stddev	.0002659	.0034165	.03570	.0032850	.33252	.000163
%RSD	3.842085	6.436514	.2255432	1.644086	.6563379	.5561923
#1	.0072150	.0559752	15.78836	.1986081	50.33539	-.029417
#2	.0066966	.0539526	15.85231	.1972948	50.65234	-.029292
#3	.0068527	.0493116	15.84785	.2035265	51.00018	-.029094

Elem	Sr4077
Units	ppm
Avg	1.048583
Stddev	.029250
%RSD	2.789490
#1	1.074743
#2	1.054004
#3	1.017001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.693	58723.10	12991.23	2411.052	3956.207
Stddev	19.323	327.27	248.10	9.754	25.404
%RSD	.6981491	.5573130	1.909784	.4045629	.6421210
#1	2785.188	59079.10	12784.43	2419.993	3976.570
#2	2770.936	58654.87	12922.92	2412.512	3964.311
#3	2746.954	58435.32	13266.33	2400.649	3927.740

Sample Name: Q1018-02 Acquired: 1/13/2025 17:17:48 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012801	-.007850	-.001622	.0024200	.0051213	.0307149	.1370546
Stddev	.001617	.000389	.000493	.0020054	.0004062	.0089757	.0016736
%RSD	12.62838	4.957739	30.37358	82.87115	7.931783	29.22246	1.221127
#1	-.011541	-.008147	-.001593	.0019422	.0049587	.0315809	.1363486
#2	-.012239	-.007992	-.001145	.0006965	.0048216	.0392262	.1389655
#3	-.014624	-.007409	-.002129	.0046211	.0055836	.0213377	.1358497
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000173	-.000036	5.537765	.0022102	.0001369	.0044851	.0311100
Stddev	.000013	.000053	.066150	.0003451	.0001288	.0003285	.0004285
%RSD	7.392449	148.7282	1.194532	15.61341	94.07144	7.325299	1.377251
#1	-.000188	.000011	5.503473	.0022269	.0002715	.0041391	.0311430
#2	-.000165	-.000094	5.614021	.0025467	.0001243	.0047929	.0315210
#3	-.000167	-.000024	5.495802	.0018571	.0000149	.0045234	.0306660
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168779	.3330686	.0030158	.0001360	265.9150	-.000613	4.560990
Stddev	.0002503	.0098446	.0001447	.0001603	4.1276	.000414	.045291
%RSD	1.483217	2.955713	4.798781	117.8715	1.552237	67.59559	.9930088
#1	.0167279	.3232796	.0031398	.0000183	262.2944	-.001005	4.510226
#2	.0171669	.3429678	.0030508	.0003185	270.4097	-.000655	4.597261
#3	.0167389	.3329584	.0028568	.0000711	265.0410	-.000179	4.575482
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.159433	.1802584	.0163468	-.000334	-.000150	.1005171	2.510688
Stddev	.039732	.0022346	.0000794	.000916	.000667	.0096739	.010548
%RSD	1.257583	1.239669	.4859558	274.0121	444.5565	9.624133	.4201157
#1	3.124724	.1789939	.0163430	-.001169	-.000499	.0897137	2.504628
#2	3.202771	.1828385	.0162693	.000646	.000619	.1083782	2.522868
#3	3.150804	.1789427	.0164281	-.000480	-.000570	.1034594	2.504569

Sample Name: Q1018-02 Acquired: 1/13/2025 17:17:48 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.931568	.0012101	.0034039
Stddev	.005237	.0001140	.0000306
%RSD	.2711224	9.420645	.8988495
#1	1.926086	.0010801	.0034182
#2	1.936520	.0012932	.0034248
#3	1.932097	.0012569	.0033688

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2827.259	58321.98	13169.43	2440.733	4088.422
Stddev	11.067	474.83	122.31	15.556	18.287
%RSD	.3914320	.8141576	.9287791	.6373450	.4472814
#1	2838.573	58864.49	13247.76	2457.617	4104.837
#2	2816.457	57981.94	13028.48	2426.983	4068.711
#3	2826.746	58119.52	13232.05	2437.597	4091.718

Sample Name: Q1018-03 Acquired: 1/13/2025 17:22:11 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006294	-.009279	.0076997	.0028388	.0023985	.0419377	.1590901
Stddev	.000381	.000918	.0006426	.0014884	.0011366	.0008533	.0051119
%RSD	6.050230	9.889967	8.345713	52.43077	47.38957	2.034787	3.213225

#1	-.006384	-.009853	.0072138	.0037441	.0011454	.0413450	.1542948
#2	-.005876	-.008221	.0074571	.0036513	.0026871	.0429158	.1585068
#3	-.006621	-.009764	.0084283	.0011210	.0033631	.0415524	.1644686

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000169	-.000008	1.076945	.0028361	-.000034	.0152887	.3867978
Stddev	.000058	.000076	.040363	.0003232	.000276	.0000578	.0155304
%RSD	34.10651	927.6572	3.747875	11.39756	812.6115	.3782042	4.015133

#1	-.000116	-.000037	1.035658	.0027700	-.000272	.0153338	.3732054
#2	-.000230	.000078	1.078861	.0025510	-.000099	.0153087	.3834633
#3	-.000161	-.000066	1.116315	.0031873	.000269	.0152235	.4037246

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171471	.0872832	.0034599	-.000150	258.6858	-.000695	.3904900
Stddev	.0006966	.0069424	.0000768	.000153	9.7490	.000359	.0131523
%RSD	4.062665	7.953905	2.220186	101.9616	3.768675	51.60004	3.368154

#1	.0166841	.0798493	.0034065	-.000308	254.1606	-.001041	.3805897
#2	.0168090	.0935983	.0034252	-.000004	252.0217	-.000325	.3854667
#3	.0179483	.0884019	.0035479	-.000137	269.8751	-.000719	.4054137

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.755299	.0550161	.0015469	.0000358	.0002186	.1200940	.0665318
Stddev	.035438	.0022862	.0002119	.0002736	.0001475	.0072555	.0015959
%RSD	2.018920	4.155586	13.69858	765.0026	67.48603	6.041501	2.398680

#1	1.745731	.0525689	.0013050	.0003336	.0000938	.1152930	.0650761
#2	1.725627	.0553821	.0016360	-.000204	.0003814	.1165485	.0682382
#3	1.794539	.0570972	.0016998	-.000022	.0001805	.1284405	.0662811

Sample Name: Q1018-03 Acquired: 1/13/2025 17:22:11 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.249795	.0010490	.0051960
Stddev	.013511	.0006716	.0001355
%RSD	1.081061	64.02274	2.608391
#1	1.238572	.0013754	.0050628
#2	1.264792	.0014951	.0051914
#3	1.246021	.0002766	.0053338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2857.914	58910.99	13391.38	2456.458	4171.310
Stddev	27.222	1525.70	392.58	72.519	34.282
%RSD	.9525236	2.589839	2.931576	2.952172	.8218462
#1	2888.079	60034.56	13793.17	2518.013	4205.659
#2	2835.175	59524.35	13372.23	2474.845	4137.095
#3	2850.489	57174.07	13008.72	2376.515	4171.177

Sample Name: Q1018-04 Acquired: 1/13/2025 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008956	-.008862	.0111492	.0018178	.0032567	.0760377	.2121605
Stddev	.001416	.001433	.0008943	.0011306	.0007547	.0044845	.0022842
%RSD	15.80717	16.16511	8.021406	62.19620	23.17450	5.897702	1.076643

#1	-.010202	-.010236	.0101211	.0007688	.0034205	.0759480	.2143968
#2	-.007417	-.007377	.0115790	.0016694	.0039161	.0715987	.2122535
#3	-.009249	-.008975	.0117474	.0030153	.0024335	.0805663	.2098312

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000203	.0028807	3.598160	.0062552	.0002568	.0380191	.7483041
Stddev	.000022	.0000332	.036321	.0002631	.0000510	.0008048	.0083631
%RSD	10.67047	1.151387	1.009441	4.206204	19.84964	2.116746	1.117600

#1	-.000190	.0028435	3.607625	.0060747	.0002997	.0383807	.7400907
#2	-.000191	.0029074	3.628811	.0061338	.0002703	.0370969	.7480123
#3	-.000228	.0028911	3.558043	.0065571	.0002005	.0385796	.7568092

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406278	.2781558	.0096729	-.000086	241.0217	-.000861	1.279527
Stddev	.0001311	.0059945	.0000605	.000348	1.0347	.000664	.024980
%RSD	.3227554	2.155081	.6255613	406.0216	.4292965	77.09987	1.952311

#1	.0407775	.2735244	.0097403	.000301	240.0004	-.001318	1.256253
#2	.0405331	.2760166	.0096232	-.000187	240.9952	-.000100	1.276407
#3	.0405728	.2849264	.0096550	-.000372	242.0693	-.001166	1.305920

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.90365	.0513645	.0142161	.0006002	.0001084	.1119868	.0523636
Stddev	.16396	.0003647	.0002702	.0006564	.0001459	.0020332	.0025356
%RSD	1.100152	.7100929	1.900781	109.3614	134.6096	1.815582	4.842308

#1	14.85154	.0510642	.0140339	.0004227	.0002708	.1098513	.0550701
#2	14.77208	.0517704	.0140879	.0000508	-.000012	.1122098	.0519773
#3	15.08733	.0512590	.0145266	.0013271	.000066	.1138993	.0500433

Sample Name: Q1018-04 Acquired: 1/13/2025 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6068595	.0008699	.0169562
Stddev	.0050573	.0010750	.0001758
%RSD	.8333534	123.5785	1.036650
#1	.6079964	.0006680	.0170804
#2	.6013306	.0020314	.0170330
#3	.6112516	-.000090	.0167550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.927	59405.20	13265.15	2465.840	4185.148
Stddev	20.866	845.35	72.66	37.423	27.029
%RSD	.7235339	1.423020	.5477291	1.517672	.6458308
#1	2877.503	60070.46	13257.16	2493.704	4167.155
#2	2907.249	59691.18	13196.82	2480.513	4216.229
#3	2867.028	58453.95	13341.47	2423.304	4172.058

Sample Name: Q1021-01 Acquired: 1/13/2025 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008168	-.011110	31.33734	.0001073	.0030256	.0033709	.3323655
Stddev	.001345	.001173	.15793	.0011358	.0003885	.0051983	.0136967
%RSD	16.46149	10.55563	.5039669	1058.513	12.84224	154.2099	4.120976

#1	-.006617	-.011016	31.43615	.0013211	.0027623	.0022918	.3239774
#2	-.008991	-.009987	31.42067	-.000069	.0028426	-.001203	.3481712
#3	-.008898	-.012327	31.15520	-.000930	.0034718	.009024	.3249480

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006505	.0036390	56.47154	.0038848	.0074867	.2049377	.0357554
Stddev	.0000326	.0001025	2.26102	.0005867	.0001029	.0012931	.0029224
%RSD	5.015715	2.815527	4.003818	15.10329	1.374193	.6309939	8.173161

#1	.0006386	.0036227	54.92379	.0043700	.0073682	.2056439	.0384688
#2	.0006874	.0037487	59.06628	.0032327	.0075378	.2057240	.0361361
#3	.0006255	.0035457	55.42456	.0040518	.0075540	.2034452	.0326614

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4738065	11.92813	.0196639	-.000109	308.0187	-.000255	1.262926
Stddev	.0189313	.50922	.0000436	.000068	8.2571	.000820	.027993
%RSD	3.995579	4.269106	.2217151	62.56673	2.680723	321.2082	2.216538

#1	.4609004	11.56998	.0197123	-.000110	317.2220	-.001194	1.294946
#2	.4955392	12.51107	.0196516	-.000177	305.5744	.000325	1.250741
#3	.4649798	11.70333	.0196277	-.000040	301.2596	.000102	1.243090

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.217955	.2574139	.0002069	-.000024	-.001563	4.582956	.0169347
Stddev	.187097	.0092970	.0001537	.000665	.000469	.131534	.0030349
%RSD	2.592100	3.611683	74.26494	2823.865	30.00130	2.870079	17.92101

#1	7.397965	.2499172	.0000330	-.000258	-.001239	4.727552	.0200390
#2	7.231403	.2678168	.0003244	.000727	-.001348	4.550910	.0139744
#3	7.024497	.2545077	.0002634	-.000540	-.002100	4.470406	.0167908

Sample Name: Q1021-01 Acquired: 1/13/2025 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.065670	-.004358	.3876692
Stddev	.003142	.000997	.0159195
%RSD	.1520841	22.86761	4.106453
#1	2.068507	-.005506	.3783600
#2	2.062294	-.003713	.4060509
#3	2.066209	-.003855	.3785967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2834.104	57756.82	12995.62	2381.669	4029.412
Stddev	16.306	1399.45	421.15	36.423	25.103
%RSD	.5753525	2.423009	3.240712	1.529316	.6229877
#1	2818.048	56148.28	13309.66	2340.937	4007.385
#2	2833.614	58427.23	12517.04	2392.960	4024.109
#3	2850.649	58694.95	13160.16	2411.109	4056.743

Sample Name: CCV02 Acquired: 1/13/2025 17:35:23 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.730647	4.694665	4.768566	4.722968	4.716702	9.363876	9.337195
Stddev	.027986	.034850	.024699	.029121	.033050	.207701	.125055
%RSD	.5915917	.7423421	.5179631	.6165808	.7007023	2.218110	1.339319

#1	4.710329	4.722910	4.745868	4.698035	4.687842	9.247244	9.251059
#2	4.719043	4.705366	4.764961	4.715895	4.709508	9.603679	9.480633
#3	4.762569	4.655719	4.794870	4.754974	4.752757	9.240705	9.279894

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2381354	2.391868	23.60220	.9630625	2.377047	1.195329	4.673486
Stddev	.0042398	.013832	.45007	.0044466	.013730	.007289	.044090
%RSD	1.780411	.5782845	1.906894	.4617179	.5775908	.6098103	.9434099

#1	.2350782	2.378541	23.35819	.9607393	2.364174	1.189204	4.668312
#2	.2429755	2.390908	24.12158	.9681896	2.375470	1.193392	4.719935
#3	.2363526	2.406155	23.32682	.9602588	2.391497	1.203391	4.632211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.371704	23.61823	2.385219	1.181155	23.34128	2.358059	2.384974
Stddev	.045601	.40695	.014821	.005908	.21862	.047264	.008384
%RSD	1.922707	1.723054	.6213679	.5001484	.9366113	2.004343	.3515169

#1	2.342348	23.41602	2.372284	1.179803	23.32528	2.329410	2.386550
#2	2.424238	24.08669	2.381981	1.187621	23.56746	2.412611	2.392457
#3	2.348525	23.35199	2.401391	1.176041	23.13110	2.332155	2.375914

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.20082	4.743572	4.741466	4.762784	4.680388	4.647400	4.791523
Stddev	.22471	.077063	.028796	.021855	.100185	.024060	.022370
%RSD	.9685529	1.624568	.6073323	.4588616	2.140537	.5177091	.4668568

#1	23.21306	4.687254	4.717996	4.743887	4.626777	4.641870	4.777772
#2	23.41916	4.831395	4.732801	4.757747	4.795971	4.673744	4.779463
#3	22.97024	4.712066	4.773599	4.786717	4.618416	4.626587	4.817335

Sample Name: CCV02 Acquired: 1/13/2025 17:35:23 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.694144	4.639377	4.756773
Stddev	.026353	.104161	.058717
%RSD	.5614095	2.245143	1.234387
#1	4.668198	4.586414	4.723730
#2	4.693347	4.759377	4.824567
#3	4.720887	4.572341	4.722023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2992.479	62124.03	12410.18	2608.041	4239.030
Stddev	19.948	199.08	198.04	13.084	24.129
%RSD	.6666100	.3204560	1.595825	.5016603	.5692219
#1	3011.224	62153.09	12543.99	2600.939	4263.944
#2	2994.700	61912.01	12182.67	2600.045	4237.377
#3	2971.514	62306.97	12503.87	2623.140	4215.770

Sample Name: CCB02 Acquired: 1/13/2025 17:39:34 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000558	-.000088	-.000669	-.001786	.0005052	.0029833	-.000739
Stddev	.001373	.001508	.000408	.000873	.0003157	.0049731	.000151
%RSD	245.9664	1710.326	60.94817	48.88714	62.49080	166.6972	20.47431

