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Cover Page

Order ID : Q2133

Project ID : Banker

Client : G Environmental

Lab Sample Number	Client Sample Number
Q2133-01	MW1
Q2133-02	MW5
Q2133-03	SUPPLY

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: 5/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2133**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **05/30/2025**

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LAB CHRONICLE

OrderID:	Q2133	**OrderDate:**	5/28/2025 11:41:01 AM
Client:	G Environmental	**Project:**	Banker
Contact:	Gary Landis	**Location:**	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2133-01	**MW1**	**Water**			**05/27/25**			**05/28/25**
			Metals Group4	6010D		05/29/25	06/02/25	
Q2133-02	**MW5**	**Water**			**05/27/25**			**05/28/25**
			Metals Group4	6010D		05/29/25	06/03/25	
Q2133-03	**SUPPLY**	**Water**			**05/27/25**			**05/28/25**
			Metals Group4	6010D		05/29/25	06/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2133 **Order ID:** Q2133

Client: G Environmental **Project ID:** Banker

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW1								
Q2133-01	MW1	Water	Sodium	318000		434	1000	ug/L
Client ID : MW5								
Q2133-02	MW5	Water	Sodium	2360000	D	2170	5000	ug/L
Client ID : SUPPLY								
Q2133-03	SUPPLY	Water	Sodium	57500		434	1000	ug/L



SAMPLE DATA

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Report of Analysis

Client:	G Environmental	Date Collected:	05/27/25
Project:	Banker	Date Received:	05/28/25
Client Sample ID:	MW1	SDG No.:	Q2133
Lab Sample ID:	Q2133-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-23-5	Sodium	318000	*	1	434	1000	ug/L	05/29/25 10:15	06/02/25 18:37	6010D	SW3010

Color Before:	light Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Colorless	Clarity After:		Artifacts:	
Comments:	Metals Group4				

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	05/27/25
Project:	Banker	Date Received:	05/28/25
Client Sample ID:	MW5	SDG No.:	Q2133
Lab Sample ID:	Q2133-02	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.
7440-23-5	Sodium	2360000	D*	5	2170	5000	ug/L	05/29/25 10:15	06/03/25 17:02	6010D	SW3010

Color Before:	light Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Colorless	Clarity After:		Artifacts:	
Comments:	Metals Group4				

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	05/27/25
Project:	Banker	Date Received:	05/28/25
Client Sample ID:	SUPPLY	SDG No.:	Q2133
Lab Sample ID:	Q2133-03	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.
7440-23-5	Sodium	57500	*	1	434	1000	ug/L	05/29/25 10:15	06/03/25 15:47	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:		Artifacts:	
Comments:	Metals Group4				

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

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

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	9470	10000	95	90 - 110	P	06/02/2025	12:37	LB135981

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	1720	2000	86	80 - 120	P	06/02/2025	12:59	LB135981

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	25500	25000	102	90 - 110	P	06/02/2025	14:14	LB135981
CCV02	Sodium	23600	25000	94	90 - 110	P	06/02/2025	15:11	LB135981
CCV03	Sodium	24600	25000	98	90 - 110	P	06/02/2025	15:58	LB135981
CCV04	Sodium	22900	25000	92	90 - 110	P	06/02/2025	16:49	LB135981
CCV05	Sodium	23600	25000	94	90 - 110	P	06/02/2025	17:38	LB135981
CCV06	Sodium	25500	25000	102	90 - 110	P	06/02/2025	18:24	LB135981
CCV07	Sodium	23700	25000	95	90 - 110	P	06/02/2025	19:11	LB135981
CCV08	Sodium	24100	25000	96	90 - 110	P	06/02/2025	19:57	LB135981
CCV09	Sodium	24000	25000	96	90 - 110	P	06/02/2025	20:45	LB135981
CCV10	Sodium	868	25000	0	90 - 110	P	06/02/2025	21:06	LB135981

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	9300	10000	93	90 - 110	P	06/03/2025	13:57	LB135993

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	1750	2000	87	80 - 120	P	06/03/2025	14:11	LB135993

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	24500	25000	98	90 - 110	P	06/03/2025	15:28	LB135993
CCV02	Sodium	22600	25000	90	90 - 110	P	06/03/2025	16:16	LB135993
CCV03	Sodium	23400	25000	94	90 - 110	P	06/03/2025	17:06	LB135993
CCV04	Sodium	24700	25000	99	90 - 110	P	06/03/2025	18:57	LB135993
CCV05	Sodium	23300	25000	93	90 - 110	P	06/03/2025	19:35	LB135993

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Sodium	1690	2000	85	65 - 135	P	06/02/2025	13:08	LB135981
CRI01	Sodium	1810	2000	90	65 - 135	P	06/03/2025	14:36	LB135993

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Sodium	2000	+/-2000	U	2000	P	06/02/2025	13:03	LB135981

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Sodium	2000	+/-2000	U	2000	P	06/02/2025	14:28	LB135981
CCB02	Sodium	2000	+/-2000	U	2000	P	06/02/2025	15:16	LB135981
CCB03	Sodium	2000	+/-2000	U	2000	P	06/02/2025	16:02	LB135981
CCB04	Sodium	2000	+/-2000	U	2000	P	06/02/2025	16:55	LB135981
CCB05	Sodium	2000	+/-2000	U	2000	P	06/02/2025	17:42	LB135981
CCB06	Sodium	2000	+/-2000	U	2000	P	06/02/2025	18:28	LB135981
CCB07	Sodium	2000	+/-2000	U	2000	P	06/02/2025	19:15	LB135981
CCB08	Sodium	2000	+/-2000	U	2000	P	06/02/2025	20:01	LB135981
CCB09	Sodium	2000	+/-2000	U	2000	P	06/02/2025	20:49	LB135981
CCB10	Sodium	2000	+/-2000	U	2000	P	06/02/2025	21:11	LB135981

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Sodium	2000	+/-2000	U	2000	P	06/03/2025	14:16	LB135993

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Sodium	2000	+/-2000	U	2000	P	06/03/2025	15:34	LB135993
CCB02	Sodium	2000	+/-2000	U	2000	P	06/03/2025	16:20	LB135993
CCB03	Sodium	2000	+/-2000	U	2000	P	06/03/2025	17:10	LB135993
CCB04	Sodium	2000	+/-2000	U	2000	P	06/03/2025	19:01	LB135993
CCB05	Sodium	2000	+/-2000	U	2000	P	06/03/2025	19:39	LB135993

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2133

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168200BL		**WATER**		**Batch Number:**	**PB168200**		**Prep Date:**	**05/29/2025**	
	Sodium	1000	<1000	U	1000	P	06/02/2025	17:29	LB135981

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Metals
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INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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	Sodium	24.0			0	0	06/02/2025	13:12	LB135981
ICSAB01	Sodium	-31.0			0	0	06/02/2025	13:35	LB135981
ICSA01	Sodium	-11.2			0	0	06/03/2025	14:46	LB135993
ICSAB01	Sodium	-54.6			0	0	06/03/2025	15:06	LB135993

METAL
QC
DATA

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metals
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MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2133

contract: GENV01 **lab code:** CHEM **case no.:** Q2133 **sas no.:** Q2133

matrix: Water **sample id:** Q2133-03 **client id:** SUPPLYMS

Percent Solids for Sample: NA **Spiked ID:** Q2133-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Sodium	ug/L	75 - 125	46700		57500		1500	-722		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2133

contract: GENV01 **lab code:** CHEM **case no.:** Q2133 **sas no.:** Q2133

matrix: Water **sample id:** Q2133-03 **client id:** SUPPLYMSD

Percent Solids for Sample: NA **Spiked ID:** Q2133-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Sodium	ug/L	75 - 125	57400		57500		1500	-5		P

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Metals
- 5b -

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Matrix: Water **Sample ID:** Q2133-03 **Client ID:** SUPPLYDUP

Percent Solids for Sample: NA **Duplicate ID** Q2133-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Sodium	ug/L	20	57500		53500		7		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Matrix: Water **Sample ID:** Q2133-03MS **Client ID:** SUPPLYMSD

Percent Solids for Sample: NA **Duplicate ID** Q2133-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Sodium	ug/L	20	46700		57400		21	*	P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168200BS							
Sodium	ug/L	1500	1350		90	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

SUPPLYL

Lab Name: Chemtech Consulting Group **Contract:** GENV01

Lab Code: CHEM **Lb No.:** lb135993 **Lab Sample ID :** Q2133-03L **SDG No.:** Q2133

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Sodium	57500		52700		8		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2133 **SAS No.:** Q2133

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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922

Metals
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SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2133

Contract: GENV01 **Lab Code:** CHEM **Method:**

Case No.: Q2133 **SAS No.:** Q2133

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168200**						
PB168200BL	PB168200BL	MB	WATER	05/29/2025	50.0	25.0	
PB168200BS	PB168200BS	LCS	WATER	05/29/2025	50.0	25.0	
Q2133-01	MW1	SAM	WATER	05/29/2025	50.0	25.0	
Q2133-02	MW5	SAM	WATER	05/29/2025	50.0	25.0	
Q2133-03	SUPPLY	SAM	WATER	05/29/2025	50.0	25.0	
Q2133-03DUP	SUPPLYDUP	DUP	WATER	05/29/2025	50.0	25.0	
Q2133-03MS	SUPPLYMS	MS	WATER	05/29/2025	50.0	25.0	
Q2133-03MSD	SUPPLYMSD	MSD	WATER	05/29/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2133 **Sas no.:** Q2133 **Sdg no.:** Q2133

Instrument id number: **Method:** **Run number:** LB135981

Start date: 06/02/2025 **End date:** 06/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1212	Na
S1	S1	1	1216	Na
S2	S2	1	1221	Na
S3	S3	1	1225	Na
S4	S4	1	1229	Na
S5	S5	1	1233	Na
ICV01	ICV01	1	1237	Na
LLICV01	LLICV01	1	1259	Na
ICB01	ICB01	1	1303	Na
CRI01	CRI01	1	1308	Na
ICSA01	ICSA01	1	1312	Na
ICSAB01	ICSAB01	1	1335	Na
CCV01	CCV01	1	1414	Na
CCB01	CCB01	1	1428	Na
CCV02	CCV02	1	1511	Na
CCB02	CCB02	1	1516	Na
CCV03	CCV03	1	1558	Na
CCB03	CCB03	1	1602	Na
CCV04	CCV04	1	1649	Na
CCB04	CCB04	1	1655	Na
PB168200BL	PB168200BL	1	1729	Na
PB168200BS	PB168200BS	1	1734	Na
CCV05	CCV05	1	1738	Na
CCB05	CCB05	1	1742	Na
CCV06	CCV06	1	1824	Na
CCB06	CCB06	1	1828	Na
Q2133-01	MW1	1	1837	Na
CCV07	CCV07	1	1911	Na
CCB07	CCB07	1	1915	Na
CCV08	CCV08	1	1957	Na
CCB08	CCB08	1	2001	Na
CCV09	CCV09	1	2045	Na
CCB09	CCB09	1	2049	Na
CCV10	CCV10	1	2106	Na
CCB10	CCB10	1	2111	Na

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2133 **Sas no.:** Q2133 **Sdg no.:** Q2133

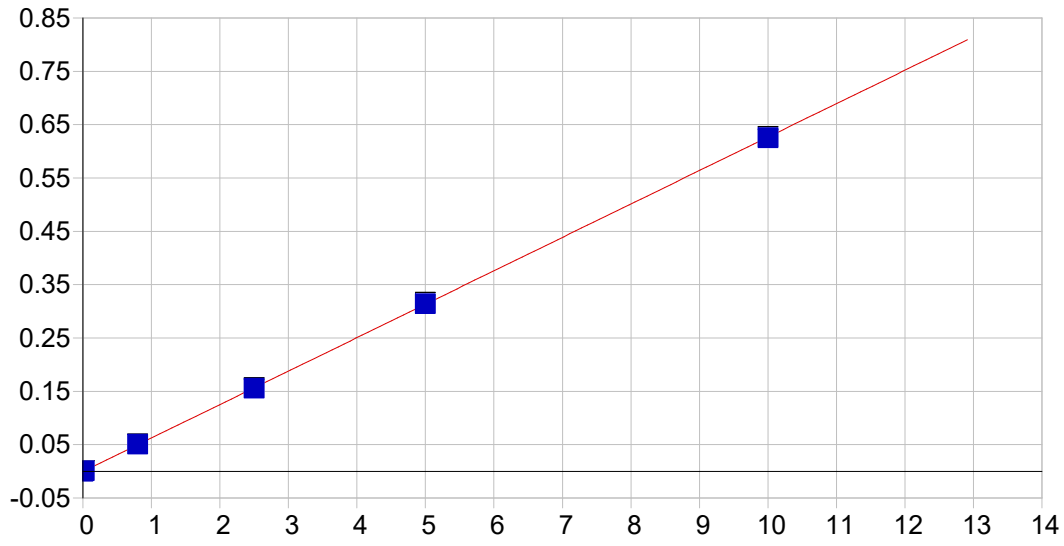
Instrument id number: **Method:** **Run number:** LB135993

Start date: 06/03/2025 **End date:** 06/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1259	Na
S1	S1	1	1303	Na
S2	S2	1	1307	Na
S3	S3	1	1312	Na
S4	S4	1	1316	Na
S5	S5	1	1320	Na
ICV01	ICV01	1	1357	Na
LLICV01	LLICV01	1	1411	Na
ICB01	ICB01	1	1416	Na
CRI01	CRI01	1	1436	Na
ICSA01	ICSA01	1	1446	Na
ICSAB01	ICSAB01	1	1506	Na
CCV01	CCV01	1	1528	Na
CCB01	CCB01	1	1534	Na
Q2133-03	SUPPLY	1	1547	Na
Q2133-03DUP	SUPPLYDUP	1	1551	Na
Q2133-03L	SUPPLYL	5	1555	Na
Q2133-03MS	SUPPLYMS	1	1559	Na
Q2133-03MSD	SUPPLYMSD	1	1603	Na
CCV02	CCV02	1	1616	Na
CCB02	CCB02	1	1620	Na
Q2133-02	MW5	5	1702	Na
CCV03	CCV03	1	1706	Na
CCB03	CCB03	1	1710	Na
CCV04	CCV04	1	1857	Na
CCB04	CCB04	1	1901	Na
CCV05	CCV05	1	1935	Na
CCB05	CCB05	1	1939	Na

METAL
RAW DATA

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



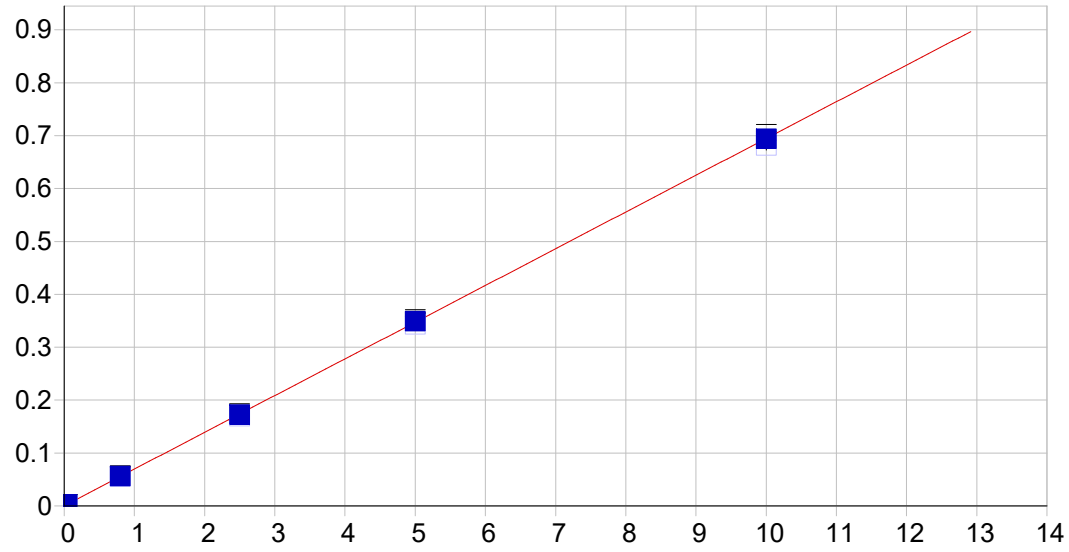
As 189.042 {479}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000167	Re-Slope:	1.000000
A1 (Gain):	0.062683	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.002420		
Predicted MQL:	0.008066		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.02000	.02188	.002	9.40	.00120	.000	1
S3	2.5000	2.4840	-.016	-.642	.15537	.001	1
S4	5.0000	5.0198	.020	.395	.31415	.002	1
S5	10.000	9.9786	-.021	-.214	.62465	.003	1
S2	.80000	.81580	.016	1.97	.05092	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



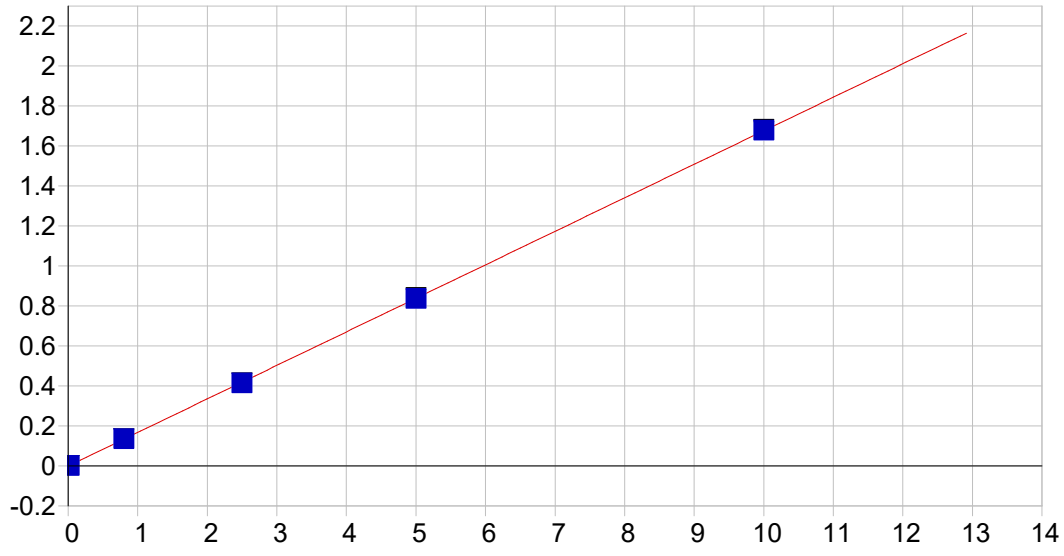
Tl 190.856 {477}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000203	Re-Slope:	1.000000
A1 (Gain):	0.069433	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.002113		
Predicted MQL:	0.007044		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00020	.000	1
S1	.04000	.03754	-.002	-6.16	.00263	.000	1
S3	2.5000	2.4825	-.018	-.701	.16938	.001	1
S4	5.0000	5.0266	.027	.533	.34284	.003	1
S5	10.000	9.9901	-.010	-.099	.68109	.008	1
S2	.80000	.80313	.003	.391	.05495	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



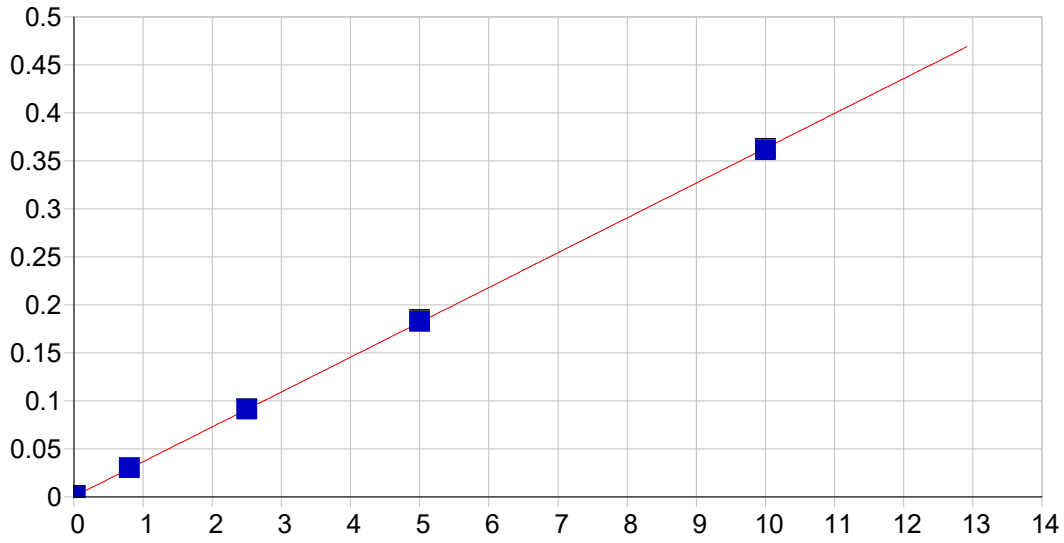
Pb 220.353 {453}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000134	Re-Slope:	1.000000
A1 (Gain):	0.167638	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.002024		
Predicted MQL:	0.006748		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00013	.000	1
S1	.01200	.01547	.003	28.9	.00242	.000	1
S3	2.5000	2.4756	-.024	-.976	.41444	.001	1
S4	5.0000	4.9992	-.001	-.017	.83705	.003	1
S5	10.000	10.013	.013	.134	1.6768	.006	1
S2	.80000	.80840	.008	1.05	.13525	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



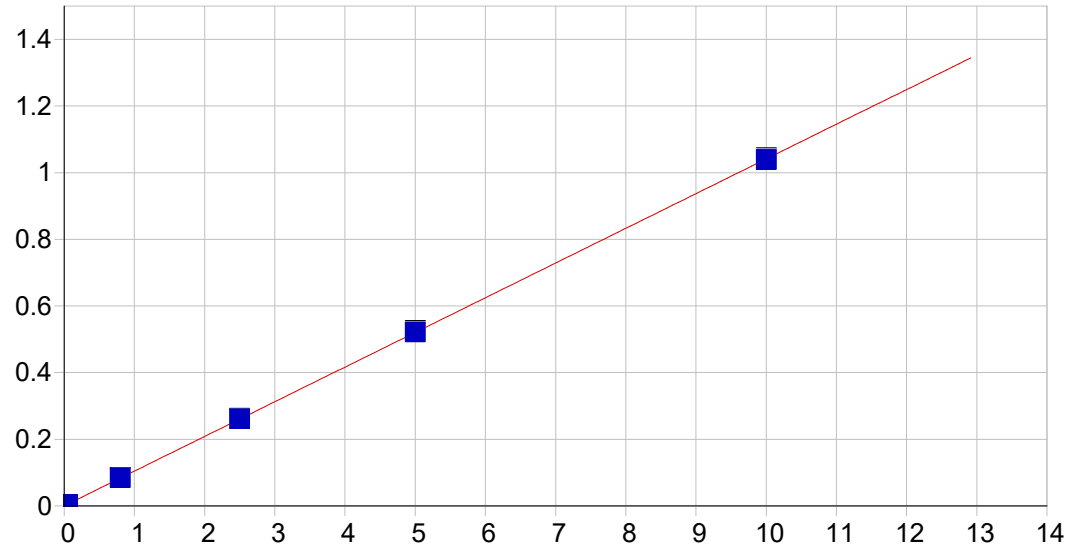
Se 196.090 {472}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000407	Re-Slope:	1.000000
A1 (Gain):	0.036279	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.008315		
Predicted MQL:	0.027717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00041	.000	1
S1	.02000	.01817	-.002	-9.15	.00107	.000	1
S3	2.5000	2.5036	.004	.143	.09118	.000	1
S4	5.0000	5.0213	.021	.426	.18247	.002	1
S5	10.000	9.9538	-.046	-.462	.36131	.002	1
S2	.80000	.82312	.023	2.89	.03025	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



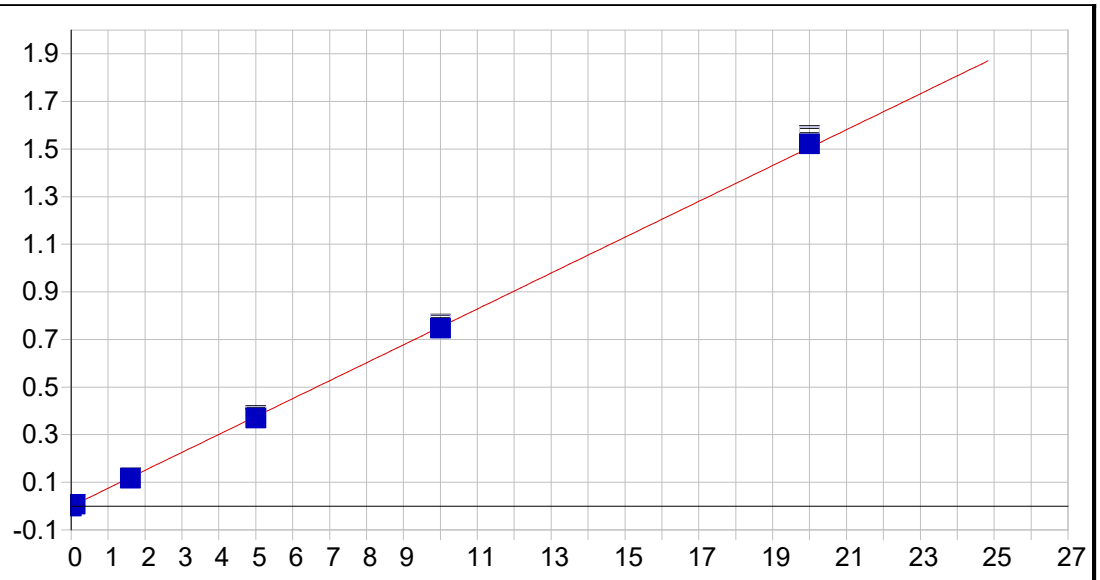
Sb 206.833 {463}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000184	Re-Slope:	1.000000
A1 (Gain):	0.104098	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002499		
Predicted MQL:	0.008331		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00018	.000	1
S1	.05000	.05124	.001	2.48	.00553	.000	1
S3	2.5000	2.5037	.004	.148	.26152	.002	1
S4	5.0000	5.0051	.005	.101	.52261	.004	1
S5	10.000	9.9806	-.019	-.194	1.0420	.002	1
S2	.80000	.80941	.009	1.18	.08467	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



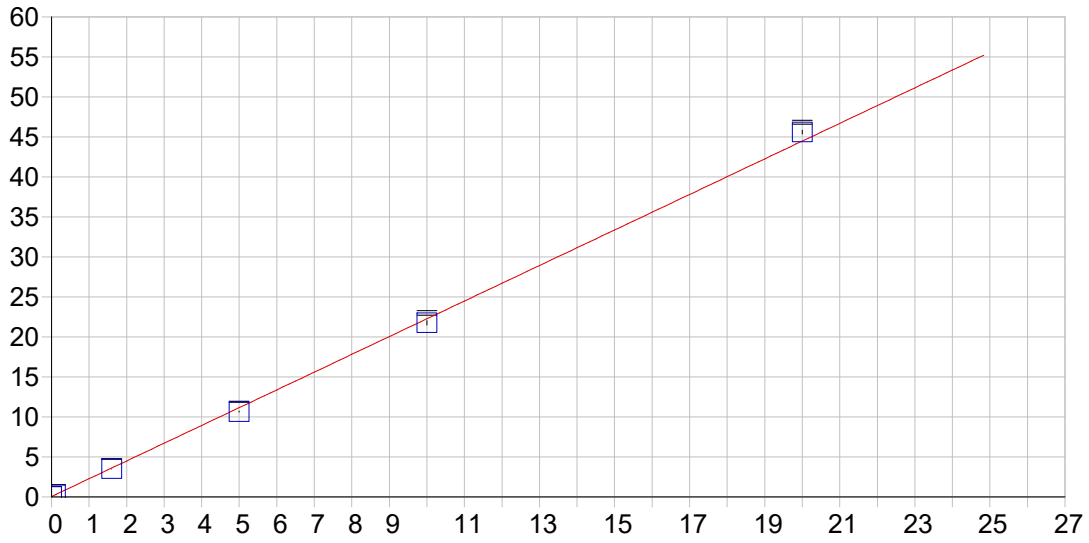
Al 396.152 { 85}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000319	Re-Slope:	1.000000
A1 (Gain):	0.075328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.009565		
Predicted MQL:	0.031885		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00032	.000	1
S1	.10000	.11049	.010	10.5	.00859	.001	1
S3	5.0000	4.9033	-.097	-1.93	.37635	.004	1
S4	10.000	9.9235	-.076	-.765	.76181	.003	1
S5	20.000	20.205	.205	1.02	1.5509	.005	1
S2	1.6000	1.5575	-.042	-2.65	.11934	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



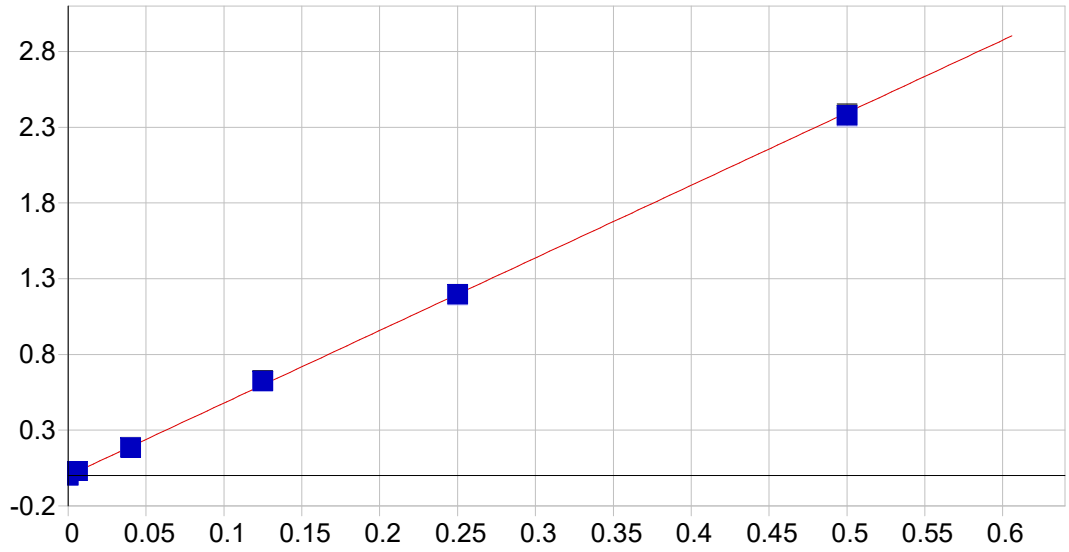
Ba 493.409 { 68}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.052472	Re-Slope:	1.000000
A1 (Gain):	2.220969	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999592	Status:	OK.
Std Error of Est:	0.004707		
Predicted MDL:	0.000975		
Predicted MQL:	0.003249		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.05250	.001	1
S1	.10000	.09629	-.004	-3.71	.26632	.001	1
S3	5.0000	4.7730	-.227	-4.54	10.653	.050	1
S4	10.000	9.7706	-.229	-2.29	21.753	.274	1
S5	20.000	20.507	.507	2.54	45.599	.243	1
S2	1.6000	1.5527	-.047	-2.96	3.5010	.011	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



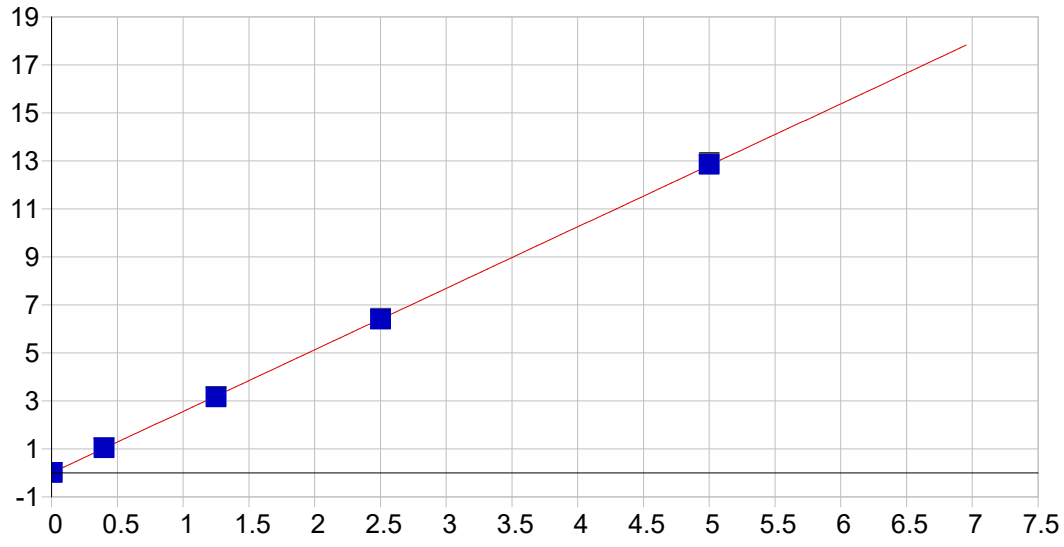
Be 234.861 {144}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000296	Re-Slope:	1.000000
A1 (Gain):	4.792097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999835	Status:	OK.
Std Error of Est:	0.000249		
Predicted MDL:	0.000054		
Predicted MQL:	0.000179		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00030	.000	1
S1	.00600	.00621	.000	3.43	.02923	.000	1
S3	.12500	.13029	.005	4.23	.62138	.002	1
S4	.25000	.24958	-.000	-.169	1.1903	.002	1
S5	.50000	.49621	-.004	-.759	2.3668	.010	1
S2	.04000	.03872	-.001	-3.20	.18439	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