#1	-.001967	-.001468	-.001016	-.002614	.0005221	.0081382	-.000902
#2	-.000482	.001521	-.000772	-.000874	.0008120	.0025972	-.000713
#3	.000775	-.000318	-.000220	-.001870	.0001813	-.001785	-.000603

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000097	.0000278	.0095539	-.000111	-.000151	-.000134	-.001588
Stddev	.0000045	.0000338	.0080362	.000065	.000046	.000183	.003649
%RSD	46.32090	121.2247	84.11412	58.32752	30.62397	136.9177	229.7732

#1	.0000072	.0000633	.0187316	-.000038	-.000111	-.000135	.000580
#2	.0000149	-.000004	.0037786	-.000136	-.000202	.000050	.000457
#3	.0000070	.000024	.0061515	-.000160	-.000141	-.000316	-.005801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001604	.0004477	-.000029	-.000013	.0678412	-.000834	.0001062
Stddev	.0000519	.0067122	.000152	.000367	.0077736	.001592	.0002845
%RSD	32.37225	1499.439	526.1596	2728.976	11.45852	190.7822	267.8365

#1	.0001011	.0079732	-.000186	-.000268	.0616209	-.002415	.0001634
#2	.0001823	-.001709	.000117	.000407	.0653469	.000769	-.000203
#3	.0001979	-.004921	-.000018	-.000179	.0765558	-.000857	.000358

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0391726	-.005302	-.000019	.0002404	-.000445	-.001962	-.001597
Stddev	.0055061	.000721	.000120	.0001022	.000433	.003698	.001510
%RSD	14.05608	13.60470	622.1858	42.49693	97.29186	188.4667	94.56228

#1	.0421093	-.004588	.000116	.0002561	-.000247	-.005353	-.000196
#2	.0425878	-.005289	-.000060	.0003338	-.000147	.001981	-.003197
#3	.0328207	-.006030	-.000113	.0001313	-.000942	-.002514	-.001399

Sample Name: CCB02 Acquired: 1/13/2025 17:39:34 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0010770	.0038273	.0000047
Stddev	.0016067	.0002733	.0000223
%RSD	149.1818	7.139892	475.5198
#1	-.000657	.0041132	-.000001
#2	.002514	.0035688	-.000014
#3	.001374	.0038000	.000029

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3149.052	63354.04	13054.33	2707.641	4786.943
Stddev	18.822	1264.64	154.83	47.919	39.399
%RSD	.5977157	1.996150	1.186024	1.769753	.8230450
#1	3151.811	63867.05	12915.43	2725.738	4791.970
#2	3129.002	64281.57	13221.26	2743.876	4745.272
#3	3166.343	61913.50	13026.30	2653.309	4823.587

Sample Name: PB165996BL Acquired: 1/13/2025 17:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001098	-.000033	-.000512	-.001466	.0003137	.0041705	-.002625
Stddev	.001534	.002237	.000102	.001070	.0012102	.0007496	.000028
%RSD	139.6771	6805.606	20.00984	73.03862	385.8421	17.97428	1.062002

#1	.000541	-.000810	-.000409	-.002240	-.000539	.0050090	-.002649
#2	-.001335	.002489	-.000512	-.001913	.001699	.0039373	-.002631
#3	-.002499	-.001778	-.000614	-.000244	-.000218	.0035652	-.002595

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000597	-.000038	.0058398	-.000236	.0000042	-.000256	-.001790
Stddev	.0000375	.000121	.0083250	.000277	.0000179	.000261	.001308
%RSD	62.76581	319.1861	142.5555	117.6432	426.9181	101.7491	73.07799

#1	.0000862	.000032	.0065695	-.000010	.0000229	-.000391	-.003023
#2	.0000168	-.000178	.0137760	-.000546	-.000013	.000044	-.000418
#3	.0000761	.000032	-.002826	-.000152	.000003	-.000423	-.001927

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001845	-.001203	-.000093	.0002453	.0435432	-.000773	.0002092
Stddev	.0001318	.010470	.000049	.0003632	.0041002	.001491	.0001497
%RSD	71.41730	870.5827	52.48922	148.0451	9.416333	192.9847	71.54403

#1	.0003046	.001680	-.000099	.0005761	.0390259	.000896	.0000652
#2	.0002054	.007524	-.000041	-.000143	.0470295	-.001239	.0003640
#3	.0000435	-.012813	-.000138	.000303	.0445741	-.001975	.0001985

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0261635	-.007830	-.000099	.0000305	-.000364	-.000841	-.001377
Stddev	.0257355	.000500	.000066	.0001678	.000681	.003295	.001657
%RSD	98.36451	6.391556	66.63649	550.5199	186.8386	391.8485	120.3458

#1	.0010008	-.007942	-.000024	-.000072	.000416	.001088	-.000978
#2	.0524360	-.008264	-.000150	.000224	-.000670	.001034	.000045
#3	.0250536	-.007283	-.000124	-.000060	-.000838	-.004645	-.003197

Sample Name: PB165996BL Acquired: 1/13/2025 17:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000018	.0014447	.0000115
Stddev	.001823	.0002003	.0000302
%RSD	9899.623	13.86228	261.7683
#1	.000771	.0016148	.0000368
#2	-.002103	.0012239	-.000022
#3	.001277	.0014952	.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.192	62914.52	13083.09	2700.124	4659.838
Stddev	17.580	982.99	26.90	39.277	30.351
%RSD	.5705424	1.562421	.2055769	1.454650	.6513382
#1	3093.770	64043.71	13110.23	2745.145	4678.450
#2	3088.701	62250.05	13082.59	2672.862	4676.249
#3	3061.105	62449.81	13056.44	2682.366	4624.814

Sample Name: PB165996BS Acquired: 1/13/2025 17:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7635552	1.875297	.9389247	1.859557	.7412431	1.806623
Stddev	.0069210	.019114	.0070691	.016979	.0037141	.008679
%RSD	.9064112	1.019258	.7528896	.9130694	.5010705	.4804164

#1	.7643290	1.860076	.9350409	1.856635	.7396834	1.798072
#2	.7562799	1.869067	.9346490	1.844229	.7385632	1.815425
#3	.7700567	1.896750	.9470843	1.877808	.7454828	1.806372

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1753024	.1879250	.1867861	.9467933	.3964757	.1881608
Stddev	.0007864	.0009832	.0013776	.0116277	.0018816	.0011645
%RSD	.4486070	.5231721	.7374990	1.228119	.4745690	.6188806

#1	.1749633	.1879840	.1863912	.9386685	.3969233	.1876748
#2	.1762015	.1888773	.1856491	.9601128	.3944107	.1873180
#3	.1747424	.1869137	.1883179	.9415985	.3980931	.1894896

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2940307	2.891840	.1896876	1.824113	.4733875	.0744795
Stddev	.0019066	.012800	.0001542	.002618	.0034512	.0005092
%RSD	.6484475	.4426223	.0812987	.1435253	.7290422	.6836963

#1	.2936057	2.886186	.1896667	1.821771	.4715704	.0745695
#2	.2923723	2.882841	.1898512	1.826940	.4712246	.0739312
#3	.2961139	2.906494	.1895448	1.823628	.4773676	.0749376

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.877647	.2724405	.2023471	9.225053	.2689344	.3849606
Stddev	.039951	.0001659	.0006788	.093132	.0011775	.0029362
%RSD	1.388320	.0609066	.3354746	1.009554	.4378484	.7627348

#1	2.854614	.2722946	.2019205	9.121047	.2691156	.3836425
#2	2.854549	.2724059	.2019908	9.253382	.2700107	.3829145
#3	2.923779	.2726210	.2031299	9.300731	.2676767	.3883249

Sample Name: PB165996BS Acquired: 1/13/2025 17:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6539033	.1799863	F .7253390	5.275331	F -.010257	.1846413
Stddev	.0056197	.0004655	.0028448	.037351	.001481	.0010569
%RSD	.8594029	.2586371	.3922039	.7080346	14.44017	.5724269
#1	.6528176	.1794651	.7230363	5.253350	-.011964	.1837866
#2	.6489057	.1801332	.7244614	5.254186	-.009321	.1858231
#3	.6599866	.1803607	.7285192	5.318458	-.009485	.1843142

Elem	Sr4077
Units	ppm
Avg	.1881418
Stddev	.0004557
%RSD	.2422012
#1	.1876680
#2	.1885769
#3	.1881805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3098.143	61750.19	12942.69	2645.529	4608.749
Stddev	17.481	357.91	64.18	15.798	25.014
%RSD	.5642370	.5796117	.4958641	.5971572	.5427397
#1	3099.704	61799.68	12946.98	2644.807	4615.274
#2	3114.791	62080.78	12876.47	2661.675	4629.853
#3	3079.934	61370.11	13004.61	2630.104	4581.120

Sample Name: PB165981BL Acquired: 1/13/2025 17:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002502	-.000951	-.000346	-.001031	.0001243	.0093917	-.000177
Stddev	.0007571	.001111	.000851	.000425	.0003492	.0049727	.000271
%RSD	302.5296	116.8110	246.2539	41.25900	280.9220	52.94750	152.9695

#1	.0011213	-.002110	-.001234	-.001352	-.000023	.0147363	.000047
#2	-.000121	.000105	.000463	-.001192	.000523	.0085370	-.000478
#3	-.000250	-.000848	-.000266	-.000548	-.000127	.0049017	-.000100

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000528	-.000036	-.001680	.0002054	.0000609	-.000312	-.002421
Stddev	.0000512	.000069	.007694	.0003238	.0001628	.000139	.002675
%RSD	97.02494	192.3917	457.9612	157.6754	267.3755	44.37585	110.4829

#1	.0001111	-.000010	-.010203	.0004749	.0001503	-.000461	-.001214
#2	.0000148	.000017	.004753	-.000154	-.000127	-.000187	-.005486
#3	.0000325	-.000113	.000409	.000295	.000159	-.000288	-.000563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002559	-.000978	-.000215	.0002509	.0290986	-.000564	-.000097
Stddev	.0000720	.003062	.000250	.0001530	.0061946	.000380	.000273
%RSD	28.14021	313.0831	116.2307	61.00605	21.28836	67.32105	281.7299

#1	.0002846	-.002195	-.000008	.0000844	.0253102	-.000185	-.000412
#2	.0003092	.002506	-.000492	.0002828	.0257383	-.000944	.000075
#3	.0001740	-.003245	-.000145	.0003854	.0362472	-.000563	.000046

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151392	-.008841	-.000034	-.000281	-.000056	.0006898	-.002623
Stddev	.0090751	.000903	.000210	.000696	.000344	.0053456	.000881
%RSD	59.94453	10.20902	611.3798	247.6232	618.7993	774.9706	33.57492

#1	.0115640	-.008726	-.000239	-.000539	-.000432	.0053075	-.001877
#2	.0254574	-.009795	.000181	.000507	.000243	-.005166	-.002397
#3	.0083962	-.008001	-.000045	-.000811	.000022	.001928	-.003595

Sample Name: PB165981BL Acquired: 1/13/2025 17:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000659	.0012040	.0000272
Stddev	.002955	.0002510	.0000251
%RSD	448.5865	20.84482	92.32486
#1	.002324	.0012819	-.000001
#2	-.000714	.0014067	.000036
#3	-.003586	.0009233	.000047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3145.871	63595.94	13124.10	2716.304	4743.208
Stddev	24.534	826.03	75.21	25.768	31.921
%RSD	.7798709	1.298873	.5730522	.9486493	.6729783
#1	3132.835	64429.02	13102.71	2744.918	4724.528
#2	3130.607	63581.66	13207.69	2709.063	4725.031
#3	3174.171	62777.14	13061.91	2694.931	4780.066

Sample Name: PB165981BS Acquired: 1/13/2025 17:56:55 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7719792	1.901932	.9496965	1.869324	.7384627	1.781731
Stddev	.0082654	.013973	.0103145	.022750	.0116579	.011503
%RSD	1.070678	.7346802	1.086084	1.217017	1.578675	.6456069

#1	.7815201	1.918060	.9614119	1.895561	.7518661	1.788576
#2	.7669957	1.894268	.9419814	1.855069	.7306797	1.788166
#3	.7674218	1.893467	.9456960	1.857342	.7328424	1.768450

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1783895	.1886986	.1898957	.9527918	.3882289	.1910826
Stddev	.0004511	.0009699	.0024038	.0045287	.0114323	.0025380
%RSD	.2528867	.5140174	1.265824	.4753086	2.944733	1.328226

#1	.1789089	.1898155	.1926446	.9574506	.3997295	.1940009
#2	.1780954	.1882126	.1881886	.9525193	.3768662	.1893912
#3	.1781642	.1880677	.1888539	.9484055	.3880911	.1898555

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2973887	2.859125	.1873057	1.831735	.4807058	.0731606
Stddev	.0040502	.069148	.0010227	.009467	.0055009	.0018374
%RSD	1.361912	2.418489	.5459838	.5168178	1.144347	2.511437

#1	.3020655	2.933856	.1868963	1.835638	.4870538	.0750266
#2	.2950389	2.797412	.1884696	1.838626	.4773392	.0713532
#3	.2950619	2.846106	.1865511	1.820940	.4777243	.0731019

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.745408	.2713574	.1980338	8.916377	.2690487	.3841141
Stddev	.076259	.0011228	.0053371	.205138	.0020252	.0049064
%RSD	2.777705	.4137851	2.695036	2.300692	.7527138	1.277339

#1	2.823208	.2705199	.2034364	9.115164	.2705269	.3897313
#2	2.670789	.2726333	.1927647	8.705428	.2698788	.3806665
#3	2.742229	.2709190	.1979002	8.928539	.2667404	.3819444

Sample Name: PB165981BS Acquired: 1/13/2025 17:56:55 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6581604	.1801191	F .6948514	5.508841	F -.011100	.1848789
Stddev	.0074356	.0009353	.0183156	.069703	.001437	.0005544
%RSD	1.129753	.5192771	2.635896	1.265297	12.94589	.2998619
#1	.6665389	.1811866	.7145494	5.588395	-.010940	.1843130
#2	.6523469	.1794433	.6783352	5.479646	-.009750	.1854210
#3	.6555953	.1797275	.6916696	5.458484	-.012610	.1849027

Elem	Sr4077
Units	ppm
Avg	.1811855
Stddev	.0006264
%RSD	.3456937
#1	.1813192
#2	.1817342
#3	.1805031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3092.060	63710.70	12972.79	2711.856	4561.931
Stddev	32.139	1674.80	57.66	67.765	49.187
%RSD	1.039405	2.628750	.4444312	2.498838	1.078208
#1	3055.844	61970.93	12930.52	2638.771	4505.963
#2	3117.183	65311.91	12949.38	2772.607	4598.284
#3	3103.153	63849.26	13038.47	2724.188	4581.547

Sample Name: PB165973TB Acquired: 1/13/2025 18:07:06 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007111	-.006899	-.001067	.0037589	.0018847	.0143220
Stddev	.001308	.000805	.000613	.0004821	.0003287	.0040978
%RSD	18.39708	11.66470	57.45137	12.82672	17.44118	28.61210

#1	-.006498	-.006515	-.000493	.0035890	.0015265	.0125670
#2	-.006222	-.007824	-.000996	.0033847	.0019552	.0190050
#3	-.008613	-.006358	-.001713	.0043030	.0021725	.0113939

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004174	-.000180	-.000197	.0110226	.0015883	-.000116
Stddev	.000856	.000039	.000095	.0038227	.0002294	.000131
%RSD	20.50015	21.78673	48.46740	34.68031	14.44623	112.4169

#1	-.003292	-.000191	-.000198	.0094026	.0013456	-.000248
#2	-.005001	-.000213	-.000101	.0082767	.0018017	.000014
#3	-.004229	-.000137	-.000291	.0153885	.0016176	-.000116

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021695	.0183999	.0083529	.0038067	.0014479	.0000561
Stddev	.0003192	.0029874	.0001901	.0127412	.0002266	.0003464
%RSD	14.71223	16.23603	2.275552	334.6998	15.65117	617.0457

#1	.0024014	.0183328	.0085415	-.008779	.0012789	.0004514
#2	.0018055	.0154466	.0081614	.003501	.0013595	-.000089
#3	.0023017	.0214203	.0083558	.016698	.0017054	-.000194

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 288.7207	-.000972	.0036798	-.026783	-.011693	.0000365
Stddev	2.7491	.000500	.0001768	.014228	.000112	.0002383
%RSD	.9521724	51.40151	4.805659	53.12378	.9535905	652.6571

#1	286.2993	-.001434	.0038443	-.018552	-.011729	-.000238
#2	288.1536	-.001040	.0037024	-.018585	-.011782	.000188
#3	291.7091	-.000442	.0034928	-.043212	-.011568	.000160

Sample Name: PB165973TB Acquired: 1/13/2025 18:07:06 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000076	-.000106	.0093592	.0053533	F .0482743	-.001762
Stddev	.000947	.000189	.0050975	.0003930	.0021266	.000182
%RSD	1244.096	177.7926	54.46536	7.340904	4.405215	10.34334
#1	-.000240	.000111	.0139112	.0050752	.0482881	-.001968
#2	.000942	-.000230	.0103151	.0051819	.0461408	-.001620
#3	-.000930	-.000200	.0038514	.0058029	.0503939	-.001700

Elem	Sr4077
Units	ppm
Avg	-.000023
Stddev	.000027
%RSD	116.2918
#1	-.000053
#2	-.000001
#3	-.000016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2925.193	60215.84	13271.77	2529.499	4219.819
Stddev	58.901	343.00	329.97	16.254	85.189
%RSD	2.013563	.5696184	2.486287	.6425617	2.018786
#1	2892.802	60244.91	12893.86	2521.773	4177.171
#2	2993.181	60543.38	13418.68	2548.175	4317.909
#3	2889.598	59859.23	13502.77	2518.550	4164.377

Sample Name: Q1018-01DUP Acquired: 1/13/2025 18:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005390	-.009522	-.000917	.0018864	.0026177	.0360033	.3321455
Stddev	.000740	.000569	.001262	.0017530	.0018844	.0008614	.0007882
%RSD	13.73540	5.977449	137.6261	92.92388	71.98580	2.392493	.2373150

#1	-.004762	-.009500	.000534	.0014389	.0040354	.0362089	.3315647
#2	-.005202	-.008964	-.001524	.0038198	.0033384	.0367432	.3330428
#3	-.006206	-.010102	-.001761	.0004007	.0004794	.0350577	.3318291

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001535	.0008835	13.53631	.0046240	.0005794	.0033566	4.312716
Stddev	.0000104	.0000459	.03355	.0005127	.0002099	.0001209	.035432
%RSD	6.747855	5.191815	.2478733	11.08883	36.22012	3.600427	.8215789

#1	.0001539	.0009362	13.52815	.0041071	.0006498	.0033590	4.301954
#2	.0001636	.0008530	13.57319	.0046324	.0007450	.0032346	4.283913
#3	.0001429	.0008612	13.50760	.0051325	.0003434	.0034763	4.352282

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0604430	2.425968	.0082466	-.000058	307.2008	-.000664	.3516099
Stddev	.0003321	.011369	.0001422	.000148	2.0064	.000779	.0046956
%RSD	.5493626	.4686311	1.724047	253.2746	.6531086	117.3305	1.335448

#1	.0607754	2.437727	.0080892	-.000052	306.6516	-.001528	.3508200
#2	.0604422	2.425143	.0083657	-.000210	305.5263	-.000015	.3473594
#3	.0601113	2.415034	.0082849	.000086	309.4246	-.000449	.3566503

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.196294	.1152238	.0005992	-.000297	.0001382	2.759774	.0187726
Stddev	.093032	.0002195	.0001853	.000490	.0003193	.023750	.0012778
%RSD	1.135048	.1905032	30.93120	164.7505	231.0748	.8605898	6.806767

#1	8.155827	.1149713	.0006888	.000244	-.000223	2.745905	.0192527
#2	8.130348	.1153314	.0003860	-.000424	.000383	2.746220	.0173243
#3	8.302706	.1153688	.0007226	-.000711	.000255	2.787198	.0197409

Sample Name: Q1018-01DUP Acquired: 1/13/2025 18:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.569723	.0008287	.1067322
Stddev	.004155	.0002123	.0003304
%RSD	.2647217	25.61489	.3095607
#1	1.573194	.0008566	.1065016
#2	1.565119	.0010257	.1065842
#3	1.570857	.0006039	.1071107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2810.262	57558.18	13197.31	2403.447	4044.789
Stddev	15.048	646.69	29.82	32.613	17.793
%RSD	.5354575	1.123543	.2259490	1.356930	.4398937
#1	2813.132	57525.05	13176.13	2399.416	4051.963
#2	2823.668	58220.79	13184.38	2437.889	4057.875
#3	2793.986	56928.69	13231.41	2373.037	4024.529

Sample Name: Q1018-01LX5 Acquired: 1/13/2025 18:16:00 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007683	-.002023	-.001265	.0000890	.0007254	.0094792	.0661997
Stddev	.0017053	.000905	.000782	.0029232	.0004993	.0015143	.0002474
%RSD	221.9489	44.72939	61.84200	3285.509	68.84005	15.97445	.3737190

#1	-.000359	-.002686	-.000651	-.002774	.0009571	.0080085	.0664852
#2	.002730	-.002390	-.000998	-.000029	.0010667	.0093957	.0660661
#3	-.000066	-.000992	-.002146	.003069	.0001523	.0110335	.0660479

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000450	.0001486	2.810144	.0010100	-.000025	.0006509	.8406381
Stddev	.0000402	.0000428	.021628	.0002889	.000036	.0003745	.0180311
%RSD	89.40549	28.82881	.7696423	28.60341	143.3697	57.53293	2.144930

#1	.0000090	.0001812	2.785476	.0012643	-.000066	.0004007	.8408562
#2	.0000884	.0001646	2.819106	.0006959	-.000004	.0010815	.8585592
#3	.0000375	.0001001	2.825851	.0010698	-.000004	.0004707	.8224989

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124619	.5070034	.0016522	-.000097	59.28303	-.001333	.0678182
Stddev	.0001301	.0073738	.0001078	.000434	.86680	.000549	.0010293
%RSD	1.043812	1.454392	6.521301	448.6417	1.462133	41.20897	1.517713

#1	.0126052	.5012107	.0015777	.000229	59.71520	-.000771	.0678895
#2	.0123514	.5044953	.0016032	-.000589	59.84877	-.001359	.0688100
#3	.0124290	.5153041	.0017758	.000070	58.28511	-.001869	.0667551

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.608201	.0172529	-.000191	-.000285	-.000410	.5386551	.0003281
Stddev	.049616	.0003238	.000234	.000339	.000302	.0121684	.0026299
%RSD	3.085214	1.876932	122.6118	118.8478	73.54651	2.259039	801.4758

#1	1.554494	.0170403	-.000168	.000048	-.000754	.5328396	.0024113
#2	1.652331	.0176256	.000031	-.000629	-.000187	.5526402	.0012002
#3	1.617777	.0170928	-.000435	-.000275	-.000291	.5304857	-.002627

Sample Name: Q1018-01LX5 Acquired: 1/13/2025 18:16:00 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3145752	.0059625	.0218344
Stddev	.0022205	.0005303	.0001381
%RSD	.7058593	8.894039	.6325684
#1	.3154012	.0060175	.0216984
#2	.3162643	.0064631	.0218303
#3	.3120601	.0054068	.0219745

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3020.522	61890.84	13364.84	2608.409	4438.185
Stddev	4.402	887.47	46.10	39.800	7.436
%RSD	.1457324	1.433934	.3449646	1.525838	.1675398
#1	3023.243	61584.90	13411.32	2592.839	4443.162
#2	3022.881	61196.81	13364.07	2578.748	4441.756
#3	3015.444	62890.81	13319.13	2653.641	4429.637

Sample Name: Q1018-01MS Acquired: 1/13/2025 18:20:19 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7730597	1.682929	.8762478	1.838890	.0549452	1.806022	.5209996
Stddev	.0047046	.017599	.0056225	.012507	.0153347	.024122	.0063400
%RSD	.6085678	1.045730	.6416577	.6801251	27.90902	1.335639	1.216889

#1	.7691410	1.697036	.8728313	1.827082	.0438877	1.826116	.5266602
#2	.7717608	1.688543	.8731749	1.837594	.0484969	1.779270	.5141489
#3	.7782773	1.663208	.8827371	1.851994	.0724511	1.812679	.5221897

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1727705	.1842695	14.54251	.3884234	.1865082	.2767277	7.164308
Stddev	.0010250	.0005583	.17733	.0020738	.0004115	.0013842	.011356
%RSD	.5932792	.3030050	1.219415	.5338880	.2206168	.5001879	.1585019

#1	.1739425	.1838587	14.72705	.3864327	.1860396	.2754645	7.151310
#2	.1720411	.1840447	14.37338	.3905712	.1866748	.2765113	7.172302
#3	.1723281	.1849053	14.52711	.3882661	.1868103	.2782073	7.169312

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2391426	4.151859	.4708451	.0723771	295.2282	.2755359	.5471835
Stddev	.0029628	.041737	.0015839	.0001414	.9294	.0028690	.0014256
%RSD	1.238922	1.005256	.3363989	.1953267	.3148215	1.041258	.2605337

#1	.2421057	4.198584	.4691869	.0722695	296.2308	.2788420	.5469844
#2	.2361802	4.118274	.4710057	.0725372	294.3954	.2736989	.5486981
#3	.2391420	4.138718	.4723425	.0723247	295.0584	.2740668	.5458678

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.01150	.3541254	.0303466	.0450752	.0054663	2.692575	5.641490
Stddev	.04701	.0038807	.0080127	.0125499	.0008741	.019334	.014105
%RSD	.2609933	1.095846	26.40406	27.84212	15.99144	.7180364	.2500221

#1	17.96271	.3577626	.0243596	.0350181	.0046624	2.676341	5.625212
#2	18.01531	.3500401	.0272310	.0410682	.0053397	2.687419	5.649142
#3	18.05650	.3545734	.0394492	.0591392	.0063969	2.713963	5.650114

Sample Name: Q1018-01MS Acquired: 1/13/2025 18:20:19 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.540998	.1900772	.2862646
Stddev	.006615	.0020732	.0039004
%RSD	.4292360	1.090694	1.362509
#1	1.540299	.1924115	.2904557
#2	1.547935	.1884506	.2827412
#3	1.534761	.1893693	.2855968

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2849.686	58942.76	12983.91	2422.234	4067.888
Stddev	8.072	223.28	98.28	6.132	14.375
%RSD	.2832561	.3788133	.7569624	.2531693	.3533861
#1	2857.239	59165.93	12875.05	2427.890	4079.360
#2	2850.639	58719.36	13066.12	2415.716	4072.541
#3	2841.180	58942.98	13010.56	2423.096	4051.762

Sample Name: CCV03 Acquired: 1/13/2025 18:33:21 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.736806	4.677244	4.759670	4.729153	4.766673	9.365508	9.383339
Stddev	.013768	.042520	.008018	.018680	.017366	.108866	.064585
%RSD	.2906572	.9090732	.1684630	.3949871	.3643147	1.162413	.6882974

#1	4.720914	4.668004	4.754190	4.709303	4.746621	9.448416	9.413271
#2	4.745134	4.640105	4.768873	4.731770	4.776817	9.242222	9.427528
#3	4.744368	4.723624	4.755947	4.746387	4.776581	9.405885	9.309218

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2373794	2.387888	23.48386	.9901016	2.383155	1.195429	4.870968
Stddev	.0015076	.003309	.21570	.0134018	.004580	.002633	.064579
%RSD	.6350960	.1385939	.9185072	1.353582	.1921660	.2202348	1.325802

#1	.2381919	2.384632	23.64718	.9747665	2.378565	1.192401	4.796909
#2	.2356398	2.391248	23.23935	.9959702	2.387724	1.197169	4.900457
#3	.2383064	2.387786	23.56506	.9995679	2.383176	1.196719	4.915540

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.378529	23.56883	2.385439	1.219010	24.53231	2.358006	2.487222
Stddev	.020697	.15735	.005423	.016338	.25260	.027518	.034571
%RSD	.8701714	.6676251	.2273187	1.340304	1.029644	1.167015	1.389960

#1	2.393256	23.69090	2.382092	1.200298	24.29200	2.371533	2.448042
#2	2.354865	23.39124	2.391695	1.226280	24.50932	2.326342	2.500189
#3	2.387467	23.62433	2.382529	1.230452	24.79561	2.376143	2.513436

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.18261	4.718784	4.822331	4.757273	4.661510	4.886109	4.657772
Stddev	.33110	.036806	.016563	.010724	.057427	.066585	.007788
%RSD	1.369183	.7799971	.3434718	.2254145	1.231945	1.362748	.1672013

#1	23.87093	4.747491	4.803215	4.745265	4.703790	4.810898	4.650433
#2	24.14668	4.677289	4.832423	4.760659	4.596130	4.909891	4.665942
#3	24.53021	4.731571	4.831355	4.765895	4.684610	4.937537	4.656940

Sample Name: CCV03 Acquired: 1/13/2025 18:33:21 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.590944	4.650956	4.826707
Stddev	.015357	.075286	.051440
%RSD	.3344983	1.618720	1.065743
#1	4.574568	4.706239	4.841304
#2	4.593242	4.565212	4.769545
#3	4.605023	4.681416	4.869270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.825	60609.40	12695.74	2563.923	4339.638
Stddev	9.981	868.78	67.32	33.728	12.378
%RSD	.3289958	1.433414	.5302306	1.315501	.2852318
#1	3042.992	61612.37	12646.02	2602.857	4349.013
#2	3023.192	60089.55	12772.35	2543.585	4325.607
#3	3035.291	60126.30	12668.86	2545.328	4344.293

Sample Name: CCB03 Acquired: 1/13/2025 18:37:32 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001725	.0004684	-.000540	-.000443	.0019649	.0040853	-.000974
Stddev	.000839	.0013196	.000675	.000161	.0006737	.0058059	.000262
%RSD	48.65553	281.6945	124.8934	36.36910	34.28541	142.1159	26.84259

#1	-.001844	-.000093	-.001271	-.000411	.0027126	.0044272	-.000747
#2	-.000833	.001976	-.000409	-.000619	.0014052	.0097127	-.001260
#3	-.002499	-.000478	.000059	-.000301	.0017768	-.001884	-.000917

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	-.000083	-.001788	.0000905	.0000283	-.000229	.0016132
Stddev	.000056	.000050	.001047	.0001580	.0001103	.000431	.0043762
%RSD	610.8889	60.44056	58.59069	174.5524	390.0205	188.6188	271.2842

#1	.000004	-.000051	-.000617	.0001116	.0000331	.000258	.0053523
#2	.000039	-.000057	-.002636	-.000077	.0001360	-.000564	.0026873
#3	-.000071	-.000141	-.002110	.000237	-.000084	-.000379	-.003200

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002248	.0048405	-.000087	.0001688	.1084258	-.000837	-.000017
Stddev	.0001434	.0103472	.000116	.0000675	.0032544	.000215	.000198
%RSD	63.79198	213.7634	133.4253	39.98899	3.001524	25.65122	1166.476

#1	.0003478	-.006722	-.000221	.0001417	.1110038	-.000591	-.000162
#2	.0002593	.013230	-.000026	.0002457	.1095047	-.000988	-.000097
#3	.0000673	.008013	-.000014	.0001191	.1047690	-.000931	.000208

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1241328	-.005996	-.000003	-.000411	-.000494	.0040091	-.002294
Stddev	.0221023	.000886	.000227	.000263	.000162	.0053292	.000702
%RSD	17.80536	14.77473	6974.467	63.86207	32.85478	132.9257	30.59294

#1	.1209159	-.004994	.000202	-.000684	-.000499	-.001926	-.001913
#2	.1038153	-.006317	.000034	-.000389	-.000329	.008383	-.003104
#3	.1476673	-.006676	-.000246	-.000160	-.000654	.005570	-.001865

Sample Name: CCB03 Acquired: 1/13/2025 18:37:32 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001022	.0039194	.0000281
Stddev	.001814	.0006842	.0000355
%RSD	177.4698	17.45668	126.2120
#1	-.000210	.0047094	.0000689
#2	.000244	.0035162	.0000112
#3	-.003100	.0035327	.0000042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.780	62796.41	13159.76	2685.802	4658.100
Stddev	24.376	295.85	43.79	15.486	38.994
%RSD	.7889277	.4711306	.3327423	.5766011	.8371163
#1	3101.921	62807.49	13109.72	2691.090	4676.720
#2	3105.701	63086.57	13178.44	2697.951	4684.294
#3	3061.718	62495.18	13191.10	2668.364	4613.287