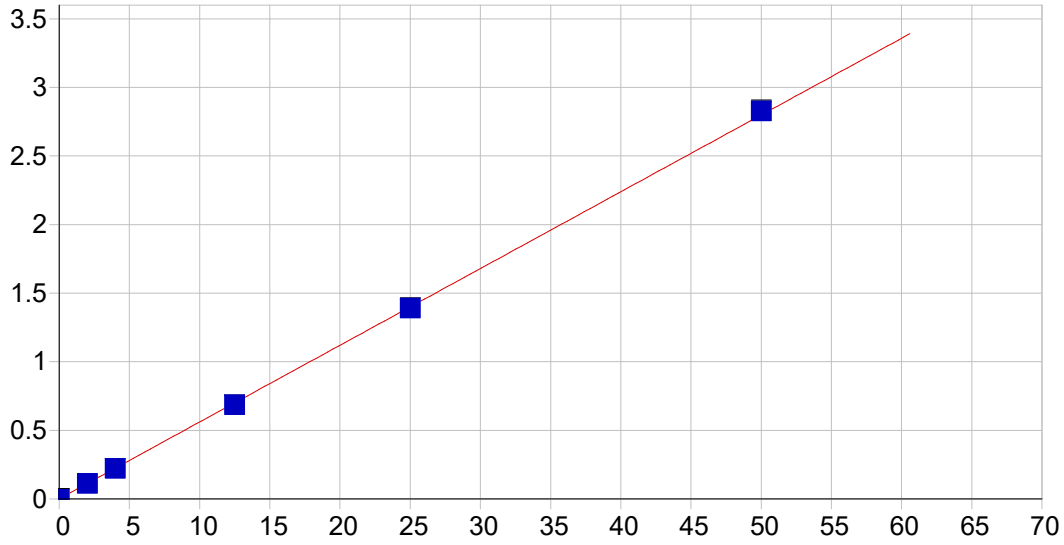
Cd 226.502 {449}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000120	Re-Slope:	1.000000
A1 (Gain):	2.563232	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	0.000096		
Predicted MQL:	0.000319		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00012	.000	1
S1	.00600	.00625	.000	4.17	.01621	.000	1
S3	1.2500	1.2334	-.017	-1.33	3.1641	.008	1
S4	2.5000	2.4975	-.002	-.098	6.4069	.034	1
S5	5.0000	5.0148	.015	.297	12.864	.056	1
S2	.40000	.40397	.004	.992	1.0364	.003	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



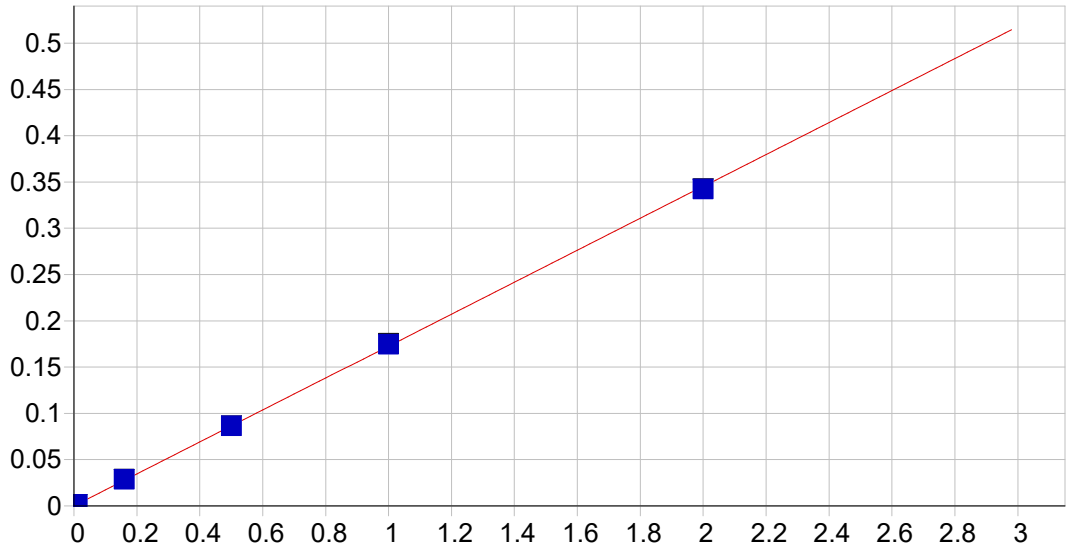
Ca 373.690 { 90}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001023	Re-Slope:	1.000000
A1 (Gain):	0.055956	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000356		
Predicted MDL:	0.010000		
Predicted MQL:	0.033334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00103	.000	1
S2	4.0000	3.9422	-.058	-1.44	.22162	.001	1
S3	12.500	12.244	-.256	-2.05	.68616	.001	1
S4	25.000	24.824	-.176	-.703	1.3901	.002	1
S5	50.000	50.525	.525	1.05	2.8282	.007	1
S1	2.0000	1.9640	-.036	-1.80	.11092	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



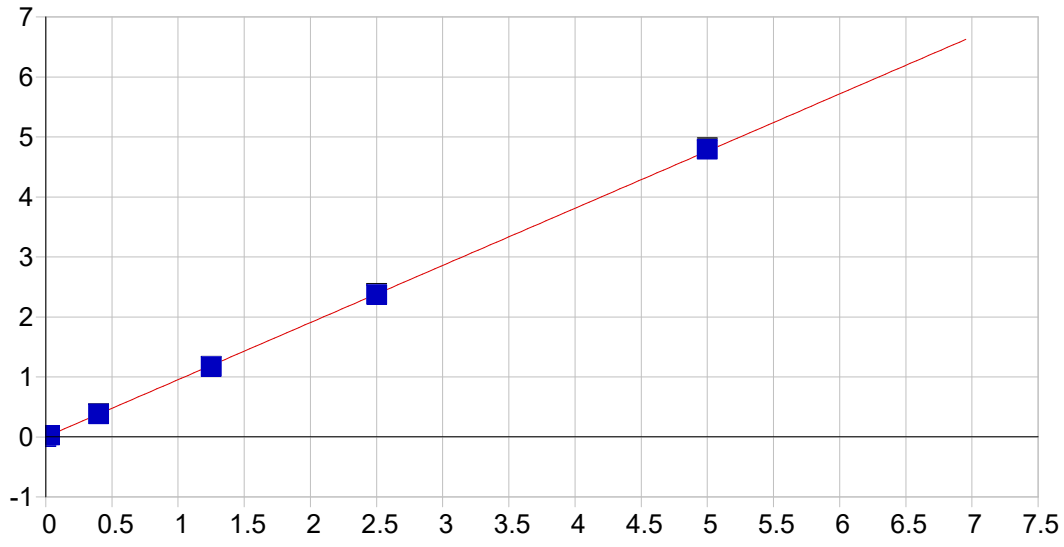
Cr 267.716 {126}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000094	Re-Slope:	1.000000
A1 (Gain):	0.172570	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.000457		
Predicted MQL:	0.001524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.01000	.01022	.000	2.18	.00186	.000	1
S3	.50000	.50092	.001	.184	.08661	.000	1
S4	1.0000	1.0113	.011	1.13	.17475	.001	1
S5	2.0000	1.9822	-.018	-.889	.34244	.001	1
S2	.16000	.16533	.005	3.33	.02865	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



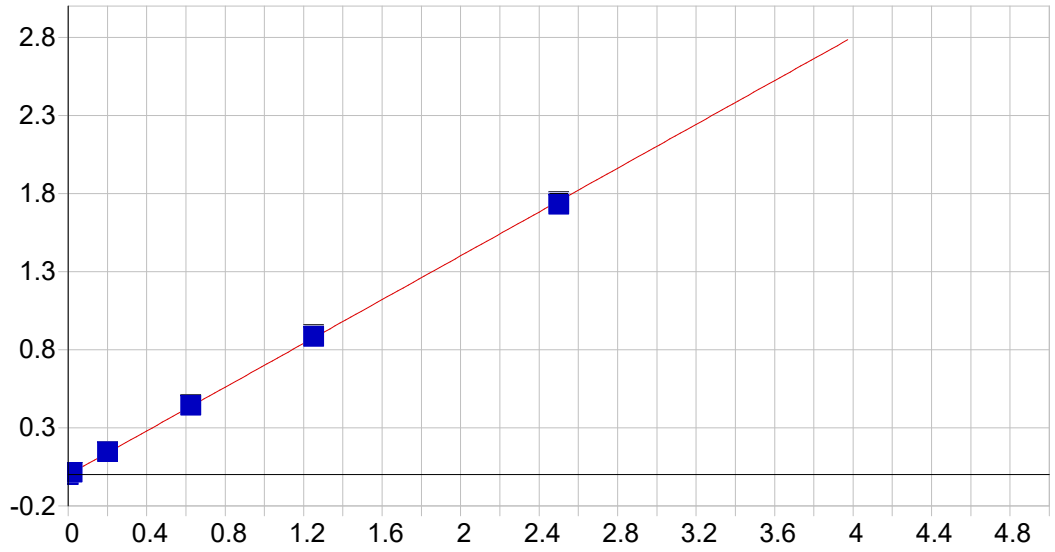
Co 228.616 {448}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000040	Re-Slope:	1.000000
A1 (Gain):	0.952696	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	0.000275		
Predicted MQL:	0.000916		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.03000	.03025	.000	.825	.02866	.000	1
S3	1.2500	1.2301	-.020	-1.59	1.1739	.004	1
S4	2.5000	2.4904	-.010	-.386	2.3766	.014	1
S5	5.0000	5.0274	.027	.548	4.7976	.018	1
S2	.40000	.40188	.002	.470	.38348	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



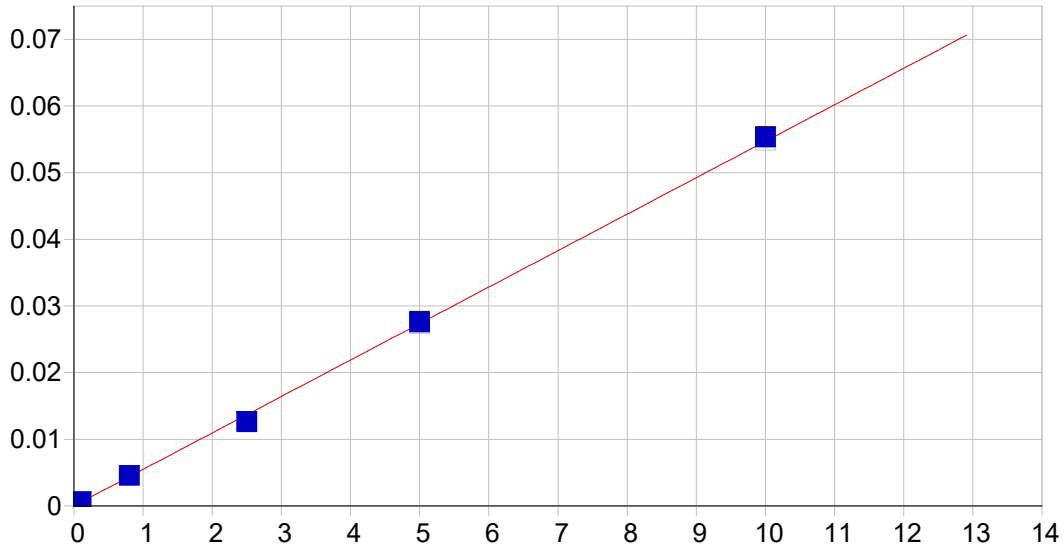
Cu 224.700 {450}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000712	Re-Slope:	1.000000
A1 (Gain):	0.700944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000129		
Predicted MDL:	0.000456		
Predicted MQL:	0.001519		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00071	.000	1
S1	.02000	.02174	.002	8.69	.01466	.000	1
S3	.62500	.63225	.007	1.16	.44565	.003	1
S4	1.2500	1.2621	.012	.966	.89032	.005	1
S5	2.5000	2.4698	-.030	-1.21	1.7432	.006	1
S2	.20000	.20915	.009	4.57	.14691	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



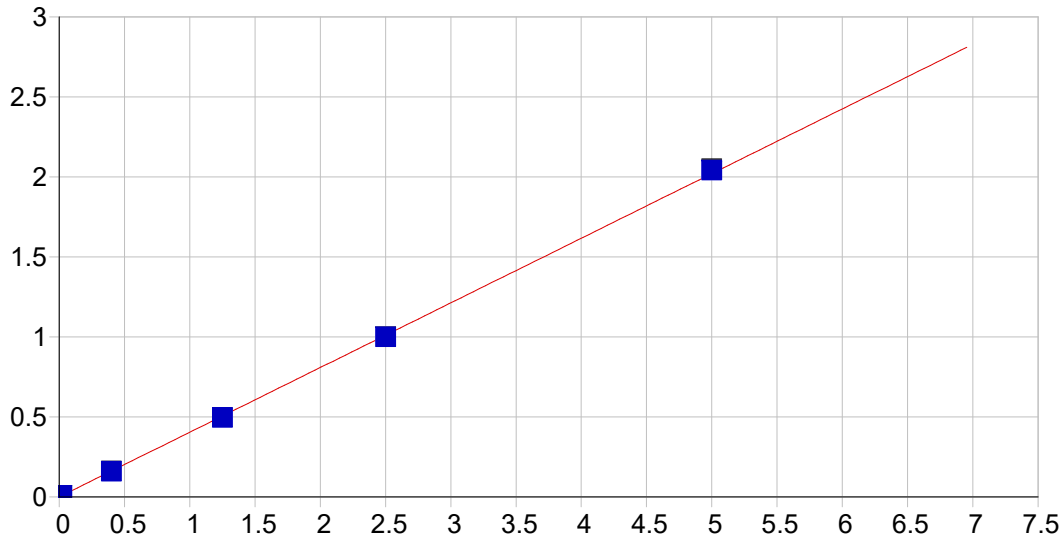
Fe 240.488 {140}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.005470	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999464	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.005048		
Predicted MQL:	0.016827		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00001	.000	1
S1	.10000	.11393	.014	13.9	.00063	.000	1
S3	2.5000	2.3074	-.193	-7.70	.01252	.000	1
S4	5.0000	5.0382	.038	.763	.02734	.000	1
S5	10.000	10.111	.111	1.11	.05485	.000	1
S2	.80000	.82936	.029	3.67	.00451	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



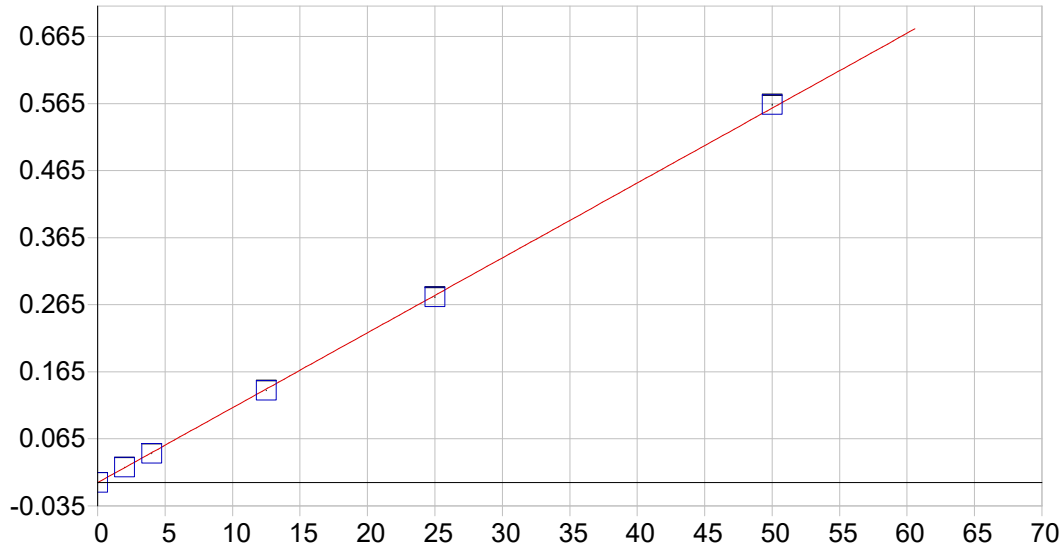
Mn 257.610 {131}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000247	Re-Slope:	1.000000
A1 (Gain):	0.404099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.000490		
Predicted MQL:	0.001633		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00025	.000	1
S1	.02000	.02039	.000	1.96	.00849	.000	1
S3	1.2500	1.2254	-.025	-1.97	.49554	.001	1
S4	2.5000	2.4734	-.027	-1.06	.99996	.002	1
S5	5.0000	5.0541	.054	1.08	2.0430	.006	1
S2	.40000	.39667	-.003	-.832	.16057	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



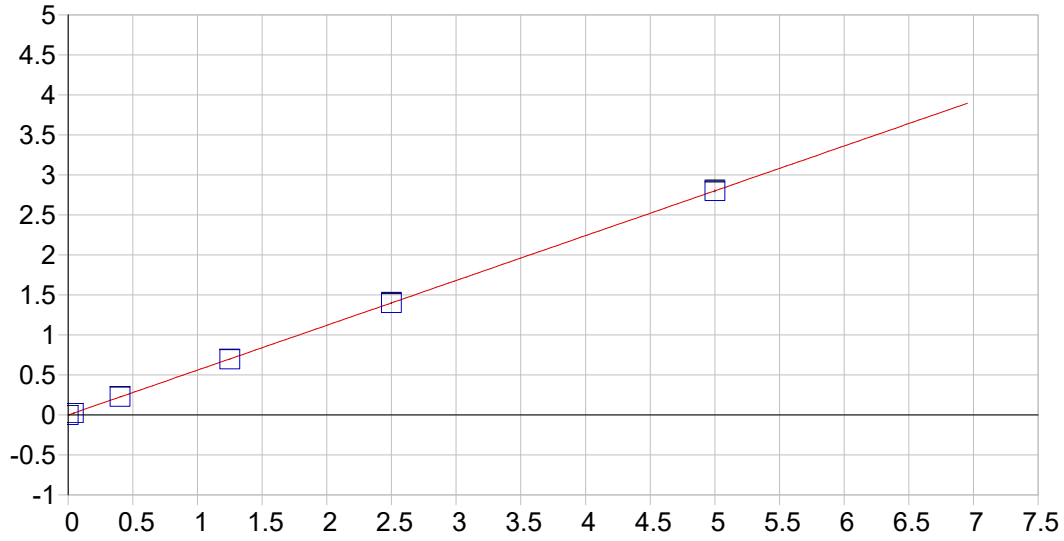
Mg 279.079 {121}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000256	Re-Slope:	1.000000
A1 (Gain):	0.011172	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000071		
Predicted MDL:	0.023478		
Predicted MQL:	0.078261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	-.00026	.000	1
S2	4.0000	3.8938	-.106	-2.65	.04325	.000	1
S3	12.500	12.313	-.187	-1.50	.13730	.001	1
S4	25.000	24.768	-.232	-.928	.27645	.001	1
S5	50.000	50.479	.479	.957	.56369	.001	1
S1	2.0000	2.0467	.047	2.34	.02261	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



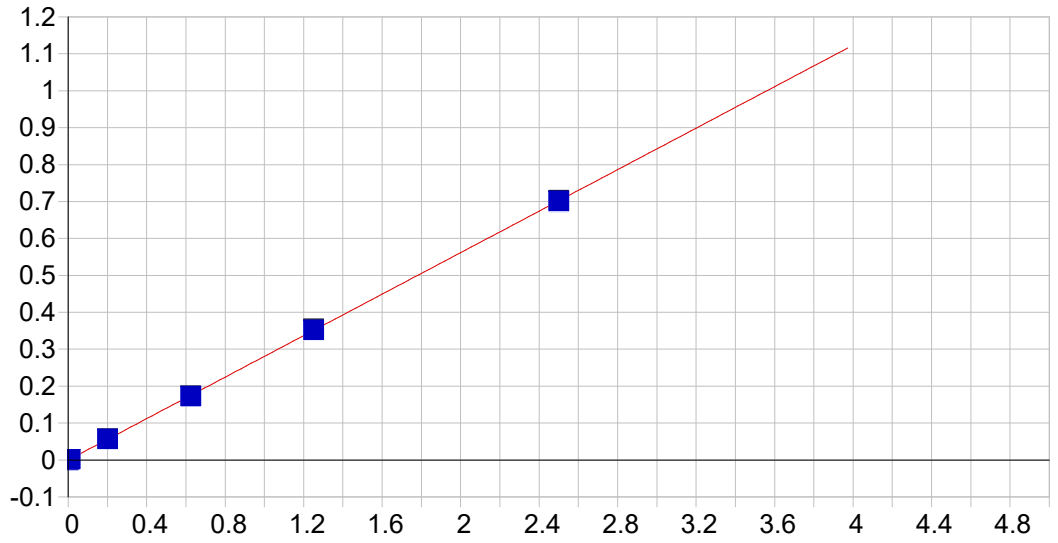
Ni 231.604 {446}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000434	Re-Slope:	1.000000
A1 (Gain):	0.560298	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.000403		
Predicted MQL:	0.001343		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00044	.000	1
S1	.04000	.04110	.001	2.76	.02260	.000	1
S3	1.2500	1.2426	-.007	-.592	.69579	.002	1
S4	2.5000	2.5000	-.000	-.001	1.4003	.007	1
S5	5.0000	4.9988	-.001	-.024	2.8004	.012	1
S2	.40000	.40749	.007	1.87	.22788	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



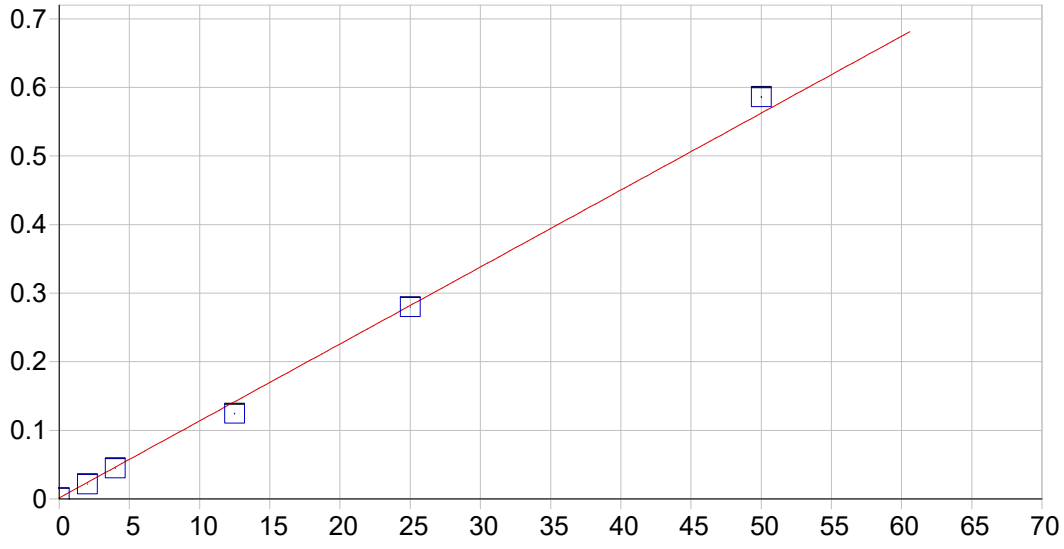
Ag 328.068 {103}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000372	Re-Slope:	1.000000
A1 (Gain):	0.280959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.000466		
Predicted MQL:	0.001553		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00037	.000	1
S1	.01000	.00997	-.000	-.252	.00241	.000	1
S3	.62500	.61660	-.008	-1.34	.17209	.000	1
S4	1.2500	1.2569	.007	.554	.35121	.002	1
S5	2.5000	2.4974	-.003	-.105	.69816	.002	1
S2	.20000	.20413	.004	2.06	.05673	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



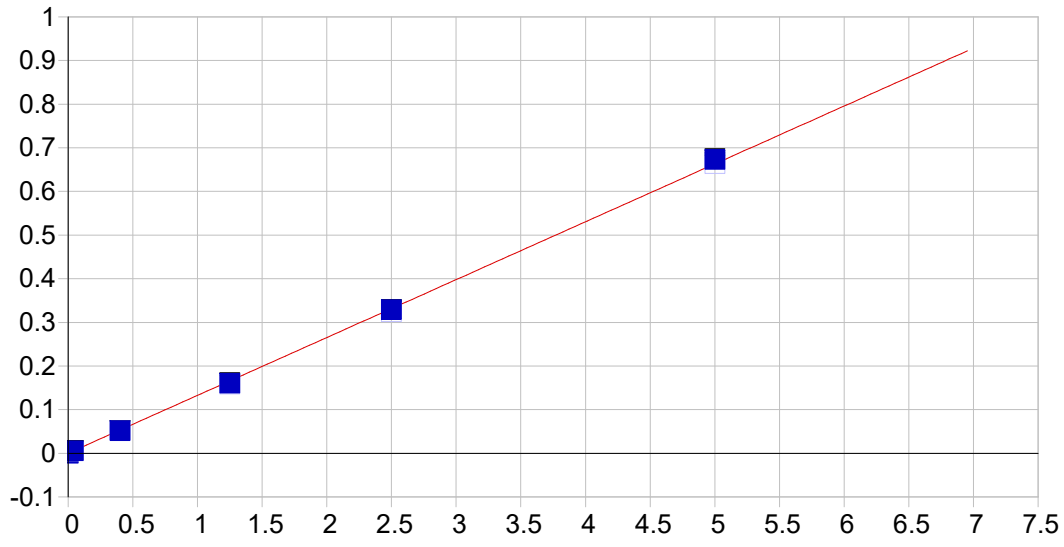
Na 589.592 { 57}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001551	Re-Slope:	1.000000
A1 (Gain):	0.011219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998352	Status:	OK.
Std Error of Est:	0.000341		
Predicted MDL:	0.020963		
Predicted MQL:	0.069878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00046	.000	.000	.00156	.000	1
S2	4.0000	3.8425	-.157	-3.94	.04466	.000	1
S3	12.500	10.953	-1.55	-12.4	.12443	.001	1
S4	25.000	24.808	-.192	-.768	.27987	.000	1
S5	50.000	52.102	2.10	4.20	.58608	.001	1
S1	2.0000	1.7938	-.206	-10.3	.02168	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



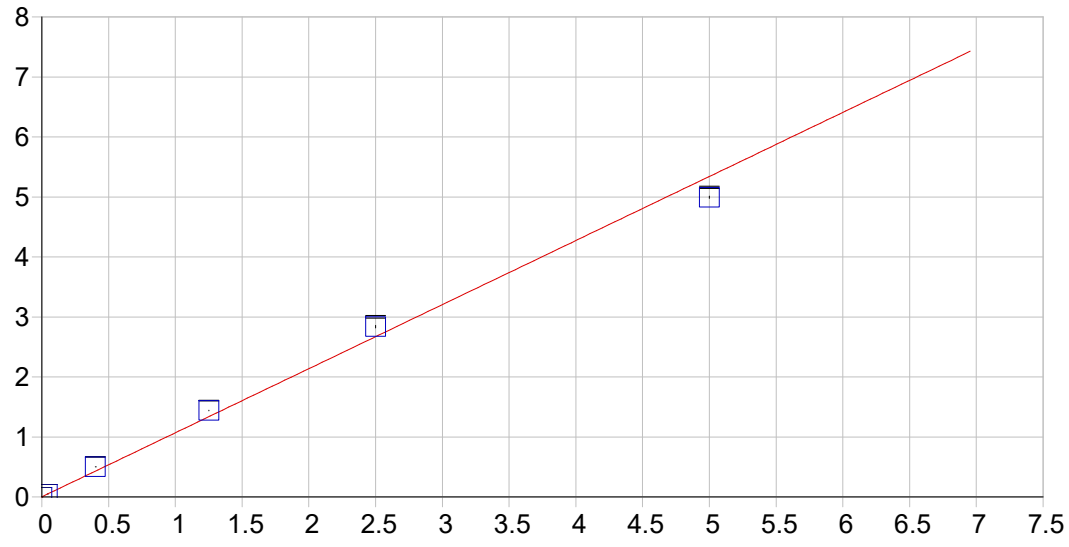
V 292.402 {115}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000097	Re-Slope:	1.000000
A1 (Gain):	0.132604	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999842	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.002299		
Predicted MQL:	0.007662		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00010	.000	1
S1	.04000	.03877	-.001	-3.08	.00504	.000	1
S3	1.2500	1.2090	-.041	-3.28	.15800	.001	1
S4	2.5000	2.4791	-.021	-.835	.32401	.000	1
S5	5.0000	5.0724	.072	1.45	.66305	.002	1
S2	.40000	.39068	-.009	-2.33	.05113	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



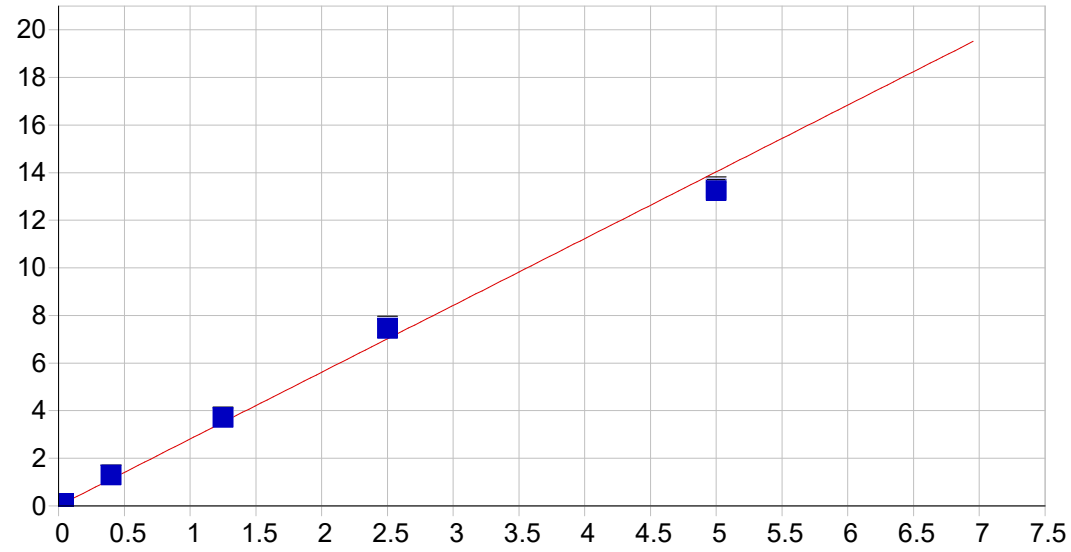
Zn 206.200 {464}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001164	Re-Slope:	1.000000
A1 (Gain):	1.067906	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997264	Status:	OK.
Std Error of Est:	0.001857		
Predicted MDL:	0.000188		
Predicted MQL:	0.000628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00115	.000	1
S1	.04000	.04194	.002	4.85	.04595	.000	1
S3	1.2500	1.3477	.098	7.82	1.4404	.006	1
S4	2.5000	2.6555	.155	6.22	2.8370	.019	1
S5	5.0000	4.6755	-.324	-6.49	4.9942	.018	1
S2	.40000	.46933	.069	17.3	.50237	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



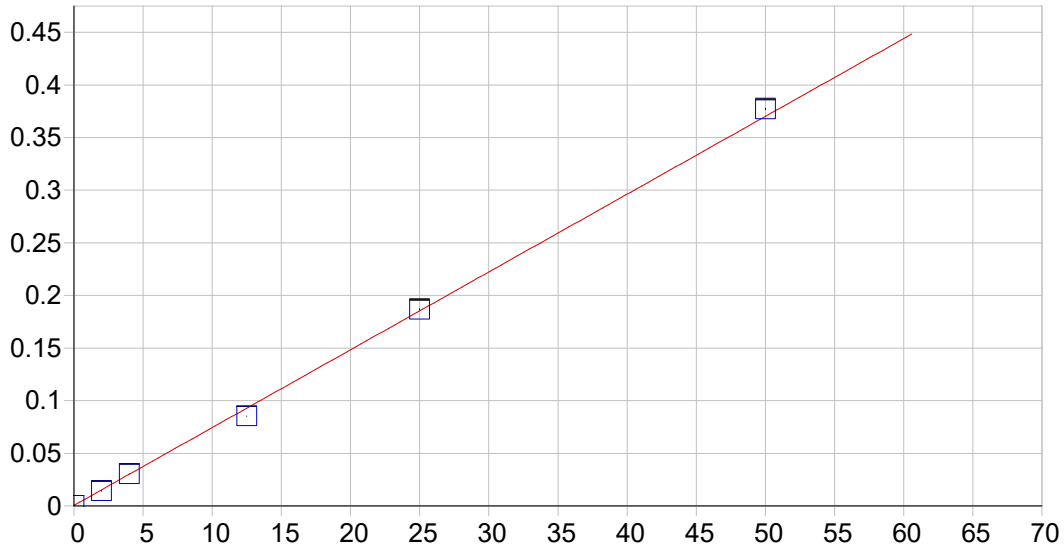
Zn 213.856 {158}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003811	Re-Slope:	1.000000
A1 (Gain):	2.806340	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997956	Status:	OK.
Std Error of Est:	0.004246		
Predicted MDL:	0.000307		
Predicted MQL:	0.001022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00378	.001	1
S1	.04000	.04155	.002	3.87	.12119	.002	1
S3	1.2500	1.3185	.068	5.48	3.7284	.015	1
S4	2.5000	2.6532	.153	6.13	7.4984	.059	1
S5	5.0000	4.7169	-.283	-5.66	13.339	.062	1
S2	.40000	.45989	.060	15.0	1.3022	.006	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



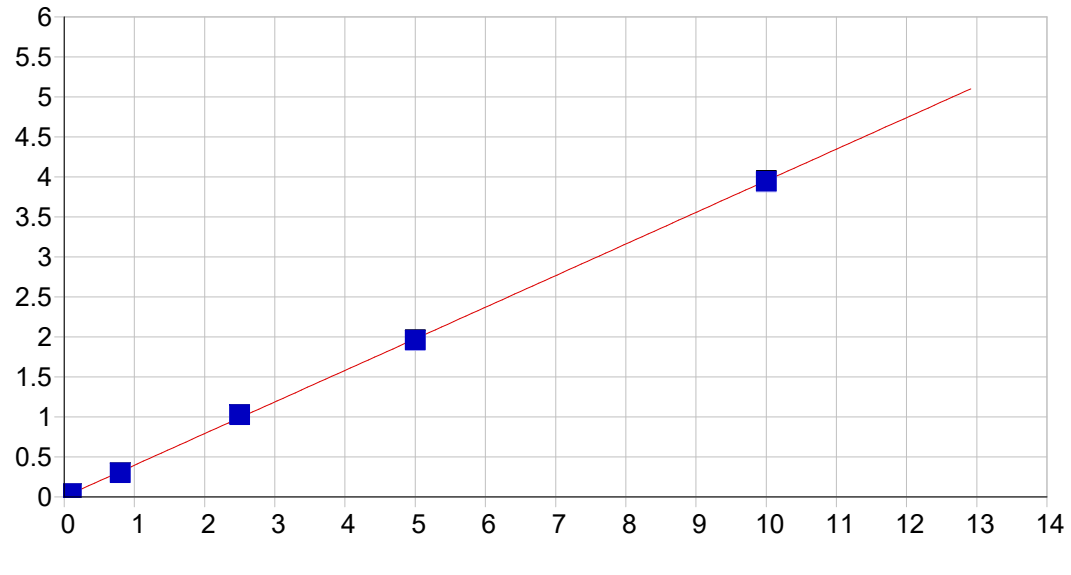
K 766.490 { 44}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000514	Re-Slope:	1.000000
A1 (Gain):	0.007393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999380	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.040427		
Predicted MQL:	0.134756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00024	.000	.000	.00052	.000	1
S2	4.0000	4.0566	.057	1.41	.03050	.000	1
S3	12.500	11.472	-1.03	-8.23	.08533	.000	1
S4	25.000	25.180	.180	.721	.18667	.001	1
S5	50.000	50.943	.943	1.89	.37714	.001	1
S1	2.0000	1.8484	-.152	-7.58	.01418	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



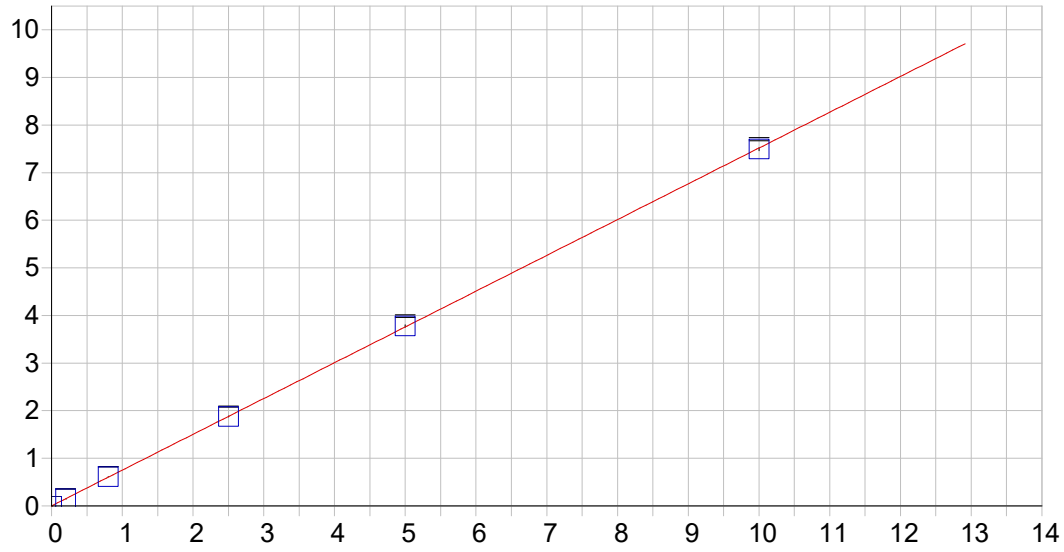
B 249.678 {135}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001250	Re-Slope:	1.000000
A1 (Gain):	0.394953	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000371		
Predicted MDL:	0.000855		
Predicted MQL:	0.002851		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00125	.000	1
S1	.10000	.10007	.000	.068	.04054	.001	1
S3	2.5000	2.5949	.095	3.80	1.0226	.001	1
S4	5.0000	4.9591	-.041	-.818	1.9527	.002	1
S5	10.000	9.9854	-.015	-.146	3.9308	.012	1
S2	.80000	.76056	-.039	-4.93	.30050	.003	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



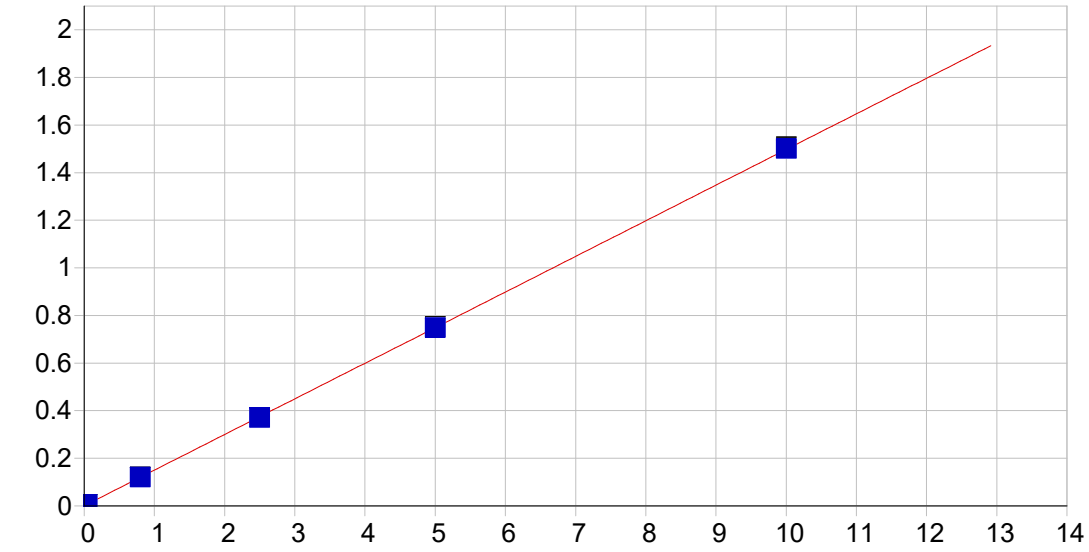
Mo 202.030 {467}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000270	Re-Slope:	1.000000
A1 (Gain):	0.751782	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000340		
Predicted MDL:	0.000282		
Predicted MQL:	0.000939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.20000	.19466	-.005	-2.67	.14661	.001	1
S3	2.5000	2.4982	-.002	-.073	1.8783	.011	1
S4	5.0000	5.0218	.022	.436	3.7756	.027	1
S5	10.000	9.9688	-.031	-.312	7.4946	.034	1
S2	.80000	.81661	.017	2.08	.61418	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



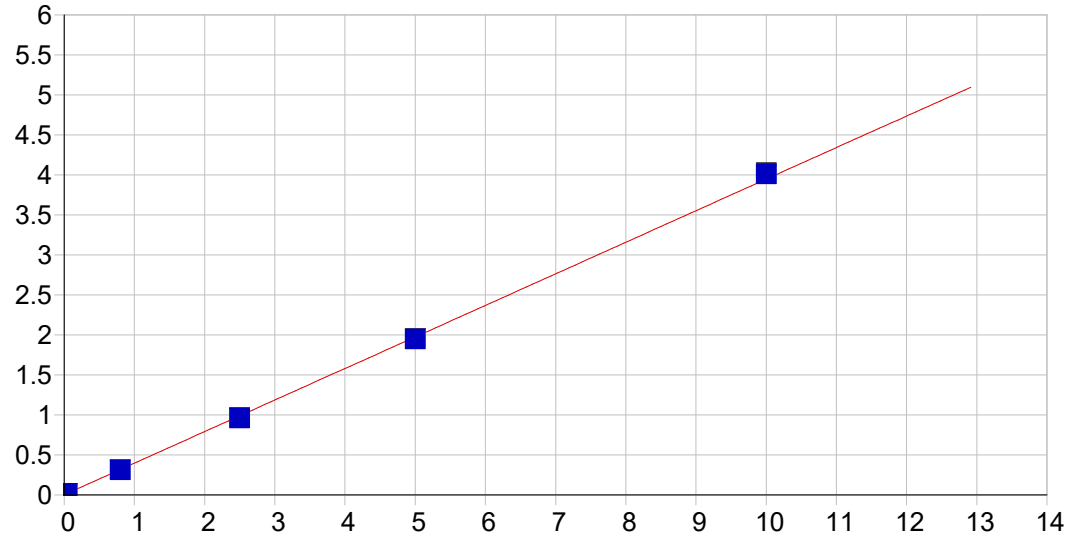
Sn 189.989 {478}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000589	Re-Slope:	1.000000
A1 (Gain):	0.149671	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.000769		
Predicted MQL:	0.002564		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00059	.000	1
S1	.04000	.03785	-.002	-5.38	.00625	.000	1
S3	2.5000	2.4725	-.027	-1.10	.37027	.001	1
S4	5.0000	5.0008	.001	.016	.74830	.004	1
S5	10.000	10.028	.028	.284	1.5000	.007	1
S2	.80000	.80048	.000	.060	.12027	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



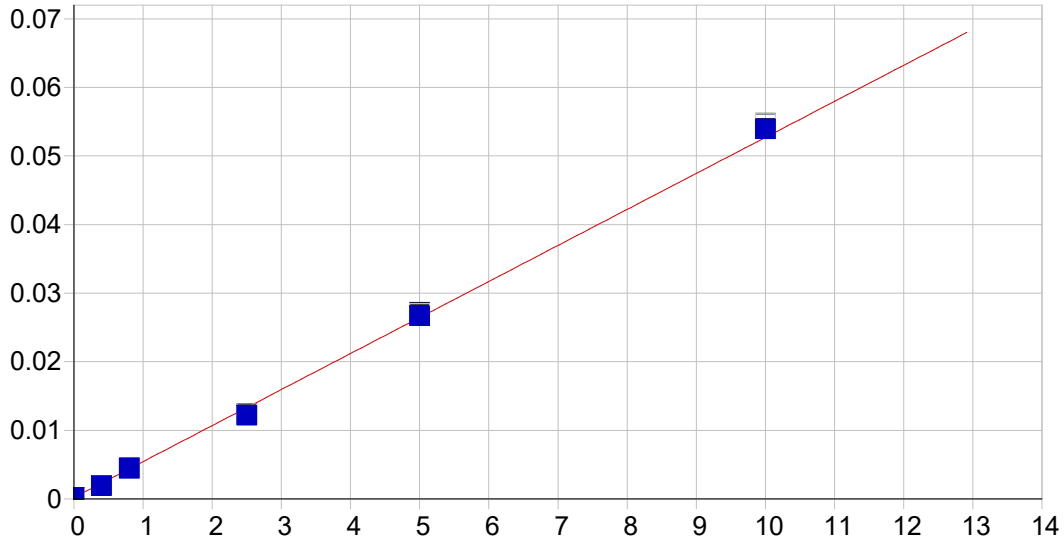
Ti 336.121 {100}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002197	Re-Slope:	1.000000
A1 (Gain):	0.394456	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	0.000887		
Predicted MQL:	0.002958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00220	.000	1
S1	.04000	.03680	-.003	-8.00	.01670	.000	1
S3	2.5000	2.4241	-.076	-3.03	.95806	.004	1
S4	5.0000	4.9367	-.063	-1.27	1.9488	.002	1
S5	10.000	10.161	.161	1.61	4.0088	.014	1
S2	.80000	.78146	-.019	-2.32	.31034	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



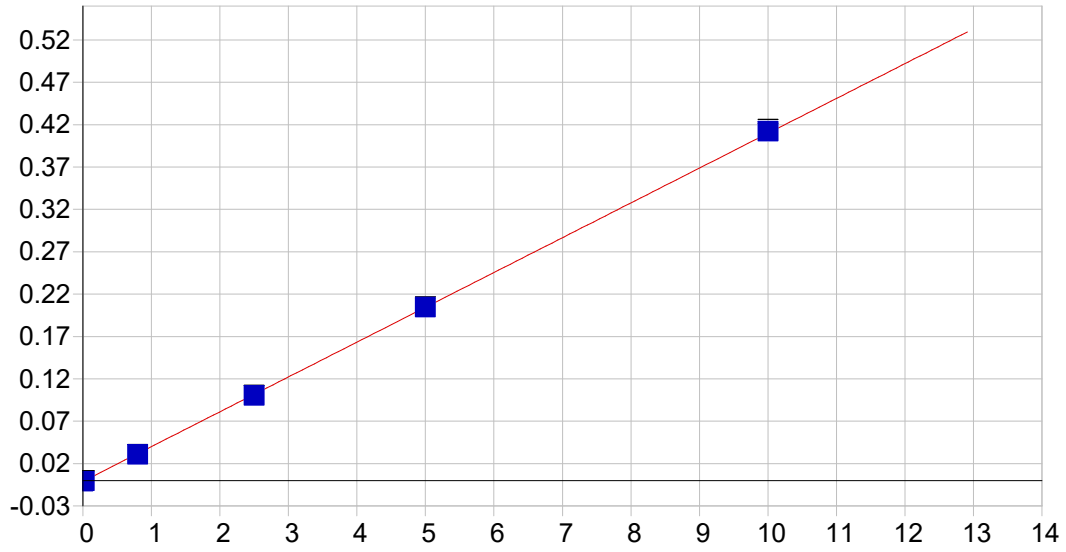
Si 288.158 {117}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000189	Re-Slope:	1.000000
A1 (Gain):	0.005253	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999060	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.009532		
Predicted MQL:	0.031774		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	.00019	.000	1
S1	.40000	.33074	-.069	-17.3	.00193	.000	1
S3	2.5000	2.2855	-.215	-8.58	.01239	.000	1
S4	5.0000	5.0440	.044	.881	.02708	.000	1
S5	10.000	10.231	.231	2.31	.05472	.000	1
S2	.80000	.80738	.007	.922	.00449	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



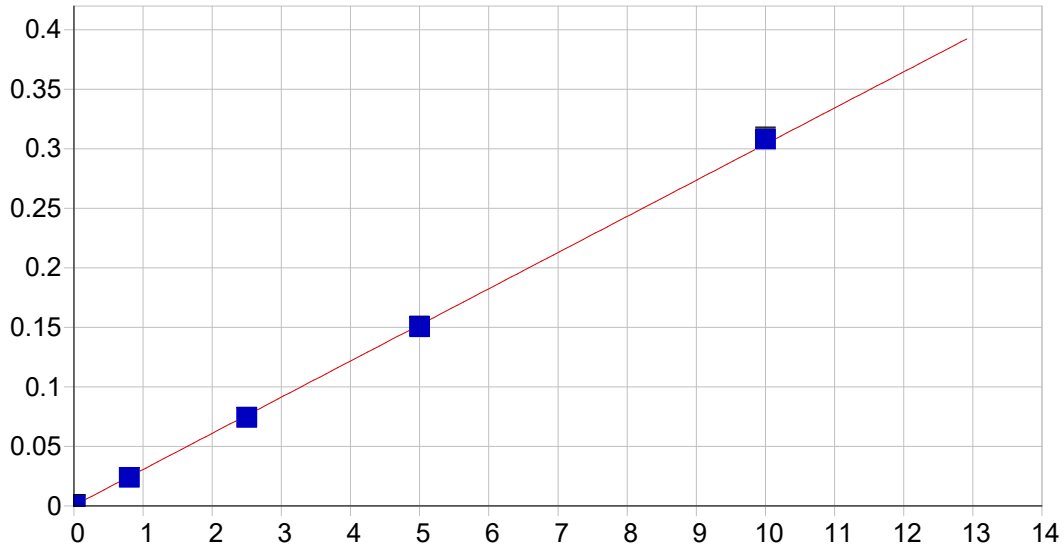
P 177.495 {490}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001089	Re-Slope:	1.000000
A1 (Gain):	0.041093	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.002758		
Predicted MQL:	0.009195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00109	.000	1
S1	.02000	.01751	-.002	-12.5	-.00037	.000	1
S3	2.5000	2.4690	-.031	-1.24	.10035	.000	1
S4	5.0000	5.0010	.001	.020	.20439	.001	1
S5	10.000	10.057	.057	.566	.41210	.003	1
S2	.80000	.77598	-.024	-3.00	.03079	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



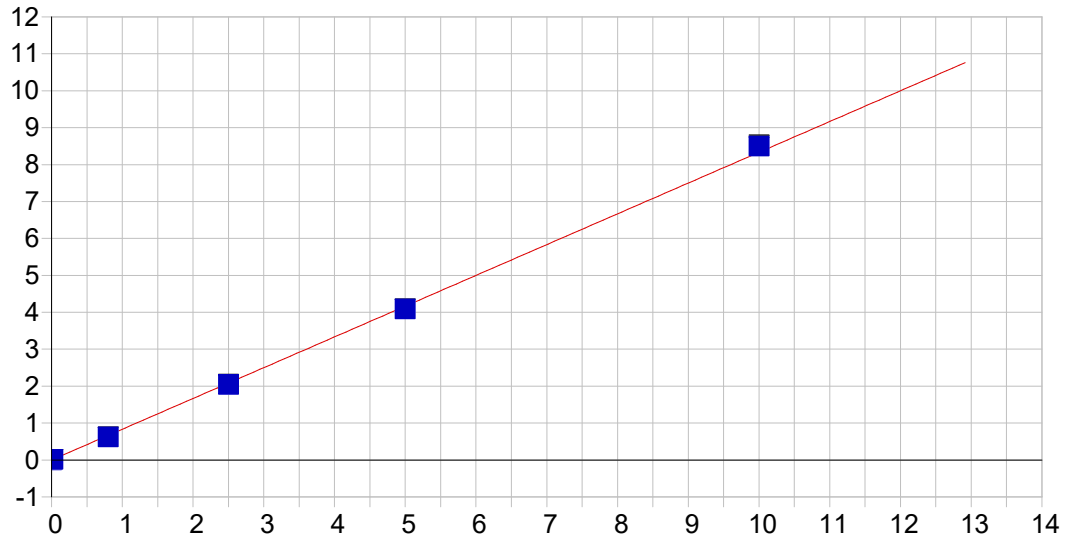
S 182.034 {485}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000277	Re-Slope:	1.000000
A1 (Gain):	0.030369	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.003424		
Predicted MQL:	0.011412		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00028	.000	1
S1	.02000	.02097	.001	4.85	.00089	.000	1
S3	2.5000	2.4348	-.065	-2.61	.07402	.000	1
S4	5.0000	4.9476	-.052	-1.05	.15013	.001	1
S5	10.000	10.141	.141	1.41	.30747	.002	1
S2	.80000	.77521	-.025	-3.10	.02376	.000	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



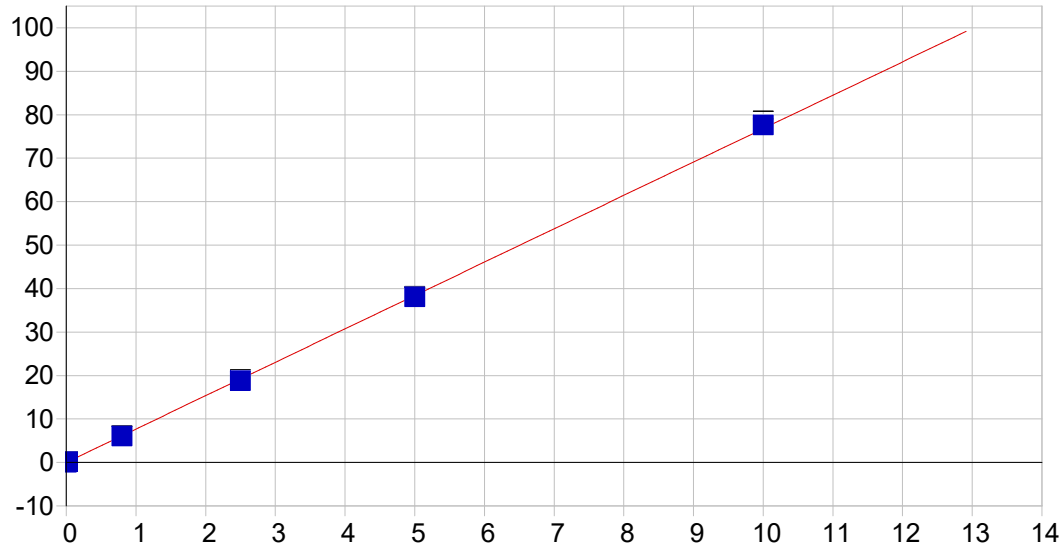
Li 670.784 { 50}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001278	Re-Slope:	1.000000
A1 (Gain):	0.833316	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.000465		
Predicted MDL:	0.001295		
Predicted MQL:	0.004316		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00128	.000	1
S5	10.000	10.197	.197	1.97	8.5002	.030	1
S4	5.0000	4.9035	-.097	-1.93	4.0869	.001	1
S3	2.5000	2.4523	-.048	-1.91	2.0433	.011	1
S1	.02000	.02132	.001	6.61	.01676	.000	1
S2	.80000	.74589	-.054	-6.76	.62061	.001	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



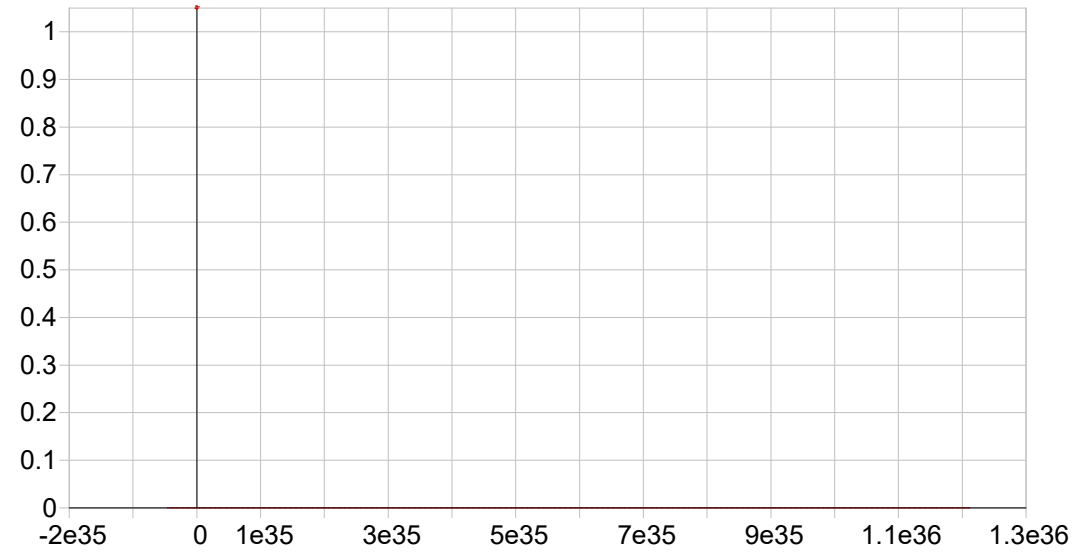
Sr 407.771 { 83}

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	7.680319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.002187		
Predicted MDL:	0.000091		
Predicted MQL:	0.000303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.02000	.02018	.000	.920	.15576	.000	1
S3	2.5000	2.4488	-.051	-2.05	18.826	.174	1
S4	5.0000	4.9546	-.045	-.909	38.089	.132	1
S5	10.000	10.106	.106	1.06	77.692	.858	1
S2	.80000	.79040	-.010	-1.20	6.0765	.013	1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

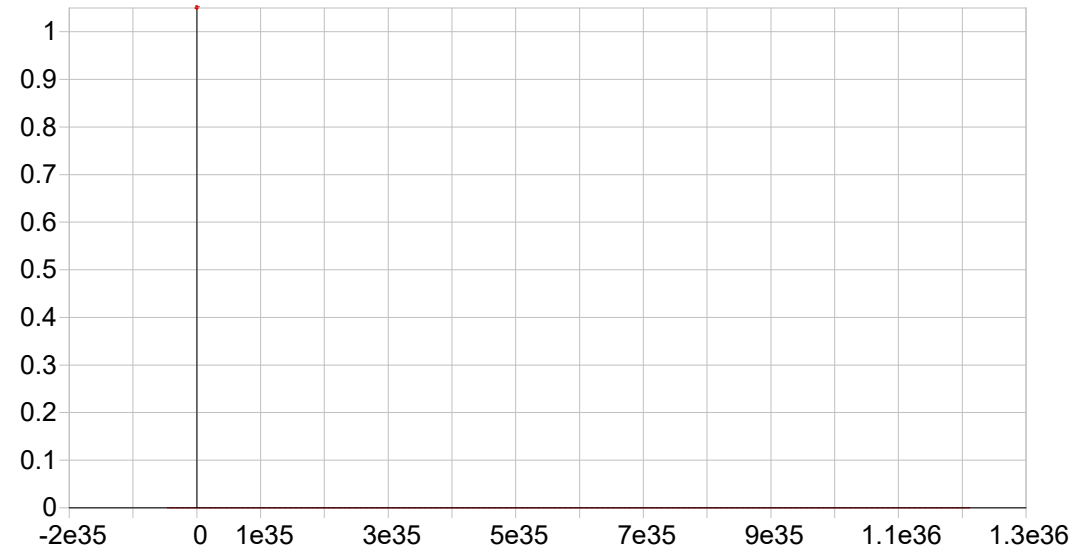


Y 224.306 {450}*

Date of Fit:	6/2/2025 15:35:35	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

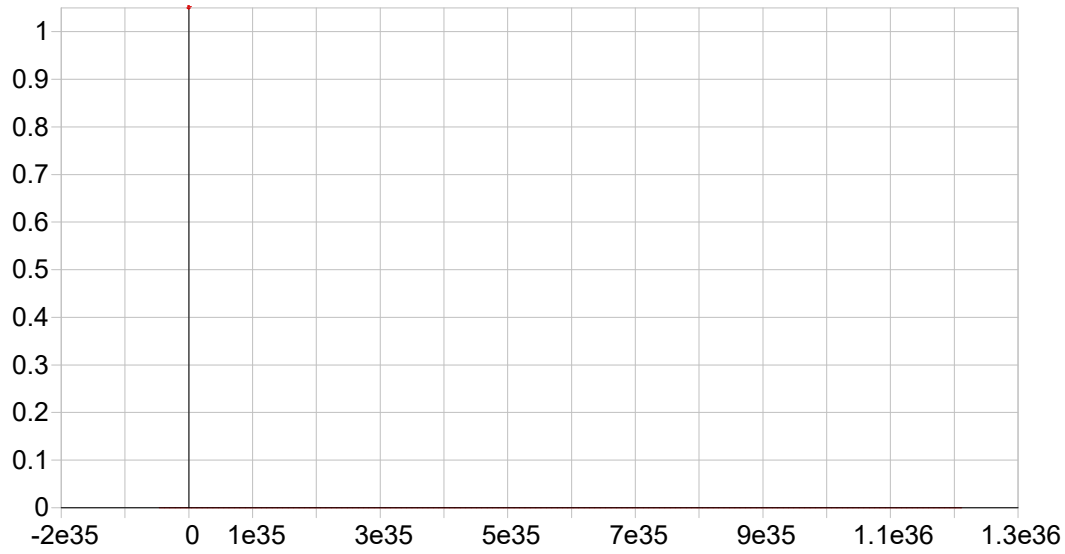
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

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

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

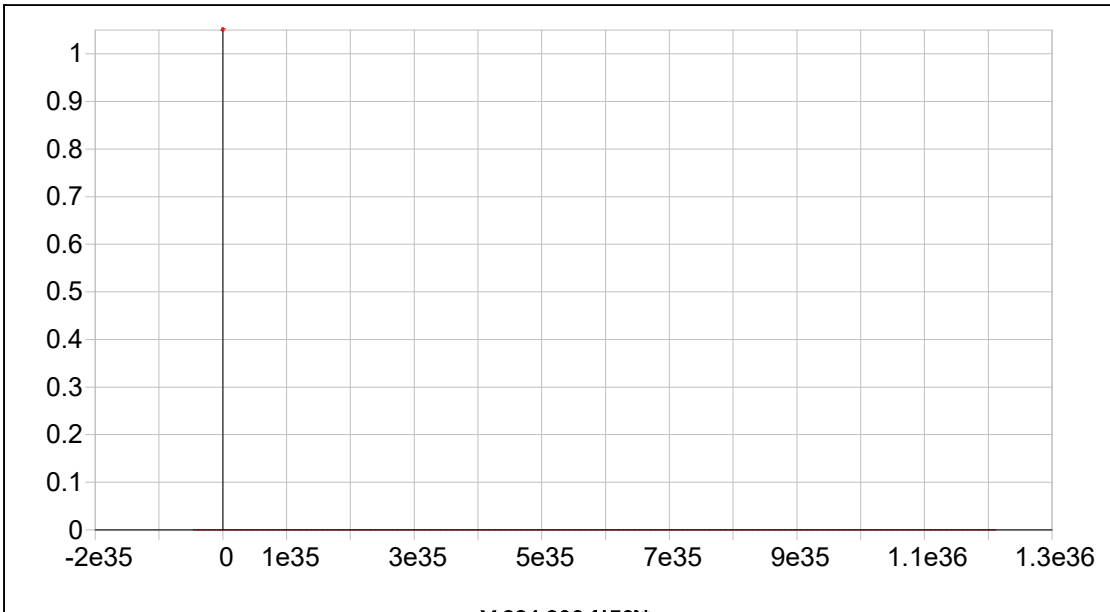


Y 371.030 { 91}*

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

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

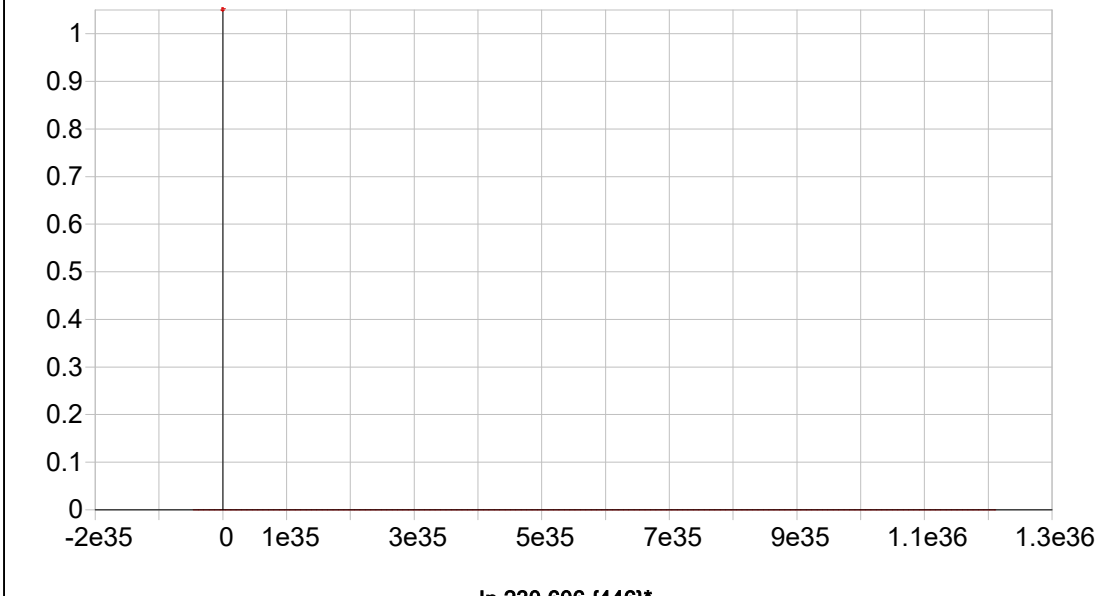
Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

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

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

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S0 Acquired: 6/2/2025 12:12:29 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**-.00017**	**.00020**	**-.00013**	**.00041**	**.00018**	**-.00032**	**.05250**	**-.00030**
Stddev	.00004	.00005	.00008	.00006	.00012	.00006	.00134	.00015
%RSD	21.119	24.899	56.170	13.568	64.289	20.296	2.5524	51.793
#1	-.00021	.00015	-.00009	.00038	.00006	-.00038	.05108	-.00018
#2	-.00014	.00024	-.00009	.00037	.00029	-.00033	.05266	-.00047
#3	-.00016	.00022	-.00022	.00047	.00020	-.00025	.05375	-.00024

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	**.00012**	**.00103**	**.00009**	**-.00004**	**-.00071**	**.00001**	**.00025**	**-.00026**
Stddev	.00029	.00028	.00008	.00022	.00029	.00001	.00022	.00011
%RSD	242.73	26.728	87.174	532.56	41.219	44.772	87.799	43.087
#1	.00028	.00082	.00001	-.00010	-.00039	.00001	.00016	-.00038
#2	-.00021	.00134	.00011	.00020	-.00080	.00001	.00008	-.00016
#3	.00029	.00093	.00017	-.00022	-.00096	.00002	.00049	-.00023

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	**-.00044**	**-.00037**	**.00156**	**.00010**	**.00378**	**.00052**	**.00125**	**.00027**
Stddev	.00016	.00012	.00009	.00030	.00067	.00011	.00009	.00014
%RSD	36.777	33.115	6.0426	309.75	17.752	20.410	7.0224	52.229
#1	-.00025	-.00047	.00166	.00004	.00342	.00053	.00121	.00013
#2	-.00055	-.00023	.00151	.00042	.00456	.00061	.00135	.00026
#3	-.00050	-.00041	.00149	-.00017	.00337	.00040	.00119	.00042

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	**.00059**	**.00220**	**.00019**	**-.00109**	**.00028**	**-.00128**	**.00001**
Stddev	.00009	.00037	.00002	.00003	.00003	.00010	.00017
%RSD	15.009	16.758	9.1445	2.8586	9.5743	7.7682	1676.9
#1	.00067	.00226	.00020	-.00107	.00025	-.00123	.00013
#2	.00060	.00180	.00017	-.00107	.00029	-.00139	.00008
#3	.00049	.00253	.00020	-.00112	.00029	-.00122	-.00018

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S0 Acquired: 6/2/2025 12:12:29 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	3076.9	63705.	11657.	2300.6	4173.7
Stddev	4.6	239.	23.	10.3	2.6
%RSD	.14925	.37593	.19929	.44716	.06227
#1	3076.7	63879.	11663.	2309.8	4172.2
#2	3081.5	63803.	11676.	2302.5	4176.7
#3	3072.4	63432.	11631.	2289.5	4172.1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S1 Acquired: 6/2/2025 12:16:53 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**.00120**	**.00263**	**.00242**	**.00107**	**.00553**	**.00859**	**.26632**	**.02923**
Stddev	.00014	.00013	.00011	.00018	.00008	.00060	.00124	.00012
%RSD	11.748	4.7695	4.5114	17.170	1.4658	6.9406	.46541	.39676
#1	.00122	.00267	.00254	.00123	.00546	.00860	.26551	.02934
#2	.00105	.00249	.00233	.00110	.00551	.00918	.26570	.02924
#3	.00133	.00274	.00239	.00087	.00562	.00799	.26775	.02911

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	**.01621**	**.11092**	**.00186**	**.02866**	**.01466**	**.00063**	**.00849**	**.02261**
Stddev	.00032	.00021	.00007	.00015	.00005	.00001	.00024	.00024
%RSD	1.9580	.18784	3.9596	.51795	.35637	1.8399	2.7684	1.0485
#1	.01644	.11098	.00179	.02849	.01472	.00062	.00860	.02274
#2	.01585	.11069	.00185	.02869	.01464	.00062	.00822	.02234
#3	.01634	.11109	.00194	.02878	.01463	.00064	.00865	.02276