Sample Name: Q1018-01MSD Acquired: 1/13/2025 18:41:52 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7839124	1.683468	.8930636	1.851110	1.198066	1.782701	.5029114
Stddev	.0036086	.019943	.0026360	.004861	.044703	.024244	.0065257
%RSD	.4603276	1.184663	.2951580	.2625935	3.731230	1.359983	1.297579

#1	.7858839	1.693099	.8906280	1.853866	1.156584	1.755253	.4953796
#2	.7797475	1.696767	.8958622	1.853965	1.245411	1.791658	.5064823
#3	.7861057	1.660537	.8927005	1.845497	1.192203	1.801193	.5068723

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1711111	.1878552	14.24260	.3913071	.1897394	.2813518	7.046121
Stddev	.0009949	.0003714	.08757	.0010582	.0005796	.0003996	.051768
%RSD	.5814194	.1976867	.6148771	.2704308	.3054665	.1420315	.7347081

#1	.1699701	.1878614	14.14242	.3911707	.1904065	.2814924	6.987309
#2	.1715658	.1882234	14.28073	.3903237	.1893597	.2816622	7.066258
#3	.1717973	.1874807	14.30464	.3924269	.1894521	.2809009	7.084794

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2386616	4.093946	.4783741	.0724017	293.8150	.2747530	.5375619
Stddev	.0020640	.037418	.0001169	.0002550	.7890	.0038362	.0001611
%RSD	.8648171	.9139838	.0244428	.3522150	.2685436	1.396239	.0299609

#1	.2363423	4.051929	.4784978	.0726929	294.6809	.2703732	.5376275
#2	.2402965	4.123674	.4782653	.0722182	293.1367	.2775166	.5373784
#3	.2393458	4.106235	.4783594	.0722939	293.6273	.2763693	.5376798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.72301	.3510800	.6376207	1.049063	.1692907	3.333450	5.570966
Stddev	.11797	.0018014	.0243991	.039201	.0290238	.116130	.008463
%RSD	.6656562	.5130875	3.826580	3.736759	17.14438	3.483771	.1519184

#1	17.58892	.3491218	.6137554	1.012618	.1399522	3.220508	5.569854
#2	17.76930	.3526665	.6625206	1.090535	.1699306	3.327320	5.579930
#3	17.81083	.3514519	.6365861	1.044035	.1979893	3.452524	5.563114

Sample Name: Q1018-01MSD Acquired: 1/13/2025 18:41:52 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.526291	.1848040	.2843170
Stddev	.005159	.0026436	.0028611
%RSD	.3379920	1.430489	1.006288
#1	1.530185	.1817958	.2810981
#2	1.528248	.1867571	.2852824
#3	1.520440	.1858591	.2865704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.567	59132.71	13136.98	2471.906	4042.284
Stddev	1.942	84.41	70.63	8.170	5.085
%RSD	.0682279	.1427406	.5376267	.3305102	.1257885
#1	2847.426	59218.95	13217.94	2479.677	4042.141
#2	2844.344	59050.26	13088.01	2463.389	4037.273
#3	2847.932	59128.92	13104.98	2472.653	4047.439

Sample Name: Q1018-01A Acquired: 1/13/2025 18:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7778323	1.687727	.8910421	1.837329	.7437024	1.793458	.5132541
Stddev	.0033053	.010720	.0018636	.001630	.0016290	.020134	.0048644
%RSD	.4249344	.6351868	.2091503	.0887321	.2190418	1.122629	.9477485

#1	.7807277	1.697455	.8925217	1.838310	.7453614	1.781988	.5088579
#2	.7742311	1.689493	.8916555	1.838230	.7436408	1.816706	.5184799
#3	.7785381	1.676234	.8889491	1.835447	.7421051	1.781680	.5124244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1761011	.1872682	14.37568	.3916414	.1896663	.2790951	7.070197
Stddev	.0019822	.0005925	.14882	.0011005	.0006395	.0007137	.033180
%RSD	1.125606	.3163836	1.035226	.2809937	.3371780	.2557305	.4692973

#1	.1742356	.1878011	14.25422	.3908648	.1903336	.2795498	7.038684
#2	.1781824	.1873734	14.54169	.3911587	.1896067	.2794630	7.067083
#3	.1758853	.1866302	14.33115	.3929008	.1890587	.2782725	7.104825

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2379531	4.114280	.4778688	.0725887	282.9740	.2753472	.5376068
Stddev	.0027068	.039715	.0009671	.0003712	2.2380	.0044653	.0026296
%RSD	1.137523	.9652892	.2023832	.5113130	.7908961	1.621702	.4891260

#1	.2377410	4.114073	.4789213	.0729790	284.7282	.2721868	.5358667
#2	.2407596	4.154098	.4776657	.0725469	283.7402	.2804556	.5363218
#3	.2353586	4.074669	.4770193	.0722402	280.4535	.2733992	.5406317

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.55685	.3611000	.4012521	.6495271	.1840780	3.323465	5.564766
Stddev	.06373	.0030276	.0010461	.0023418	.0019977	.016385	.005278
%RSD	.3629923	.8384400	.2606974	.3605461	1.085224	.4930086	.0948458

#1	17.59492	.3592550	.4018286	.6481867	.1833113	3.317212	5.566130
#2	17.48328	.3645941	.4018831	.6522312	.1863454	3.311126	5.569227
#3	17.59236	.3594508	.4000447	.6481633	.1825772	3.342055	5.558939

Sample Name: Q1018-01A Acquired: 1/13/2025 18:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.506981	.1878207	.2830718
Stddev	.006862	.0013049	.0029089
%RSD	.4553423	.6947673	1.027623
#1	1.514477	.1864824	.2828557
#2	1.501010	.1890894	.2860826
#3	1.505455	.1878903	.2802769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2892.163	59866.18	12980.56	2468.773	4126.069
Stddev	4.252	126.00	113.84	4.814	7.593
%RSD	.1470133	.2104619	.8769696	.1950103	.1840286
#1	2890.437	59884.32	13063.05	2470.616	4119.256
#2	2889.045	59982.12	12850.69	2472.393	4124.695
#3	2897.006	59732.10	13027.96	2463.309	4134.255

Sample Name: P5411-02 Acquired: 1/13/2025 18:50:05 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007904	-.005996	.0515065	.0017647	.0352162	2.466069
Stddev	.003129	.000713	.0012991	.0007216	.0018339	.003165
%RSD	39.59047	11.89892	2.522273	40.88856	5.207591	.1283282

#1	-.010834	-.006723	.0512529	.0021256	.0331009	2.469349
#2	-.008272	-.005297	.0503528	.0022346	.0361891	2.463034
#3	-.004607	-.005968	.0529137	.0009339	.0363587	2.465823

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1843440	.0002269	.0022669	22.68467	.0452668	.0046415
Stddev	.0007118	.0000845	.0000497	.09483	.0007998	.0000719
%RSD	.3861471	37.22372	2.192690	.4180369	1.766779	1.548567

#1	.1837284	.0001834	.0022471	22.58178	.0457280	.0045917
#2	.1851235	.0003242	.0022302	22.76856	.0443433	.0046088
#3	.1841801	.0001731	.0023235	22.70368	.0457291	.0047239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2665445	24.31096	.2522776	4.394444	.0410819	.0005378
Stddev	.0017066	.15108	.0021130	.008318	.0002944	.0000574
%RSD	.6402497	.6214356	.8375614	.1892829	.7167417	10.67742

#1	.2654238	24.46073	.2500624	4.391972	.0409422	.0005435
#2	.2657011	24.15861	.2524997	4.403718	.0408832	.0005923
#3	.2685085	24.31355	.2542708	4.387643	.0414201	.0004778

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	560.0100	.0066385	.9459092	23.77615	.1746218	.0698164
Stddev	4.1563	.0000407	.0093559	.18982	.0014345	.0005920
%RSD	.7421888	.6134887	.9890920	.7983702	.8214984	.8479013

#1	563.6042	.0066057	.9536033	23.96745	.1745427	.0693006
#2	555.4586	.0066258	.9354945	23.58784	.1760943	.0696858
#3	560.9671	.0066841	.9486297	23.77317	.1732285	.0704627

Sample Name: P5411-02 Acquired: 1/13/2025 18:50:05 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175597	.0551009	F 24.43773	7.419100	F 29.87068	.0574828
Stddev	.0010397	.0009087	.14765	.045815	.13468	.0006820
%RSD	5.920692	1.649078	.6041820	.6175238	.4508660	1.186417
#1	.0166020	.0547455	24.53872	7.415561	29.89871	.0578890
#2	.0174116	.0561335	24.26827	7.375158	29.72420	.0578640
#3	.0186654	.0544236	24.50618	7.466582	29.98914	.0566954

Elem	Sr4077
Units	ppm
Avg	.1771600
Stddev	.0006024
%RSD	.3400299
#1	.1764737
#2	.1776009
#3	.1774055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.873	56358.68	12777.11	2369.113	3896.952
Stddev	14.071	306.40	35.19	8.892	24.095
%RSD	.5080041	.5436690	.2753951	.3753210	.6183109
#1	2780.547	56122.75	12806.22	2360.330	3911.144
#2	2775.145	56704.98	12738.00	2378.109	3910.582
#3	2753.927	56248.30	12787.11	2368.901	3869.132

Sample Name: Q1032-01DLX5 Acquired: 1/13/2025 18:54:25 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135577	.0001865	.2396621	-.002825	.0049321	25.97820
Stddev	.0023249	.0011067	.0007684	.001878	.0006306	.06511
%RSD	17.14850	593.4785	.3206379	66.47773	12.78573	.2506366

#1	.0136069	-.000634	.2388677	-.000698	.0043297	25.95973
#2	.0112085	-.000252	.2397168	-.004255	.0048791	25.92432
#3	.0158576	.001445	.2404017	-.003522	.0055876	26.05055

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2686409	.0019091	.0024455	67.72943	.0663687	.0296279
Stddev	.0015447	.0000347	.0000318	.21421	.0002691	.0001003
%RSD	.5750087	1.818996	1.299491	.3162712	.4054221	.3384080

#1	.2669806	.0019207	.0024552	67.54202	.0661941	.0295653
#2	.2689063	.0019366	.0024100	67.68334	.0662334	.0295748
#3	.2700357	.0018701	.0024713	67.96293	.0666786	.0297435

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1445912	38.63098	1.536453	23.24242	.0854631	-.000441
Stddev	.0004576	.16135	.002920	.08675	.0003656	.000027
%RSD	.3164662	.4176573	.1900362	.3732347	.4277421	6.081593

#1	.1447522	38.53833	1.534321	23.20375	.0850458	-.000470
#2	.1440748	38.81728	1.535257	23.18173	.0856165	-.000435
#3	.1449465	38.53732	1.539781	23.34178	.0857269	-.000418

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.27922	.0668564	1.568556	15.63784	.0788898	.0092750
Stddev	.23493	.0001392	.001513	.05851	.0004125	.0002289
%RSD	.4249891	.2081915	.0964796	.3741338	.5228117	2.467510

#1	55.36263	.0668332	1.568358	15.62464	.0784686	.0095257
#2	55.46107	.0667302	1.570159	15.70181	.0789080	.0092221
#3	55.01397	.0670057	1.567151	15.58706	.0792929	.0090773

Sample Name: Q1032-01DLX5 Acquired: 1/13/2025 18:54:25 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031348	.6107811	F 12.94092	1.540415	F 72.68242	.0664809
Stddev	.0004883	.0011177	.04600	.001509	.22284	.0011382
%RSD	15.57685	.1829864	.3554939	.0979835	.3065931	1.712047
#1	.0036352	.6113733	12.93256	1.538673	72.59480	.0677920
#2	.0026596	.6094920	12.99054	1.541235	72.51670	.0657461
#3	.0031097	.6114780	12.89967	1.541336	72.93575	.0659047

Elem	Sr4077
Units	ppm
Avg	.6731014
Stddev	.0012426
%RSD	.1846138
#1	.6731844
#2	.6718193
#3	.6743004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3053.041	62900.67	13955.25	2645.250	4177.119
Stddev	8.419	141.50	47.01	12.356	13.273
%RSD	.2757427	.2249552	.3368392	.4670943	.3177449
#1	3062.383	62896.09	13981.65	2631.503	4190.103
#2	3050.699	62761.52	13983.12	2648.818	4177.679
#3	3046.041	63044.41	13900.98	2655.430	4163.575

Sample Name: Q1033-01DUP Acquired: 1/13/2025 18:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002085	-.010719	.0014804	.0020570	.0019780	1.479349
Stddev	.002318	.001005	.0011335	.0006909	.0006960	.024722
%RSD	111.1762	9.380137	76.56682	33.58746	35.18887	1.671165

#1	-.000555	-.011768	.0009105	.0028413	.0023732	1.470378
#2	-.000949	-.009764	.0007449	.0015380	.0011743	1.507304
#3	-.004752	-.010624	.0027858	.0017919	.0023865	1.460364

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1294817	-.000163	-.000072	210.1438	.0069358	.0014094
Stddev	.0016003	.000016	.000026	2.4136	.0001204	.0001213
%RSD	1.235903	9.749045	36.00064	1.148560	1.736179	8.608932

#1	.1298401	-.000147	-.000043	209.6979	.0067967	.0013748
#2	.1308724	-.000163	-.000080	212.7493	.0070040	.0015442
#3	.1277326	-.000179	-.000093	207.9842	.0070066	.0013091

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042803	2.355813	.8017331	35.03594	.0041252	-.000379
Stddev	.0004091	.014993	.0068701	.42089	.0005137	.000083
%RSD	9.558039	.6364251	.8569076	1.201311	12.45292	21.84230

#1	.0042506	2.363061	.8006895	34.92838	.0039192	-.000457
#2	.0038868	2.365804	.8090653	35.50017	.0047100	-.000292
#3	.0047034	2.338573	.7954445	34.67927	.0037465	-.000386

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	208.2572	.0068194	.0384166	10.12508	.1536345	.0490819
Stddev	1.5130	.0016729	.0003896	.07375	.0018514	.0001610
%RSD	.7265191	24.53175	1.014172	.7283589	1.205079	.3280734

#1	209.9579	.0086753	.0385261	10.19662	.1534106	.0492666
#2	207.0604	.0054274	.0379840	10.12930	.1555876	.0490079
#3	207.7534	.0063555	.0387398	10.04931	.1519051	.0489712

Sample Name: Q1033-01DUP Acquired: 1/13/2025 18:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070333	.0526578	F 16.27517	.1972990	F 49.67942	-.030001
Stddev	.0004574	.0018024	.10451	.0010077	.14199	.000805
%RSD	6.503933	3.422779	.6421502	.5107565	.2858167	2.684196
#1	.0068478	.0537632	16.38588	.1966423	49.70800	-.029274
#2	.0075544	.0505779	16.26140	.1967955	49.80495	-.029863
#3	.0066978	.0536321	16.17822	.1984592	49.52531	-.030867

Elem	Sr4077
Units	ppm
Avg	1.068650
Stddev	.004888
%RSD	.4573802
#1	1.067185
#2	1.074103
#3	1.064662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2783.257	56803.13	12815.14	2375.813	3972.937
Stddev	5.176	306.25	117.91	20.604	5.063
%RSD	.1859826	.5391473	.9200579	.8672480	.1274335
#1	2777.400	56453.67	12830.43	2352.324	3969.229
#2	2787.219	56930.96	12690.33	2384.281	3970.876
#3	2785.151	57024.76	12924.65	2390.834	3978.705

Sample Name: Q1033-01LX5 Acquired: 1/13/2025 19:03:07 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002414	-.003529	-.001281	.0000411	.0013103	.3231972
Stddev	.002834	.000062	.000711	.0011787	.0007183	.0065143
%RSD	117.3946	1.759609	55.48583	2866.426	54.82262	2.015569

#1	-.005593	-.003493	-.000657	-.000972	.0004862	.3198142
#2	-.000152	-.003600	-.001132	-.000239	.0016412	.3307070
#3	-.001497	-.003493	-.002055	.001335	.0018036	.3190705