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	**.02260**	**.00241**	**.02168**	**.00504**	**.12119**	**.01418**	**.04054**	**.14661**
Stddev	.00034	.00006	.00026	.00019	.00197	.00027	.00052	.00054
%RSD	1.4934	2.5598	1.2067	3.8584	1.6281	1.9310	1.2950	.36727
#1	.02240	.00247	.02144	.00524	.12299	.01435	.04113	.14599
#2	.02240	.00235	.02196	.00485	.12151	.01432	.04038	.14690
#3	.02299	.00240	.02163	.00502	.11908	.01386	.04011	.14695

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	**.00625**	**.01670**	**.00193**	**-.00037**	**.00089**	**.01676**	**.15576**
Stddev	.00007	.00020	.00003	.00004	.00007	.00039	.00041
%RSD	1.1852	1.2210	1.6542	11.521	8.0188	2.3516	.26158
#1	.00616	.01655	.00189	-.00032	.00083	.01708	.15580
#2	.00630	.01662	.00195	-.00038	.00097	.01687	.15534
#3	.00628	.01693	.00194	-.00040	.00087	.01632	.15615

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S1 Acquired: 6/2/2025 12:16:53 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	3054.3	61858.	11405.	2228.4	4137.2
Stddev	15.4	314.	40.	7.3	15.3
%RSD	.50433	.50839	.34669	.32594	.36976
#1	3071.6	62163.	11390.	2236.8	4150.8
#2	3049.2	61535.	11450.	2224.3	4140.0
#3	3042.1	61876.	11375.	2224.1	4120.6

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S2 Acquired: 6/2/2025 12:21:16 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**.05092**	**.05495**	**.13525**	**.03025**	**.08467**	**.11934**	**3.5010**	**.18439**
Stddev	.00015	.00071	.00062	.00024	.00023	.00100	.0105	.00095
%RSD	.29702	1.2873	.45919	.79808	.26782	.84113	.30114	.51685
#1	.05106	.05559	.13479	.03048	.08458	.11818	3.4905	.18450
#2	.05076	.05505	.13499	.03028	.08450	.11991	3.5116	.18528
#3	.05093	.05419	.13595	.03000	.08493	.11994	3.5008	.18339

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0364**	**.22162**	**.02865**	**.38348**	**.14691**	**.00451**	**.16057**	**.04325**
Stddev	.0026	.00098	.00005	.00104	.00056	.00002	.00039	.00025
%RSD	.24648	.44383	.18909	.27166	.38428	.40287	.24337	.58952
#1	1.0354	.22180	.02870	.38280	.14626	.00449	.16027	.04353
#2	1.0344	.22250	.02865	.38295	.14722	.00451	.16101	.04304
#3	1.0393	.22055	.02859	.38468	.14725	.00453	.16044	.04317

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	**.22788**	**.05673**	**.04466**	**.05113**	**1.3022**	**.03050**	**.30050**	**.61418**
Stddev	.00042	.00018	.00049	.00002	.0058	.00023	.00268	.00120
%RSD	.18486	.31048	1.0911	.03246	.44633	.75213	.89323	.19514
#1	.22782	.05676	.04432	.05114	1.2955	.03029	.30141	.61300
#2	.22749	.05689	.04444	.05114	1.3058	.03048	.30261	.61414
#3	.22833	.05654	.04522	.05111	1.3054	.03075	.29748	.61540

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	**.12027**	**.31034**	**.00449**	**.03079**	**.02376**	**.62061**	**6.0765**
Stddev	.00048	.00039	.00002	.00016	.00002	.00097	.0128
%RSD	.40052	.12561	.49647	.51976	.06695	.15550	.20995
#1	.12001	.31007	.00447	.03061	.02375	.61963	6.0665
#2	.11998	.31016	.00451	.03091	.02374	.62155	6.0908
#3	.12083	.31078	.00450	.03086	.02377	.62066	6.0721

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S2 Acquired: 6/2/2025 12:21:16 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	3030.5	62594.	12037.	2256.4	4060.9
Stddev	8.2	192.	34.	12.9	15.2
%RSD	.26918	.30654	.27947	.56984	.37422
#1	3035.6	62713.	12020.	2266.0	4071.2
#2	3034.8	62698.	12015.	2261.4	4068.0
#3	3021.1	62373.	12076.	2241.8	4043.4

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S3 Acquired: 6/2/2025 12:25:24 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	.15537	.16938	.41444	.09118	.26152	.37635	10.653	.62138
Stddev	.00132	.00149	.00138	.00045	.00151	.00350	.050	.00219
%RSD	.84656	.87730	.33345	.49285	.57683	.93052	.47271	.35204
#1	.15473	.16961	.41306	.09121	.26107	.37236	10.600	.62066
#2	.15449	.16779	.41443	.09072	.26029	.37773	10.700	.62384
#3	.15688	.17073	.41582	.09162	.26320	.37894	10.659	.61964

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	3.1641	.68616	.08661	1.1739	.44565	.01252	.49554	.13730
Stddev	.0078	.00100	.00014	.0045	.00278	.00005	.00114	.00057
%RSD	.24566	.14536	.16566	.38000	.62352	.43758	.22944	.41157
#1	3.1591	.68514	.08676	1.1705	.44459	.01254	.49567	.13677
#2	3.1601	.68621	.08657	1.1723	.44356	.01256	.49660	.13724
#3	3.1730	.68713	.08648	1.1790	.44880	.01245	.49434	.13789

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	.69579	.17209	.12443	.15800	3.7284	.08533	1.0226	1.8783
Stddev	.00199	.00013	.00062	.00141	.0150	.00013	.0008	.0107
%RSD	.28582	.07385	.49984	.89365	.40289	.15082	.08267	.57251
#1	.69361	.17223	.12390	.15656	3.7137	.08539	1.0229	1.8753
#2	.69628	.17204	.12511	.15939	3.7277	.08541	1.0216	1.8694
#3	.69749	.17199	.12429	.15804	3.7437	.08518	1.0232	1.8903

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	.37027	.95806	.01239	.10035	.07402	2.0433	18.826
Stddev	.00094	.00413	.00008	.00019	.00039	.0105	.174
%RSD	.25306	.43151	.68420	.19014	.52364	.51450	.92459
#1	.36970	.95329	.01229	.10014	.07368	2.0315	18.739
#2	.36975	.96050	.01243	.10049	.07394	2.0517	19.026
#3	.37135	.96039	.01245	.10043	.07444	2.0468	18.712

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S3 Acquired: 6/2/2025 12:25:24 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	3057.6	63879.	10952.	2292.0	4049.5
Stddev	13.6	66.	36.	6.4	11.6
%RSD	.44610	.10320	.33263	.27827	.28549
#1	3065.2	63893.	10980.	2298.0	4060.1
#2	3065.7	63808.	10911.	2292.8	4051.3
#3	3041.8	63937.	10966.	2285.3	4037.2

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S4 Acquired: 6/2/2025 12:29:29 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	.31415	.34284	.83705	.18247	.52261	.76181	21.753	1.1903
Stddev	.00250	.00265	.00331	.00194	.00379	.00292	.274	.0015
%RSD	.79454	.77397	.39562	1.0649	.72496	.38337	1.2618	.12619
#1	.31300	.34070	.83587	.18154	.52144	.76037	21.470	1.1900
#2	.31243	.34201	.83449	.18116	.51955	.76518	22.018	1.1920
#3	.31701	.34581	.84079	.18470	.52685	.75989	21.771	1.1891

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	6.4069	1.3901	.17475	2.3766	.89032	.02734	.99996	.27645
Stddev	.0345	.0020	.00087	.0139	.00515	.00015	.00225	.00055
%RSD	.53803	.14546	.50022	.58445	.57792	.56452	.22501	.19760
#1	6.3987	1.3924	.17468	2.3726	.88828	.02729	1.0025	.27643
#2	6.3773	1.3893	.17566	2.3650	.88650	.02751	.99822	.27701
#3	6.4448	1.3886	.17392	2.3920	.89617	.02721	.99917	.27592

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	1.4003	.35121	.27987	.32401	7.4984	.18667	1.9527	3.7756
Stddev	.0072	.00188	.00027	.00032	.0595	.00060	.0024	.0269
%RSD	.51099	.53416	.09548	.09797	.79336	.31990	.12483	.71164
#1	1.3987	.35001	.28015	.32403	7.4599	.18696	1.9507	3.7656
#2	1.3941	.35337	.27984	.32431	7.5669	.18707	1.9555	3.7551
#3	1.4081	.35025	.27962	.32368	7.4683	.18599	1.9520	3.8060

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	.74830	1.9488	.02708	.20439	.15013	4.0869	38.089
Stddev	.00393	.0023	.00011	.00091	.00070	.0010	.132
%RSD	.52504	.11732	.39635	.44413	.46654	.02538	.34713
#1	.74656	1.9508	.02699	.20401	.14978	4.0881	38.005
#2	.74554	1.9492	.02720	.20373	.14968	4.0862	38.022
#3	.75279	1.9463	.02704	.20542	.15094	4.0865	38.242

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S4 Acquired: 6/2/2025 12:29:29 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	3007.7	61410.	11392.	2200.5	3934.6
Stddev	22.4	265.	21.	20.7	24.8
%RSD	.74394	.43168	.18274	.93852	.63149
#1	3015.8	61623.	11416.	2216.9	3942.4
#2	3024.8	61114.	11378.	2177.3	3954.6
#3	2982.4	61495.	11383.	2207.3	3906.8

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S5 Acquired: 6/2/2025 12:33:40 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**.62465**	**.68109**	**1.6768**	**.36131**	**1.0420**	**1.5509**	**45.599**	**2.3668**
Stddev	.00291	.00832	.0058	.00162	.0024	.0054	.243	.0101
%RSD	.46665	1.2221	.34564	.44941	.23305	.34530	.53183	.42775
#1	.62161	.67417	1.6727	.35950	1.0402	1.5470	45.677	2.3579
#2	.62489	.67876	1.6742	.36264	1.0410	1.5486	45.792	2.3648
#3	.62743	.69033	1.6834	.36178	1.0447	1.5570	45.327	2.3778

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	**12.864**	**2.8282**	**.34244**	**4.7976**	**1.7432**	**.05485**	**2.0430**	**.56369**
Stddev	.056	.0068	.00053	.0184	.0057	.00007	.0060	.00098
%RSD	.43300	.24028	.15460	.38419	.32554	.12418	.29590	.17438
#1	12.822	2.8275	.34303	4.7852	1.7380	.05484	2.0409	.56343
#2	12.844	2.8218	.34200	4.7889	1.7424	.05479	2.0383	.56286
#3	12.927	2.8354	.34230	4.8188	1.7493	.05493	2.0498	.56477

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.8004**	**.69816**	**.58608**	**.66305**	**13.339**	**.37714**	**3.9308**	**7.4946**
Stddev	.0119	.00204	.00100	.00226	.062	.00078	.0119	.0338
%RSD	.42429	.29212	.17010	.34128	.46255	.20601	.30375	.45090
#1	2.7929	.69948	.58674	.66104	13.357	.37722	3.9255	7.4661
#2	2.7941	.69581	.58493	.66260	13.270	.37632	3.9224	7.4858
#3	2.8141	.69919	.58657	.66550	13.389	.37787	3.9444	7.5320

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	**1.5000**	**4.0088**	**.05472**	**.41210**	**.30747**	**8.5002**	**77.692**
Stddev	.0068	.0135	.00005	.00259	.00177	.0299	.858
%RSD	.45305	.33708	.09717	.62818	.57527	.35118	1.1039
#1	1.4951	4.0045	.05470	.40998	.30604	8.4743	77.276
#2	1.4972	3.9980	.05468	.41135	.30692	8.4935	77.121
#3	1.5078	4.0239	.05478	.41499	.30945	8.5328	78.678

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: S5 Acquired: 6/2/2025 12:33:40 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**2979.9**	**61346.**	**11222.**	**2185.2**	**3811.3**
Stddev	4.4	55.	20.	5.8	8.0
%RSD	.14919	.09006	.18052	.26676	.21075
#1	2984.0	61283.	11237.	2186.1	3816.8
#2	2980.5	61386.	11231.	2190.5	3815.1
#3	2975.1	61369.	11199.	2179.0	3802.1

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICV01 Acquired: 6/2/2025 12:37:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.070924**	**1.066884**	**1.041071**	**1.098983**	**1.061103**	**2.559887**
Stddev	.008928	.000578	.002757	.003566	.001398	.004166
%RSD	.8337045	.0542028	.2648010	.3244860	.1317073	.1627464
#1	1.066378	1.066588	1.039172	1.102235	1.061271	2.556888
#2	1.065183	1.067550	1.039808	1.099544	1.059629	2.564644
#3	1.081211	1.066513	1.044233	1.095169	1.062409	2.558129

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5034250**	**.5198099**	**.5348105**	**10.10131**	**.5462750**	**.5366812**
Stddev	.0022042	.0015621	.0019053	.01433	.0015625	.0021275
%RSD	.4378403	.3005086	.3562537	.1418911	.2860222	.3964184
#1	.5033344	.5214243	.5348237	10.10957	.5480748	.5370589
#2	.5012675	.5183060	.5328986	10.08476	.5454847	.5343901
#3	.5056731	.5196993	.5367091	10.10960	.5452657	.5385945

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5510103**	**10.05284**	**.5156161**	**6.015603**	**.5423818**	**.2634917**
Stddev	.0019122	.03073	.0010899	.038757	.0020859	.0008389
%RSD	.3470417	.3057239	.2113685	.6442692	.3845892	.3183713
#1	.5496492	10.08722	.5159746	6.036934	.5411611	.2638106
#2	.5501851	10.02803	.5143922	5.970867	.5411940	.2641245
#3	.5531966	10.04327	.5164816	6.039008	.5447904	.2625402

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.471566**	**.4958201**	**1.016366**	**9.819452**	**2.425909**	**2.600672**
Stddev	.012582	.0023655	.003931	.017731	.004989	.008961
%RSD	.1328398	.4770844	.3868187	.1805679	.2056713	.3445772
#1	9.460841	.4957941	1.019915	9.815374	2.431486	2.596415
#2	9.468440	.4934677	1.017042	9.838867	2.421869	2.594633
#3	9.485416	.4981985	1.012140	9.804116	2.424372	2.610969

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICV01 Acquired: 6/2/2025 12:37:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**2.536383**	**2.438097**	F **2.202455**	F **.0061684**	F **.0096680**	**2.560437**
Stddev	.007245	.007736	.009570	.0027693	.0022422	.009258
%RSD	.2856312	.3173048	.4345314	44.89488	23.19186	.3615932
#1	2.535945	2.438166	2.200441	.0035592	.0070887	2.551455
#2	2.529367	2.430327	2.212872	.0090740	.0111521	2.559909
#3	2.543837	2.445798	2.194052	.0058720	.0107632	2.569949

Elem	Sr4077
Units	ppm
Avg	**2.434862**
Stddev	.026128
%RSD	1.073078
#1	2.454811
#2	2.405287
#3	2.444488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3040.581**	**63960.97**	**11889.47**	**2255.020**	**4068.124**
Stddev	10.546	195.63	23.43	1.462	13.190
%RSD	.3468564	.3058625	.1970253	.0648115	.3242296
#1	3050.459	63824.55	11864.38	2253.431	4075.704
#2	3041.810	63873.24	11910.76	2255.321	4075.774
#3	3029.474	64185.11	11893.27	2256.307	4052.893

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: LLICV01 Acquired: 6/2/2025 12:59:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0236269**	**.0388211**	**.0132673**	**.0182147**	**.0513707**	**.1108003**
Stddev	.0025225	.0019375	.0012209	.0020760	.0034384	.0134849
%RSD	10.67624	4.990723	9.201966	11.39728	6.693266	12.17046
#1	.0246734	.0374557	.0129277	.0203014	.0549301	.0969454
#2	.0207496	.0379691	.0122522	.0181930	.0480677	.1115737
#3	.0254576	.0410386	.0146220	.0161496	.0511145	.1238819

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0949181**	**.0062631**	**.0059459**	**1.961508**	**.0102250**	**.0292178**
Stddev	.0010402	.0000128	.0000936	.011064	.0004142	.0004260
%RSD	1.095899	.2050845	1.574196	.5640505	4.050929	1.458109
#1	.0958814	.0062555	.0060046	1.962745	.0104286	.0295974
#2	.0938151	.0062780	.0058380	1.949878	.0104981	.0287570
#3	.0950578	.0062559	.0059952	1.971901	.0097484	.0292989

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212228**	**.1024416**	**.0203712**	**2.009402**	**.0400322**	**.0092119**
Stddev	.0003140	.0038078	.0005261	.015388	.0001985	.0000828
%RSD	1.479344	3.717031	2.582779	.7657872	.4957180	.8984814
#1	.0210479	.0980518	.0209747	1.991634	.0402606	.0091166
#2	.0210352	.1044204	.0201306	2.018278	.0399028	.0092660
#3	.0215853	.1048526	.0200085	2.018295	.0399331	.0092531

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.716083**	**.0367614**	**.0409650**	**1.770600**	**.1071188**	**.1943513**
Stddev	.011558	.0007998	.0005532	.025053	.0007680	.0009250
%RSD	.6735334	2.175515	1.350328	1.414962	.7169219	.4759409
#1	1.703652	.0358490	.0412512	1.780727	.1075982	.1946646
#2	1.718092	.0370941	.0403274	1.742068	.1075252	.1933104
#3	1.726506	.0373411	.0413165	1.789005	.1062331	.1950790

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: LLICV01 Acquired: 6/2/2025 12:59:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0358413	.0372383	F .3062643	.0181112	.0215693	.0223126
Stddev	.0003096	.0006194	.0090743	.0018339	.0033344	.0003187
%RSD	.8636942	1.663393	2.962909	10.12588	15.45900	1.428373
#1	.0361964	.0376723	.3128180	.0175908	.0253612	.0226155
#2	.0356996	.0375137	.2959071	.0165937	.0190952	.0223422
#3	.0356281	.0365290	.3100676	.0201491	.0202515	.0219802

Elem	Sr4077
Units	ppm
Avg	.0202744
Stddev	.0001067
%RSD	.5263506
#1	.0203115
#2	.0201541
#3	.0203576

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3152.877	64696.44	11424.07	2303.517	4358.972
Stddev	13.629	214.32	44.47	12.965	18.642
%RSD	.4322759	.3312705	.3892258	.5628196	.4276635
#1	3141.253	64899.84	11377.64	2318.346	4340.952
#2	3167.877	64716.82	11428.28	2297.878	4378.179
#3	3149.500	64472.66	11466.27	2294.327	4357.784

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICB01 Acquired: 6/2/2025 13:03:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0007447	.0009290	.0017170	-.000299	-.001647	.0048733	-.000256
Stddev	.0002770	.0015960	.0003208	.006391	.001686	.0035247	.000284
%RSD	37.20070	171.7929	18.68311	2135.096	102.3803	72.32737	110.9729
#1	.0010199	-.000603	.0013673	.006773	-.003574	.0086028	.000021
#2	.0007483	.002582	.0017860	-.005663	-.000928	.0044199	-.000547
#3	.0004659	.000807	.0019976	-.002008	-.000439	.0015972	-.000242

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	-.000067	-.006119	.0005805	.0001868	.0002705	.0108004
Stddev	.000053	.000062	.007650	.0003545	.0001466	.0002376	.0018372
%RSD	134.4875	92.70067	125.0254	61.07227	78.48349	87.81451	17.01091
#1	-.000049	-.000022	-.012431	.0002334	.0003524	.0004903	.0128512
#2	-.000087	-.000041	.002389	.0009419	.0001344	.0003028	.0093048
#3	.000018	-.000137	-.008316	.0005661	.0000736	.0000185	.0102450

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000035	.0094273	-.000029	.0000889	-.051538	-.000422	.0007842
Stddev	.0003194	.0068951	.000074	.0002966	.022605	.001893	.0000311
%RSD	9224.568	73.13929	257.4483	333.7069	43.86077	449.1193	3.962989
#1	-.000076	.0027437	.000019	.0001069	-.035750	.001653	.0007809
#2	-.000269	.0090223	.000008	.0003760	-.077433	-.000861	.0008168
#3	.000355	.0165161	-.000114	-.000216	-.041431	-.002057	.0007549

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014661	.0051983	.0001045	.0022916	-.000294	.0031040	-.000507
Stddev	.039437	.0002046	.0002436	.0008593	.000094	.0069431	.001973
%RSD	268.9972	3.935770	233.1554	37.49552	32.05922	223.6842	389.3372
#1	-.051451	.0049621	.0001458	.0015854	-.000394	.0107044	-.000299
#2	.026975	.0053160	-.000157	.0020412	-.000206	.0015132	-.002575
#3	-.019507	.0053169	.000325	.0032483	-.000284	-.002906	.001354

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICB01 Acquired: 6/2/2025 13:03:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002327	.0002179	-.000093
Stddev	.0021408	.0005127	.000045
%RSD	920.1140	235.2982	48.63478
#1	.0011409	.0007974	-.000078
#2	-.002213	-.000177	-.000145
#3	.001770	.000033	-.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3175.548	67385.60	11893.92	2322.718	4445.157
Stddev	8.440	287.10	36.75	4.968	6.025
%RSD	.2657797	.4260608	.3089836	.2138846	.1355322
#1	3185.067	67617.10	11851.67	2327.849	4451.952
#2	3172.596	67064.33	11911.61	2317.931	4440.470
#3	3168.979	67475.36	11918.48	2322.376	4443.048

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CRI01 Acquired: 6/2/2025 13:08:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0203919	.0358650	.0130779	.0190957	.0479706	.1018806	.0924765
Stddev	.0019311	.0029921	.0010078	.0016355	.0009302	.0058813	.0009191
%RSD	9.469747	8.342573	7.705732	8.564871	1.939171	5.772769	.9939235
#1	.0207216	.0392971	.0125135	.0185011	.0489758	.1082869	.0925979
#2	.0183172	.0338055	.0124789	.0209453	.0471401	.1006293	.0933289
#3	.0221368	.0344923	.0142414	.0178407	.0477959	.0967256	.0915027

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059131	.0058971	1.907622	.0099542	.0289070	.0212364	.1063908
Stddev	.0000678	.0000862	.007732	.0001034	.0002137	.0006277	.0071169
%RSD	1.147349	1.461737	.4053387	1.039109	.7394127	2.955880	6.689365
#1	.0059839	.0058391	1.901930	.0099352	.0291537	.0211415	.1102073
#2	.0058486	.0058560	1.916425	.0098616	.0287878	.0206615	.1107854
#3	.0059068	.0059961	1.904512	.0100658	.0287794	.0219062	.0981797

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201464	1.927761	.0394751	.0092980	1.693397	.0364859	.0403506
Stddev	.0002727	.019297	.0003071	.0005383	.015295	.0010202	.0002244
%RSD	1.353442	1.001019	.7778355	5.789419	.9032293	2.796084	.5560563
#1	.0199317	1.910639	.0395917	.0088370	1.675805	.0362858	.0404706
#2	.0200542	1.948671	.0391269	.0091675	1.703549	.0375913	.0400918
#3	.0204532	1.923972	.0397068	.0098896	1.700837	.0355806	.0404895

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.743705	.1004417	.1917988	.0349184	.0350623	.3149230	.0179066
Stddev	.015810	.0012715	.0005599	.0003642	.0007105	.0033142	.0018172
%RSD	.9066790	1.265905	.2919361	1.043030	2.026441	1.052371	10.14818
#1	1.741155	.0990000	.1915633	.0349908	.0346481	.3116297	.0199028
#2	1.729325	.1009223	.1913951	.0345234	.0358827	.3148817	.0174684
#3	1.760635	.1014029	.1924380	.0352409	.0346561	.3182576	.0163486

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CRI01 Acquired: 6/2/2025 13:08:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0213868	.0200143	.0198049
Stddev	.0004930	.0005461	.0000296
%RSD	2.305156	2.728513	.1495728
#1	.0213708	.0194754	.0197847
#2	.0218877	.0205673	.0197912
#3	.0209020	.0200003	.0198389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3160.639	66104.26	12049.95	2313.282	4380.340
Stddev	13.999	377.51	13.01	9.982	7.613
%RSD	.4429142	.5710867	.1079944	.4314978	.1737950
#1	3171.636	66430.68	12061.07	2315.699	4388.969
#2	3165.400	66191.26	12035.63	2321.834	4377.478
#3	3144.880	65690.85	12053.14	2302.314	4374.573

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSA01 Acquired: 6/2/2025 13:12:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075296	-.001341	-.001560	-.019979	-.006122	250.1390	.0041595
Stddev	.0009153	.003061	.003259	.009797	.004609	.5413	.0014517
%RSD	12.15645	228.2808	208.8718	49.03768	75.27904	.2164191	34.90196
#1	.0073144	-.004530	-.005211	-.011933	-.003373	250.0241	.0044663
#2	.0067411	.001574	-.000527	-.030889	-.003550	250.7286	.0054332
#3	.0085334	-.001067	.001057	-.017115	-.011443	249.6643	.0025788

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009550	.0018049	235.0932	.0475503	.0019385	.0031297	95.82584
Stddev	.0000670	.0001357	.9575	.0004024	.0001659	.0006147	.62622
%RSD	7.015910	7.520424	.4072660	.8461998	8.557236	19.64013	.6534966
#1	.0009971	.0016610	235.9459	.0478026	.0020543	.0036954	96.47156
#2	.0008777	.0019306	235.2762	.0477619	.0017485	.0024756	95.22114
#3	.0009902	.0018229	234.0574	.0470862	.0020128	.0032182	95.78482

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009000	253.2386	.0030249	-.001418	.0239617	.0024806	.0150591
Stddev	.0006341	1.2962	.0001855	.000248	.0037873	.0009028	.0001674
%RSD	70.45947	.5118443	6.130845	17.49208	15.80568	36.39233	1.111476
#1	.0010276	254.3443	.0030164	-.001698	.0277764	.0014484	.0150259
#2	.0014605	253.5594	.0028438	-.001329	.0202024	.0028705	.0149109
#3	.0002117	251.8122	.0032144	-.001226	.0239063	.0031229	.0152406

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010980	-.060616	.0001165	-.003052	-.002843	.0203384	.0017828
Stddev	.014627	.003867	.0002481	.000849	.000807	.0039642	.0014454
%RSD	133.2184	6.379811	213.0300	27.80451	28.36757	19.49149	81.07331
#1	-.000280	-.056247	-.000065	-.002200	-.003762	.0162437	.0028660
#2	-.027647	-.063600	.000015	-.003060	-.002254	.0206135	.0001416
#3	-.005013	-.062001	.000399	-.003897	-.002513	.0241579	.0023409

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSA01 Acquired: 6/2/2025 13:12:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.011318	.0018601	.0054270
Stddev	.001372	.0007010	.0005185
%RSD	12.12171	37.68549	9.554348
#1	-.009874	.0013745	.0048322
#2	-.011475	.0015421	.0057836
#3	-.012605	.0026637	.0056653

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2852.388	58891.01	11319.91	2092.051	3639.367
Stddev	14.019	223.46	28.03	16.800	16.672
%RSD	.4914898	.3794541	.2476318	.8030519	.4581133
#1	2851.107	58701.57	11328.47	2075.173	3633.558
#2	2867.004	59137.46	11288.60	2108.772	3658.167
#3	2839.053	58834.02	11342.67	2092.207	3626.376

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSAB01 Acquired: 6/2/2025 13:35:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1130451**	**.0996049**	**.0420092**	**.0607356**	**.6366143**	**254.1046**
Stddev	.0009650	.0031584	.0030541	.0033045	.0032536	1.0792
%RSD	.8536128	3.170965	7.269991	5.440838	.5110791	.4247151
#1	.1141218	.0976247	.0448588	.0613456	.6329189	255.1603
#2	.1127553	.0979427	.0387852	.0636926	.6378757	253.0033
#3	.1122583	.1032473	.0423835	.0571685	.6390484	254.1501

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4941894**	**.4909104**	**.9948549**	**239.0149**	**.5646328**	**.5070163**
Stddev	.0018480	.0021429	.0032619	.6059	.0020134	.0022598
%RSD	.3739468	.4365205	.3278737	.2535071	.3565773	.4456959
#1	.4960982	.4907548	.9936898	239.4675	.5626729	.5051848
#2	.4924088	.4888494	.9923356	238.3265	.5666957	.5063224
#3	.4940613	.4931268	.9985393	239.2505	.5645298	.5095416

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5082092**	**104.3577**	**.4825728**	**257.4648**	**1.007765**	**.2172922**
Stddev	.0018867	.6102	.0015166	.4986	.003260	.0011747
%RSD	.3712498	.5847552	.3142764	.1936562	.3234634	.5405898
#1	.5067117	104.2391	.4812865	257.7149	1.005876	.2164382
#2	.5075875	105.0185	.4821868	256.8906	1.005891	.2186318
#3	.5103283	103.8155	.4842451	257.7888	1.011529	.2168065

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.030973**	**.4845057**	**1.024953**	**-.012934**	F **-.023415**	F **.0004079**
Stddev	.011317	.0039380	.002328	.015029	.004117	.0002999
%RSD	36.53806	.8127816	.2270898	116.1941	17.58470	73.53284
#1	-.018917	.4823308	1.023005	-.027076	-.024475	.0006947
#2	-.041367	.4821348	1.027531	-.014572	-.018871	.0004326
#3	-.032636	.4890514	1.024324	.002846	-.026899	.0000964

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSAB01 Acquired: 6/2/2025 13:35:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.003428	F -.003034	F .0130084	F .0028948	F -.010746	F .0020828
Stddev	.000255	.000487	.0161531	.0045122	.002998	.0011206
%RSD	7.448566	16.05661	124.1746	155.8725	27.89994	53.80194
#1	-.003285	-.003597	-.002651	.0038338	-.014140	.0013072
#2	-.003275	-.002735	.029614	-.002013	-.009641	.0033676
#3	-.003722	-.002771	.012062	.006864	-.008457	.0015736

Elem	Sr4077
Units	ppm
Avg	F -.001168
Stddev	.000821
%RSD	70.25452
#1	-.000675
#2	-.002116
#3	-.000715

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2757.324	56043.35	11519.67	2002.901	3557.956
Stddev	13.744	330.90	21.28	12.619	17.044
%RSD	.4984708	.5904394	.1847329	.6300274	.4790409
#1	2765.727	56169.67	11521.91	2012.925	3571.820
#2	2764.782	55667.89	11539.74	1988.731	3563.120
#3	2741.463	56292.48	11497.36	2007.048	3538.927

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSADLX20 Acquired: 6/2/2025 13:45:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031947**	**-.000635**	**.0018812**	**-.005610**	**-.001285**	**11.69518**	**.0008441**
Stddev	.0019992	.001148	.0017865	.002316	.001389	.02329	.0009444
%RSD	62.57838	180.8155	94.96930	41.29216	108.1441	.1991475	111.8868
#1	.0027225	-.001479	.0004813	-.006640	.000308	11.70401	-.000244
#2	.0014739	-.001099	.0038933	-.007232	-.002246	11.66876	.001454
#3	.0053877	.000673	.0012688	-.002957	-.001916	11.71276	.001322

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000882**	**.0000119**	**11.38049**	**.0029414**	**-.000075**	**.0002625**	**4.347140**
Stddev	.0000208	.0000551	.01794	.0003142	.000116	.0004184	.008867
%RSD	23.56064	461.1600	.1576164	10.68289	154.0758	159.4170	.2039621
#1	.0000691	-.000024	11.36779	.0032804	-.000096	-.000066	4.338279
#2	.0001103	-.000016	11.37267	.0026599	-.000179	.000119	4.347129
#3	.0000850	.000075	11.40101	.0028838	.000050	.000734	4.356012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014982**	**11.90907**	**.0010403**	**.0000883**	**-.074954**	**.0007441**	**.0057989**
Stddev	.0001788	.04839	.0001176	.0002773	.021967	.0016588	.0003370
%RSD	11.93735	.4063024	11.30250	314.0614	29.30717	222.9300	5.812240
#1	.0017038	11.85656	.0011061	.0002334	-.089290	-.001063	.0054098
#2	.0014117	11.91877	.0011103	-.000231	-.049664	.001097	.0060019
#3	.0013790	11.95187	.0009046	.000263	-.085906	.002198	.0059850

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.069994**	**-.000328**	**-.000155**	**-.001487**	**-.000641**	**.0015298**	**-.002510**
Stddev	.008536	.000802	.000136	.000379	.000799	.0092122	.002761
%RSD	12.19558	244.8055	87.97668	25.47027	124.6317	602.1804	110.0392
#1	-.072449	-.001241	-.000049	-.001751	-.001370	.0093262	.000563
#2	-.077033	.000265	-.000308	-.001053	.000213	.0038988	-.004785
#3	-.060499	-.000008	-.000107	-.001658	-.000767	-.008636	-.003306

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSADLX20 Acquired: 6/2/2025 13:45:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0238812	.0006739	.0003534
Stddev	.0035146	.0012775	.0000564
%RSD	14.71689	189.5755	15.94595
#1	.0230298	-.000130	.0003678
#2	.0208706	.000005	.0002912
#3	.0277433	.002147	.0004011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.548	62889.12	10956.44	2263.087	4097.563
Stddev	17.228	54.74	7.75	4.171	16.415
%RSD	.5673609	.0870452	.0707350	.1843032	.4006028
#1	3051.750	62830.45	10956.37	2259.948	4115.329
#2	3040.060	62898.07	10964.23	2261.493	4094.399
#3	3017.835	62938.83	10948.72	2267.820	4082.960

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSABDLX20 Acquired: 6/2/2025 13:56:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069516	.0063647	.0016396	.0063058	.0297411	12.30473	.0241119
Stddev	.0010231	.0009117	.0027681	.0034761	.0014978	.03235	.0006085
%RSD	14.71805	14.32392	168.8279	55.12450	5.035991	.2628872	2.523609
#1	.0057881	.0071168	.0033985	.0049030	.0314502	12.33572	.0234277
#2	.0077107	.0053507	.0030715	.0102641	.0286574	12.27118	.0245922
#3	.0073559	.0066266	-.001551	.0037504	.0291156	12.30729	.0243160

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255801	.0496998	12.07644	.0281894	.0247885	.0266274	4.871364
Stddev	.0000713	.0001045	.01367	.0002840	.0003813	.0005610	.011444
%RSD	.2787961	.2102628	.1131786	1.007607	1.538366	2.106836	.2349218
#1	.0254980	.0496063	12.08582	.0280169	.0251137	.0261810	4.881520
#2	.0256162	.0496803	12.06076	.0280341	.0248831	.0272571	4.858964
#3	.0256262	.0498126	12.08275	.0285173	.0243688	.0264439	4.873606

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263901	12.52708	.0504269	.0099942	-.091753	.0234898	.0703501
Stddev	.0002486	.05584	.0004784	.0005132	.028614	.0027035	.0001808
%RSD	.9421295	.4457443	.9486456	5.134556	31.18554	11.50933	.2570277
#1	.0262538	12.58376	.0501181	.0105816	-.099291	.0219575	.0701606
#2	.0262394	12.47212	.0501846	.0097681	-.060125	.0219005	.0703690
#3	.0266771	12.52535	.0509779	.0096329	-.115843	.0266114	.0705208

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.073450	-.001726	.0001287	-.002262	-.000466	.0132769	-.005012
Stddev	.019000	.000630	.0002523	.000715	.000777	.0075225	.000700
%RSD	25.86818	36.48755	196.0306	31.61677	166.7720	56.65865	13.97322
#1	-.059947	-.001404	.0001792	-.002288	.000424	.0076885	-.004875
#2	-.095177	-.001323	-.000145	-.002963	-.001013	.0218300	-.004390
#3	-.065227	-.002452	.000352	-.001534	-.000810	.0103122	-.005770

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: ICSABDLX20 Acquired: 6/2/2025 13:56:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0024801	-.000630	.0001488
Stddev	.0029505	.000631	.0001075
%RSD	118.9667	100.2705	72.22428
#1	.0049589	-.000122	.0002291
#2	-.000783	-.000430	.0001908
#3	.003265	-.001337	.0000267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3029.479	62855.49	11538.20	2263.416	4076.667
Stddev	13.743	33.31	38.08	2.412	10.304
%RSD	.4536439	.0529953	.3299929	.1065599	.2527551
#1	3045.003	62843.22	11566.40	2265.734	4087.581
#2	3024.566	62893.19	11553.30	2263.595	4075.311
#3	3018.868	62830.05	11494.88	2260.920	4067.108

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV01 Acquired: 6/2/2025 14:14:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.981756**	**4.780538**	**4.919222**	**4.819856**	**5.025948**	**9.968353**	**9.888622**
Stddev	.010608	.027923	.023663	.014725	.009539	.027041	.056984
%RSD	.2129439	.5840998	.4810334	.3055018	.1897958	.2712711	.5762582
#1	4.985700	4.801814	4.913089	4.820646	5.034554	9.987824	9.873869
#2	4.969740	4.790880	4.899229	4.804752	5.015691	9.979757	9.840465
#3	4.989827	4.748919	4.945348	4.834170	5.027598	9.937478	9.951531

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2464341**	**2.451286**	**24.61946**	**1.003640**	**2.453431**	**1.258189**	**5.070453**
Stddev	.0026918	.009240	.02854	.005077	.008109	.002485	.067164
%RSD	1.092303	.3769272	.1159444	.5058867	.3305221	.1974874	1.324618
#1	.2479433	2.449136	24.61427	1.001689	2.451613	1.258669	5.021859
#2	.2480327	2.443310	24.65024	.999828	2.446386	1.255499	5.042404
#3	.2433263	2.461411	24.59386	1.009403	2.462295	1.260398	5.147095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.462862**	**24.55094**	**2.470030**	**1.260275**	**25.49253**	**2.469900**	**2.665244**
Stddev	.005635	.12200	.007654	.003004	.40573	.010940	.020991
%RSD	.2287925	.4969062	.3098830	.2383582	1.591557	.4429352	.7875677
#1	2.464582	24.61374	2.467669	1.257628	25.22037	2.468166	2.642662
#2	2.467437	24.62873	2.463834	1.259657	25.29838	2.481604	2.668912
#3	2.456568	24.41034	2.478586	1.263540	25.95886	2.459931	2.684160

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.56731**	**4.935959**	**5.052903**	**4.903135**	**4.955565**	**5.071544**	**4.983992**
Stddev	.38227	.056475	.009534	.011581	.006762	.089946	.006768
%RSD	1.495145	1.144157	.1886742	.2361913	.1364518	1.773540	.1358035
#1	25.30430	4.971611	5.058413	4.904555	4.949998	5.006371	4.987961
#2	25.39182	4.965420	5.041894	4.890911	4.963090	5.034098	4.976177
#3	26.00581	4.870845	5.058400	4.913941	4.953608	5.174164	4.987838

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV01 Acquired: 6/2/2025 14:14:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.826703	5.020388	4.932359
Stddev	.006745	.011345	.033648
%RSD	.1397438	.2259883	.6821837
#1	4.823522	5.007287	4.910265
#2	4.822137	5.027010	4.971083
#3	4.834450	5.026866	4.915727

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3031.496	61505.89	11550.27	2194.080	4006.894
Stddev	4.379	424.13	85.61	30.049	11.392
%RSD	.1444475	.6895725	.7411759	1.369564	.2843125
#1	3035.260	61689.24	11488.16	2220.061	4018.384
#2	3032.539	61807.51	11514.73	2201.008	4006.693
#3	3026.690	61020.94	11647.92	2161.172	3995.603

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB01 Acquired: 6/2/2025 14:28:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0007102**	**.0016281**	**.0016361**	**-.002496**	**-.000172**	**.0026521**	**-.000806**
Stddev	.0012194	.0014049	.0017076	.004108	.002560	.0044527	.001127
%RSD	171.7085	86.29092	104.3706	164.5672	1492.551	167.8933	139.8157
#1	.0011088	.0026146	.0032654	-.006689	.001123	-.000158	.000185
#2	.0016803	.0000196	-.000140	.001521	.001483	.007786	-.002031
#3	-.000659	.0022501	.001783	-.002321	-.003120	.000328	-.000572

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**-.000061**	**-.000489**	**.0014075**	**.0000444**	**-.000077**	**.0091595**
Stddev	.000007	.000027	.005714	.0002803	.0001410	.000180	.0014152
%RSD	46.11063	44.38550	1169.500	19.91224	317.9081	233.8829	15.45013
#1	-.000022	-.000031	-.003341	.0010942	.0001856	-.000180	.0104946
#2	-.000012	-.000068	.006090	.0014940	.0000440	-.000182	.0093079
#3	-.000009	-.000083	-.004215	.0016344	-.000096	.000131	.0076760

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012725**	**.0104836**	**.0014289**	**-.000012**	**-.112804**	**-.000243**	**.0008118**
Stddev	.0003671	.0028855	.0000391	.000207	.012369	.000831	.0001424
%RSD	28.84679	27.52424	2.737300	1756.778	10.96488	341.8567	17.54024
#1	.0016906	.0112791	.0014122	-.000206	-.116965	.000203	.0006571
#2	.0011241	.0072837	.0014009	.000206	-.122556	.000269	.0008408
#3	.0010029	.0128878	.0014736	-.000036	-.098891	-.001202	.0009374

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.043834**	**.0061076**	**.0004264**	**.0032517**	**-.000382**	**.0033416**	**-.003411**
Stddev	.004844	.0005856	.0000971	.0003927	.000377	.0039191	.001719
%RSD	11.05022	9.587544	22.76035	12.07752	98.74720	117.2821	50.38134
#1	-.047016	.0066732	.0003175	.0029124	-.000212	.0039514	-.003073
#2	-.046226	.0061456	.0005036	.0031608	-.000815	-.000847	-.005274
#3	-.038259	.0055039	.0004581	.0036819	-.000120	.006920	-.001887

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB01 Acquired: 6/2/2025 14:28:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001128**	**-.000215**	**-.000033**
Stddev	.000433	.001847	.000033
%RSD	38.39814	858.6089	100.2441
#1	-.000828	-.000575	-.000051
#2	-.000932	.001786	-.000055
#3	-.001625	-.001856	.000005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3102.946**	**63817.41**	**12007.13**	**2290.617**	**4242.074**
Stddev	26.056	177.09	56.14	6.806	28.456
%RSD	.8397139	.2774921	.4675460	.2971047	.6708093
#1	3123.279	64012.92	11946.26	2298.453	4263.776
#2	3111.984	63771.51	12018.28	2287.212	4252.590
#3	3073.574	63667.78	12056.87	2286.186	4209.857

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2136-05 Acquired: 6/2/2025 14:32:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001846**	**-.001673**	**.0041667**	**.0094362**	**.0003021**	**.2872854**	**.1901305**
Stddev	.001099	.001900	.0016925	.0024878	.0022118	.0036829	.0012817
%RSD	59.51773	113.5251	40.61828	26.36480	732.0705	1.281948	.6741327
#1	-.003114	-.003779	.0028598	.0098336	.0028526	.2865855	.1889472
#2	-.001230	-.001152	.0060785	.0067737	-.001089	.2912680	.1899523
#3	-.001194	-.000089	.0035619	.0117015	-.000858	.2840028	.1914920

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000015**	**-.000062**	**3.277527**	**.0007738**	**.0029212**	**.0034155**	**1.742914**
Stddev	.000052	.000095	.013120	.0002656	.0001045	.0001339	.018715
%RSD	347.0258	153.7972	.4002997	34.32144	3.577096	3.919719	1.073787
#1	-.000074	.000047	3.262517	.0005292	.0029951	.0035699	1.722261
#2	.000022	-.000123	3.283256	.0010563	.0028016	.0033437	1.758750
#3	.000007	-.000109	3.286809	.0007359	.0029668	.0033328	1.747732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6985844**	**.4693410**	**.0012022**	**-.000097**	**309.9452**	**.0002946**	**.0344060**
Stddev	.0048148	.0094503	.0003882	.000062	1.5765	.0017557	.0006203
%RSD	.6892299	2.013526	32.29471	63.46146	.5086250	595.9865	1.802847
#1	.6933155	.4802511	.0013196	-.000095	309.5338	.0014192	.0338938
#2	.6996818	.4637000	.0007688	-.000160	311.6866	-.001729	.0350957
#3	.7027557	.4640718	.0015181	-.000036	308.6153	.001193	.0342287

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4183103**	**.0260703**	**.0002815**	**-.002020**	**.0002151**	**.1962892**	**.0056390**
Stddev	.0201576	.0008009	.0001742	.000563	.0003656	.0050502	.0020682
%RSD	4.818814	3.071948	61.86002	27.86485	169.9761	2.572852	36.67647
#1	.4366524	.0264699	.0000916	-.002648	.0004742	.1905925	.0075960
#2	.3967294	.0265927	.0003192	-.001562	.0003740	.2002171	.0058460
#3	.4215490	.0251482	.0004338	-.001848	-.000203	.1980579	.0034752

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2136-05 Acquired: 6/2/2025 14:32:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2134173	-.002265	.0252098
Stddev	.0067717	.001634	.0000714
%RSD	3.172997	72.15559	.2830527
#1	.2171695	-.003138	.0252093
#2	.2174822	-.003277	.0252815
#3	.2056000	-.000380	.0251388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.095	61495.19	11126.23	2180.669	3771.499
Stddev	4.797	493.51	30.83	24.393	3.275
%RSD	.1656247	.8025241	.2771260	1.118597	.0868380
#1	2900.740	61896.93	11159.04	2204.679	3774.810
#2	2896.384	60944.31	11121.79	2155.910	3771.427
#3	2891.160	61644.34	11097.86	2181.419	3768.261

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2143-01 Acquired: 6/2/2025 14:37:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004008**	**-.002874**	**.0143427**	**-.000267**	**.0022673**	**.0178398**	**.4224805**
Stddev	.000312	.000866	.0017452	.013406	.0019442	.0020098	.0007516
%RSD	7.778446	30.12934	12.16781	5029.715	85.75180	11.26582	.1778991
#1	-.004278	-.003838	.0130151	.005600	.0038160	.0156933	.4218286
#2	-.004079	-.002621	.0136937	-.015606	.0000854	.0181489	.4233026
#3	-.003667	-.002162	.0163194	.009207	.0029004	.0196771	.4223102

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000175**	**.0031760**	**.5834599**	**.0024617**	**-.000557**	**.0591983**	**.0236437**
Stddev	.000017	.0001232	.0054438	.0000306	.000193	.0003094	.0023180
%RSD	9.939513	3.878877	.9330147	1.244435	34.63395	.5226710	9.803961
#1	-.000155	.0030399	.5845772	.0024801	-.000449	.0589948	.0248999
#2	-.000187	.0032799	.5882584	.0024786	-.000441	.0595544	.0209688
#3	-.000182	.0032083	.5775442	.0024263	-.000779	.0590458	.0250625

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081034**	**.0946723**	**.0011071**	**.0000263**	**428.9380**	**-.000527**	**1.429662**
Stddev	.0001036	.0074289	.0004947	.0002018	.2201	.001363	.003638
%RSD	1.278660	7.846934	44.68821	767.7551	.0513114	258.8992	.2544853
#1	.0081052	.1016978	.0012561	.0002167	428.8781	-.000730	1.426769
#2	.0082060	.0868969	.0005549	.0000475	428.7540	-.001777	1.428470
#3	.0079989	.0954222	.0015101	-.000185	429.1818	.000927	1.433747

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.413658**	**.1323609**	**.0005869**	**-.001789**	**.0002105**	**.0515093**	**.2078961**
Stddev	.037284	.0005372	.0003678	.000733	.0008552	.0066221	.0041783
%RSD	2.637442	.4058660	62.66912	40.98528	406.3251	12.85606	2.009797
#1	1.401177	.1328513	.0006815	-.001412	.0008586	.0589730	.2123563
#2	1.455581	.1324446	.0001810	-.002634	-.000759	.0492167	.2040729
#3	1.384215	.1317867	.0008980	-.001321	.000532	.0463381	.2072591

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2143-01 Acquired: 6/2/2025 14:37:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8248890	-.001835	.0082415
Stddev	.0091622	.000262	.0000824
%RSD	1.110718	14.26490	.9997926
#1	.8246878	-.001642	.0083229
#2	.8158290	-.001731	.0082433
#3	.8341501	-.002133	.0081582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2878.936	60281.19	11359.92	2141.995	3744.009
Stddev	6.996	133.74	22.70	3.776	11.352
%RSD	.2430074	.2218594	.1997830	.1763028	.3032090
#1	2872.383	60429.70	11352.38	2144.508	3731.997
#2	2886.304	60170.27	11385.43	2143.826	3754.560
#3	2878.121	60243.60	11341.96	2137.652	3745.469

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2143-02 Acquired: 6/2/2025 14:41:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096949**	**-.004665**	**.0451912**	**.0028776**	**.0064269**	**.0447413**	**.3217006**
Stddev	.0030996	.001642	.0021025	.0088426	.0021347	.0100305	.0014337
%RSD	31.97134	35.20541	4.652392	307.2933	33.21470	22.41881	.4456521
#1	.0074353	-.005594	.0445634	-.007167	.0079424	.0384808	.3233339
#2	.0084209	-.002769	.0434741	.006312	.0039856	.0394326	.3206505
#3	.0132284	-.005632	.0475360	.009488	.0073528	.0563104	.3211172

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000195**	**.0010709**	**200.5734**	**.0000108**	**.0008444**	**-.000057**	**.0870504**
Stddev	.000008	.0000685	.2212	.0003494	.0001732	.000303	.0013056
%RSD	4.120674	6.395422	.1103052	3225.524	20.51059	534.1624	1.499800
#1	-.000204	.0010759	200.7346	.0003254	.0008636	.000001	.0875814
#2	-.000188	.0010001	200.3211	-.000365	.0006624	.000213	.0880068
#3	-.000192	.0011368	200.6643	.000072	.0010072	-.000384	.0855630

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2722304**	**7.750810**	**.0052400**	**-.000556**	**450.9268**	**-.000204**	**.4037486**
Stddev	.0018956	.015602	.0002068	.000193	3.8405	.002666	.0024022
%RSD	.6963113	.2012909	3.947130	34.79905	.8517005	1304.712	.5949780
#1	.2743596	7.758558	.0052509	-.000693	446.6078	.002865	.4064877
#2	.2707265	7.732851	.0054412	-.000640	453.9579	-.001544	.4020002
#3	.2716050	7.761020	.0050280	-.000335	452.2147	-.001935	.4027579

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.18026**	**.2586323**	**.0303944**	**-.004409**	**-.005881**	**4.551516**	**.1434510**
Stddev	.08642	.0013596	.0006464	.000156	.000666	.026688	.0039911
%RSD	.7094707	.5257052	2.126755	3.532283	11.32478	.5863570	2.782195
#1	12.16955	.2599579	.0305190	-.004565	-.005839	4.545471	.1478228
#2	12.27154	.2572410	.0296947	-.004254	-.005238	4.580708	.1425276
#3	12.09970	.2586979	.0309694	-.004408	-.006568	4.528369	.1400025

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2143-02 Acquired: 6/2/2025 14:41:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.889669	-.027239	1.082694
Stddev	.022210	.000499	.001876
%RSD	.7685931	1.832578	.1732493
#1	2.880917	-.027131	1.083431
#2	2.873167	-.027784	1.080562
#3	2.914921	-.026803	1.084089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2764.676	58756.02	12023.95	2051.961	3561.981
Stddev	6.302	69.74	49.93	5.377	9.228
%RSD	.2279297	.1186857	.4152637	.2620189	.2590568
#1	2770.358	58804.08	11997.80	2045.782	3564.126
#2	2765.772	58676.04	12081.53	2054.537	3569.948
#3	2757.899	58787.95	11992.53	2055.566	3551.871

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-04 Acquired: 6/2/2025 14:46:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002638**	**-.003472**	**.0013149**	**.0033394**	**.0018811**	**.5903064**	**.1918079**
Stddev	.000930	.001537	.0021724	.0030808	.0015536	.0062931	.0010443
%RSD	35.23634	44.27193	165.2196	92.25739	82.59015	1.066077	.5444391
#1	-.002780	-.005240	-.000755	-.000088	.0000935	.5833254	.1907943
#2	-.001646	-.002455	.003577	.004226	.0029054	.5920497	.1928804
#3	-.003488	-.002720	.001123	.005879	.0026445	.5955441	.1917490

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001837**	**-.000058**	**1.869818**	**.0005781**	**.0111499**	**.0047826**	**.0086183**
Stddev	.0000165	.000029	.014145	.0001997	.0002308	.0001186	.0037573
%RSD	8.960766	50.14955	.7564987	34.54032	2.070316	2.478924	43.59622
#1	.0001789	-.000048	1.856519	.0008012	.0109465	.0047079	.0122206
#2	.0001701	-.000091	1.884680	.0005172	.0111025	.0047207	.0089112
#3	.0002020	-.000035	1.868256	.0004160	.0114008	.0049193	.0047232

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1740461**	**2.055779**	**.0063768**	**-.000253**	**330.4178**	**-.000571**	**.0727928**
Stddev	.0006423	.003588	.0003925	.000103	6.1837	.001118	.0005246
%RSD	.3690108	.1745085	6.155318	40.63069	1.871472	195.6186	.7206936
#1	.1735341	2.055246	.0064695	-.000156	328.2670	-.001848	.0721874
#2	.1738375	2.059603	.0059462	-.000243	337.3897	-.000100	.0731147
#3	.1747667	2.052488	.0067147	-.000361	325.5967	.000233	.0730763

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8458502**	**.0297179**	**-.000000**	**-.001075**	**-.000103**	**.4502016**	**.0101829**
Stddev	.0151036	.0004508	.000186	.000672	.000612	.0049021	.0011689
%RSD	1.785614	1.517084	79135.41	62.51581	594.5150	1.088870	11.47946
#1	.8286252	.0292294	-.000211	-.001587	-.000685	.4479550	.0089654
#2	.8568276	.0298064	.000070	-.001324	-.000159	.4558243	.0112964
#3	.8520979	.0301180	.000141	-.000314	.000535	.4468253	.0102868

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-04 Acquired: 6/2/2025 14:46:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.836893	-.000835	.0233939
Stddev	.003423	.000310	.0002050
%RSD	.1863313	37.07458	.8764441
#1	1.838296	-.000858	.0231740
#2	1.832991	-.001133	.0234277
#3	1.839391	-.000515	.0235799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.566	61133.51	11445.54	2154.601	3786.334
Stddev	3.916	416.75	46.18	10.986	6.359
%RSD	.1327695	.6817066	.4034909	.5099016	.1679405
#1	2947.310	61425.50	11443.68	2160.065	3792.544
#2	2954.088	60656.25	11400.31	2141.954	3786.623
#3	2947.301	61318.79	11492.62	2161.784	3779.836

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01 Acquired: 6/2/2025 14:50:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1120274	-.047938	.2439586	-.094162	-.027379	275.5339	.8152951
Stddev	.0007445	.003751	.0029854	.014226	.003819	.9249	.0034696
%RSD	.6645978	7.824127	1.223746	15.10838	13.94989	.3356768	.4255619
#1	.1111701	-.043623	.2469647	-.087878	-.022971	274.6540	.8143276
#2	.1124001	-.050409	.2439167	-.110449	-.029463	275.4496	.8124119
#3	.1125120	-.049784	.2409943	-.084160	-.029703	276.4981	.8191457

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189066	.0263108	9.250418	.3052652	.9971353	.3243967	673.0543
Stddev	.0002224	.0005354	.054888	.0009001	.0011113	.0006903	6.3800
%RSD	1.176330	2.034755	.5933547	.2948580	.1114476	.2128009	.9479190
#1	.0188867	.0266451	9.192738	.3062885	.9961159	.3251922	669.1950
#2	.0186948	.0265940	9.256511	.3049115	.9969701	.3239547	669.5494
#3	.0191383	.0256933	9.302005	.3045958	.9983199	.3240432	680.4184

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.65332	22.65752	.3085955	-.003360	1.682082	.6571264	.5248344
Stddev	.12804	.09579	.0005707	.001397	.004035	.0009248	.0025924
%RSD	.6864132	.4227672	.1849285	41.57783	.2398997	.1407374	.4939461
#1	18.53149	22.56218	.3090668	-.004501	1.684997	.6562298	.5232129
#2	18.64169	22.65663	.3087587	-.003777	1.677476	.6570723	.5278243
#3	18.78677	22.75375	.3079610	-.001802	1.683772	.6580770	.5234661

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.98987	^ *****	.0019415	.0131445	3.244762	7.541807	8.703024
Stddev	.03360	-----	.0000877	.0007541	.010882	.011514	.023897
%RSD	.2401602	-----	4.518031	5.737266	.3353861	.1526665	.2745821
#1	13.96494	^ -----	.0019133	.0130217	3.235137	7.555047	8.727554
#2	13.97659	^ -----	.0020398	.0124593	3.242578	7.534142	8.679815
#3	14.02808	^ -----	.0018713	.0139525	3.256571	7.536231	8.701703

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01 Acquired: 6/2/2025 14:50:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.722720	.4535979	-.518421
Stddev	.002490	.0049827	.005453
%RSD	.1445345	1.098476	1.051885
#1	1.723630	.4497747	-.515385
#2	1.719903	.4517860	-.515161
#3	1.724626	.4592330	-.524716

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3844.112	77654.43	15327.04	2781.757	3906.195
Stddev	8.714	113.57	61.97	6.380	7.117
%RSD	.2266775	.1462461	.4043026	.2293600	.1822031
#1	3848.985	77636.39	15371.31	2774.423	3912.943
#2	3849.299	77775.94	15353.58	2786.027	3906.885
#3	3834.052	77550.96	15256.22	2784.821	3898.759

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01DUP Acquired: 6/2/2025 14:54:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1200227	-.037431	.2595239	-.084098	-.024239	277.6803	.7184801
Stddev	.0012127	.001357	.0006041	.009902	.001152	.7251	.0010319
%RSD	1.010410	3.625929	.2327861	11.77413	4.750777	.2611233	.1436176
#1	.1186906	-.037950	.2594901	-.083006	-.023240	278.0700	.7173602
#2	.1203148	-.038452	.2589374	-.074787	-.025499	276.8437	.7186877
#3	.1210627	-.035891	.2601442	-.094500	-.023979	278.1273	.7193924

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181759	.0222305	8.870423	.3059264	.8601423	.2874236	585.4447
Stddev	.0000806	.0009202	.028708	.0006904	.0035952	.0016581	4.7666
%RSD	.4432916	4.139328	.3236401	.2256894	.4179836	.5768988	.8141784
#1	.0181765	.0232912	8.839672	.3062510	.8604452	.2888755	582.2164
#2	.0180950	.0216454	8.875076	.3063947	.8635765	.2877787	583.1983
#3	.0182561	.0217550	8.896520	.3051335	.8564052	.2856167	590.9194

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.47883	20.21414	.2832947	-.004816	1.528660	.6470066	.4412936
Stddev	.04987	.14745	.0011219	.001372	.013257	.0015346	.0016718
%RSD	.3221685	.7294200	.3960130	28.48975	.8672312	.2371849	.3788363
#1	15.43871	20.24979	.2842605	-.005567	1.521884	.6454342	.4426675
#2	15.46312	20.05214	.2835596	-.005648	1.520160	.6485004	.4394323
#3	15.53466	20.34049	.2820641	-.003232	1.543935	.6470852	.4417811

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.91151	^ *****	.0029203	.0116373	2.710979	9.622607	7.878136
Stddev	.07372	-----	.0001785	.0007819	.008878	.059517	.026792
%RSD	.6189137	-----	6.112975	6.718731	.3274967	.6185070	.3400744
#1	11.82836	^ -----	.0030649	.0107554	2.705096	9.554558	7.893423
#2	11.93731	^ -----	.0027208	.0119110	2.706648	9.664950	7.893785
#3	11.96887	^ -----	.0029752	.0122456	2.721191	9.648312	7.847201

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01DUP Acquired: 6/2/2025 14:54:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.451422	.3802410	-.473602
Stddev	.006855	.0020620	.004370
%RSD	.4722868	.5422979	.9226496
#1	1.452586	.3782003	-.470696
#2	1.457620	.3801988	-.471484
#3	1.444059	.3823237	-.478628

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3994.865	79686.31	15111.82	2845.588	4028.236
Stddev	47.995	124.02	45.21	1.926	33.470
%RSD	1.201426	.1556374	.2991721	.0676792	.8308838
#1	3987.420	79829.09	15074.32	2847.777	4020.002
#2	4046.147	79605.33	15162.02	2844.828	4065.054
#3	3951.027	79624.52	15099.12	2844.157	3999.651

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01LX5 Acquired: 6/2/2025 14:59:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0290327	-.007656	.0509301	-.021555	-.008238	67.39087	.1948766
Stddev	.0021762	.002015	.0015331	.002250	.001266	.53846	.0018359
%RSD	7.495647	26.32296	3.010102	10.44003	15.37317	.7990059	.9420766
#1	.0315194	-.008253	.0504926	-.023444	-.009302	66.98602	.1951281
#2	.0281025	-.005409	.0496634	-.022155	-.006837	67.18463	.1929279
#3	.0274763	-.009305	.0526344	-.019065	-.008576	68.00196	.1965737

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049356	-.000924	2.035229	.0770441	.2040357	.0854477	167.5042
Stddev	.0000881	.000197	.027241	.0004212	.0009087	.0004615	.5900
%RSD	1.785174	21.35462	1.338496	.5467001	.4453386	.5400996	.3522546
#1	.0049985	-.001145	2.016998	.0766234	.2037461	.0854175	167.4167
#2	.0049734	-.000763	2.022145	.0774658	.2033072	.0859235	166.9628
#3	.0048349	-.000865	2.066544	.0770430	.2050539	.0850020	168.1332

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.623392	5.644330	.0650621	-.000476	.3442754	.1630538	.1329477
Stddev	.036309	.035714	.0004014	.000355	.0159327	.0006845	.0001218
%RSD	.7853331	.6327453	.6169031	74.58786	4.627897	.4198148	.0916210
#1	4.602152	5.650730	.0650719	-.000885	.3579335	.1624430	.1328237
#2	4.602708	5.605849	.0646559	-.000247	.3481207	.1629248	.1329520
#3	4.665317	5.676412	.0654585	-.000295	.3267719	.1637937	.1330672

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.111109	-.071659	-.000015	.0006776	.8098714	2.072357	1.786478
Stddev	.049914	.003570	.000019	.0007166	.0098996	.006723	.007157
%RSD	1.604385	4.981318	130.4295	105.7490	1.222373	.3243896	.4006011
#1	3.105641	-.067538	-.000001	-.000125	.8044032	2.072543	1.782533
#2	3.064153	-.073648	-.000036	.000906	.8039120	2.078985	1.782163
#3	3.163532	-.073791	-.000006	.001252	.8212990	2.065544	1.794739

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01LX5 Acquired: 6/2/2025 14:59:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3344939	.1141223	-.129259
Stddev	.0013836	.0009404	.000350
%RSD	.4136415	.8240338	.2709073
#1	.3360510	.1131102	-.129470
#2	.3334057	.1142875	-.128855
#3	.3340248	.1149691	-.129452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3279.409	65779.73	12516.39	2368.052	4152.541
Stddev	5.720	106.93	67.98	14.129	9.305
%RSD	.1744095	.1625549	.5431220	.5966714	.2240803
#1	3285.060	65900.30	12589.62	2370.407	4156.149
#2	3279.544	65696.41	12504.25	2352.893	4159.503
#3	3273.623	65742.47	12455.30	2380.856	4141.973

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01MS Acquired: 6/2/2025 15:03:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7276554	1.712430	1.176903	1.253764	.2319720	304.9854	.9006706
Stddev	.0038264	.008888	.006276	.002632	.0026066	1.3272	.0051560
%RSD	.5258462	.5190161	.5332423	.2099473	1.123690	.4351662	.5724621
#1	.7273598	1.710848	1.183780	1.250978	.2315337	304.7129	.8970790
#2	.7316210	1.722002	1.171486	1.256209	.2296123	303.8156	.9065785
#3	.7239854	1.704439	1.175444	1.254106	.2347700	306.4277	.8983542

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1754368	.2208305	9.627364	.6723838	1.201997	.5506375	601.0577
Stddev	.0003998	.0009345	.040725	.0019662	.003061	.0023497	5.0941
%RSD	.2278785	.4231645	.4230109	.2924225	.2546775	.4267323	.8475267
#1	.1756507	.2218262	9.631478	.6733141	1.205490	.5528014	596.5343
#2	.1756842	.2199725	9.665876	.6737122	1.199785	.5481380	606.5758
#3	.1749756	.2206928	9.584739	.6701251	1.200714	.5509730	600.0629

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.79367	24.84746	.8033572	.0522299	3.969114	.9163517	.6431518
Stddev	.09066	.11654	.0034653	.0017884	.031593	.0059344	.0024658
%RSD	.4823931	.4690112	.4313467	3.424030	.7959757	.6476079	.3833932
#1	18.75228	24.82299	.8073577	.0503350	3.977212	.9143961	.6426641
#2	18.89763	24.97428	.8012853	.0538882	3.995870	.9230171	.6409664
#3	18.73109	24.74509	.8014287	.0524666	3.934260	.9116420	.6458251

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.52821	^ *****	.2954808	.6783186	3.406651	6.886923	14.77314
Stddev	.13511	-----	.0004696	.0018018	.019883	.044364	.03490
%RSD	.6581640	-----	.1589265	.2656273	.5836624	.6441830	.2362188
#1	20.49639	^ -----	.2959736	.6803885	3.401701	6.862442	14.81280
#2	20.67639	^ -----	.2950385	.6774651	3.428542	6.938135	14.75951
#3	20.41185	^ -----	.2954303	.6771021	3.389710	6.860194	14.74711

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01MS Acquired: 6/2/2025 15:03:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.698234	.5998672	-.333498
Stddev	.004342	.0053381	.003778
%RSD	.2556600	.8898878	1.132797
#1	1.703240	.5980580	-.329714
#2	1.695490	.6058748	-.337269
#3	1.695973	.5956688	-.333512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3622.007	75657.84	14317.46	2724.822	3713.839
Stddev	2.588	208.75	65.02	7.755	4.368
%RSD	.0714573	.2759156	.4541433	.2846234	.1176168
#1	3621.877	75805.23	14343.97	2731.026	3708.796
#2	3624.657	75418.96	14243.38	2716.127	3716.403
#3	3619.486	75749.32	14365.05	2727.312	3716.319

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01MSD Acquired: 6/2/2025 15:07:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7299118**	**1.731397**	**1.160607**	**1.286672**	**.2260811**	**286.7796**	**.9224748**
Stddev	.0009223	.010519	.008059	.019065	.0048589	2.6566	.0039487
%RSD	.1263640	.6075659	.6943499	1.481709	2.149203	.9263634	.4280504
#1	.7308868	1.719805	1.151600	1.293315	.2267637	289.1362	.9229814
#2	.7290531	1.740336	1.167136	1.301525	.2209169	287.3022	.9261458
#3	.7297956	1.734049	1.163085	1.265174	.2305626	283.9006	.9182973

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1758580**	**.2127343**	**9.122545**	**.6407104**	**1.151005**	**.5637729**	**595.7609**
Stddev	.0006320	.0016496	.055809	.0021022	.003603	.0013574	3.7408
%RSD	.3593787	.7754346	.6117714	.3281050	.3129895	.2407691	.6279098
#1	.1765875	.2108468	9.072356	.6417032	1.147628	.5622948	600.0783
#2	.1755084	.2138998	9.182646	.6382956	1.154797	.5640602	593.7217
#3	.1754780	.2134564	9.112633	.6421323	1.150589	.5649636	593.4828

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.64750**	**24.32346**	**.7841599**	**.0553645**	**3.882369**	**.8824356**	**.6673707**
Stddev	.02973	.08366	.0040154	.0007996	.012196	.0016722	.0063252
%RSD	.1684399	.3439489	.5120604	1.444164	.3141362	.1895026	.9477741
#1	17.67759	24.40296	.7797165	.0562766	3.896375	.8830183	.6744471
#2	17.64675	24.23619	.7875286	.0547850	3.876643	.8805499	.6653982
#3	17.61815	24.33124	.7852345	.0550317	3.874090	.8837385	.6622669

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.90960**	**^ *******	**.2959899**	**.6788954**	**3.081885**	**8.664847**	**13.98432**
Stddev	.10205	-----	.0010146	.0066921	.005457	.014540	.08633
%RSD	.5125803	-----	.3427830	.9857340	.1770539	.1678085	.6173611
#1	20.02547	^ -----	.2969493	.6711723	3.088084	8.677242	13.88741
#2	19.83308	^ -----	.2949279	.6829778	3.079761	8.648842	14.05303
#3	19.87025	^ -----	.2960925	.6825363	3.077810	8.668456	14.01252