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231901	-.000036	-.000098	42.31647	.0013016	.0002394
Stddev	.0003602	.000008	.000081	.19627	.0000890	.0001364
%RSD	1.553340	21.04968	82.53638	.4638206	6.840914	56.95691

#1	.0228023	-.000040	-.000019	42.11071	.0013848	.0001477
#2	.0235143	-.000027	-.000180	42.50164	.0013125	.0003962
#3	.0232536	-.000041	-.000093	42.33706	.0012077	.0001744

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008846	.4747638	.1647609	7.086794	.0012912	.0004532
Stddev	.0001535	.0025413	.0006937	.031532	.0001738	.0000287
%RSD	17.35250	.5352805	.4210240	.4449380	13.46350	6.334489

#1	.0007094	.4754563	.1639821	7.057174	.0011028	.0004480
#2	.0009493	.4768872	.1653125	7.119941	.0014454	.0004274
#3	.0009953	.4719481	.1649882	7.083267	.0013254	.0004841

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.10082	.0005856	.0080290	1.949524	.0269065	.0097824
Stddev	.19966	.0005837	.0001107	.026645	.0003883	.0002585
%RSD	.5106370	99.68319	1.379119	1.366738	1.443064	2.642663

#1	39.30474	.0011558	.0081001	1.919540	.0264928	.0100314
#2	38.90571	-.000011	.0080854	1.958542	.0269638	.0098003
#3	39.09200	.000612	.0079014	1.970489	.0272630	.0095154

Sample Name: Q1033-01LX5 Acquired: 1/13/2025 19:03:07 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002307	.0119921	3.166947	.0381089	F 10.42167	-.000998
Stddev	.0006861	.0011779	.010173	.0024134	.05482	.000488
%RSD	297.4597	9.822336	.3212235	6.333014	.5259743	48.89031
#1	-.000394	.0132327	3.174055	.0380399	10.48139	-.001277
#2	.000965	.0118546	3.155294	.0405561	10.40998	-.000435
#3	.000122	.0108890	3.171492	.0357307	10.37365	-.001282

Elem	Sr4077
Units	ppm
Avg	.2178399
Stddev	.0001033
%RSD	.0473953
#1	.2177749
#2	.2177859
#3	.2179590

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3009.975	61246.03	13164.39	2614.749	4363.376
Stddev	19.238	118.62	59.90	5.508	29.754
%RSD	.6391435	.1936773	.4549945	.2106330	.6819065
#1	2996.198	61364.88	13229.99	2616.050	4339.803
#2	3001.772	61245.56	13112.60	2619.489	4353.516
#3	3031.955	61127.64	13150.59	2608.707	4396.809

Sample Name: Q1033-01MS Acquired: 1/13/2025 19:07:23 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7990085	1.653393	.8981510	1.855767	.7709378	3.339074
Stddev	.0015429	.007805	.0022237	.006132	.0037298	.001226
%RSD	.1931039	.4720878	.2475816	.3304146	.4837955	.0367244

#1	.7979512	1.661693	.8959361	1.849126	.7666420	3.339831
#2	.7982952	1.652287	.9003833	1.861214	.7728201	3.339732
#3	.8007790	1.646200	.8981334	1.856961	.7733514	3.337660

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3113568	.1804479	.1863165	211.9724	.3967669	.1906606
Stddev	.0015830	.0003854	.0001282	.4583	.0015800	.0003504
%RSD	.5084250	.2135954	.0688193	.2162264	.3982239	.1837876

#1	.3095579	.1801045	.1863581	211.4455	.3970063	.1903551
#2	.3125368	.1808648	.1864187	212.1920	.3950809	.1910431
#3	.3119758	.1803744	.1861726	212.2796	.3982136	.1905836

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2838645	5.258558	.9826138	36.96102	.4729820	.0664260
Stddev	.0003916	.025388	.0012630	.08915	.0005136	.0008061
%RSD	.1379649	.4827894	.1285308	.2412072	.1085877	1.213559

#1	.2834937	5.237100	.9823098	36.86623	.4727621	.0657601
#2	.2838257	5.286584	.9815306	36.97362	.4726149	.0661957
#3	.2842740	5.251988	.9840010	37.04320	.4735689	.0673222

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	204.1519	.2873121	.2484446	20.11302	.3998330	.4530834
Stddev	1.1930	.0013775	.0001088	.14113	.0010046	.0003676
%RSD	.5843697	.4794507	.0437711	.7016686	.2512660	.0811225

#1	204.5415	.2857540	.2483948	19.98286	.4009784	.4526867
#2	202.8128	.2883680	.2485693	20.09318	.3994196	.4534123
#3	205.1015	.2878145	.2483696	20.26302	.3991010	.4531511

Sample Name: Q1033-01MS Acquired: 1/13/2025 19:07:23 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6661612	.2390569	F 16.60309	5.807526	F 49.93375	.1651993
Stddev	.0018210	.0010076	.04490	.010390	.02896	.0008493
%RSD	.2733634	.4214961	.2704277	.1789024	.0580063	.5141006
#1	.6656559	.2402142	16.57302	5.817427	49.93839	.1654882
#2	.6681816	.2383744	16.58154	5.808444	49.90274	.1658665
#3	.6646462	.2385821	16.65470	5.796708	49.96011	.1642433

Elem	Sr4077
Units	ppm
Avg	1.245944
Stddev	.010175
%RSD	.8166275
#1	1.257475
#2	1.242129
#3	1.238228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2757.459	57450.67	12543.77	2378.527	3907.944
Stddev	3.915	156.31	11.87	1.077	4.665
%RSD	.1419609	.2720822	.0946190	.0452997	.1193850
#1	2761.938	57540.10	12536.27	2378.529	3913.202
#2	2755.744	57541.73	12537.59	2377.449	3906.329
#3	2754.694	57270.18	12557.45	2379.604	3904.300

Sample Name: Q1033-01MSD Acquired: 1/13/2025 19:11:36 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7975369	1.675719	.8922034	1.873667	.7695164	3.255904
Stddev	.0068921	.026885	.0021048	.016051	.0040329	.026477
%RSD	.8641740	1.604399	.2359072	.8566481	.5240843	.8131844

#1	.8051589	1.645766	.8920732	1.866598	.7697968	3.243890
#2	.7957080	1.683629	.8943703	1.892039	.7734018	3.237564
#3	.7917436	1.697762	.8901668	1.862364	.7653506	3.286257

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3072639	.1769465	.1854005	209.4716	.3906717	.1896979
Stddev	.0011208	.0009823	.0005103	.5258	.0011768	.0005288
%RSD	.3647819	.5551304	.2752444	.2510252	.3012240	.2787728

#1	.3068188	.1762180	.1853429	208.9845	.3895288	.1891786
#2	.3064341	.1780636	.1859371	209.4012	.3906065	.1902358
#3	.3085390	.1765578	.1849214	210.0291	.3918797	.1896791

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2840159	5.259320	.9630501	36.31758	.4706752	.0661084
Stddev	.0011109	.036391	.0009391	.05548	.0006413	.0004303
%RSD	.3911246	.6919341	.0975152	.1527682	.1362581	.6509053

#1	.2840769	5.238420	.9621126	36.27142	.4710313	.0666020
#2	.2850950	5.238201	.9639908	36.30218	.4710594	.0658123
#3	.2828758	5.301341	.9630469	36.37913	.4699348	.0659109

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	205.8833	.2787747	.2465474	20.17106	.3941332	.4489899
Stddev	.7187	.0004647	.0004705	.07422	.0012905	.0015409
%RSD	.3490973	.1666788	.1908163	.3679672	.3274340	.3431906

#1	206.6771	.2790254	.2465949	20.19493	.3932665	.4484752
#2	205.6960	.2782385	.2460550	20.08784	.3956163	.4507222
#3	205.2767	.2790602	.2469923	20.23041	.3935167	.4477722

Sample Name: Q1033-01MSD Acquired: 1/13/2025 19:11:36 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6607547	.2299260	F 16.55627	5.810481	F 50.87499	.1603570
Stddev	.0011690	.0020242	.07191	.020903	.17592	.0010805
%RSD	.1769138	.8803713	.4343420	.3597457	.3457937	.6738369
#1	.6612472	.2281036	16.56072	5.786489	50.71506	.1602445
#2	.6615968	.2295698	16.48224	5.820191	51.06342	.1593371
#3	.6594201	.2321047	16.62585	5.824762	50.84648	.1614894

Elem	Sr4077
Units	ppm
Avg	1.237661
Stddev	.010376
%RSD	.8383819
#1	1.226582
#2	1.247152
#3	1.239248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.190	57340.84	12730.18	2372.435	3862.803
Stddev	10.960	111.92	30.94	.912	12.717
%RSD	.4024641	.1951792	.2430487	.0384415	.3292297
#1	2719.882	57289.50	12761.67	2372.084	3858.429
#2	2714.264	57469.21	12699.82	2373.471	3852.850
#3	2735.422	57263.79	12729.05	2371.751	3877.130

Sample Name: Q1033-01A Acquired: 1/13/2025 19:15:50 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7822808	1.672897	.8865054	1.813233	.7573782	3.366723
Stddev	.0118134	.036655	.0116270	.026149	.0073518	.124297
%RSD	1.510126	2.191119	1.311559	1.442129	.9706937	3.691939

#1	.7920479	1.711454	.8978424	1.840262	.7653529	3.256644
#2	.7856441	1.668738	.8870653	1.811373	.7559112	3.342001
#3	.7691504	1.638499	.8746086	1.788063	.7508705	3.501523

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3122134	.1811740	.1843336	213.3894	.3955776	.1887140
Stddev	.0122628	.0055051	.0023543	7.7603	.0008381	.0026390
%RSD	3.927713	3.038581	1.277212	3.636664	.2118743	1.398418

#1	.3014439	.1761205	.1867603	206.2204	.3949073	.1913196
#2	.3096363	.1803613	.1841813	212.3181	.3953082	.1887797
#3	.3255600	.1870403	.1820591	221.6296	.3965173	.1860428

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2787761	5.297440	.9844673	37.19094	.4674656	.0675577
Stddev	.0033287	.049694	.0337551	1.32481	.0058156	.0003113
%RSD	1.194039	.9380724	3.428770	3.562175	1.244061	.4608112

#1	.2820323	5.255951	.9547963	36.00145	.4730238	.0672013
#2	.2789166	5.283855	.9774139	36.95264	.4679502	.0676954
#3	.2753794	5.352513	1.021192	38.61872	.4614230	.0677765

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	205.5004	.2840032	.2489258	20.17153	.4022802	.4476931
Stddev	.2682	.0102816	.0011404	.11324	.0122180	.0055005
%RSD	.1305112	3.620236	.4581431	.5614016	3.037182	1.228638

#1	205.4279	.2758720	.2484581	20.05864	.3908853	.4533318
#2	205.2759	.2805771	.2502258	20.17082	.4007737	.4474054
#3	205.7974	.2955604	.2480936	20.28512	.4151816	.4423420

Sample Name: Q1033-01A Acquired: 1/13/2025 19:15:50 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6611166	.2392308	F 16.88867	5.803311	F 49.79113	.1635397
Stddev	.0105950	.0094862	.09188	.067064	.67533	.0048204
%RSD	1.602594	3.965310	.5440628	1.155614	1.356316	2.947533
#1	.6710041	.2337672	16.79613	5.869980	50.50271	.1593563
#2	.6624122	.2337408	16.88998	5.804094	49.71157	.1624518
#3	.6499333	.2501846	16.97989	5.735859	49.15911	.1688111

Elem	Sr4077
Units	ppm
Avg	1.250227
Stddev	.034100
%RSD	2.727505
#1	1.223779
#2	1.238190
#3	1.288714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2787.182	56865.17	12473.55	2371.184	3942.596
Stddev	30.822	146.45	359.90	12.007	44.054
%RSD	1.105847	.2575425	2.885287	.5063862	1.117374
#1	2758.091	56858.82	12813.12	2374.965	3899.548
#2	2783.973	56721.99	12511.22	2357.741	3940.649
#3	2819.484	57014.69	12096.29	2380.846	3987.591

Sample Name: CCV04 Acquired: 1/13/2025 19:20:03 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.714485	4.590627	4.831987	4.667247	4.717291	9.455664	9.432222
Stddev	.018057	.014055	.008530	.018962	.015620	.040995	.170835
%RSD	.3830195	.3061774	.1765240	.4062828	.3311166	.4335490	1.811182

#1	4.699347	4.574408	4.825078	4.648486	4.704353	9.430177	9.586583
#2	4.709636	4.599248	4.829362	4.666853	4.712877	9.433863	9.248674
#3	4.734472	4.598224	4.841520	4.686404	4.734642	9.502953	9.461407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2447948	2.423952	24.00876	.9844986	2.414521	1.199577	4.774054
Stddev	.0013524	.004257	.16280	.0017365	.004815	.002133	.006137
%RSD	.5524523	.1756390	.6780730	.1763870	.1993995	.1778488	.1285494

#1	.2441339	2.420941	23.88945	.9862137	2.411804	1.198978	4.767219
#2	.2438999	2.422092	23.94262	.9827414	2.411678	1.197808	4.775852
#3	.2463505	2.428823	24.19422	.9845405	2.420080	1.201947	4.779092

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.395087	24.10176	2.417363	1.205445	23.22413	2.391724	2.437105
Stddev	.012214	.21551	.003598	.005370	.06271	.016958	.010948
%RSD	.5099780	.8941743	.1488265	.4455146	.2700322	.7090103	.4492219

#1	2.385159	23.93514	2.414365	1.209447	23.28906	2.378034	2.446701
#2	2.391376	24.02499	2.416371	1.199342	23.21944	2.386445	2.425180
#3	2.408726	24.34515	2.421352	1.207547	23.16390	2.410693	2.439435

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.32475	4.871171	4.805981	4.808700	4.744631	4.740277	4.710645
Stddev	.01917	.034324	.013356	.009424	.022528	.007541	.009429
%RSD	.0821902	.7046278	.2778995	.1959727	.4748187	.1590760	.2001622

#1	23.33293	4.867568	4.794159	4.798869	4.735881	4.740369	4.700589
#2	23.30285	4.838791	4.803314	4.809575	4.727791	4.732692	4.712058
#3	23.33848	4.907154	4.820469	4.817656	4.770222	4.747772	4.719287

Sample Name: CCV04 Acquired: 1/13/2025 19:20:03 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.643833	4.663890	4.768266
Stddev	.017894	.014343	.026802
%RSD	.3853270	.3075244	.5620869
#1	4.634038	4.659217	4.752303
#2	4.632976	4.652468	4.753286
#3	4.664487	4.679987	4.799209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3051.791	62500.64	12424.88	2633.190	4325.258
Stddev	8.012	100.43	70.24	9.805	8.762
%RSD	.2625193	.1606879	.5653113	.3723718	.2025869
#1	3060.449	62440.49	12456.12	2625.574	4334.851
#2	3050.283	62616.58	12474.08	2644.253	4323.245
#3	3044.640	62444.84	12344.44	2629.743	4317.677

Sample Name: CCB04 Acquired: 1/13/2025 19:24:15 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011208	.0000025	.0001047	-.000288	.0008315	.0062881	-.000426
Stddev	.0006758	.0004923	.0001678	.000528	.0013141	.0033271	.000624
%RSD	60.30032	19986.17	160.3214	183.4031	158.0479	52.91060	146.6599

#1	.0019005	.0000149	.0002282	-.000184	.0012754	.0024805	.000178
#2	.0007026	-.000496	.0001723	-.000860	-.000647	.0086346	-.001068
#3	.0007593	.000488	-.000086	.000180	.001866	.0077492	-.000387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000253	.0000035	-.000681	.0000709	.0000015	-.000206	-.002957
Stddev	.0000230	.0000593	.004901	.0003053	.0001973	.000225	.005111
%RSD	90.88112	1706.310	719.1150	430.5710	13071.99	109.2643	172.8140

#1	.0000019	-.000065	-.003427	.0001609	.0002174	.000044	.002892
#2	.0000478	.000034	-.003594	-.000269	-.000169	-.000268	-.006561
#3	.0000261	.000041	.004976	.000321	-.000044	-.000393	-.005202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002937	-.001680	.0000963	.0001271	.1217964	-.001199	.0000935
Stddev	.0002588	.009777	.0003171	.0003011	.0065229	.001354	.0001650
%RSD	88.10413	581.9167	329.4557	236.8195	5.355576	112.9492	176.5034