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01MSD Acquired: 6/2/2025 15:07:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.620128	.6126198	-.326600
Stddev	.012669	.0020362	.003356
%RSD	.7819491	.3323812	1.027458
#1	1.606301	.6142769	-.330366
#2	1.622907	.6132358	-.323926
#3	1.631177	.6103466	-.325510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3682.047	73926.01	14312.35	2638.772	3887.966
Stddev	45.177	466.64	76.59	28.417	30.257
%RSD	1.226955	.6312231	.5351097	1.076906	.7782296
#1	3634.733	73388.13	14238.11	2608.317	3855.984
#2	3724.730	74167.25	14307.85	2643.420	3916.138
#3	3686.679	74222.64	14391.09	2664.579	3891.776

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV02 Acquired: 6/2/2025 15:11:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.997558**	**4.691169**	**4.912989**	**4.969821**	**5.042748**	**10.16271**	**9.764231**
Stddev	.009605	.063789	.000509	.023204	.015509	.03021	.121222
%RSD	.1921934	1.359774	.0103553	.4669066	.3075584	.2972293	1.241495
#1	4.987877	4.639646	4.913545	4.951317	5.028679	10.19663	9.808595
#2	4.997712	4.762517	4.912546	4.962290	5.040188	10.15279	9.627076
#3	5.007085	4.671344	4.912875	4.995855	5.059379	10.13871	9.857021

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2625898**	**2.454803**	**24.93515**	**1.010875**	**2.463992**	**1.263727**	**4.791552**
Stddev	.0020167	.002628	.10533	.002931	.004750	.003820	.034955
%RSD	.7680084	.1070464	.4224275	.2899947	.1927947	.3022673	.7295231
#1	.2643289	2.456402	24.91519	1.008551	2.462646	1.262646	4.751270
#2	.2603791	2.451770	24.84123	1.014168	2.460059	1.260564	4.809476
#3	.2630614	2.456237	25.04904	1.009905	2.469270	1.267970	4.813909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.472539**	**25.25469**	**2.471484**	**1.250941**	**23.57438**	**2.487649**	**2.639178**
Stddev	.007785	.20333	.002990	.003034	.18038	.003603	.009355
%RSD	.3148658	.8051238	.1209866	.2425149	.7651680	.1448469	.3544533
#1	2.478604	25.18195	2.471689	1.247819	23.57436	2.490230	2.628570
#2	2.463760	25.09774	2.468396	1.253878	23.75478	2.483532	2.646244
#3	2.475252	25.48439	2.474366	1.251126	23.39401	2.489185	2.642722

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.04064**	**5.218863**	**5.078389**	**4.901980**	**4.951000**	**4.794368**	**5.029177**
Stddev	.11556	.033756	.007174	.003856	.014436	.023649	.003859
%RSD	.4806882	.6468001	.1412596	.0786520	.2915686	.4932699	.0767240
#1	23.98569	5.243696	5.070185	4.902264	4.967568	4.767240	5.030290
#2	24.17342	5.180429	5.081496	4.905686	4.944297	4.805221	5.032357
#3	23.96280	5.232464	5.083485	4.897991	4.941134	4.810643	5.024885

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV02 Acquired: 6/2/2025 15:11:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.830325	5.088661	4.926840
Stddev	.013921	.031902	.052884
%RSD	.2882094	.6269145	1.073381
#1	4.815684	5.120617	4.915298
#2	4.843393	5.088551	4.880681
#3	4.831899	5.056815	4.984542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3053.023	63021.66	11006.94	2237.451	4041.450
Stddev	11.533	203.55	67.89	7.598	12.208
%RSD	.3777612	.3229880	.6168177	.3395977	.3020643
#1	3065.816	63250.62	10960.61	2245.196	4054.360
#2	3049.832	62861.20	11084.87	2230.008	4039.895
#3	3043.421	62953.15	10975.34	2237.149	4030.093

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB02 Acquired: 6/2/2025 15:16:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0015121**	**.0016408**	**.0013324**	**.0015056**	**-.000067**	**.0034142**	**-.000592**
Stddev	.0008771	.0005597	.0006484	.0043672	.001742	.0012080	.000747
%RSD	58.00573	34.10988	48.66479	290.0663	2593.449	35.38052	126.0595
#1	.0014787	.0016869	.0009965	.0065149	-.001373	.0020300	-.000391
#2	.0024054	.0021760	.0009208	-.001501	-.000739	.0042549	.000033
#3	.0006522	.0010595	.0020798	-.000497	.001911	.0039577	-.001419

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000097**	**.0000421**	**-.009914**	**.0005121**	**.0001154**	**.0000509**	**.0073150**
Stddev	.0000339	.0000687	.004373	.0002804	.0001058	.0003116	.0009094
%RSD	350.8050	162.9014	44.10515	54.74289	91.65792	611.5331	12.43161
#1	-.000008	-.000034	-.013978	.0005374	.0001288	-.000146	.0063368
#2	.000049	.000063	-.010476	.0002200	.0002139	.000410	.0081346
#3	-.000012	.000098	-.005288	.0007790	.0000036	-.000111	.0074735

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007662**	**-.001727**	**.0003486**	**.0001036**	**-.081831**	**-.000268**	**.0025386**
Stddev	.0002765	.007318	.0002118	.0003983	.005926	.001048	.0002471
%RSD	36.08813	423.6970	60.76095	384.4852	7.241287	390.1976	9.735052
#1	.0010037	.000050	.0001066	-.000227	-.075617	-.000699	.0025146
#2	.0008322	.004539	.0004392	-.000008	-.087418	.000926	.0023044
#3	.0004626	-.009771	.0005002	.000546	-.082458	-.001032	.0027969

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.050141**	**.0062802**	**.0007538**	**.0026076**	**.0001043**	**-.001098**	**-.003067**
Stddev	.016000	.0008149	.0002345	.0002589	.0013174	.004765	.002517
%RSD	31.90986	12.97635	31.10441	9.930892	1262.834	433.9201	82.05710
#1	-.031740	.0069208	.0006769	.0028333	-.000935	.003121	-.004715
#2	-.060773	.0065569	.0005674	.0023249	.001586	-.000150	-.004317
#3	-.057911	.0053630	.0010171	.0026645	-.000338	-.006265	-.000170

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB02 Acquired: 6/2/2025 15:16:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001179**	**.0014049**	**.0001279**
Stddev	.001635	.0004945	.0000458
%RSD	138.6614	35.20022	35.78445
#1	-.001842	.0008655	.0001803
#2	.000683	.0018368	.0001082
#3	-.002378	.0015123	.0000953

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3064.247**	**66927.30**	**11604.93**	**2351.652**	**4139.743**
Stddev	19.707	143.74	41.75	3.937	12.420
%RSD	.6431214	.2147717	.3597822	.1673957	.3000182
#1	3085.729	66931.69	11623.03	2352.595	4152.776
#2	3060.006	66781.41	11557.19	2347.330	4138.410
#3	3047.006	67068.79	11634.59	2355.032	4128.043

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01A Acquired: 6/2/2025 15:20:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7377114	1.641599	1.176551	1.390781	.6320506	280.6401	.9014195
Stddev	.0278401	.110857	.043068	.073470	.0307670	1.0828	.0093826
%RSD	3.773850	6.752990	3.660496	5.282660	4.867805	.3858197	1.040874
#1	.7074081	1.527984	1.129738	1.307727	.6015559	281.7950	.8906016
#2	.7435703	1.647339	1.185424	1.417327	.6315132	279.6479	.9073413
#3	.7621558	1.749475	1.214491	1.447288	.6630828	280.4774	.9063157

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1518931	.2237823	9.819743	.5710171	1.196903	.5813512	639.2557
Stddev	.0065969	.0095972	.041349	.0135699	.009856	.0126049	4.4655
%RSD	4.343095	4.288647	.4210762	2.376444	.8234345	2.168210	.6985465
#1	.1450664	.2135148	9.775161	.5579072	1.187024	.5685049	644.3885
#2	.1523797	.2253047	9.827234	.5701399	1.196951	.5818487	636.2631
#3	.1582332	.2325273	9.856834	.5850044	1.206735	.5937000	637.1155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.79031	24.01335	.8048342	.0361442	3.060212	.8092272	.6483991
Stddev	.07543	.04846	.0229536	.0017888	.162324	.0166664	.0058102
%RSD	.4014510	.2017938	2.851961	4.949120	5.304345	2.059538	.8960790
#1	18.84200	23.96282	.7809836	.0348228	2.894331	.7918288	.6432153
#2	18.82519	24.01781	.8067481	.0354302	3.067576	.8108034	.6473026
#3	18.70375	24.05943	.8267708	.0381798	3.218728	.8250495	.6546794

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.74617	^ *****	.3382269	.7260912	3.369953	8.440240	15.10113
Stddev	.51785	-----	.0139413	.0335964	.007024	.058839	.31630
%RSD	2.762423	-----	4.121889	4.627027	.2084216	.6971210	2.094556
#1	18.24081	^ -----	.3234008	.6908755	3.363582	8.387115	14.77285
#2	18.72203	^ -----	.3402086	.7296061	3.377484	8.430126	15.12665
#3	19.27567	^ -----	.3510714	.7577920	3.368792	8.503481	15.40390

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2146-01A Acquired: 6/2/2025 15:20:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.838351	.5553274	-.387413
Stddev	.024529	.0094889	.014058
%RSD	1.334299	1.708705	3.628623
#1	1.818909	.5456356	-.402903
#2	1.830235	.5557470	-.383870
#3	1.865910	.5645995	-.375465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3653.253	76482.46	14330.06	2751.802	3726.259
Stddev	5.903	402.47	52.41	15.447	4.568
%RSD	.1615689	.5262260	.3657449	.5613238	.1225867
#1	3648.681	76128.90	14270.38	2735.092	3724.881
#2	3659.917	76920.45	14368.58	2754.757	3731.358
#3	3651.162	76398.03	14351.23	2765.558	3722.539

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2102-05 Acquired: 6/2/2025 15:24:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005127**	**-.002884**	**.0006601**	**.0036186**	**.0046154**	**.0451478**	**.3267654**
Stddev	.000584	.002682	.0021663	.0023361	.0011124	.0029094	.0008042
%RSD	11.38170	92.97830	328.1820	64.55641	24.10170	6.444115	.2461065
#1	-.004465	-.003731	.0025821	.0060686	.0034715	.0421312	.3258534
#2	-.005564	-.005040	-.001687	.0014162	.0056933	.0453756	.3270698
#3	-.005353	.000119	.001085	.0033710	.0046813	.0479365	.3273730

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000392**	**.0008722**	**234.8388**	**.0032027**	**.0048664**	**.0488050**	**.0891712**
Stddev	.000039	.0000228	.4354	.0005979	.0002961	.0001729	.0007802
%RSD	9.912557	2.616841	.1854233	18.66841	6.083692	.3542004	.8749412
#1	-.000407	.0008985	235.1912	.0038284	.0048391	.0488543	.0886061
#2	-.000347	.0008596	234.3520	.0031426	.0051752	.0489479	.0888461
#3	-.000420	.0008584	234.9732	.0026371	.0045850	.0486129	.0900613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.629053**	**8.785287**	**.0504875**	**-.000453**	**488.1730**	**-.000142**	**3.382264**
Stddev	.007912	.034051	.0004900	.000305	2.6408	.000840	.018371
%RSD	.2180151	.3875955	.9705683	67.40419	.5409487	591.6827	.5431706
#1	3.631030	8.754472	.0499519	-.000109	491.0177	.000511	3.363066
#2	3.620340	8.779545	.0505973	-.000558	485.7996	.000153	3.384048
#3	3.635788	8.821845	.0509134	-.000692	487.7017	-.001090	3.399679

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.098811**	**.0590962**	**-.000014**	**-.004675**	**-.007015**	**2.381470**	**.0048912**
Stddev	.039110	.0008800	.000174	.000453	.000865	.012249	.0015664
%RSD	.9541721	1.489190	1289.199	9.692857	12.33098	.5143299	32.02488
#1	4.103294	.0595127	-.000215	-.004153	-.007742	2.392136	.0042146
#2	4.057654	.0580852	.000092	-.004962	-.006059	2.368093	.0037769
#3	4.135487	.0596907	.000082	-.004911	-.007245	2.384182	.0066822

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2102-05 Acquired: 6/2/2025 15:24:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.040670**	**-.038200**	**2.881821**
Stddev	.010851	.000286	.024109
%RSD	.3568684	.7478615	.8365982
#1	3.029194	-.037905	2.882026
#2	3.050764	-.038219	2.905827
#3	3.042051	-.038475	2.857610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2720.188**	**58059.67**	**11731.36**	**2023.173**	**3489.226**
Stddev	11.637	345.94	19.13	11.506	12.791
%RSD	.4278178	.5958407	.1630554	.5687151	.3665724
#1	2726.473	57879.42	11720.27	2027.088	3498.598
#2	2727.333	58458.52	11753.45	2032.210	3494.426
#3	2706.760	57841.08	11720.37	2010.220	3474.655

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2144-01 Acquired: 6/2/2025 15:28:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003409**	**-.000868**	**-.000079**	**.0038803**	**.0020487**	**.0138608**
Stddev	.001540	.000894	.001159	.0017776	.0014160	.0049286
%RSD	45.16672	103.0087	1459.896	45.81060	69.11774	35.55793
#1	-.004425	-.000295	-.001418	.0018285	.0006862	.0151977
#2	-.001638	-.000410	.000616	.0049559	.0035128	.0084017
#3	-.004166	-.001898	.000563	.0048565	.0019471	.0179831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0213690**	**-.000108**	**.0001996**	**1.505758**	**.0005470**	**.0002441**
Stddev	.0004561	.000036	.0000914	.007951	.0000698	.0002005
%RSD	2.134265	33.07118	45.77280	.5280238	12.75174	82.12571
#1	.0218832	-.000145	.0001238	1.506179	.0005312	.0003517
#2	.0210134	-.000074	.0001739	1.513489	.0006233	.0000128
#3	.0212104	-.000105	.0003011	1.497605	.0004865	.0003679

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098075**	**1.815438**	**.0635963**	**.1685718**	**.0043870**	**.0000522**
Stddev	.0007021	.013464	.0009036	.0257773	.0007009	.0001164
%RSD	7.158519	.7416494	1.420818	15.29158	15.97590	223.0401
#1	.0103939	1.800238	.0643562	.1393915	.0051178	.0000896
#2	.0099991	1.825868	.0638355	.1780778	.0043228	.0001452
#3	.0090295	1.820207	.0625972	.1882462	.0037205	-.000078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**305.2745**	**-.001456**	**.3603016**	**.7203465**	**.0755896**	**.0005259**
Stddev	3.3935	.002039	.0028520	.0108065	.0007215	.0001760
%RSD	1.111638	140.0346	.7915589	1.500178	.9544569	33.46439
#1	306.6071	.000401	.3594881	.7308608	.0764227	.0003283
#2	301.4169	-.001132	.3634720	.7209089	.0751740	.0006658
#3	307.7994	-.003637	.3579447	.7092698	.0751722	.0005835

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2144-01 Acquired: 6/2/2025 15:28:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001506	-.000410	.0581179	12.28112	F 105.2296	.0047601
Stddev	.000428	.000637	.0060811	.03713	.3097	.0003963
%RSD	28.39157	155.1436	10.46347	.3023197	.2943036	8.324387
#1	-.001539	-.001061	.0541493	12.30179	105.2688	.0043235
#2	-.001917	.000211	.0651189	12.23826	104.9021	.0048597
#3	-.001063	-.000381	.0550854	12.30332	105.5178	.0050970

Elem	Sr4077
Units	ppm
Avg	.0080988
Stddev	.0000414
%RSD	.5114028
#1	.0081284
#2	.0081165
#3	.0080515

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2933.279	61819.78	11243.19	2180.832	3851.193
Stddev	9.343	134.43	43.99	4.220	7.922
%RSD	.3185151	.2174597	.3912937	.1934959	.2057135
#1	2944.055	61863.75	11202.49	2176.100	3858.983
#2	2928.341	61926.73	11237.21	2184.204	3851.452
#3	2927.441	61668.87	11289.87	2182.191	3843.145

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2144-02 Acquired: 6/2/2025 15:33:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0494028**	**-.003312**	**-.000419**	**.0052901**	**.0015184**	**.0177624**
Stddev	.0024882	.000890	.000189	.0019851	.0009204	.0096346
%RSD	5.036550	26.88321	44.95608	37.52525	60.61333	54.24174
#1	.0516432	-.003886	-.000370	.0065106	.0025602	.0066945
#2	.0467248	-.003764	-.000628	.0029995	.0008159	.0223206
#3	.0498402	-.002286	-.000260	.0063602	.0011791	.0242721

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0502868**	**-.000087**	**.0004404**	**16.14564**	**.0005158**	**.0013432**
Stddev	.0003247	.000005	.0000561	.00481	.0001724	.0003401
%RSD	.6457186	5.853924	12.74426	.0297831	33.42602	25.32089
#1	.0502138	-.000093	.0004661	16.14737	.0004801	.0009775
#2	.0506418	-.000085	.0004790	16.14935	.0007033	.0014023
#3	.0500048	-.000084	.0003760	16.14021	.0003641	.0016500

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016031**	**.0843664**	**.0797873**	**2.542937**	**.0054706**	**-.000190**
Stddev	.0002480	.0024762	.0006152	.023737	.0002629	.000087
%RSD	15.47335	2.935075	.7710822	.9334647	4.805723	45.47449
#1	.0014383	.0870479	.0792976	2.522262	.0056298	-.000289
#2	.0018883	.0821661	.0795865	2.568859	.0056149	-.000156
#3	.0014825	.0838854	.0804779	2.537691	.0051672	-.000126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**346.7427**	**.0004895**	**.5122878**	**9.347273**	**.1842280**	**.0083806**
Stddev	3.3136	.0015515	.0024159	.082453	.0015468	.0001094
%RSD	.9556257	316.9929	.4715913	.8821075	.8396059	1.305787
#1	350.4368	.0000922	.5097619	9.414566	.1834779	.0085067
#2	344.0324	.0022009	.5145761	9.371955	.1860068	.0083098
#3	345.7591	-.000825	.5125256	9.255298	.1831993	.0083254

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2144-02 Acquired: 6/2/2025 15:33:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002453	-.000730	2.063821	3.884231	F 33.64914	.0021226
Stddev	.000285	.000549	.008703	.002519	.06085	.0010140
%RSD	11.61120	75.27964	.4216942	.0648628	.1808264	47.77230
#1	-.002218	-.001200	2.073658	3.881400	33.66050	.0023368
#2	-.002770	-.000126	2.060682	3.885064	33.58342	.0030125
#3	-.002370	-.000863	2.057123	3.886228	33.70351	.0010186

Elem	Sr4077
Units	ppm
Avg	.1791648
Stddev	.0002816
%RSD	.1571599
#1	.1790962
#2	.1794744
#3	.1789239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.360	59907.17	11402.27	2132.965	3838.405
Stddev	9.173	152.53	47.50	1.260	6.410
%RSD	.3144123	.2546106	.4165882	.0590955	.1669925
#1	2920.554	59849.35	11383.80	2133.710	3843.459
#2	2924.508	59792.00	11366.78	2131.510	3840.560
#3	2907.017	60080.16	11456.23	2133.675	3831.195

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2149-01 Acquired: 6/2/2025 15:37:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002502**	**-.003367**	**.0035267**	**.0022620**	**.0055519**	**.1970650**	**.3303203**
Stddev	.002257	.000854	.0010254	.0022590	.0009907	.0020749	.0031300
%RSD	90.21642	25.37339	29.07425	99.86688	17.84424	1.052883	.9475627
#1	-.001068	-.003181	.0026541	.0042616	.0066054	.1950406	.3336271
#2	-.001334	-.002621	.0046561	-.000188	.0054111	.1969677	.3274038
#3	-.005104	-.004299	.0032700	.002713	.0046391	.1991869	.3299298

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000081**	**.0002833**	**8.622141**	**.0008307**	**.0015724**	**.0089715**	**.4024194**
Stddev	.000017	.0000745	.067624	.0001089	.0001955	.0001005	.0030991
%RSD	20.50279	26.28842	.7843081	13.11458	12.43394	1.120362	.7701116
#1	-.000082	.0002669	8.664875	.0007219	.0016257	.0089245	.3993103
#2	-.000064	.0003647	8.544176	.0008302	.0013558	.0089030	.4055084
#3	-.000097	.0002185	8.657372	.0009398	.0017358	.0090869	.4024394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0876001**	**.7700309**	**.0143132**	**-.000081**	**275.9609**	**-.000545**	**.9560972**
Stddev	.0006859	.0364782	.0002092	.000161	7.6879	.001807	.0258613
%RSD	.7829574	4.737241	1.461797	198.5606	2.785850	331.4670	2.704880
#1	.0879307	.8096824	.0143902	-.000174	281.2525	-.002325	.9633486
#2	.0880581	.7378975	.0144730	-.000174	279.4877	-.000600	.9775586
#3	.0868116	.7625127	.0140764	.000105	267.1424	.001289	.9273842

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4355045**	**.0775120**	**.0019648**	**-.000773**	**.0005985**	**.5732552**	**1.090895**
Stddev	.0436969	.0014923	.0001139	.000699	.0007236	.0123368	.002248
%RSD	10.03362	1.925246	5.796171	90.34636	120.9155	2.152051	.2060496
#1	.4242548	.0788002	.0020962	-.001375	.0012377	.5688414	1.088495
#2	.4837263	.0758768	.0018971	-.000007	-.000187	.5871918	1.091241
#3	.3985324	.0778591	.0019010	-.000937	.000745	.5637326	1.092950

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2149-01 Acquired: 6/2/2025 15:37:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8921983	-.001922	.0502013
Stddev	.0052412	.000411	.0003421
%RSD	.5874428	21.37328	.6814862
#1	.8867625	-.001475	.0505956
#2	.8926122	-.002007	.0499830
#3	.8972202	-.002284	.0500253

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3005.780	63762.44	11510.91	2239.618	3940.292
Stddev	17.755	1331.58	110.01	51.184	12.006
%RSD	.5906860	2.088351	.9557132	2.285374	.3046974
#1	2996.538	63098.20	11412.67	2219.022	3938.449
#2	2994.552	62893.65	11629.78	2201.940	3929.314
#3	3026.249	65295.48	11490.28	2297.891	3953.113

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2153-01 Acquired: 6/2/2025 15:42:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910419	-.015932	.3296090	-.058391	-.005026	101.1925	.3472615
Stddev	.0024443	.003197	.0041773	.003453	.001817	.4115	.0022503
%RSD	2.684775	20.06338	1.267356	5.912744	36.15060	.4066072	.6480134
#1	.0882752	-.018140	.3318695	-.055024	-.004871	100.9768	.3463308
#2	.0929083	-.012267	.3247886	-.058228	-.006915	101.6669	.3498278
#3	.0919422	-.017389	.3321690	-.061923	-.003292	100.9337	.3456258

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088123	.0043753	126.0753	.1345656	.1053389	.5313492	193.1982
Stddev	.0000388	.0001025	.6175	.0001039	.0006545	.0015446	.7851
%RSD	.4399482	2.342473	.4897955	.0771981	.6213420	.2906953	.4063951
#1	.0088544	.0044317	125.8252	.1346135	.1057614	.5331300	192.7765
#2	.0087780	.0042570	126.7787	.1344464	.1045849	.5303723	194.1041
#3	.0088045	.0044372	125.6221	.1346370	.1056702	.5305454	192.7141

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.591686	40.57059	.1130840	-.001600	7.762180	.3013788	.5598825
Stddev	.013766	.17764	.0008689	.000236	.051393	.0022989	.0042495
%RSD	.5311632	.4378649	.7684055	14.73372	.6621007	.7628084	.7590023
#1	2.585147	40.45638	.1138733	-.001801	7.721944	.3006808	.5550072
#2	2.607503	40.77525	.1121529	-.001341	7.820075	.3039459	.5618388
#3	2.582408	40.48013	.1132258	-.001659	7.744523	.2995098	.5628016

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.01072	.1708152	.0044044	.0069716	2.153988	7.572297	6.406960
Stddev	.03393	.0034001	.0003938	.0005641	.011686	.019932	.022988
%RSD	.3389807	1.990499	8.940098	8.090730	.5425412	.2632189	.3587924
#1	9.98969	.1701281	.0046047	.0072175	2.146459	7.556586	6.432220
#2	10.04987	.1745063	.0046576	.0063264	2.167451	7.594718	6.401395
#3	9.99261	.1678111	.0039507	.0073711	2.148055	7.565587	6.387266

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2153-01 Acquired: 6/2/2025 15:42:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.933820	.1407500	.5126829
Stddev	.005415	.0008343	.0037572
%RSD	.1845768	.5927159	.7328469
#1	2.939204	.1399500	.5097492
#2	2.933880	.1416147	.5169177
#3	2.928375	.1406852	.5113819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3237.506	68246.21	12974.83	2416.208	3754.849
Stddev	4.259	195.74	50.45	4.537	7.516
%RSD	.1315458	.2868201	.3888028	.1877669	.2001607
#1	3236.764	68364.24	13000.23	2419.491	3750.850
#2	3242.088	68020.26	12916.73	2411.031	3763.519
#3	3233.668	68354.13	13007.52	2418.102	3750.179

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01 Acquired: 6/2/2025 15:46:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0367827	-.033385	.1503126	-.073180	-.002369	108.6145	.4811801
Stddev	.0025096	.002526	.0032938	.000423	.001005	.0469	.0021649
%RSD	6.822788	7.567293	2.191318	.5778823	42.42398	.0431548	.4499094
#1	.0344050	-.030469	.1471658	-.073081	-.002075	108.5609	.4788632
#2	.0394061	-.034906	.1500359	-.072815	-.001544	108.6476	.4815258
#3	.0365370	-.034781	.1537360	-.073643	-.003489	108.6350	.4831513

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093654	.0127809	90.88953	.2299755	.1795342	.7041589	268.5527
Stddev	.0000481	.0005553	.14832	.0017733	.0018968	.0058184	2.0765
%RSD	.5141393	4.344946	.1631884	.7710984	1.056524	.8262867	.7732346
#1	.0094071	.0129741	90.98649	.2282676	.1798950	.7025007	266.1884
#2	.0093127	.0121548	90.71878	.2298512	.1774829	.6993497	270.0806
#3	.0093763	.0132138	90.96331	.2318077	.1812247	.7106264	269.3890

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.229716	66.20697	.2854086	.0010982	6.876380	.5129495	.5084076
Stddev	.007207	.18691	.0027349	.0006013	.089586	.0018096	.0057871
%RSD	.2231445	.2823088	.9582484	54.75056	1.302806	.3527778	1.138286
#1	3.222667	66.36020	.2850019	.0004859	6.776660	.5141178	.5021444
#2	3.229408	65.99873	.2828999	.0016878	6.950063	.5108651	.5135566
#3	3.237071	66.26199	.2883242	.0011209	6.902417	.5138656	.5095219

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.78451	.1016106	.0083216	.0054895	7.546857	8.665497	16.99937
Stddev	.27078	.0060044	.0002596	.0017320	.018569	.040024	.16407
%RSD	.9745726	5.909190	3.119782	31.55021	.2460555	.4618826	.9651510
#1	27.47553	.0952442	.0083205	.0070596	7.526094	8.619534	16.95900
#2	27.98050	.1071717	.0080625	.0036317	7.552599	8.692666	16.85924
#3	27.89749	.1024158	.0085817	.0057773	7.561877	8.684289	17.17985

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01 Acquired: 6/2/2025 15:46:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.993966	.2168621	-.026005
Stddev	.125529	.0019183	.001280
%RSD	1.256050	.8845914	4.923144
#1	9.952925	.2146604	-.024562
#2	9.894095	.2181734	-.027006
#3	10.13488	.2177525	-.026447

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3876.827	78633.25	15857.52	2796.907	3838.121
Stddev	25.017	327.18	73.69	20.247	34.924
%RSD	.6452859	.4160837	.4646853	.7239177	.9099249
#1	3886.694	78967.39	15806.77	2820.126	3847.065
#2	3895.406	78618.87	15942.04	2782.935	3867.703
#3	3848.382	78313.50	15823.75	2787.659	3799.594

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01DUP Acquired: 6/2/2025 15:50:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0343491	-.031316	.1529290	-.072796	-.002719	110.4734	.5967810
Stddev	.0003684	.005545	.0019308	.003041	.002650	.2721	.0021300
%RSD	1.072426	17.70812	1.262569	4.177875	97.45241	.2463219	.3569074
#1	.0347741	-.032027	.1521981	-.076187	-.000152	110.6158	.5965637
#2	.0341512	-.036471	.1514703	-.071890	-.005444	110.6448	.5990113
#3	.0341220	-.025449	.1551186	-.070310	-.002561	110.1596	.5947680

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059945	.0088787	59.09500	.3153845	.1563057	.7935064	255.9615
Stddev	.0000821	.0004712	.12838	.0019764	.0006229	.0020525	1.5550
%RSD	1.369967	5.307105	.2172459	.6266716	.3984945	.2586634	.6075153
#1	.0060133	.0089318	59.20707	.3154487	.1567879	.7927908	256.3739
#2	.0059046	.0083832	59.12299	.3173280	.1565268	.7919074	257.2688
#3	.0060656	.0093211	58.95493	.3133767	.1556025	.7958209	254.2419

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.294612	69.55544	.3005451	-.001074	5.897251	.4672602	.5078774
Stddev	.005669	.27764	.0006907	.000376	.070818	.0008964	.0047285
%RSD	.1720583	.3991698	.2298159	35.00560	1.200857	.1918383	.9310425
#1	3.297636	69.84586	.3003948	-.000986	5.904312	.4663742	.5089340
#2	3.298127	69.52780	.2999420	-.000750	5.964274	.4681666	.5119883
#3	3.288073	69.29264	.3012986	-.001486	5.823168	.4672398	.5027100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.98965	.3365909	.0144885	.0053101	8.062224	6.689831	12.75342
Stddev	.20672	.0054463	.0003157	.0004236	.014156	.038759	.03135
%RSD	.5907919	1.618069	2.179193	7.977060	.1755819	.5793762	.2458540
#1	34.97955	.3386221	.0141243	.0056158	8.065492	6.691027	12.72500
#2	35.20123	.3407297	.0146838	.0048266	8.074460	6.727979	12.74820
#3	34.78817	.3304209	.0146575	.0054881	8.046720	6.650488	12.78706

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01DUP Acquired: 6/2/2025 15:50:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.668701	.2375222	-.078924
Stddev	.019935	.0010168	.000915
%RSD	.2299687	.4280997	1.158981
#1	8.645696	.2381785	-.079132
#2	8.679512	.2380372	-.079717
#3	8.680895	.2363509	-.077923

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3521.685	71542.44	13854.58	2556.039	3815.976
Stddev	7.829	429.53	23.09	17.020	9.077
%RSD	.2223116	.6003802	.1666850	.6658818	.2378672
#1	3520.123	71369.98	13832.67	2551.989	3816.816
#2	3530.178	71225.94	13852.36	2541.410	3824.603
#3	3514.755	72031.39	13878.70	2574.719	3806.508

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01LX5 Acquired: 6/2/2025 15:54:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103287	-.006100	.0302255	-.017510	-.002061	26.25940	.1143363
Stddev	.0009022	.001549	.0006583	.001853	.000231	.03959	.0005661
%RSD	8.735411	25.39316	2.177916	10.58383	11.20064	.1507548	.4950908
#1	.0113563	-.005738	.0295124	-.016000	-.002133	26.25802	.1147113
#2	.0099635	-.004764	.0308100	-.019578	-.001802	26.22053	.1136851
#3	.0096663	-.007797	.0303540	-.016952	-.002246	26.29967	.1146125

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024354	.0002010	22.54771	.0571113	.0344466	.1791859	62.76845
Stddev	.0000163	.0000468	.04985	.0002984	.0000951	.0002957	.29057
%RSD	.6691473	23.26871	.2210745	.5225078	.2759429	.1650438	.4629219
#1	.0024178	.0002445	22.50485	.0573894	.0343465	.1792570	62.46576
#2	.0024385	.0001515	22.53586	.0567961	.0345356	.1794396	63.04515
#3	.0024499	.0002070	22.60241	.0571483	.0344577	.1788611	62.79445

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8158363	16.29375	.0571308	-.000096	1.484165	.1249698	.1300760
Stddev	.0025256	.03990	.0004017	.000177	.009662	.0012664	.0011740
%RSD	.3095689	.2448759	.7031038	184.4244	.6510311	1.013325	.9025644
#1	.8135976	16.25608	.0568308	-.000252	1.493899	.1249962	.1295214
#2	.8185742	16.28963	.0575871	-.000133	1.474575	.1236904	.1314245
#3	.8153370	16.33556	.0569744	.000097	1.484022	.1262227	.1292819

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.012967	.0115384	.0020243	-.000886	1.858594	2.048247	3.322380
Stddev	.048745	.0010458	.0000625	.000486	.003811	.032663	.017960
%RSD	.8106571	9.063345	3.085076	54.89120	.2050225	1.594664	.5405759
#1	5.962677	.0103667	.0020166	-.000328	1.855141	2.042990	3.342957
#2	6.060003	.0123771	.0019660	-.001112	1.857959	2.083220	3.314321
#3	6.016220	.0118713	.0020902	-.001218	1.862682	2.018532	3.309860

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01LX5 Acquired: 6/2/2025 15:54:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.921113	.0530645	-.003885
Stddev	.005546	.0003422	.000284
%RSD	.2886798	.6448043	7.315248
#1	1.927417	.0526875	-.003574
#2	1.918937	.0533554	-.004130
#3	1.916984	.0531506	-.003951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3317.934	67072.02	12532.21	2395.094	4198.667
Stddev	4.162	104.75	30.44	1.734	6.425
%RSD	.1254543	.1561824	.2428999	.0723938	.1530329
#1	3321.731	67087.04	12499.16	2397.075	4195.445
#2	3313.483	66960.57	12559.10	2393.851	4194.490
#3	3318.587	67168.46	12538.36	2394.356	4206.066

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV03 Acquired: 6/2/2025 15:58:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.822807**	**4.546182**	**4.769292**	**4.852687**	**4.887846**	**9.724754**	**9.719481**
Stddev	.021669	.088609	.005691	.022274	.011145	.015085	.137770
%RSD	.4492929	1.949093	.1193216	.4590024	.2280163	.1551153	1.417463
#1	4.816589	4.495550	4.764001	4.848357	4.880782	9.707453	9.721540
#2	4.804928	4.494498	4.768564	4.832896	4.882062	9.735151	9.856209
#3	4.846905	4.648497	4.775312	4.876808	4.900694	9.731658	9.580692

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2367015**	**2.384006**	**23.89142**	**.9763237**	**2.392272**	**1.224925**	**4.864199**
Stddev	.0008745	.004557	.03152	.0020606	.003798	.002122	.026093
%RSD	.3694579	.1911290	.1319267	.2110548	.1587676	.1732396	.5364223
#1	.2376177	2.381005	23.87376	.9743792	2.389972	1.225497	4.838946
#2	.2366110	2.381765	23.87270	.9784834	2.390189	1.222575	4.862593
#3	.2358758	2.389249	23.92781	.9761084	2.396656	1.226702	4.891058

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.387015**	**23.74700**	**2.395424**	**1.218293**	**24.56183**	**2.411162**	**2.424144**
Stddev	.002681	.10256	.003834	.002532	.15817	.003666	.013565
%RSD	.1123319	.4318936	.1600610	.2078109	.6439649	.1520593	.5595667
#1	2.388154	23.62857	2.393816	1.215377	24.38886	2.407518	2.423948
#2	2.383953	23.80658	2.392655	1.219575	24.59756	2.411118	2.437806
#3	2.388940	23.80585	2.399800	1.219928	24.69909	2.414850	2.410679

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.25284**	**4.740196**	**4.953782**	**4.763994**	**4.825512**	**4.906937**	**4.849276**
Stddev	.17255	.016191	.016987	.018528	.006392	.053695	.018135
%RSD	.7114530	.3415672	.3429121	.3889149	.1324568	1.094272	.3739655
#1	24.08739	4.757985	4.950412	4.753963	4.820877	4.845150	4.841430
#2	24.23942	4.736282	4.938732	4.752644	4.822855	4.933359	4.836386
#3	24.43171	4.726321	4.972201	4.785374	4.832804	4.942302	4.870013

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV03 Acquired: 6/2/2025 15:58:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.638873**	**4.859432**	**4.849262**
Stddev	.027347	.011552	.019810
%RSD	.5895194	.2377179	.4085202
#1	4.633304	4.849588	4.869902
#2	4.614740	4.856559	4.830402
#3	4.668576	4.872149	4.847481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.975**	**63800.36**	**11935.12**	**2237.384**	**4116.735**
Stddev	7.517	151.73	34.04	4.408	5.815
%RSD	.2421895	.2378205	.2852227	.1970077	.1412413
#1	3103.598	63975.52	11899.37	2241.320	4115.969
#2	3111.673	63715.90	11938.85	2232.621	4122.895
#3	3096.652	63709.65	11967.15	2238.210	4111.341

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB03 Acquired: 6/2/2025 16:02:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0000246**	**.0027753**	**.0008244**	**.0036587**	**.0008869**	**.0033303**	**-.001999**
Stddev	.0009025	.0011401	.0006170	.0034801	.0017994	.0029582	.000735
%RSD	3662.995	41.08086	74.83747	95.11841	202.8900	88.82917	36.78276
#1	-.000783	.0015345	.0004980	.0016505	.0028607	.0049325	-.002130
#2	-.000142	.0037767	.0015360	.0016484	-.000662	-.000083	-.002660
#3	.000999	.0030147	.0004392	.0076773	.000462	.005142	-.001207

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000019**	**.0000438**	**.0005159**	**.0005184**	**.0000384**	**.0006758**	**.0102992**
Stddev	.000018	.0000078	.0038577	.0000494	.0000399	.0005609	.0014921
%RSD	95.73131	17.77657	747.7872	9.536552	103.9354	83.00768	14.48786
#1	-.000025	.0000519	-.000724	.0005529	.0000093	.0011974	.0097725
#2	.000001	.0000429	-.002570	.0004617	.0000839	.0000824	.0091418
#3	-.000034	.0000364	.004841	.0005405	.0000220	.0007475	.0119832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004867**	**-.006645**	**.0002246**	**-.000086**	**-.059079**	**-.000328**	**.0026134**
Stddev	.0004169	.026086	.0001008	.000238	.004135	.002219	.0001864
%RSD	85.66881	392.5542	44.87272	277.0122	6.999980	677.1710	7.133487
#1	.0006356	.023432	.0003304	-.000317	-.054327	.001485	.0025234
#2	.0008087	-.023106	.0002135	-.000099	-.061045	-.002803	.0028278
#3	.0000157	-.020262	.0001298	.000158	-.061864	.000334	.0024891

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.020642**	**.0048657**	**.0006904**	**.0030758**	**-.000113**	**.0010700**	**-.002765**
Stddev	.031625	.0002761	.0000430	.0008751	.000586	.0019378	.001560
%RSD	153.2104	5.674856	6.233730	28.45280	520.3273	181.0938	56.41439
#1	-.048467	.0046134	.0007241	.0040328	-.000714	.0031364	-.004268
#2	.013752	.0051607	.0007053	.0023162	.000457	-.000706	-.001154
#3	-.027210	.0048229	.0006419	.0028783	-.000081	.000780	-.002874

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB03 Acquired: 6/2/2025 16:02:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0018345	.0010230	.0000484
Stddev	.0010941	.0008107	.0000495
%RSD	59.64057	79.24851	102.1741
#1	.0030874	.0003768	.0000626
#2	.0010677	.0019327	.0000893
#3	.0013484	.0007595	-.000007

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.559	63847.82	12068.93	2286.399	4192.208
Stddev	6.035	137.62	67.95	.470	9.705
%RSD	.1953483	.2155372	.5630481	.0205523	.2314909
#1	3085.190	63795.96	11992.78	2286.875	4184.524
#2	3096.446	63743.67	12123.39	2285.935	4203.114
#3	3087.041	64003.83	12090.63	2286.387	4188.985

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01MS Acquired: 6/2/2025 16:06:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6936956**	**1.765897**	**1.131181**	**1.527269**	**.3127954**	**107.1241**
Stddev	.0010236	.021182	.005115	.004325	.0022336	.0982
%RSD	.1475509	1.199488	.4521402	.2831713	.7140716	.0916637
#1	.6929299	1.761399	1.125529	1.525367	.3108755	107.1394
#2	.6932987	1.747325	1.132524	1.524222	.3152468	107.2138
#3	.6948582	1.788966	1.135490	1.532219	.3122640	107.0192

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6300996**	**.1574846**	**.2065373**	**64.82394**	**.5546002**	**.3569482**
Stddev	.0007675	.0002626	.0011020	.13584	.0007444	.0009617
%RSD	.1218042	.1667507	.5335726	.2095464	.1342293	.2694157
#1	.6308797	.1577192	.2060613	64.89884	.5554261	.3566003
#2	.6300737	.1572009	.2057534	64.90584	.5543940	.3562089
#3	.6293453	.1575337	.2077974	64.66715	.5539807	.3580354

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8415726**	**244.5266**	**3.406045**	**61.20708**	**.8045137**	**.0610472**
Stddev	.0014971	1.2849	.006347	.14460	.0014310	.0002186
%RSD	.1778881	.5254577	.1863405	.2362492	.1778724	.3580674
#1	.8414186	245.4101	3.412310	61.15734	.8033958	.0609522
#2	.8401585	245.1170	3.406205	61.36998	.8040188	.0612972
#3	.8431407	243.0526	3.399619	61.09391	.8061265	.0608921

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.306286**	**.6906276**	**.6538011**	**32.43007**	**.2896627**	**.3428150**
Stddev	.046911	.0020885	.0033491	.18747	.0048464	.0009206
%RSD	.5647658	.3024005	.5122497	.5780775	1.673105	.2685348
#1	8.329494	.6913063	.6512784	32.48237	.2936188	.3420759
#2	8.337070	.6882842	.6576008	32.58584	.2911124	.3425229
#3	8.252295	.6922923	.6525239	32.22200	.2842569	.3438462

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01MS Acquired: 6/2/2025 16:06:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6853787	6.708278	5.093232	F 19.81229	14.32499	.3945766
Stddev	.0038446	.016849	.016686	.09829	.06080	.0005553
%RSD	.5609522	.2511726	.3276206	.4961224	.4244487	.1407268
#1	.6820384	6.727377	5.087665	19.73978	14.29015	.3952156
#2	.6845164	6.701940	5.111991	19.77291	14.28962	.3943028
#3	.6895813	6.695517	5.080041	19.92416	14.39520	.3942114

Elem	Sr4077
Units	ppm
Avg	.0997962
Stddev	.0005755
%RSD	.5766225
#1	.0996449
#2	.0993115
#3	.1004321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3547.868	76341.15	14789.70	2685.636	3737.441
Stddev	3.503	119.41	32.60	10.842	7.869
%RSD	.0987454	.1564180	.2204139	.4037206	.2105474
#1	3551.588	76387.48	14811.36	2683.328	3744.322
#2	3547.385	76205.52	14805.53	2676.133	3739.141
#3	3544.631	76430.46	14752.21	2697.446	3728.861

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01MSD Acquired: 6/2/2025 16:10:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6907602**	**1.760104**	**1.077154**	**1.524564**	**.2967380**	**112.5982**
Stddev	.0036186	.069363	.003065	.006661	.0014678	.4747
%RSD	.5238574	3.940847	.2845186	.4369347	.4946542	.4215619
#1	.6881944	1.692781	1.078841	1.519187	.2951360	112.3854
#2	.6891871	1.756189	1.073616	1.522489	.2970598	113.1420
#3	.6948991	1.831341	1.079004	1.532016	.2980183	112.2671

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6627722**	**.1680918**	**.2017931**	**78.93307**	**.6169499**	**.3668313**
Stddev	.0010932	.0002150	.0009580	.27220	.0004730	.0022123
%RSD	.1649374	.1279005	.4747286	.3448526	.0766742	.6030788
#1	.6618750	.1679245	.2014078	78.78827	.6167416	.3651628
#2	.6639898	.1683343	.2010879	79.24707	.6174914	.3659903
#3	.6624518	.1680166	.2028838	78.76388	.6166168	.3693407

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9042549**	**252.8613**	**3.395266**	**68.60586**	**.7632985**	**.0606342**
Stddev	.0023573	.3804	.006882	.17677	.0021017	.0007238
%RSD	.2606861	.1504459	.2026908	.2576641	.2753499	1.193657
#1	.9045143	253.0259	3.391513	68.50398	.7617431	.0598696
#2	.9017787	253.1317	3.403209	68.80998	.7624629	.0607244
#3	.9064718	252.4263	3.391077	68.50362	.7656895	.0613086

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.882128**	**.7213464**	**.6504541**	**37.52594**	**.2328318**	**.3451571**
Stddev	.043330	.0030218	.0061409	.06034	.0041266	.0006460
%RSD	.4878322	.4189110	.9440967	.1608074	1.772364	.1871527
#1	8.886837	.7225238	.6446117	37.52263	.2375827	.3447382
#2	8.922911	.7236022	.6568553	37.58788	.2301388	.3448321
#3	8.836636	.7179131	.6498953	37.46732	.2307738	.3459011

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01MSD Acquired: 6/2/2025 16:10:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6668494	8.333489	6.441258	F 18.29207	10.64657	.4004353
Stddev	.0039005	.023517	.020539	.02471	.08695	.0014854
%RSD	.5849105	.2821945	.3188698	.1351058	.8166956	.3709572
#1	.6645675	8.332619	6.447068	18.27003	10.57024	.3998528
#2	.6646276	8.357429	6.458266	18.28738	10.62824	.4021237
#3	.6713531	8.310420	6.418440	18.31879	10.74122	.3993293

Elem	Sr4077
Units	ppm
Avg	.1161689
Stddev	.0006162
%RSD	.5304085
#1	.1157083
#2	.1168688
#3	.1159295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3475.973	72584.58	13843.07	2596.592	3761.030
Stddev	10.325	149.04	59.98	4.400	6.349
%RSD	.2970349	.2053336	.4332807	.1694506	.1688168
#1	3465.271	72635.98	13878.08	2601.635	3755.487
#2	3485.874	72416.64	13773.82	2594.602	3767.958
#3	3476.774	72701.12	13877.32	2593.539	3759.646

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01A Acquired: 6/2/2025 16:14:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6903797**	**1.865480**	**1.074179**	**1.549946**	**.6710118**	**111.1602**	**.7549272**
Stddev	.0020032	.009129	.006670	.002985	.0041476	.2904	.0011735
%RSD	.2901557	.4893829	.6209441	.1925685	.6181071	.2612139	.1554487
#1	.6880829	1.875800	1.070437	1.546663	.6668423	111.4580	.7561914
#2	.6917652	1.862183	1.070221	1.550679	.6710561	110.8779	.7547174
#3	.6912911	1.858458	1.081880	1.552496	.6751371	111.1448	.7538727

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1663244**	**.2008181**	**58.97647**	**.6199578**	**.3472128**	**1.026529**	**245.4488**
Stddev	.0008535	.0008558	.16275	.0010949	.0013519	.003466	.6474
%RSD	.5131504	.4261626	.2759551	.1766167	.3893528	.3376539	.2637727
#1	.1658909	.2004603	59.14958	.6211108	.3470396	1.024518	246.1941
#2	.1673076	.2001992	58.95325	.6198307	.3459558	1.024537	245.1265
#3	.1657746	.2017947	58.82658	.6189320	.3486429	1.030531	245.0258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.404890**	**69.81702**	**.7760657**	**.0592798**	**8.110090**	**.7010683**	**.6221304**
Stddev	.011278	.23127	.0016743	.0003091	.007756	.0043937	.0069796
%RSD	.3312169	.3312585	.2157436	.5214558	.0956286	.6267184	1.121886
#1	3.417474	70.06315	.7759225	.0593869	8.119015	.7011681	.6180928
#2	3.401498	69.78369	.7744676	.0589314	8.104990	.6966254	.6301898
#3	3.395697	69.60422	.7778071	.0595212	8.106265	.7054112	.6181087

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**41.92419**	**.5399559**	**.3582904**	**.6900203**	**8.179283**	**7.313403**	**17.99138**
Stddev	.21092	.0036090	.0008121	.0023436	.025863	.021299	.01244
%RSD	.5030872	.6683805	.2266526	.3396415	.3161960	.2912377	.0691451
#1	42.12383	.5440812	.3580424	.6888712	8.209054	7.334852	17.99455
#2	41.70357	.5384043	.3576312	.6884731	8.162365	7.292256	17.97767
#3	41.94515	.5373822	.3591975	.6927167	8.166429	7.313101	18.00194

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2152-01A Acquired: 6/2/2025 16:14:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.576436	.4054612	.0909734
Stddev	.022062	.0016077	.0005134
%RSD	.2572456	.3965173	.5643273
#1	8.576641	.4072762	.0912680
#2	8.554272	.4042158	.0903806
#3	8.598395	.4048917	.0912716

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.456	74620.23	13921.02	2619.932	3847.703
Stddev	3.089	68.57	33.39	6.482	4.267
%RSD	.0874391	.0918878	.2398706	.2473924	.1109022
#1	3531.100	74586.48	13930.92	2621.968	3845.775
#2	3535.991	74575.07	13883.79	2612.678	3852.594
#3	3530.278	74699.13	13948.34	2625.152	3844.740

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-01 Acquired: 6/2/2025 16:18:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369931	-.018406	.1629600	-.054412	-.009453	135.4819	.4760798
Stddev	.0025588	.002398	.0024262	.003200	.003801	.4007	.0031365
%RSD	6.916838	13.03113	1.488834	5.880353	40.20738	.2957381	.6588099
#1	.0361968	-.021120	.1602963	-.050718	-.012571	135.3094	.4725019
#2	.0398554	-.016572	.1650435	-.056206	-.005219	135.9399	.4783550
#3	.0349272	-.017525	.1635402	-.056312	-.010570	135.1964	.4773824

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067516	.0028910	16.61610	.1365468	.0819749	.3208855	184.2212
Stddev	.0000367	.0001703	.05083	.0008215	.0001241	.0012392	1.1869
%RSD	.5433381	5.891427	.3058903	.6016260	.1513883	.3861697	.6442987
#1	.0067770	.0029286	16.58080	.1371967	.0819336	.3213371	182.9037
#2	.0067683	.0027050	16.67435	.1356234	.0818768	.3194839	185.2069
#3	.0067095	.0030393	16.59313	.1368202	.0821144	.3218356	184.5531

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.292892	19.99931	.1470183	-.000578	2.111029	.2275660	.2997533
Stddev	.028170	.10719	.0009046	.000475	.013993	.0008860	.0003900
%RSD	.5322191	.5359504	.6153028	82.05930	.6628305	.3893432	.1300970
#1	5.263215	19.91046	.1469245	-.001029	2.095202	.2281627	.2999424
#2	5.319263	20.11835	.1461642	-.000083	2.116129	.2265479	.2993048
#3	5.296198	19.96911	.1479661	-.000622	2.121756	.2279873	.3000126

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.997398	-.067261	.0020737	.0064649	2.226722	9.090459	3.211457
Stddev	.068682	.006450	.0003265	.0007051	.009888	.020709	.016743
%RSD	.9815405	9.589313	15.74378	10.90652	.4440533	.2278147	.5213410
#1	6.925826	-.074708	.0024385	.0070319	2.215704	9.077772	3.207253
#2	7.062770	-.063518	.0019737	.0066876	2.234824	9.114357	3.197217
#3	7.003597	-.063556	.0018089	.0056754	2.229639	9.079248	3.229901

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-01 Acquired: 6/2/2025 16:18:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3810308	.1646386	-.049047
Stddev	.0035724	.0015502	.000565
%RSD	.9375487	.9415980	1.152440
#1	.3839486	.1628728	-.048428
#2	.3820969	.1652669	-.049535
#3	.3770467	.1657760	-.049180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3364.804	72173.85	13683.01	2546.340	3994.371
Stddev	6.359	101.00	23.92	8.959	15.817
%RSD	.1889963	.1399367	.1748252	.3518574	.3959865
#1	3366.288	72106.55	13661.83	2537.892	4004.704
#2	3370.290	72289.99	13708.96	2555.735	4002.248
#3	3357.834	72125.02	13678.25	2545.392	3976.162

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04 Acquired: 6/2/2025 16:22:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002193**	**-.003827**	**.0023375**	**-.002730**	**.0009342**	**.0712368**	**.3113690**
Stddev	.002006	.001278	.0014399	.004096	.0006235	.0039823	.0017816
%RSD	91.43803	33.40441	61.59903	150.0039	66.74462	5.590212	.5721707
#1	.000122	-.005301	.0023170	-.001216	.0009364	.0724432	.3125281
#2	-.003397	-.003157	.0037875	-.007368	.0015565	.0744765	.3122613
#3	-.003305	-.003023	.0009080	.000392	.0003095	.0667909	.3093176

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000885**	**.0000296**	**11.64846**	**.0000310**	**-.000215**	**.0074284**	**.0094431**
Stddev	.0000503	.0001304	.04890	.0002234	.000063	.0004613	.0008363
%RSD	56.85530	441.1189	.4198293	721.8237	29.06260	6.209539	8.856249
#1	.0000516	.0001281	11.67311	.0002791	-.000244	.0069043	.0096114
#2	.0001459	-.000118	11.68014	-.000032	-.000258	.0076082	.0101825
#3	.0000681	.000079	11.59214	-.000154	-.000143	.0077728	.0085355

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0461623**	**.4896511**	**.0007606**	**-.000120**	**317.4996**	**.0009905**	**.0948525**
Stddev	.0005746	.0088352	.0002504	.000210	2.2920	.0013914	.0003381
%RSD	1.244722	1.804391	32.91693	175.1801	.7218938	140.4719	.3564393
#1	.0466266	.4795945	.0008495	.000007	317.8684	.0003614	.0952258
#2	.0463405	.4961661	.0009543	-.000362	319.5847	.0000248	.0947647
#3	.0455197	.4931927	.0004779	-.000004	315.0455	.0025855	.0945669

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9705140**	**.0500577**	**.0003165**	**-.002492**	**-.000101**	**.5143315**	**.0119336**
Stddev	.0146988	.0004279	.0002286	.000327	.000216	.0099610	.0038920
%RSD	1.514536	.8547710	72.20896	13.13493	212.6528	1.936680	32.61396
#1	.9783313	.0505458	.0002990	-.002182	.000147	.5157512	.0118576
#2	.9535584	.0497474	.0005533	-.002835	-.000212	.5235065	.0080802
#3	.9796522	.0498800	.0000972	-.002459	-.000239	.5037369	.0158632

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04 Acquired: 6/2/2025 16:22:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4491306	-.005841	.0834649
Stddev	.0051414	.001068	.0006073
%RSD	1.144738	18.28853	.7276622
#1	.4435683	-.004613	.0838121
#2	.4537087	-.006353	.0838191
#3	.4501150	-.006557	.0827637

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2978.009	61551.47	12200.15	2184.236	3895.959
Stddev	27.406	95.92	83.60	6.563	30.534
%RSD	.9202889	.1558419	.6852659	.3004895	.7837252
#1	2994.732	61571.31	12158.71	2177.609	3916.323
#2	2992.915	61447.17	12145.36	2184.366	3910.703
#3	2946.380	61635.92	12296.38	2190.733	3860.851

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04DUP Acquired: 6/2/2025 16:27:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005847	-.001676	.0027622	.0030826	.0014818	.0760196	.3349308
Stddev	.0013826	.000660	.0011931	.0029364	.0019834	.0030454	.0001786
%RSD	236.4653	39.39174	43.19371	95.25616	133.8535	4.006135	.0533210
#1	-.000744	-.001341	.0022048	.0009468	.0036318	.0795355	.3348943
#2	.002015	-.002436	.0041319	.0064311	.0010902	.0743165	.3347733
#3	.000483	-.001250	.0019497	.0018699	-.000277	.0742066	.3351248

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000755	.0000244	12.61470	-.000029	-.000045	.0080923	.0076292
Stddev	.0000178	.0000781	.02835	.000242	.000147	.0006034	.0022920
%RSD	23.60723	320.4334	.2246999	830.8045	326.5226	7.457016	30.04247
#1	.0000954	.0000378	12.64592	-.000006	-.000021	.0084750	.0092454
#2	.0000700	.0000949	12.60762	-.000281	.000089	.0084052	.0050061
#3	.0000610	-.000060	12.59057	.000200	-.000203	.0073966	.0086362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508077	.5420641	.0013982	-.000085	336.8748	-.002155	.1040288
Stddev	.0004756	.0167326	.0002151	.000448	2.7831	.000182	.0003727
%RSD	.9360998	3.086834	15.38068	524.7479	.8261551	8.452013	.3582987
#1	.0509057	.5391221	.0012864	.000169	339.1239	-.001988	.1044294
#2	.0502908	.5600726	.0012621	.000178	337.7382	-.002349	.1036922
#3	.0512268	.5269976	.0016461	-.000603	333.7623	-.002128	.1039648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.025033	.0553237	.0000156	-.002894	-.000921	.5589401	.0117425
Stddev	.003335	.0002378	.0001944	.000103	.000305	.0087591	.0018752
%RSD	.3253569	.4298424	1248.225	3.576773	33.11969	1.567093	15.96961
#1	1.022410	.0555968	-.000096	-.002781	-.001265	.5611750	.0109733
#2	1.028787	.0552124	-.000097	-.002915	-.000820	.5663652	.0138801
#3	1.023904	.0551620	.000240	-.002985	-.000680	.5492800	.0103742

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04DUP Acquired: 6/2/2025 16:27:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5064265	-.004763	.0899052
Stddev	.0028511	.000893	.0002447
%RSD	.5629792	18.74543	.2721989
#1	.5059271	-.005772	.0897595
#2	.5094943	-.004074	.0897683
#3	.5038582	-.004442	.0901877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2962.410	60994.95	11848.03	2164.126	3845.053
Stddev	2.775	202.12	45.00	17.102	9.969
%RSD	.0936856	.3313792	.3797956	.7902528	.2592599
#1	2963.308	60878.04	11892.86	2149.197	3836.672
#2	2959.297	60878.47	11848.35	2160.396	3842.411
#3	2964.625	61228.34	11802.87	2182.785	3856.077

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04LX5 Acquired: 6/2/2025 16:31:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001351**	**-.001414**	**.0012120**	**-.003668**	**.0000809**	**.0203184**	**.0636497**
Stddev	.001437	.000520	.0014431	.002709	.0022800	.0047324	.0010146
%RSD	106.3682	36.74649	119.0712	73.86535	2819.035	23.29124	1.594025
#1	-.003004	-.001214	.0011817	-.004410	.0024139	.0242282	.0630514
#2	-.000398	-.001024	-.000216	-.000665	-.000029	.0150573	.0648211
#3	-.000651	-.002004	.002670	-.005928	-.002142	.0216697	.0630764

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000541**	**.0000268**	**2.429369**	**.0005672**	**-.000008**	**.0012935**	**.0086672**
Stddev	.0000191	.0000422	.011665	.0001951	.000179	.0000432	.0022846
%RSD	35.35029	157.3404	.4801844	34.40301	2296.767	3.342013	26.35915
#1	.0000322	-.000007	2.438336	.0005885	.000100	.0012713	.0096603
#2	.0000676	.000013	2.433589	.0007508	.000091	.0012657	.0102873
#3	.0000624	.000074	2.416180	.0003623	-.000214	.0013433	.0060541

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099271**	**.1132108**	**.0006101**	**-.000054**	**60.25987**	**.0006411**	**.0194784**
Stddev	.0007252	.0122863	.0000739	.000441	.32758	.0008684	.0002888
%RSD	7.305339	10.85256	12.10509	823.4175	.5436144	135.4532	1.482410
#1	.0106581	.1172003	.0006402	-.000388	60.63137	.0016367	.0198079
#2	.0092078	.0994256	.0006643	-.000218	60.01245	.0000397	.0192695
#3	.0099154	.1230066	.0005260	.000446	60.13581	.0002469	.0193578

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1719547**	**.0113271**	**-.000009**	**-.001333**	**.0001765**	**.1009740**	**.0010805**
Stddev	.0189688	.0005432	.000204	.000520	.0009306	.0031373	.0028715
%RSD	11.03128	4.795260	2306.254	38.99542	527.3598	3.106993	265.7571
#1	.1678227	.0117547	.000136	-.001078	-.000244	.1045796	.0039775
#2	.1926489	.0115106	.000080	-.001931	.001243	.0988675	.0010287
#3	.1553925	.0107159	-.000242	-.000990	-.000470	.0994750	-.001765

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04LX5 Acquired: 6/2/2025 16:31:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0981953	.0016350	.0172194
Stddev	.0015776	.0008063	.0000659
%RSD	1.606591	49.31234	.3826022
#1	.0980195	.0010189	.0172711
#2	.0967130	.0013386	.0172419
#3	.0998534	.0025475	.0171452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3121.636	63971.29	11568.67	2263.296	4181.359
Stddev	4.170	147.08	23.19	3.195	4.013
%RSD	.1335699	.2299114	.2004599	.1411655	.0959830
#1	3125.855	64093.61	11573.08	2261.778	4182.785
#2	3117.518	64012.15	11543.59	2261.142	4184.464
#3	3121.534	63808.10	11589.34	2266.967	4176.827

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04MS Acquired: 6/2/2025 16:36:07 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7115898	1.650089	.8448505	1.772645	.7196071	1.804251	.5248916
Stddev	.0052176	.029290	.0016315	.003038	.0009225	.013769	.0048859
%RSD	.7332380	1.775058	.1931149	.1714010	.1281986	.7631364	.9308480
#1	.7057407	1.631877	.8465061	1.775143	.7185636	1.796181	.5257355
#2	.7132633	1.634514	.8448013	1.773530	.7203144	1.820150	.5293006
#3	.7157654	1.683876	.8432441	1.769263	.7199431	1.796423	.5196387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1709117	.1764959	14.29477	.3562313	.1780616	.2694727	2.595382
Stddev	.0005166	.0004705	.06081	.0003434	.0006628	.0011128	.016873
%RSD	.3022494	.2665491	.4254301	.0964057	.3722272	.4129661	.6501026
#1	.1714061	.1760036	14.32820	.3565565	.1773451	.2684029	2.582395
#2	.1709536	.1765431	14.33153	.3562653	.1781868	.2693913	2.614453
#3	.1703755	.1769409	14.22457	.3558721	.1786528	.2706241	2.589297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2218914	2.249032	.4432189	.0637004	348.7783	.2617209	.2733621
Stddev	.0017006	.019669	.0007853	.0002004	1.8161	.0018845	.0030085
%RSD	.7663936	.8745409	.1771741	.3145757	.5206913	.7200590	1.100555
#1	.2225644	2.271027	.4425028	.0636420	348.5053	.2628984	.2705573
#2	.2231525	2.233133	.4430953	.0635356	347.1141	.2627169	.2729893
#3	.2199574	2.242935	.4440587	.0639234	350.7153	.2595473	.2765396

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.39417	.2936415	.3784691	.6243810	.1723956	1.306197	5.560347
Stddev	.08807	.0015638	.0008407	.0012602	.0004372	.012169	.027932
%RSD	.8472803	.5325356	.2221342	.2018381	.2536124	.9316374	.5023472
#1	10.33588	.2947661	.3776301	.6246906	.1728554	1.296224	5.531423
#2	10.49548	.2918558	.3784657	.6229948	.1719851	1.302611	5.562450
#3	10.35115	.2943027	.3793115	.6254576	.1723462	1.319756	5.587168

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04MS Acquired: 6/2/2025 16:36:07 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5020674	.1783865	.2621762
Stddev	.0023679	.0009701	.0023047
%RSD	.4716241	.5438119	.8790725
#1	.5045210	.1785174	.2625039
#2	.4997957	.1792844	.2642996
#3	.5018855	.1773576	.2597252

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2998.928	63030.11	11718.67	2214.675	3892.115
Stddev	6.123	30.43	63.43	5.842	8.832
%RSD	.2041774	.0482721	.5412662	.2637955	.2269139
#1	3001.401	62995.08	11647.44	2209.089	3897.554
#2	3003.427	63045.23	11739.50	2220.743	3896.867
#3	2991.955	63050.01	11769.05	2214.191	3881.925

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04MSD Acquired: 6/2/2025 16:40:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7430250	1.697533	.8689054	1.839974	.7617265	1.865637	.5044869
Stddev	.0085226	.002154	.0030739	.010076	.0048519	.003269	.0008840
%RSD	1.147009	.1269168	.3537641	.5476046	.6369626	.1752225	.1752227
#1	.7352729	1.697331	.8667056	1.829068	.7564282	1.864690	.5047044
#2	.7416510	1.695486	.8675931	1.841919	.7627986	1.862946	.5035145
#3	.7521511	1.699781	.8724177	1.848935	.7659527	1.869275	.5052418

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1833968	.1812884	13.60935	.3698444	.1829654	.2775810	2.638542
Stddev	.0007789	.0006789	.04812	.0020935	.0004397	.0009786	.007656
%RSD	.4247117	.3745047	.3535686	.5660384	.2403041	.3525463	.2901550
#1	.1841194	.1805597	13.66486	.3692493	.1824891	.2764511	2.631331
#2	.1825717	.1814023	13.57948	.3681130	.1830514	.2781541	2.637718
#3	.1834994	.1819032	13.58372	.3721710	.1833557	.2781380	2.646576

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2272077	2.271069	.4566277	.0665765	329.8497	.2685074	.2825296
Stddev	.0005561	.011039	.0020117	.0004385	1.1714	.0022703	.0018347
%RSD	.2447399	.4860800	.4405569	.6586207	.3551275	.8455407	.6493855
#1	.2269582	2.283792	.4546229	.0664414	328.9989	.2659488	.2842719
#2	.2278448	2.265381	.4566142	.0662214	329.3645	.2692924	.2827023
#3	.2268200	2.264034	.4586462	.0670666	331.1857	.2702811	.2806147

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.58766	.3100973	.3989179	.6564780	.1796515	1.323761	5.715394
Stddev	.05732	.0006132	.0019959	.0016240	.0010225	.004536	.026978
%RSD	.5414122	.1977611	.5003300	.2473745	.5691354	.3426733	.4720178
#1	10.52810	.3101743	.3966144	.6546077	.1807626	1.321768	5.684333
#2	10.59243	.3094492	.4001338	.6572950	.1787503	1.320563	5.728864
#3	10.64245	.3106684	.4000054	.6575311	.1794416	1.328952	5.732983

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04MSD Acquired: 6/2/2025 16:40:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4830714	.1895591	.2602056
Stddev	.0021280	.0010230	.0007152
%RSD	.4405187	.5396864	.2748771
#1	.4813748	.1884599	.2597758
#2	.4854591	.1897339	.2598098
#3	.4823804	.1904835	.2610313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2952.978	60720.07	11206.84	2151.124	3843.914
Stddev	12.751	178.34	45.05	5.532	10.102
%RSD	.4318164	.2937142	.4020138	.2571897	.2627996
#1	2967.687	60624.09	11155.47	2154.026	3853.442
#2	2946.202	60925.85	11239.62	2144.745	3844.976
#3	2945.046	60610.28	11225.43	2154.603	3833.323

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV04 Acquired: 6/2/2025 16:49:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.989420**	**5.015077**	**4.913898**	**5.021232**	**4.978128**	**9.908257**	**9.537229**
Stddev	.005327	.022928	.012921	.011500	.012544	.017205	.054230
%RSD	.1067714	.4571723	.2629416	.2290260	.2519736	.1736414	.5686153
#1	4.983427	4.997951	4.898980	5.014923	4.970718	9.918821	9.550928
#2	4.991215	5.006156	4.921544	5.014267	4.971054	9.917545	9.583296
#3	4.993617	5.041124	4.921170	5.034505	4.992610	9.888404	9.477463

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2450224**	**2.464789**	**24.26511**	**1.001250**	**2.457599**	**1.251937**	**4.727733**
Stddev	.0012391	.006399	.08112	.004506	.005297	.003031	.034321
%RSD	.5056910	.2596147	.3342888	.4500427	.2155254	.2421371	.7259531
#1	.2439551	2.457687	24.28058	.998023	2.451900	1.249210	4.741483
#2	.2447310	2.466574	24.33737	1.006399	2.458523	1.251400	4.753048
#3	.2463812	2.470106	24.17737	.999330	2.462372	1.255201	4.688669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.389218**	**24.58775**	**2.466062**	**1.212167**	**22.92058**	**2.443119**	**2.633396**
Stddev	.005260	.05224	.004792	.002087	.18293	.002428	.018078
%RSD	.2201423	.2124557	.1943099	.1721448	.7980929	.0993911	.6865011
#1	2.387563	24.60118	2.460824	1.212530	22.95783	2.442222	2.627898
#2	2.395106	24.63196	2.467136	1.214049	23.08202	2.441266	2.653585
#3	2.384984	24.53010	2.470225	1.209923	22.72190	2.445867	2.618705