#1	.0002736	-.011649	-.000049	.0001727	.1210423	-.000974	-.000078
#2	.0005619	-.001283	.000460	.0004029	.1156834	-.002652	.000252
#3	.0000456	.007892	-.000122	-.000194	.1286636	.000029	.000107

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1052335	-.005660	.0000227	.0002755	-.000694	.0046486	-.001781
Stddev	.0078288	.000537	.0003167	.0005359	.000205	.0045480	.002963
%RSD	7.439404	9.492531	1396.278	194.5327	29.61945	97.83631	166.3683

#1	.0962324	-.005438	-.000193	-.000298	-.000524	.0021747	-.005093
#2	.1104582	-.006273	.000386	.000362	-.000922	.0098974	.000616
#3	.1090099	-.005270	-.000125	.000763	-.000635	.0018738	-.000865

Sample Name: CCB04 Acquired: 1/13/2025 19:24:15 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0021804	.0035248	.0000447
Stddev	.0012299	.0004343	.0000214
%RSD	56.40628	12.32127	47.96581
#1	.0013265	.0030653	.0000570
#2	.0035901	.0035808	.0000571
#3	.0016246	.0039285	.0000199

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3168.298	64294.79	13184.74	2785.891	4739.356
Stddev	14.582	78.27	40.55	7.385	22.826
%RSD	.4602475	.1217383	.3075235	.2650956	.4816349
#1	3176.973	64218.38	13194.33	2778.117	4749.918
#2	3176.458	64374.80	13140.26	2792.814	4754.989
#3	3151.463	64291.19	13219.63	2786.742	4713.161

Sample Name: LR1 Acquired: 1/13/2025 19:28:11 Type: Unk
Method: NON EPA-6010-200.7(v2599) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486499	.1046548	.0431688	-.150591	-.010360	1971.815	.0139299
Stddev	.0060856	.0045574	.0069317	.005483	.001080	13.694	.0003354
%RSD	12.50903	4.354689	16.05711	3.641229	10.42182	.6945026	2.407826

#1	.0524949	.1004881	.0496873	-.154810	-.009181	1960.636	.0139060
#2	.0518211	.1095218	.0358871	-.152569	-.011300	1967.718	.0142766
#3	.0416335	.1039544	.0439321	-.144393	-.010598	1987.090	.0136071

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086645	.0155860	1826.936	.0010594	.0288162	-.683929	1002.212
Stddev	.0000787	.0016270	8.339	.0006919	.0001589	.014319	15.354
%RSD	.9080083	10.43858	.4564531	65.30873	.5512622	2.093687	1.532039

#1	.0087008	.0154090	1834.930	.0005424	.0287889	-.682361	999.807
#2	.0087184	.0172943	1818.290	.0018454	.0286728	-.670458	988.202
#3	.0085742	.0140548	1827.588	.0007904	.0289870	-.698968	1018.626

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.077867	1671.707	.0071238	-.060968	1899.268	.0609321	.0576446
Stddev	.000834	10.275	.0005694	.001002	34.446	.0019989	.0015599
%RSD	1.070797	.6146149	7.993066	1.644027	1.813626	3.280561	2.706030

#1	-.078508	1683.433	.0065459	-.059933	1899.475	.0631479	.0576030
#2	-.078169	1667.406	.0076843	-.061934	1864.719	.0592644	.0561060
#3	-.076925	1664.282	.0071412	-.061037	1933.610	.0603840	.0592249

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1226.346	.6143116	-.003906	.0140614	-.034645	.1622874	.0715717
Stddev	6.626	.0218315	.000336	.0037617	.000743	.0083351	.0070658
%RSD	.5403238	3.553818	8.594043	26.75168	2.143999	5.136006	9.872357

#1	1227.247	.6066578	-.003553	.0112256	-.033842	.1717838	.0794885
#2	1219.315	.5973375	-.003943	.0126300	-.035307	.1588949	.0659048
#3	1232.475	.6389395	-.004222	.0183286	-.034785	.1561836	.0693219

Sample Name: LR1 Acquired: 1/13/2025 19:28:11 Type: Unk
Method: NON EPA-6010-200.7(v2599) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.208564	-.292454	-.990680
Stddev	.002758	.001801	.015462
%RSD	1.322477	.6159870	1.560724
#1	-.206901	-.293822	-.988263
#2	-.207043	-.290413	-.976570
#3	-.211748	-.293126	-1.00721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2171.134	42788.01	10823.39	1799.239	2569.746
Stddev	6.124	605.17	25.62	25.820	12.059
%RSD	.2820644	1.414342	.2367276	1.435050	.4692514
#1	2176.623	43142.12	10805.08	1816.662	2579.730
#2	2172.250	43132.66	10812.43	1811.479	2573.159
#3	2164.528	42089.24	10852.67	1769.575	2556.349

Sample Name: LR2 Acquired: 1/13/2025 19:33:08 Type: Unk
Method: NON EPA-6010-200.7(v2599) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101974	-.022785	260.6401	.0054411	-.001194	.0685377	^F *****
Stddev	.0032020	.000980	1.3207	.0024109	.001135	.0098847	-----
%RSD	31.40066	4.300142	.5067048	44.30787	95.02058	14.42237	-----

#1	.0098210	-.023769	259.4917	.0046343	-.002003	.0590945	^ ----
#2	.0135710	-.022776	260.3454	.0035372	.000103	.0677070	^ ----
#3	.0072001	-.021809	262.0832	.0081519	-.001683	.0788115	^ ----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003077	-.004671	.3442913	.0106448	-.013933	255.7383	.0099604
Stddev	.000036	.000082	.0243109	.0000662	.000161	1.5776	.0112073
%RSD	1.177668	1.753946	7.061147	.6217025	1.157584	.6168882	112.5184

#1	-.003045	-.004598	.3179663	.0107075	-.014035	254.4705	-.002764
#2	-.003116	-.004654	.3490118	.0106514	-.014015	255.2394	.014281
#3	-.003070	-.004760	.3658957	.0105756	-.013747	257.5051	.018364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.79804	-.017091	49.36147	.0008185	.3659033	-.015026	34.07307
Stddev	.20592	.015622	.28023	.0002343	.0051576	.002182	.27449
%RSD	.5047423	91.40561	.5677000	28.61948	1.409541	14.52371	.8055802

#1	41.02448	-.033401	49.12027	.0010009	.3718425	-.012588	34.38980
#2	40.74766	-.002263	49.29527	.0009003	.3625526	-.016795	33.90461
#3	40.62197	-.015609	49.66887	.0005543	.3633149	-.015696	33.92479

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2667291	-.010778	-.007256	-.004568	-.036695	-.013268	2.535711
Stddev	.0201320	.000221	.000250	.000100	.000444	.005050	.017939
%RSD	7.547744	2.049186	3.442997	2.190138	1.209922	38.05898	.7074419

#1	.2853239	-.010525	-.007302	-.004462	-.036182	-.014612	2.535062
#2	.2695135	-.010931	-.007480	-.004661	-.036945	-.017511	2.553965
#3	.2453497	-.010878	-.006986	-.004580	-.036958	-.007683	2.518105

Sample Name: LR2 Acquired: 1/13/2025 19:33:08 Type: Unk
Method: NON EPA-6010-200.7(v2599) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.008185	.0026903	.0013493
Stddev	.003397	.0005683	.0000309
%RSD	41.49811	21.12510	2.289181
#1	-.010648	.0033393	.0013341
#2	-.009597	.0022814	.0013290
#3	-.004310	.0024502	.0013849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2827.595	60976.89	12925.21	2560.260	4497.951
Stddev	22.354	348.00	32.09	8.656	23.506
%RSD	.7905498	.5707093	.2482494	.3380960	.5225862
#1	2845.818	60855.53	12895.23	2554.434	4516.811
#2	2834.315	61369.32	12921.34	2570.206	4505.424
#3	2802.652	60705.82	12959.06	2556.139	4471.617

Sample Name: CCV05 Acquired: 1/13/2025 19:37:27 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.724787	4.599934	4.810704	4.692840	4.713925	9.398166	9.314617
Stddev	.008237	.049538	.012017	.006325	.007066	.068545	.206004
%RSD	.1743286	1.076939	.2497877	.1347771	.1498940	.7293393	2.211620

#1	4.715439	4.614186	4.799199	4.700028	4.705960	9.477231	9.544816
#2	4.727942	4.640785	4.823174	4.690366	4.716377	9.361798	9.251419
#3	4.730980	4.544832	4.809739	4.688127	4.719438	9.355471	9.147615

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2441420	2.412615	23.88115	.9875540	2.392500	1.200323	4.770278
Stddev	.0013556	.007572	.15948	.0093980	.006347	.001590	.056213
%RSD	.5552474	.3138329	.6678251	.9516400	.2653077	.1324811	1.178392

#1	.2456902	2.404845	24.05396	.9844202	2.385644	1.198545	4.747697
#2	.2431680	2.419971	23.73964	.9801233	2.398173	1.200815	4.728868
#3	.2435678	2.413029	23.84984	.9981184	2.393684	1.201609	4.834270

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.411238	24.13453	2.402210	1.206188	23.23943	2.385822	2.408323
Stddev	.016084	.13277	.007020	.012247	.19390	.008478	.024802
%RSD	.6670528	.5501276	.2922488	1.015354	.8343453	.3553287	1.029846

#1	2.429749	24.27051	2.394414	1.201987	23.20497	2.395403	2.410750
#2	2.403288	24.00522	2.408031	1.196594	23.06507	2.382773	2.382396
#3	2.400677	24.12786	2.404186	1.219982	23.44825	2.379291	2.431821

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.34049	4.844170	4.751227	4.794063	4.707945	4.774418	4.640137
Stddev	.21634	.035285	.009732	.015018	.031002	.059307	.007109
%RSD	.9268742	.7283993	.2048380	.3132646	.6585025	1.242188	.1531966

#1	23.31905	4.884913	4.742522	4.779455	4.743691	4.750127	4.635709
#2	23.13568	4.823920	4.761734	4.809460	4.688403	4.731112	4.648336
#3	23.56675	4.823676	4.749425	4.793273	4.691741	4.842014	4.636365

Sample Name: CCV05 Acquired: 1/13/2025 19:37:27 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.640227	4.610123	4.798311
Stddev	.011429	.035500	.050165
%RSD	.2463079	.7700410	1.045479
#1	4.636108	4.650656	4.850734
#2	4.653145	4.595154	4.793438
#3	4.631429	4.584560	4.750759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3040.500	61281.87	12317.34	2604.166	4293.910
Stddev	5.328	639.17	83.20	30.803	9.228
%RSD	.1752378	1.043007	.6755060	1.182822	.2149041
#1	3046.524	61428.86	12221.41	2599.940	4304.395
#2	3038.570	61834.74	12369.95	2636.864	4287.025
#3	3036.405	60582.00	12360.65	2575.695	4290.310

Sample Name: CCB05 Acquired: 1/13/2025 19:41:39 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004386	-.001130	.0004316	-.001102	.0003403	.0027427	-.001562
Stddev	.0017115	.000609	.0002782	.000733	.0002955	.0031510	.000522
%RSD	390.2503	53.85150	64.47159	66.51523	86.84279	114.8840	33.41239

#1	-.000219	-.001609	.0005553	-.001104	.0004148	.0050916	-.002139
#2	-.000846	-.000445	.0006264	-.001834	.0000146	.0039748	-.001121
#3	.002381	-.001337	.0001129	-.000368	.0005914	-.000838	-.001427

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000618	.0000131	.0020994	.0000503	.0001360	.0002434	-.003460
Stddev	.0000553	.0000154	.0074778	.0002062	.0001179	.0003747	.002254
%RSD	89.46317	117.8895	356.1876	410.3480	86.66938	153.9461	65.13020

#1	.0000472	.0000055	.0067542	.0002548	.0000232	.0001041	-.002699
#2	.0001229	.0000030	.0060701	-.000158	.0002583	-.000042	-.005997
#3	.0000153	.0000309	-.006526	.000054	.0001264	.000668	-.001686

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002282	.0056174	-.000094	-.000035	.2083485	-.000573	.0000021
Stddev	.0002284	.0040443	.000223	.000263	.0054308	.000583	.0000955
%RSD	100.1055	71.99463	236.6214	751.5311	2.606592	101.7600	4645.852

#1	.0000390	.0074176	.000144	.000115	.2105678	-.000167	.0000252
#2	.0004819	.0084490	-.000129	.000119	.2021595	-.001242	.0000839
#3	.0001636	.0009857	-.000298	-.000339	.2123181	-.000311	-.000103

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1730731	-.005922	-.000045	-.000248	.0001872	.0016864	-.000033
Stddev	.0163623	.000133	.000237	.000078	.0004447	.0038947	.001207
%RSD	9.453979	2.248636	522.1448	31.45673	237.5794	230.9414	3687.365

#1	.1764852	-.006062	-.000307	-.000255	.0006999	.0061760	-.000571
#2	.1874603	-.005798	.000015	-.000167	-.000094	-.000333	-.000877
#3	.1552738	-.005904	.000155	-.000323	-.000045	-.000784	.001350

Sample Name: CCB05 Acquired: 1/13/2025 19:41:39 Type: Unk
 Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
 Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000701	.0008727	.0000400
Stddev	.001917	.0003173	.0000139
%RSD	273.5209	36.36575	34.73340
#1	.000571	.0009137	.0000292
#2	-.002905	.0005368	.0000351
#3	.000232	.0011675	.0000557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3161.868	63117.07	13090.61	2728.457	4761.253
Stddev	7.958	885.83	191.12	33.663	16.363
%RSD	.2517011	1.403466	1.459969	1.233759	.3436646
#1	3166.019	62637.86	13295.53	2708.761	4770.312
#2	3152.692	64139.28	12917.21	2767.326	4742.365
#3	3166.893	62574.09	13059.09	2709.284	4771.084

Sample Name: Q1032-01 Acquired: 1/13/2025 19:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0758949	-.000206	1.061587	-.012029	.0205600	113.5447
Stddev	.0029880	.001602	.002983	.000904	.0033151	.3204
%RSD	3.937021	776.3223	.2810404	7.511628	16.12394	.2821749

#1	.0764795	-.000504	1.061890	-.012352	.0228076	113.3720
#2	.0726578	-.001638	1.064408	-.011009	.0167527	113.9144
#3	.0785474	.001523	1.058464	-.012727	.0221197	113.3477

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.210702	.0077345	.0171506	284.9553	.2733344	.1402673
Stddev	.004750	.0000690	.0003209	.3781	.0008725	.0002808
%RSD	.3923658	.8927967	1.870840	.1327050	.3191980	.2001535

#1	1.205301	.0077181	.0174121	284.5335	.2738833	.1399579
#2	1.212577	.0078103	.0172472	285.2641	.2737915	.1405057
#3	1.214229	.0076751	.0167926	285.0683	.2723283	.1403384

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5698771	168.3079	6.409206	99.45886	.3991731	-.000784
Stddev	.0020646	.8543	.023968	.33769	.0015730	.000538
%RSD	.3622793	.5075661	.3739659	.3395302	.3940618	68.53264

#1	.5702625	167.6495	6.403616	99.20819	.3994825	-.001380
#2	.5717217	168.0009	6.435476	99.84287	.4005684	-.000639
#3	.5676470	169.2732	6.388528	99.32553	.3974684	-.000335

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	248.8804	.2903615	6.428511	72.88470	.3519352	.0424153
Stddev	.8428	.0015256	.009905	.10705	.0002420	.0004159
%RSD	.3386365	.5254271	.1540811	.1468810	.0687517	.9805144

#1	248.2691	.2899854	6.439915	72.97014	.3519661	.0419602
#2	248.5303	.2920400	6.423574	72.76462	.3521602	.0425101
#3	249.8418	.2890591	6.422045	72.91935	.3516792	.0427757

Sample Name: Q1032-01 Acquired: 1/13/2025 19:45:59 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193073	2.611594	F 60.60680	7.644896	F 323.5483	.2602490
Stddev	.0011044	.011786	.18319	.026656	.9829	.0015239
%RSD	5.720084	.4512797	.3022616	.3486720	.3037842	.5855493
#1	.0190797	2.597992	60.48477	7.636831	323.6640	.2586016
#2	.0205077	2.618773	60.51819	7.674653	324.4682	.2616081
#3	.0183343	2.618017	60.81745	7.623204	322.5127	.2605375

Elem	Sr4077
Units	ppm
Avg	2.811692
Stddev	.006563
%RSD	.2334147
#1	2.818704
#2	2.805697
#3	2.810674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3066.279	64704.50	15075.26	2656.690	3597.617
Stddev	6.233	165.96	30.32	5.055	9.345
%RSD	.2032803	.2564897	.2011136	.1902630	.2597487
#1	3064.968	64634.50	15108.67	2659.915	3599.722
#2	3060.806	64893.99	15049.49	2659.291	3587.400
#3	3073.063	64585.01	15067.61	2650.865	3605.730

Sample Name: CCV06 Acquired: 1/13/2025 19:50:28 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.782658	4.617530	4.852156	4.759655	4.771600	9.506570	9.494223
Stddev	.024705	.039994	.011689	.028371	.026734	.098972	.112491
%RSD	.5165472	.8661360	.2409039	.5960709	.5602795	1.041089	1.184838

#1	4.809929	4.663668	4.865252	4.792360	4.802354	9.392289	9.365532
#2	4.776271	4.592732	4.848439	4.744938	4.753908	9.564244	9.573838
#3	4.761774	4.596189	4.842778	4.741667	4.758538	9.563178	9.543299

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2456407	2.438070	24.06309	1.004512	2.421858	1.206973	4.889288
Stddev	.0035401	.009519	.29451	.005847	.009888	.005642	.029852
%RSD	1.441155	.3904399	1.223915	.5820318	.4082703	.4674229	.6105572

#1	.2416193	2.447658	23.73002	1.002495	2.432429	1.213476	4.884929
#2	.2482863	2.437930	24.28910	1.011100	2.420308	1.204046	4.921079
#3	.2470167	2.428622	24.17013	.999940	2.412837	1.203396	4.861855

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.432015	24.30993	2.428892	1.230036	24.02992	2.409594	2.476496
Stddev	.029241	.37486	.010451	.006981	.17820	.025257	.018550
%RSD	1.202345	1.542022	.4302672	.5675245	.7415812	1.048188	.7490274

#1	2.398332	23.88123	2.440388	1.227013	24.17879	2.380528	2.477306
#2	2.450888	24.57607	2.426320	1.238019	24.07852	2.426195	2.494627
#3	2.446826	24.47251	2.419967	1.225076	23.83247	2.422061	2.457554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.01131	4.860748	4.803514	4.845017	4.748399	5.103439	4.671445
Stddev	.12884	.070944	.027249	.021277	.041488	.033599	.032228
%RSD	.5365652	1.459529	.5672659	.4391456	.8737272	.6583575	.6899009

#1	24.08834	4.779659	4.834970	4.869000	4.701226	5.097031	4.705487
#2	24.08302	4.911363	4.788423	4.837644	4.779219	5.139780	4.667446
#3	23.86258	4.891223	4.787150	4.828408	4.764751	5.073505	4.641403

Sample Name: CCV06 Acquired: 1/13/2025 19:50:28 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.697852	4.670662	4.813418
Stddev	.027181	.031589	.040146
%RSD	.5785838	.6763239	.8340450
#1	4.729178	4.636201	4.767073
#2	4.683862	4.698244	4.835682
#3	4.680515	4.677543	4.837497

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.550	60259.29	12374.01	2569.161	4272.202
Stddev	16.287	251.72	165.34	14.181	21.396
%RSD	.5384951	.4177358	1.336159	.5519773	.5008281
#1	3006.238	60284.22	12564.34	2574.616	4250.182
#2	3029.995	59996.04	12265.94	2553.062	4273.508
#3	3037.417	60497.63	12291.73	2579.804	4292.915

Sample Name: CCB06 Acquired: 1/13/2025 19:54:39 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001197	.0013030	-.000537	.0004481	.0017599	.0069510	.0000290
Stddev	.001623	.0013568	.001368	.0006239	.0004563	.0031003	.0005755
%RSD	135.6528	104.1274	254.6708	139.2320	25.92470	44.60258	1984.803

#1	-.002072	.0012793	.001025	.0011682	.0012336	.0058259	-.000635
#2	-.002195	.0026715	-.001117	.0001017	.0020438	.0104567	.000337
#3	.000677	-.000042	-.001520	.0000743	.0020023	.0045702	.000385

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000357	.0000079	.0031140	-.000038	.0000186	-.000006	-.005038
Stddev	.0000225	.0000791	.0028056	.000185	.0000316	.000088	.003757
%RSD	63.08826	999.2906	90.09768	481.1914	170.3495	1384.816	74.56131

#1	.0000613	-.000081	.0058526	-.000000	.0000371	-.000021	-.000885
#2	.0000267	.000036	.0002458	.000124	.0000366	.000088	-.008198
#3	.0000190	.000069	.0032437	-.000239	-.000018	-.000086	-.006032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001299	-.005541	-.000054	.0000699	.1574963	-.001028	.0000111
Stddev	.0000833	.003796	.000268	.0001373	.0042596	.000452	.0001857
%RSD	64.06462	68.51402	491.3761	196.5575	2.704579	44.02186	1669.884

#1	.0001025	-.004413	-.000340	.0001293	.1528005	-.000621	.0001164
#2	.0002235	-.002436	.000190	.0001674	.1611116	-.000947	.0001203
#3	.0000639	-.009774	-.000013	-.000087	.1585769	-.001515	-.000203

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1332076	-.004918	.0000358	.0000824	.0000417	.0146565	-.000529
Stddev	.0074249	.000168	.0003144	.0006185	.0000921	.0063898	.001149
%RSD	5.573931	3.406277	876.9221	750.2983	220.7088	43.59673	217.1910

#1	.1398061	-.004904	.0001931	-.000632	.0001009	.0088451	-.001731
#2	.1251677	-.004758	-.000326	.000423	.0000887	.0214992	-.000415
#3	.1346491	-.005092	.000241	.000456	-.000064	.0136253	.000558

Sample Name: CCB06 Acquired: 1/13/2025 19:54:39 Type: Unk
Method: NON EPA-6010-200.7(v2489) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0048994	.0022209	.0000606
Stddev	.0003313	.0012115	.0000233
%RSD	6.763013	54.54819	38.49337
#1	.0045318	.0008572	.0000339
#2	.0049909	.0031728	.0000770
#3	.0051753	.0026328	.0000709

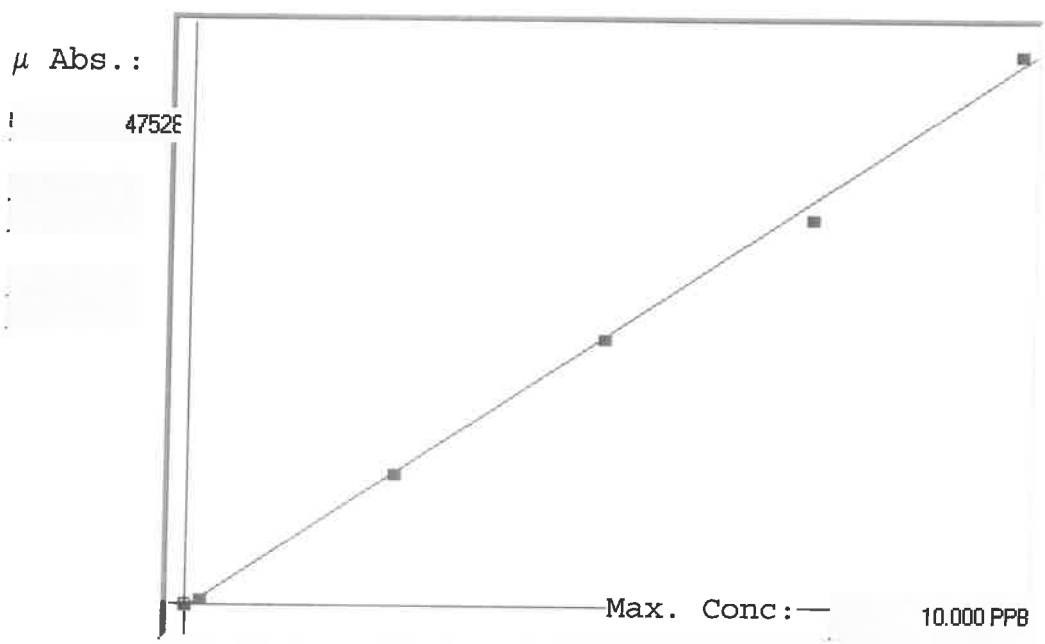
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3194.943	64206.78	13112.55	2767.089	4778.068
Stddev	3.864	155.67	57.03	12.740	6.079
%RSD	.1209338	.2424502	.4348904	.4604066	.1272360
#1	3191.523	64102.64	13079.02	2753.036	4771.585
#2	3199.134	64131.98	13178.39	2770.351	4778.976
#3	3194.172	64385.74	13080.23	2777.882	4783.642

LB134165

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000
B= 2.1337e-004
C= 6.9369e-002
Rho= 0.9991618
Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%
0.0	0.000	0.091	0.091	103	0.000	103					
0.2	0.200	0.201	0.001	615	0.0 %	615					1
2.5	2.500	2.502	0.002	11399	0.0 %	11399					0
5.0	5.000	4.986	-0.014	23044	0.0 %	23044					0
7.5	7.500	7.210	-0.290	33466	0.0 %	33466					-4
10.0	10.000	10.210	0.210	47528	0.0 %	47528					2

LB134165 INSTRUMENT ID : CV1

Method: 7470A

Operator: Admin

Date of Analysis: 06 Jan 2025 11:32:05

Sample ID	Extended ID	µ Abs.	Conc.	Std Conc	Method	Units	Date	Type	Type
0.0 - 1	50	103	-	0.0000	7470A	PPB	06 Jan 2025 11:45:17	S	Std
0.2 - 1	50.2	615	-	0.2000	7470A	PPB	06 Jan 2025 11:47:37	S	Std
2.5 - 1	12.5	11399	-	2.5000	7470A	PPB	06 Jan 2025 11:49:55	S	Std
5.0 - 1	55	23044	-	5.0000	7470A	PPB	06 Jan 2025 11:52:12	S	Std
7.5 - 1	57.5	33466	-	7.5000	7470A	PPB	06 Jan 2025 11:57:06	S	Std
10.0 - 1	510	47528	-	10.0000	7470A	PPB	06 Jan 2025 12:09:41	S	Std
ICV43 - 1	ICV43	18430	4.0017	-	7470A	PPB	06 Jan 2025 12:17:56	U	SMPL
ICB43 - 1	ICB43	-245	0.0171	-	7470A	PPB	06 Jan 2025 12:20:11	U	SMPL
CCV03 - 1	CCV03	25371	5.4827	-	7470A	PPB	06 Jan 2025 12:30:30	U	SMPL
CCB03 - 1	CCB03	-292	0.0071	-	7470A	PPB	06 Jan 2025 12:32:45	U	SMPL
CRA - 1	CRA	665	0.2113	-	7470A	PPB	06 Jan 2025 12:37:40	U	SMPL
HighStd - 1	HighStd	48630	10.4455	-	7470A	PPB	06 Jan 2025 12:39:55	U	SMPL
ChkStd - 1	ChkStd	30115	6.4950	-	7470A	PPB	06 Jan 2025 12:42:10	U	SMPL
PB165950BL - 1	PBW	-228	0.0207	-	7470A	PPB	06 Jan 2025 12:44:28	U	SMPL
PB165950BS - 1	LCSW	17466	3.7961	-	7470A	PPB	06 Jan 2025 12:46:46	U	SMPL
P5398-02 - 1	341-349	-45	0.0598	-	7470A	PPB	06 Jan 2025 12:49:02	U	SMPL
P5398-02DUP - 1	341-349DUP	138	0.0988	-	7470A	PPB	06 Jan 2025 12:53:59	U	SMPL
P5398-02MS - 1	341-349MS	18326	3.9796	-	7470A	PPB	06 Jan 2025 12:56:15	U	SMPL
P5398-02MSD - 1	341-349MSD	18446	4.0052	-	7470A	PPB	06 Jan 2025 12:58:33	U	SMPL
PB165951BL - 1	PBW	-204	0.0258	-	7470A	PPB	06 Jan 2025 13:00:49	U	SMPL
CCV04 - 1	CCV04	25365	5.4815	-	7470A	PPB	06 Jan 2025 13:03:07	U	SMPL
CCB04 - 1	CCB04	-243	0.0175	-	7470A	PPB	06 Jan 2025 13:05:22	U	SMPL
PB165951BS - 1	LCSW	18819	4.0847	-	7470A	PPB	06 Jan 2025 13:07:40	U	SMPL
P5386-05 - 1	MOO-24-00397	506	0.1773	-	7470A	PPB	06 Jan 2025 13:09:55	U	SMPL
P5386-05DUP - 1	MOO-24-00397DUP	701	0.2189	-	7470A	PPB	06 Jan 2025 13:12:12	U	SMPL
P5386-05MS - 1	MOO-24-00397MS	17318	3.7645	-	7470A	PPB	06 Jan 2025 13:14:29	U	SMPL
P5386-05MSD - 1	MOO-24-00397MSD	18870	4.0956	-	7470A	PPB	06 Jan 2025 13:16:47	U	SMPL
P5411-02 - 1	COMP	393	0.1532	-	7470A	PPB	06 Jan 2025 13:19:05	U	SMPL
P5398-02LX5 - 1		-20	0.0651	-	7470A	PPB	06 Jan 2025 13:27:02	U	SMPL
P5398-02A - 1		17297	3.7600	-	7470A	PPB	06 Jan 2025 13:29:18	U	SMPL
P5386-05LX5 - 1		-431	-0.0226	-	7470A	PPB	06 Jan 2025 13:31:35	U	SMPL
P5386-05A - 1		17084	3.7146	-	7470A	PPB	06 Jan 2025 13:33:52	U	SMPL
CCV05 - 1	CCV05	21168	4.5859	-	7470A	PPB	06 Jan 2025 13:36:08	U	SMPL
CCB05 - 1	CCB05	-168	0.0357	-	7470A	PPB	06 Jan 2025 13:38:26	U	SMPL
PB165934TB - 1	PB165934TB	82	0.0869	-	7470A	PPB	06 Jan 2025 13:40:43	U	SMPL
CCV06 - 1	CCV06	21180	4.5885	-	7470A	PPB	06 Jan 2025 13:42:58	U	SMPL
CCB06 - 1	CCB06	-154	0.0365	-	7470A	PPB	06 Jan 2025 13:45:14	U	SMPL

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID : ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOC K #1 2. N/A

Start Digest Date: 01/09/2025 Time : 10:25 Temp : 96 °C

End Digest Date: 01/09/2025 Time : 13:30 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. # 1

Dig Technician Signature: *SKJ*

Supervisor Signature: *SKJ*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	MP83498
1:1 HCL	5.00	M6126
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL #50 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/09/25 14:30	<i>SKJ. met digestion</i>	<i>SKJ (metals lab)</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P5411-02	COMP	<2	50	25	Light brown	N/A	Cloudy	N/A	N/A	1
PB165996BL	PBW996	<2	50	25	Colorless	N/A	Clear	N/A	N/A	2
PB165996BS	LCS996	<2	50	25	Colorless	N/A	Clear	N/A	M6000,M6009	3
Q1032-01	50492	<2	50	25	Brown	N/A	Cloudy	N/A	N/A	4
Q1033-01	28612	<2	50	25	Colorless	N/A	Clear	N/A	N/A	5
Q1033-01MS	28612MS	<2	50	25	Colorless	N/A	Clear	N/A	M6000,M6009	7
Q1033-01MSD	28612MSD	<2	50	25	Colorless	N/A	Clear	N/A	M6000,M6009	8
Q1033-01DUP	28612DUP	<2	50	25	Colorless	N/A	Clear	N/A	N/A	6

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB165996

Worklist ID : 186831

Department : Digestion

Date : 01-09-2025 09:46:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5411-02	COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ARAM01	L11	12/31/2024	6010D
Q1032-01	50492	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	N41	01/08/2025	6010D
Q1033-01	28612	Water	Metals PSEG Group2	1:1 HNO3 to pH < 2	PSEG03	N41	01/08/2025	6010D

Date/Time 01/09/25 10:05

Raw Sample Received by: SLD met division

Raw Sample Relinquished by: SLD 54

Date/Time 01/09/25 11:05

Raw Sample Received by: SLD met division

Raw Sample Relinquished by: SLD met division

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134165

Review By	Ketan	Review On	1/6/2025 10:59:55 PM
Supervise By	mohan	Supervise On	1/6/2025 11:01:08 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83855,MP83856,MP83857,MP83858,MP83859,MP83860		
ICV Standard	MP83861		
CCV Standard	MP83863		
ICSA Standard			
CRI Standard	MP83865		
LCS Standard			
Chk Standard	MP83862,MP83864,MP83866,MP83870		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/06/25 11:45		Mohan	OK
2	S0.2	S0.2	CAL2	01/06/25 11:47		Mohan	OK
3	S2.5	S2.5	CAL3	01/06/25 11:49		Mohan	OK
4	S5	S5	CAL4	01/06/25 11:52		Mohan	OK
5	S7.5	S7.5	CAL5	01/06/25 11:57		Mohan	OK
6	S10	S10	CAL6	01/06/25 12:09		Mohan	OK
7	ICV43	ICV43	ICV	01/06/25 12:17		Mohan	OK
8	ICB43	ICB43	ICB	01/06/25 12:20		Mohan	OK
9	CCV03	CCV03	CCV	01/06/25 12:30		Mohan	OK
10	CCB03	CCB03	CCB	01/06/25 12:32		Mohan	OK
11	CRA	CRA	CRDL	01/06/25 12:37		Mohan	OK
12	HighStd	HighStd	HIGH STD	01/06/25 12:39		Mohan	OK
13	ChkStd	ChkStd	SAM	01/06/25 12:42		Mohan	OK
14	PB165950BL	PB165950BL	MB	01/06/25 12:44		Mohan	OK
15	PB165950BS	PB165950BS	LCS	01/06/25 12:46		Mohan	OK
16	P5398-02	341-349	SAM	01/06/25 12:49		Mohan	OK
17	P5398-02DUP	341-349DUP	DUP	01/06/25 12:53		Mohan	OK
18	P5398-02MS	341-349MS	MS	01/06/25 12:56		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134165

Review By	Ketan	Review On	1/6/2025 10:59:55 PM
Supervise By	mohan	Supervise On	1/6/2025 11:01:08 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83855,MP83856,MP83857,MP83858,MP83859,MP83860		
ICV Standard	MP83861		
CCV Standard	MP83863		
ICSA Standard			
CRI Standard	MP83865		
LCS Standard			
Chk Standard	MP83862,MP83864,MP83866,MP83870		

19	P5398-02MSD	341-349MSD	MSD	01/06/25 12:58		Mohan	OK
20	PB165951BL	PB165951BL	MB	01/06/25 13:00		Mohan	OK
21	CCV04	CCV04	CCV	01/06/25 13:03		Mohan	OK
22	CCB04	CCB04	CCB	01/06/25 13:05		Mohan	OK
23	PB165951BS	PB165951BS	LCS	01/06/25 13:07		Mohan	OK
24	P5386-05	MOO-24-00397	SAM	01/06/25 13:09		Mohan	OK
25	P5386-05DUP	MOO-24-00397DUP	DUP	01/06/25 13:12		Mohan	OK
26	P5386-05MS	MOO-24-00397MS	MS	01/06/25 13:14		Mohan	OK
27	P5386-05MSD	MOO-24-00397MSD	MSD	01/06/25 13:16		Mohan	OK
28	P5411-02	COMP	SAM	01/06/25 13:19		Mohan	OK
29	P5398-02L	341-349L	SD	01/06/25 13:27		Mohan	OK
30	P5398-02A	341-349A	PS	01/06/25 13:29		Mohan	OK
31	P5386-05L	MOO-24-00397L	SD	01/06/25 13:31		Mohan	OK
32	P5386-05A	MOO-24-00397A	PS	01/06/25 13:33		Mohan	OK
33	CCV05	CCV05	CCV	01/06/25 13:36		Mohan	OK
34	CCB05	CCB05	CCB	01/06/25 13:38		Mohan	OK
35	PB165934TB	PB165934TB	MB	01/06/25 13:40		Mohan	OK
36	CCV06	CCV06	CCV	01/06/25 13:42		Mohan	OK
37	CCB06	CCB06	CCB	01/06/25 13:45		Mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134257

Review By	kareem	Review On	1/14/2025 1:01:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	mp83935 mp83936 mp83937 mp83938 mp83939 mp83941
ICV Standard	mp83942
CCV Standard	mp83945
ICSA Standard	mp83943 mp83944
CRI Standard	mp83941
LCS Standard	
Chk Standard	mp83948 mp83949

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/13/25 15:53		Kareem	OK
2	S1	S1	CAL2	01/13/25 15:58		Kareem	OK
3	S2	S2	CAL3	01/13/25 16:02		Kareem	OK
4	S3	S3	CAL4	01/13/25 16:06		Kareem	OK
5	S4	S4	CAL5	01/13/25 16:11		Kareem	OK
6	S5	S5	CAL6	01/13/25 16:15		Kareem	OK
7	ICV01	ICV01	ICV	01/13/25 16:19		Kareem	OK
8	LLICV01	LLICV01	LLICV	01/13/25 16:29		Kareem	OK
9	ICB01	ICB01	ICB	01/13/25 16:33		Kareem	OK
10	CRI01	CRI01	CRDL	01/13/25 16:38		Kareem	OK
11	ICSA01	ICSA01	ICSA	01/13/25 16:42		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	01/13/25 16:46		Kareem	OK
13	CCV01	CCV01	CCV	01/13/25 16:51		Kareem	OK
14	CCB01	CCB01	CCB	01/13/25 17:04		Kareem	OK
15	Q1018-01	3732	SAM	01/13/25 17:08		Kareem	OK
16	Q1033-01	28612	SAM	01/13/25 17:13		Kareem	OK
17	Q1018-02	3735	SAM	01/13/25 17:17		Kareem	OK
18	Q1018-03	3744	SAM	01/13/25 17:22		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134257

Review By	kareem	Review On	1/14/2025 1:01:51 PM
Supervise By		Supervise On	
STD. NAME	STD REF.#		
ICAL Standard	mp83935 mp83936 mp83937 mp83938 mp83939 mp83941		
ICV Standard	mp83942		
CCV Standard	mp83945		
ICSA Standard	mp83943 mp83944		
CRI Standard	mp83941		
LCS Standard			
Chk Standard	mp83948 mp83949		

19	Q1018-04	3745	SAM	01/13/25 17:26		Kareem	OK
20	Q1021-01	424	SAM	01/13/25 17:31		Kareem	OK
21	CCV02	CCV02	CCV	01/13/25 17:35		Kareem	OK
22	CCB02	CCB02	CCB	01/13/25 17:39		Kareem	OK
23	PB165996BL	PB165996BL	MB	01/13/25 17:44		Kareem	OK
24	PB165996BS	PB165996BS	LCS	01/13/25 17:48	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
25	PB165981BL	PB165981BL	MB	01/13/25 17:52		Kareem	OK
26	PB165981BS	PB165981BS	LCS	01/13/25 17:56	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
27	PB165973TB	PB165973TB	MB	01/13/25 18:07	Sodium,	Kareem	ReRun
28	Q1018-01DUP	3732DUP	DUP	01/13/25 18:11		Kareem	OK
29	Q1018-01L	3732L	SD	01/13/25 18:16		Kareem	OK
30	Q1018-01MS	3732MS	MS	01/13/25 18:20	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
31	CCV03	CCV03	CCV	01/13/25 18:33		Kareem	OK
32	CCB03	CCB03	CCB	01/13/25 18:37		Kareem	OK
33	Q1018-01MSD	3732MSD	MSD	01/13/25 18:41	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	Q1018-01A	3732A	PS	01/13/25 18:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134257

Review By	kareem	Review On	1/14/2025 1:01:51 PM
Supervise By		Supervise On	
STD. NAME	STD REF.#		
ICAL Standard	mp83935 mp83936 mp83937 mp83938 mp83939 mp83941		
ICV Standard	mp83942		
CCV Standard	mp83945		
ICSA Standard	mp83943 mp83944		
CRI Standard	mp83941		
LCS Standard			
Chk Standard	mp83948 mp83949		

35	P5411-02	COMP	SAM	01/13/25 18:50		Kareem	OK
36	Q1032-01DL	50492DL	SAM	01/13/25 18:54	Not required	Kareem	Not Ok
37	Q1033-01DUP	28612DUP	DUP	01/13/25 18:58		Kareem	OK
38	Q1033-01L	28612L	SD	01/13/25 19:03		Kareem	OK
39	Q1033-01MS	28612MS	MS	01/13/25 19:07	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
40	Q1033-01MSD	28612MSD	MSD	01/13/25 19:11	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
41	Q1033-01A	28612A	PS	01/13/25 19:15	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
42	CCV04	CCV04	CCV	01/13/25 19:20		Kareem	OK
43	CCB04	CCB04	CCB	01/13/25 19:24		Kareem	OK
44	LR1	LR1	HIGH STD	01/13/25 19:28		Kareem	OK
45	LR2	LR2	HIGH STD	01/13/25 19:33		Kareem	OK
46	CCV05	CCV05	CCV	01/13/25 19:37		Kareem	OK
47	CCB05	CCB05	CCB	01/13/25 19:41		Kareem	OK
48	Q1032-01	50492	SAM	01/13/25 19:45		Kareem	OK
49	CCV06	CCV06	CCV	01/13/25 19:50		Kareem	OK
50	CCB06	CCB06	CCB	01/13/25 19:54		Kareem	OK

Prep Standard - Chemical Standard Summary

Order ID : P5411

Test : Mercury, Metals ICP-Group1

Prepbatch ID : PB165951, PB165996,

Sequence ID/Qc Batch ID: LB134165, LB134257, LB134257, LB134257,

Standard ID :

MP83498, MP83854, MP83855, MP83856, MP83857, MP83858, MP83859, MP83860, MP83861, MP83862, MP83863, MP83864, MP83865, MP83866, MP83870,

Chemical ID :

M5062, M5532, M5882, M6000, M6009, M6121, M6126, mp83935 mp83936 mp83937 mp83938 mp83939 mp83941, mp83941, mp83942, mp83943 mp83944, mp83945, mp83948 mp83949, W3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
169	1:1HNO3	MP83498	12/09/2024	01/31/2025	Janvi Patel	None	None	Sarabjit Jaswal
								12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83854	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal
								01/03/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1340	Hg 0.00 PPB STD	MP83855	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 01/03/2025

FROM	TO	REMARKS
2.50000ml of M6126 + 247.50000ml of W3112	= Final Quantity: 250.000 ml	A)

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1341	Hg 0.2 PPB STD	MP83856	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal 01/03/2025

FROM		A)
2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83854	= Final Quantity: 250.000 ml	



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1342	Hg 2.5 PPB STD	MP83857	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP83854 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1343	Hg 5.0 PPB STD	MP83858	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83854 = Final Quantity: 250.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1344	Hg 7.5 PPB STD	MP83859	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP83854 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1345	Hg 10.0 PPB STD	MP83860	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83854 = Final Quantity: 250.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1346	Hg ICV SOLUTION	MP83861	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
A) FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83862	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/03/2025
<u>FROM</u> 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83863	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 01/03/2025
<u>FROM</u> 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP83854 = Final Quantity: 500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83864	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 01/03/2025
FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP83865	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83854 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP83866	01/03/2025	01/04/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/03/2025
<u>FROM</u> 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP83854 = Final Quantity: 250.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
68	STANNOUS CHLORIDE SOLUTION	MP83870	01/06/2025	01/07/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 01/07/2025
<u>FROM</u> 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 /	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/30/2026	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6000

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

M5882
 M3

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)



Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



Refine your results. Redefine your industry.

RD:05/14/2024

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).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO ₃

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,	Aluminum,
	Cerium,	Selenium,
	Thallium,	
	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,	Boron,
	Vanadium,	
	20 µg/mL ea:	
	Zinc,	Strontium,
	Barium,	Beryllium,
	Cadmium,	Cobalt,
	Manganese,	Lithium,
	7.5 µg/mL ea:	
	Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum ((w_i)^2 (u_{\text{char } i}^2))]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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





Refine your results. Redefine your industry.

RD:05/14/2024

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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: WW-LFS-2
Lot Number: U2-MEB731108
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s):
200 µg/mL ea:
Silica,
80 µg/mL ea:
Antimony,
70 µg/mL ea:
Tin,
40 µg/mL ea:
Molybdenum,
20 µg/mL ea:
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO ₂	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO ₂	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 17, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

MS062
 MS063
 MB

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).



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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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.

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i})^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	0.000011	M	Eu	<	0.000201	O	Na	0.000004	M	Se	<	0.015915	O	Zn	<	0.001510	
O	Al	0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<		0.000201		
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<		0.001007		
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<		0.000201		
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<		0.000201		
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<		0.000201		
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<		0.002216		
O	Ca	0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<		0.000201			
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<		0.000402		
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<		0.016508		
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<		0.000201		
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<		0.008058		
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<		0.000201		
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<		0.000604		
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<		0.000201		
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<		0.000201		

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO₃. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO₃ / LDPE container, stable in 10% HNO₃ packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO₃ packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO₃ / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxide (Soluble in HNO₃); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va, 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 22, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

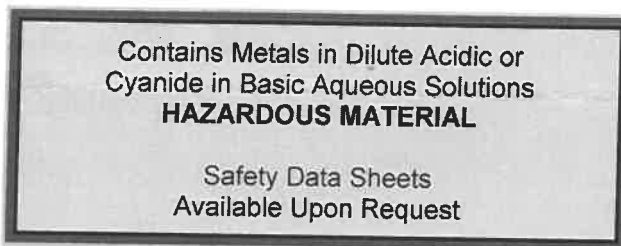
Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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.



MS528-32
MS

(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 $\mu\text{g/L}$ (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.





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

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) K₂Cr₂O₇ 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 K₃Fe(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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
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
ACS - Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	< 1
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

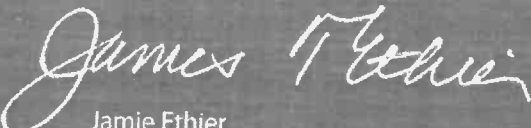
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier

Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Nitric Acid 69%
CMOS



R → 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
------	---------------	--------

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



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. P5411
QUOTE NO.
COC Number 2041209

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION														
REPORT TO BE SENT TO: COMPANY: <u>Aramark uniforms</u>		PROJECT NAME: <u>Monthly</u>		BILL TO: _____ PO#: _____														
ADDRESS: <u>740 Frelinghuysen Ave.</u>		PROJECT NO.: _____ LOCATION: <u>/</u>		ADDRESS: _____														
CITY: <u>Newark</u> STATE: <u>NJ</u> ZIP: <u>07114</u>		PROJECT MANAGER: _____		CITY: _____ STATE: _____ ZIP: _____														
ATTENTION: <u>Jarrod Mills</u>		e-mail: _____		ATTENTION: _____ PHONE: _____														
PHONE: <u>973-824-1101</u> FAX: _____		PHONE: _____ FAX: _____		ANALYSIS														
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION																
FAX (RUSH) _____ DAYS*		☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)																
HARDCOPY (DATA PACKAGE): _____ DAYS*		☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP																
EDD: _____ DAYS*		☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B																
*TO BE APPROVED BY CHEMTECH		+ Raw Data ☐ Other _____																
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS		☐ EDD FORMAT _____																
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	Grab	W	✓	✓	12-31-24	1115	1	✓										
2.	Comp	W	✓	✓	12-31-24	1118	3	✓	✓	✓								
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																		
RELINQUISHED BY SAMPLER:		DATE/TIME: <u>12-31-24</u>		RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>12-31-24</u>		Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.8C</u> °C										
1. <u>[Signature]</u>								Comments: _____										
RELINQUISHED BY SAMPLER:		DATE/TIME:		RECEIVED BY:														
2. <u>[Signature]</u>																		
RELINQUISHED BY SAMPLER:		DATE/TIME: <u>12-31-24</u>		RECEIVED BY:														
3. <u>[Signature]</u>																		
Page _____ of _____								CLIENT: ☐ Hand Delivered ☐ Other _____				Shipment Complete ☐ YES ☐ NO						
CHEMTECH: ☐ Picked Up ☐ Field Sampling																		



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488