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.71295**	**4.871998**	**5.083307**	**4.951135**	**4.834681**	**4.817670**	**5.022938**
Stddev	.14105	.021842	.008927	.014065	.012336	.031548	.005280
%RSD	.5948380	.4483082	.1756206	.2840708	.2551494	.6548308	.1051095
#1	23.75482	4.852406	5.073900	4.937079	4.831879	4.832223	5.022271
#2	23.82833	4.868042	5.084359	4.951117	4.848176	4.839315	5.018023
#3	23.55570	4.895548	5.091661	4.965208	4.823987	4.781473	5.028519

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV04 Acquired: 6/2/2025 16:49:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.848964**	**4.844555**	**4.815134**
Stddev	.004958	.015172	.053451
%RSD	.1022571	.3131813	1.110063
#1	4.848086	4.852035	4.758430
#2	4.844503	4.854535	4.822379
#3	4.854303	4.827095	4.864593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3053.400**	**64064.50**	**11459.04**	**2219.331**	**4027.061**
Stddev	3.066	194.54	49.45	1.769	5.757
%RSD	.1003991	.3036599	.4315020	.0797199	.1429459
#1	3056.882	64207.53	11508.72	2218.388	4033.680
#2	3052.210	63842.98	11458.57	2221.372	4024.278
#3	3051.107	64142.99	11409.83	2218.233	4023.224

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB04 Acquired: 6/2/2025 16:55:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0015338	.0013589	.0022993	-.000716	-.000390	.0083018	-.000711
Stddev	.0004201	.0014062	.0008311	.005117	.001610	.0077725	.001129
%RSD	27.39134	103.4826	36.14673	714.3711	412.3360	93.62424	158.8404
#1	.0011306	.0027319	.0028362	.000855	-.001894	.0138827	.000511
#2	.0015018	-.000078	.0013420	.003431	.001308	.0115984	-.001715
#3	.0019690	.001423	.0027197	-.006434	-.000585	-.000576	-.000928

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000629	-.000007	.0020942	.0001859	.0000460	.0003534	.0165029
Stddev	.0000334	.000007	.0034027	.0003260	.0002796	.0003404	.0033926
%RSD	53.07728	96.05436	162.4808	175.4018	607.5104	96.33414	20.55732
#1	.0001012	-.000011	-.000191	-.000189	-.000134	.0000029	.0204062
#2	.0000483	-.000012	.006005	.000342	-.000096	.0003745	.0148396
#3	.0000394	.000001	.000469	.000404	.000368	.0006827	.0142631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001304	-.010645	.0005166	-.000075	-.051027	-.000490	.0012027
Stddev	.0004687	.012209	.0002612	.000241	.007576	.001735	.0004301
%RSD	359.3926	114.6885	50.55445	319.7209	14.84664	353.7948	35.76157
#1	.0000254	.002770	.0004193	-.000113	-.051688	.001347	.0007334
#2	-.000277	-.013600	.0008124	-.000295	-.043142	-.002101	.0012964
#3	.000643	-.021105	.0003180	.000182	-.058250	-.000717	.0015782

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017744	.0073861	.0005035	.0028197	.0002122	.0023862	-.003869
Stddev	.017409	.0004716	.0000832	.0002369	.0008312	.0108678	.001896
%RSD	98.11118	6.384717	16.52089	8.401250	391.7010	455.4367	49.01824
#1	.002286	.0076938	.0005511	.0030926	.0000469	.0029185	-.004695
#2	-.029234	.0076213	.0005519	.0027000	-.000524	.0129781	-.001700
#3	-.026285	.0068432	.0004074	.0026666	.001114	-.008738	-.005212

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB04 Acquired: 6/2/2025 16:55:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000393	.0033865	.0000750
Stddev	.000917	.0014880	.0000414
%RSD	233.4918	43.94007	55.12679
#1	-.001389	.0021455	.0000731
#2	-.000206	.0050362	.0001173
#3	.000416	.0029779	.0000347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3151.050	64814.54	11678.62	2296.673	4298.343
Stddev	10.370	212.90	6.86	9.536	11.359
%RSD	.3291096	.3284767	.0587281	.4152178	.2642681
#1	3163.025	64630.70	11684.93	2288.389	4311.145
#2	3145.183	64765.11	11671.32	2294.534	4294.414
#3	3144.944	65047.81	11679.59	2307.098	4289.470

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04A Acquired: 6/2/2025 17:00:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7726992**	**1.777651**	**.9038492**	**1.908030**	**.7622700**	**1.337892**	**.4369426**
Stddev	.0734396	.173630	.0841757	.182781	.1056237	.090262	.0081121
%RSD	9.504289	9.767369	9.313021	9.579545	13.85646	6.746578	1.856561
#1	.6999248	1.595246	.8140752	1.723099	.6523366	1.246922	.4286795
#2	.7713865	1.796786	.9164716	1.912409	.7714945	1.339328	.4372534
#3	.8467863	1.940920	.9810009	2.088582	.8629788	1.427428	.4448948

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1484965**	**.1890055**	**12.73278**	**.3133114**	**.1905383**	**.2907625**	**1.936768**
Stddev	.0044604	.0177151	.02727	.0115108	.0181572	.0271330	.136341
%RSD	3.003688	9.372813	.2141966	3.673903	9.529435	9.331673	7.039617
#1	.1449429	.1704132	12.73302	.3019157	.1715522	.2625078	1.799436
#2	.1470446	.1909143	12.70538	.3130847	.1923289	.2931657	1.938773
#3	.1535019	.2056889	12.75993	.3249339	.2077339	.3166139	2.072096

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1701566**	**1.750310**	**.4775609**	**.0553784**	**317.9487**	**.1939703**	**.2630859**
Stddev	.0083862	.080477	.0445617	.0019776	1.4167	.0156757	.0073473
%RSD	4.928538	4.597877	9.331105	3.571047	.4455720	8.081497	2.792743
#1	.1617062	1.689351	.4308609	.0535576	316.3340	.1784209	.2556011
#2	.1702863	1.720048	.4822008	.0550953	318.5290	.1937206	.2633691
#3	.1784772	1.841532	.5196212	.0574822	318.9831	.2097694	.2702875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.947402**	**.2608465**	**.3994237**	**.6637212**	**.1050006**	**1.014388**	**6.017965**
Stddev	.510806	.0059314	.0542098	.0901478	.0108161	.053192	.561668
%RSD	6.427335	2.273894	13.57199	13.58217	10.30102	5.243769	9.333185
#1	7.397111	.2566803	.3429208	.5691143	.0943977	.965140	5.427255
#2	8.038679	.2582219	.4043457	.6734245	.1045861	1.007225	6.081444
#3	8.406416	.2676374	.4510046	.7486248	.1160180	1.070798	6.545197

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2151-04A Acquired: 6/2/2025 17:00:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4825938	.1286228	.2057183
Stddev	.0026980	.0095323	.0083228
%RSD	.5590637	7.411042	4.045752
#1	.4794787	.1197716	.1972941
#2	.4841203	.1273820	.2059250
#3	.4841825	.1387147	.2139359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2931.198	60832.84	11655.62	2141.552	3816.844
Stddev	8.791	72.10	104.02	8.497	4.912
%RSD	.2999032	.1185160	.8924241	.3967560	.1286821
#1	2932.730	60843.85	11544.81	2144.998	3822.248
#2	2939.123	60755.87	11751.16	2131.874	3815.630
#3	2921.743	60898.80	11670.89	2147.784	3812.653

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2137-03DLX5 Acquired: 6/2/2025 17:04:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0503677**	**-.200245**	**.0345512**	**.2567229**	**.1332866**	**.7912547**
Stddev	.0018047	.003820	.0010931	.0020076	.0022459	.0116043
%RSD	3.583076	1.907588	3.163589	.7820109	1.685010	1.466570
#1	.0482990	-.199629	.0357428	.2567571	.1358746	.8025257
#2	.0511840	-.204335	.0335952	.2587132	.1318486	.7918949
#3	.0516200	-.196770	.0343155	.2546984	.1321367	.7793436

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0210631**	**-.005760**	**-.002011**	**1.380096**	**-.000227**	**-.036851**
Stddev	.0010465	.001597	.000084	.007456	.000634	.000469
%RSD	4.968506	27.71991	4.185193	.5402554	279.0894	1.271633
#1	.0204065	-.004678	-.002105	1.386864	-.000450	-.037256
#2	.0205128	-.007594	-.001943	1.381320	-.000719	-.036959
#3	.0222700	-.005008	-.001984	1.372104	.000488	-.036338

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2535603**	**.3652440**	**.2475866**	**.3636657**	**.0015720**	**-.001309**
Stddev	.0018792	.0049869	.0027638	.0224757	.0003032	.000270
%RSD	.7411389	1.365372	1.116290	6.180332	19.29015	20.64727
#1	.2543982	.3608395	.2499945	.3817333	.0016034	-.001596
#2	.2548748	.3642338	.2481966	.3707668	.0012543	-.001272
#3	.2514078	.3706587	.2445688	.3384972	.0018583	-.001059

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**409.5879**	**-.208686**	**.9022887**	**1003.301**	**4.917093**	F **44.91252**
Stddev	19.4132	.003712	.0094146	40.209	.326462	.09273
%RSD	4.739692	1.778821	1.043409	4.007707	6.639339	.2064774
#1	428.2771	-.211915	.9108318	1033.757	4.707485	44.89179
#2	389.5238	-.204630	.8921952	957.723	5.293238	45.01386
#3	410.9628	-.209511	.9038390	1018.422	4.750555	44.83190

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2137-03DLX5 Acquired: 6/2/2025 17:04:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0931744	.0035288	6.905514	7.065307	4.441910	.0165253
Stddev	.0009114	.0006782	.286023	.054346	.026950	.0011713
%RSD	.9782151	19.22033	4.141953	.7691916	.6067173	7.087681
#1	.0938094	.0041325	7.123677	7.110483	4.444040	.0159646
#2	.0921300	.0027949	6.581693	7.080439	4.467731	.0157399
#3	.0935836	.0036590	7.011171	7.004999	4.413958	.0178716

Elem	Sr4077
Units	ppm
Avg	.0678011
Stddev	.0005760
%RSD	.8494836
#1	.0684564
#2	.0675714
#3	.0673753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2560.955	55488.67	11689.72	1899.998	3672.364
Stddev	18.740	2208.56	28.00	230.178	9.933
%RSD	.7317406	3.980192	.2395161	12.11464	.2704766
#1	2577.828	53970.08	11679.58	1749.963	3683.141
#2	2564.251	58022.26	11721.37	2165.013	3670.376
#3	2540.786	54473.65	11668.20	1785.018	3663.576

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168190TB Acquired: 6/2/2025 17:08:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001418**	**-.003551**	**-.000229**	**.0047291**	**-.000975**	**.0116081**	**-.000631**
Stddev	.001331	.001210	.000850	.0008854	.001134	.0046237	.000678
%RSD	93.87296	34.06304	371.7992	18.72180	116.3020	39.83175	107.4706
#1	-.002932	-.004337	-.000426	.0042526	-.002104	.0132508	-.000257
#2	-.000888	-.002158	.000703	.0041840	.000164	.0151862	-.001413
#3	-.000434	-.004159	-.000962	.0057507	-.000985	.0063874	-.000222

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**.0000370**	**.0022079**	**.0011036**	**.0000164**	**-.000119**	**.0517241**
Stddev	.000044	.0000143	.0058041	.0002639	.0002273	.000431	.0031248
%RSD	126.4747	38.72694	262.8732	23.91799	1387.264	362.9426	6.041241
#1	-.000072	.0000278	-.000324	.0008170	.0002762	-.000089	.0484729
#2	-.000046	.0000535	-.001900	.0011569	-.000081	-.000564	.0519944
#3	.000014	.0000296	.008848	.0013368	-.000146	.000296	.0547049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060384**	**.0139152**	**.0008604**	**-.000146**	**378.5904**	**-.000107**	**.0002445**
Stddev	.0000710	.0215327	.0003347	.000263	5.5361	.000378	.0004757
%RSD	1.175231	154.7421	38.89549	180.9826	1.462296	352.2994	194.5633
#1	.0059875	-.002505	.0011360	-.000154	375.7002	-.000540	.0001899
#2	.0060081	.005956	.0009571	.000122	375.0975	.000155	.0007452
#3	.0061194	.038294	.0004880	-.000405	384.9735	.000063	-.000202

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1159365**	**.0097723**	**.0043970**	**-.001372**	**.0001047**	**.0119642**	**.0017001**
Stddev	.0290035	.0008760	.0005218	.000879	.0009829	.0041756	.0026490
%RSD	25.01673	8.964590	11.86795	64.10572	938.4293	34.90100	155.8142
#1	.0828463	.0107517	.0049995	-.000770	-.000399	.0148501	.0047578
#2	.1369518	.0090634	.0040868	-.000964	.001237	.0138665	.0002407
#3	.1280114	.0095020	.0041048	-.002381	-.000524	.0071762	.0001017

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168190TB Acquired: 6/2/2025 17:08:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0684868	-.003174	.0000557
Stddev	.0053369	.001846	.0000818
%RSD	7.792612	58.16128	146.9510
#1	.0730460	-.003094	-.000039
#2	.0697978	-.005060	.000106
#3	.0626165	-.001370	.000100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2959.279	62369.53	11963.00	2160.222	3864.486
Stddev	9.302	172.93	74.06	10.115	9.887
%RSD	.3143345	.2772608	.6191094	.4682447	.2558298
#1	2967.484	62565.63	11879.54	2171.236	3869.931
#2	2949.173	62238.89	11988.61	2158.082	3853.074
#3	2961.179	62304.08	12020.87	2151.348	3870.453

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168214BL Acquired: 6/2/2025 17:13:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004555	-.000604	.0007089	.0033965	.0007680	.0373325	-.001166
Stddev	.0005749	.000981	.0010339	.0021426	.0008223	.0150229	.001077
%RSD	126.2303	162.3602	145.8379	63.08368	107.0709	40.24093	92.35240
#1	.0010820	-.001534	.0011752	.0018358	.0010125	.0274204	-.000430
#2	-.000048	.000421	.0014276	.0025142	-.000149	.0546174	-.002403
#3	.000332	-.000699	-.000476	.0058393	.001440	.0299596	-.000666

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000733	.0000349	.0181873	.0001226	.0003195	.0000446	.0359682
Stddev	.0000135	.0000396	.0090956	.0002076	.0002040	.0003670	.0095008
%RSD	18.46207	113.4884	50.01060	169.2720	63.86384	822.9950	26.41450
#1	.0000581	.0000509	.0253127	.0002076	.0004693	-.000362	.0286739
#2	.0000840	.0000641	.0213068	.0002742	.0004020	.000145	.0325189
#3	.0000777	-.000010	.0079425	-.000114	.0000871	.000351	.0467119

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007054	.0118415	.0001854	.0001908	.1068900	.0003927	.0012911
Stddev	.0003778	.0021827	.0001602	.0000743	.0153748	.0020847	.0001955
%RSD	53.56126	18.43248	86.38258	38.95775	14.38378	530.9214	15.13923
#1	.0006263	.0105415	.0001322	.0002165	.0910967	.0018271	.0011215
#2	.0003734	.0143614	.0000586	.0002489	.1077642	.0013496	.0012469
#3	.0011165	.0106216	.0003654	.0001070	.1218090	-.001999	.0015048

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1838531	.0058669	.0031605	-.000575	.0000618	.0040012	.0007676
Stddev	.0236584	.0003939	.0002749	.000283	.0002441	.0088840	.0012351
%RSD	12.86808	6.713254	8.697859	49.15844	395.1820	222.0326	160.8997
#1	.1694636	.0061628	.0031398	-.000348	-.000147	.0089245	-.000217
#2	.1709376	.0054198	.0034453	-.000891	.000002	.0093335	.000366
#3	.2111582	.0060179	.0028967	-.000485	.000330	-.006254	.002153

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168214BL Acquired: 6/2/2025 17:13:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0033268	.0060902	.0002304
Stddev	.0005513	.0006065	.0000117
%RSD	16.57107	9.959483	5.093567
#1	.0027119	.0054110	.0002249
#2	.0037769	.0065779	.0002439
#3	.0034916	.0062817	.0002224

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3180.321	64583.33	11597.66	2281.100	4356.958
Stddev	16.418	138.49	47.27	6.720	22.406
%RSD	.5162332	.2144348	.4075603	.2945993	.5142527
#1	3173.079	64683.72	11594.08	2288.090	4349.127
#2	3168.769	64425.34	11552.29	2274.688	4339.519
#3	3199.115	64640.93	11646.62	2280.521	4382.228

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168214BS Acquired: 6/2/2025 17:17:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8167387	2.041801	.9823771	2.070161	.8298829	1.999661
Stddev	.0048749	.019541	.0029238	.009289	.0026938	.010735
%RSD	.5968724	.9570576	.2976277	.4486985	.3245964	.5368561
#1	.8112890	2.023004	.9794862	2.059800	.8268043	2.006616
#2	.8182427	2.062010	.9823124	2.072943	.8310376	1.987297
#3	.8206843	2.040389	.9853328	2.077742	.8318068	2.005069

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1911984	.1988123	.2005256	1.023087	.4183232	.2017708
Stddev	.0005184	.0005304	.0006058	.006079	.0009326	.0003345
%RSD	.2711467	.2667883	.3020940	.5941440	.2229389	.1658046
#1	.1917960	.1994171	.1998364	1.025060	.4193970	.2016582
#2	.1909308	.1984262	.2007664	1.027935	.4177156	.2021471
#3	.1908685	.1985936	.2009739	1.016268	.4178570	.2015070

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3200708	3.160976	.1997469	1.982507	.5073994	.0758121
Stddev	.0021956	.007784	.0012171	.010628	.0009519	.0003774
%RSD	.6859599	.2462477	.6093255	.5361134	.1876075	.4978520
#1	.3177173	3.169609	.2007751	1.994616	.5063028	.0761742
#2	.3204313	3.154495	.2000626	1.978183	.5080127	.0758411
#3	.3220638	3.158824	.1984031	1.974722	.5078826	.0754210

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.963962	.2975475	.2023750	10.05334	.2869975	.4244228
Stddev	.009541	.0018306	.0018313	.04910	.0010435	.0009900
%RSD	.3218980	.6152383	.9048825	.4884181	.3635961	.2332629
#1	2.967128	.2984936	.2004591	9.99680	.2874676	.4233600
#2	2.971518	.2987116	.2025580	10.08527	.2877234	.4245896
#3	2.953241	.2954375	.2041078	10.07796	.2858017	.4253189

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168214BS Acquired: 6/2/2025 17:17:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6971655	.1956143	.8745982	6.082271	F -.002377	.2038871
Stddev	.0026053	.0008811	.0073006	.039240	.002262	.0008275
%RSD	.3737034	.4504163	.8347415	.6451522	95.16173	.4058398
#1	.6941573	.1963994	.8674519	6.036975	-.000988	.2046119
#2	.6986969	.1957822	.8820439	6.105916	-.001156	.2029856
#3	.6986424	.1946614	.8742989	6.103921	-.004987	.2040640

Elem	Sr4077
Units	ppm
Avg	.1930317
Stddev	.0002371
%RSD	.1228084
#1	.1933051
#2	.1928828
#3	.1929073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.456	63436.48	12330.11	2258.917	4312.893
Stddev	7.639	92.03	39.29	4.240	6.243
%RSD	.2426952	.1450742	.3186343	.1876841	.1447538
#1	3153.908	63345.96	12292.05	2254.886	4319.356
#2	3149.438	63433.54	12327.76	2263.338	4312.428
#3	3139.021	63529.95	12370.52	2258.527	4306.896

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168215BL Acquired: 6/2/2025 17:21:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014144	.0002822	.0010563	.0015736	.0016708	.0164218	-.001532
Stddev	.0005860	.0015370	.0007199	.0019620	.0022553	.0031993	.001504
%RSD	41.42673	544.5511	68.15654	124.6834	134.9834	19.48181	98.16019
#1	.0016396	-.000453	.0018875	.0036793	.0012202	.0138972	-.002401
#2	.0018544	-.000749	.0006274	-.000203	.0041175	.0200197	.000204
#3	.0007493	.002049	.0006540	.001245	-.000325	.0153484	-.002399

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000645	.0000174	.0036153	.0010948	.0001756	-.000161	.0215796
Stddev	.0000123	.0000583	.0097502	.0004704	.0001628	.000161	.0043429
%RSD	19.05496	334.5155	269.6907	42.96171	92.70687	100.1144	20.12505
#1	.0000561	.0000665	.0116275	.0011450	.0001955	.000015	.0190530
#2	.0000587	-.000047	.0064592	.0006014	.0003276	-.000302	.0265943
#3	.0000786	.000033	-.007241	.0015381	.0000038	-.000196	.0190915

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001230	-.018990	.0008039	.0001447	-.017148	-.000597	.0003332
Stddev	.0000474	.015473	.0001397	.0003073	.018648	.001121	.0000875
%RSD	38.56352	81.47812	17.38000	212.2714	108.7497	187.6038	26.26732
#1	.0001316	-.010640	.0008499	-.000126	-.037917	.000515	.0003786
#2	.0001656	-.036843	.0006470	.000081	-.011689	-.000582	.0002323
#3	.0000719	-.009486	.0009149	.000479	-.001838	-.001726	.0003886

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202597	.0030243	.0020313	-.000133	.0001192	-.002249	-.001911
Stddev	.0288708	.0007230	.0003158	.000137	.0001933	.005446	.000795
%RSD	142.5038	23.90716	15.54565	102.8345	162.2531	242.1085	41.59542
#1	-.011344	.0038590	.0019776	-.000101	.0003285	-.005783	-.002757
#2	.026873	.0025893	.0023704	-.000283	-.000053	-.004987	-.001798
#3	.045250	.0026247	.0017457	-.000015	.000081	.004022	-.001179

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168215BL Acquired: 6/2/2025 17:21:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0027511	.0024847	.0001046
Stddev	.0024591	.0003535	.0000687
%RSD	89.38824	14.22472	65.64213
#1	.0001362	.0028901	.0001838
#2	.0050173	.0022411	.0000616
#3	.0030998	.0023229	.0000684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3143.273	66431.38	11687.54	2323.595	4285.204
Stddev	10.266	167.68	307.32	4.637	12.159
%RSD	.3265981	.2524138	2.629488	.1995622	.2837458
#1	3145.500	66529.83	11797.01	2328.357	4290.178
#2	3132.076	66526.54	11340.47	2323.335	4271.347
#3	3152.242	66237.77	11925.14	2319.094	4294.088

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168215BS Acquired: 6/2/2025 17:25:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8191330**	**1.989094**	**.9789848**	**2.089255**	**.8390420**	**1.995484**
Stddev	.0018513	.035073	.0019392	.003572	.0048520	.027595
%RSD	.2260069	1.763279	.1980787	.1709592	.5782793	1.382867
#1	.8198388	1.985338	.9794453	2.085956	.8402534	1.979613
#2	.8170326	2.025894	.9806523	2.093048	.8431736	2.027348
#3	.8205275	1.956050	.9768569	2.088762	.8336991	1.979492

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1873579**	**.2025598**	**.2008946**	**1.007088**	**.4162830**	**.2006075**
Stddev	.0038015	.0028873	.0001604	.021850	.0007102	.0000858
%RSD	2.028989	1.425425	.0798315	2.169648	.1706110	.0427751
#1	.1843537	.2012237	.2007094	1.006910	.4171028	.2007061
#2	.1916317	.2058732	.2009904	1.029027	.4158931	.2005674
#3	.1860884	.2005825	.2009839	.985328	.4158531	.2005492

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3186814**	**3.048600**	**.1969099**	**1.948498**	**.5077407**	**.0753402**
Stddev	.0006047	.013456	.0035895	.032522	.0002274	.0004142
%RSD	.1897489	.4413881	1.822927	1.669080	.0447792	.5497302
#1	.3181309	3.035399	.1931988	1.916664	.5075667	.0749329
#2	.3193286	3.048104	.2003640	1.981667	.5076575	.0753268
#3	.3185847	3.062298	.1971668	1.947163	.5079980	.0757609

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.764653**	**.2937979**	**.2055378**	**9.682945**	**.2906988**	**.4251591**
Stddev	.036575	.0046569	.0010663	.064669	.0053169	.0010684
%RSD	1.322953	1.585075	.5187970	.6678650	1.829015	.2512890
#1	2.727146	.2915387	.2043781	9.637397	.2875554	.4246998
#2	2.766593	.2991534	.2057593	9.654473	.2968377	.4263803
#3	2.800219	.2907015	.2064759	9.756964	.2877033	.4243971

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168215BS Acquired: 6/2/2025 17:25:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7078484	.1959503	.8602628	6.132360	F -.002891	.2004098
Stddev	.0017950	.0023659	.0066372	.017610	.002173	.0027723
%RSD	.2535912	1.207401	.7715279	.2871619	75.15445	1.383289
#1	.7069902	.1943446	.8666968	6.125386	-.005085	.1981312
#2	.7099115	.1986673	.8534396	6.152389	-.002850	.2034962
#3	.7066436	.1948391	.8606519	6.119305	-.000739	.1996020

Elem	Sr4077
Units	ppm
Avg	.1900734
Stddev	.0024724
%RSD	1.300775
#1	.1881011
#2	.1928471
#3	.1892718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3129.632	63679.00	12090.49	2260.966	4262.596
Stddev	6.304	61.61	190.39	5.093	7.025
%RSD	.2014151	.0967490	1.574738	.2252573	.1647981
#1	3135.722	63720.55	12172.96	2259.092	4270.198
#2	3130.041	63608.21	11872.77	2257.076	4261.247
#3	3123.134	63708.23	12225.75	2266.731	4256.344

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168200BL Acquired: 6/2/2025 17:29:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011792	.0003730	.0007464	-.000071	.0016993	.0092957	-.002023
Stddev	.0009240	.0016160	.0013819	.002657	.0009487	.0024666	.000492
%RSD	78.35678	433.2268	185.1531	3767.629	55.82642	26.53495	24.34325
#1	.0007852	.0020636	.0023090	-.002319	.0023599	.0076628	-.002227
#2	.0022348	-.001156	-.000315	.002861	.0006123	.0080912	-.002380
#3	.0005175	.000212	.000245	-.000754	.0021257	.0121332	-.001461

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000553	.0000774	-.006940	.0001968	.0001620	-.000129	.0116124
Stddev	.0000292	.0000438	.001944	.0002993	.0001891	.000201	.0020514
%RSD	52.90810	56.58576	28.01098	152.0792	116.6781	155.7475	17.66572
#1	.0000392	.0000688	-.006618	-.000148	.0003553	-.000332	.0130045
#2	.0000890	.0000386	-.005177	.000355	.0001534	-.000127	.0092566
#3	.0000376	.0001250	-.009025	.000384	-.000023	.000071	.0125761

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002081	.0016106	.0003476	.0001489	-.061047	.0003575	.0000600
Stddev	.0000969	.0197962	.0001504	.0001397	.017873	.0040293	.0004250
%RSD	46.56986	1229.084	43.27922	93.85278	29.27785	1127.139	708.5625
#1	.0001803	.0237951	.0002710	.0003100	-.058181	-.000263	-.000131
#2	.0001281	-.004709	.0005209	.0000755	-.080181	-.003326	-.000236
#3	.0003158	-.014254	.0002508	.0000611	-.044780	.004661	.000547

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009566	.0008273	.0012527	-.000389	-.000236	-.003941	-.001285
Stddev	.025898	.0003998	.0001423	.000591	.000131	.008998	.002025
%RSD	270.7182	48.33005	11.36155	151.9400	55.50082	228.3273	157.5340
#1	-.022771	.0008447	.0010891	.000274	-.000308	.006174	.000427
#2	.020272	.0012181	.0013214	-.000863	-.000315	-.006940	-.003520
#3	-.026201	.0004190	.0013476	-.000579	-.000085	-.011056	-.000763

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168200BL Acquired: 6/2/2025 17:29:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0015744	.0005023	.0000795
Stddev	.0033359	.0015134	.0000287
%RSD	211.8882	301.2790	36.12892
#1	.0013873	-.000025	.0000538
#2	.0049999	.002209	.0001105
#3	-.001664	-.000677	.0000743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3170.391	67400.52	12101.61	2341.088	4338.674
Stddev	12.064	117.57	55.45	9.883	19.339
%RSD	.3805284	.1744274	.4582176	.4221530	.4457323
#1	3184.176	67444.17	12105.05	2352.485	4360.496
#2	3161.759	67267.38	12044.52	2334.884	4323.658
#3	3165.239	67490.02	12155.26	2335.894	4331.869

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168200BS Acquired: 6/2/2025 17:34:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7989730**	**1.977993**	**.9609739**	**2.021857**	**.8301078**	**1.981367**
Stddev	.0078567	.031540	.0067393	.013243	.0048815	.002566
%RSD	.9833505	1.594571	.7013025	.6549789	.5880532	.1295012
#1	.7922132	1.952116	.9567248	2.006897	.8291939	1.981984
#2	.8075928	2.013126	.9687445	2.032079	.8353817	1.983568
#3	.7971130	1.968736	.9574525	2.026595	.8257480	1.978549

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1834213**	**.1997936**	**.1964462**	**.9945224**	**.4077836**	**.1971704**
Stddev	.0015474	.0010958	.0013415	.0097854	.0019046	.0013544
%RSD	.8436339	.5484561	.6828993	.9839347	.4670678	.6869047
#1	.1817170	.1992770	.1954259	.9848682	.4086705	.1961216
#2	.1838089	.2010521	.1979658	1.004434	.4090830	.1986995
#3	.1847382	.1990515	.1959468	.994265	.4055973	.1966901

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3135460**	**2.898086**	**.1930250**	**1.919921**	**.4977724**	**.0734267**
Stddev	.0023627	.016343	.0010362	.010333	.0025893	.0005343
%RSD	.7535334	.5639376	.5368403	.5382182	.5201752	.7276004
#1	.3115030	2.890695	.1918560	1.931426	.4958110	.0729560
#2	.3161333	2.916819	.1938305	1.916907	.5007074	.0740074
#3	.3130018	2.886744	.1933885	1.911430	.4967989	.0733167

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.705906**	**.2906434**	**.2043204**	**9.190467**	**.2852488**	**.4249045**
Stddev	.024897	.0012630	.0013650	.046119	.0003442	.0029703
%RSD	.9201097	.4345639	.6680765	.5018100	.1206666	.6990510
#1	2.677165	.2920113	.2045051	9.177441	.2856457	.4224845
#2	2.720851	.2903975	.2055837	9.241697	.2850672	.4282193
#3	2.719702	.2895215	.2028725	9.152262	.2850333	.4240095

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168200BS Acquired: 6/2/2025 17:34:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7042991	.1937510	.8326410	5.896878	F -.002056	.1968714
Stddev	.0058808	.0011473	.0081081	.058943	.004532	.0012147
%RSD	.8349911	.5921475	.9737771	.9995606	220.3805	.6169867
#1	.7000376	.1931199	.8411131	5.857495	-.001778	.1954846
#2	.7110085	.1950753	.8318560	5.964642	-.006721	.1977466
#3	.7018511	.1930578	.8249540	5.868497	.002330	.1973829

Elem	Sr4077
Units	ppm
Avg	.1866222
Stddev	.0006593
%RSD	.3533039
#1	.1858826
#2	.1871485
#3	.1868356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3168.482	65248.56	12027.26	2281.994	4350.638
Stddev	13.079	308.04	13.00	17.672	21.029
%RSD	.4127947	.4721033	.1080986	.7744279	.4833630
#1	3181.166	65100.79	12037.19	2278.477	4370.384
#2	3155.040	65042.25	12012.54	2266.345	4328.526
#3	3169.240	65602.65	12032.04	2301.161	4353.004

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV05 Acquired: 6/2/2025 17:38:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.823577**	**4.824085**	**4.758138**	**4.846633**	**4.844898**	**9.686333**	**9.459246**
Stddev	.019713	.012588	.010538	.026029	.022776	.055500	.028179
%RSD	.4086771	.2609496	.2214706	.5370614	.4700980	.5729741	.2978998
#1	4.815558	4.833532	4.759199	4.822838	4.823823	9.706006	9.446891
#2	4.809138	4.809794	4.747110	4.842626	4.841811	9.623676	9.439355
#3	4.846036	4.828929	4.768106	4.874433	4.869059	9.729318	9.491492

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2401050**	**2.383456**	**23.68995**	**.9907022**	**2.381045**	**1.214755**	**4.805861**
Stddev	.0004913	.005512	.12919	.0035002	.004742	.004098	.022623
%RSD	.2046105	.2312735	.5453196	.3533037	.1991594	.3373407	.4707294
#1	.2402819	2.385823	23.69608	.9871129	2.382810	1.214197	4.793338
#2	.2395497	2.377156	23.55781	.9941060	2.375674	1.210965	4.831976
#3	.2404833	2.387390	23.81597	.9908876	2.384652	1.219104	4.792269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.334555**	**23.82474**	**2.382144**	**1.220566**	**23.60008**	**2.387310**	**2.424713**
Stddev	.009503	.11938	.004302	.003910	.04789	.014680	.012447
%RSD	.4070762	.5010560	.1805954	.3203803	.2029320	.6149050	.5133528
#1	2.340950	23.81688	2.383692	1.216071	23.57426	2.383460	2.411750
#2	2.323635	23.70949	2.377282	1.223186	23.65534	2.374939	2.425817
#3	2.339081	23.94785	2.385458	1.222441	23.57064	2.403531	2.436571

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.82342**	**4.750850**	**4.964151**	**4.780513**	**4.730899**	**4.900576**	**4.812639**
Stddev	.04200	.026235	.016636	.008424	.022080	.036891	.009889
%RSD	.1762830	.5522130	.3351142	.1762223	.4667259	.7527813	.2054711
#1	23.77582	4.756124	4.956156	4.783022	4.742077	4.863673	4.810865
#2	23.85526	4.722378	4.953023	4.771119	4.705465	4.900601	4.803758
#3	23.83919	4.774046	4.983275	4.787397	4.745155	4.937454	4.823295

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV05 Acquired: 6/2/2025 17:38:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.630618**	**4.732015**	**4.758523**
Stddev	.005687	.019829	.038052
%RSD	.1228032	.4190490	.7996584
#1	4.636357	4.745725	4.780749
#2	4.624985	4.709278	4.714585
#3	4.630513	4.741042	4.780234

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3125.356**	**62570.99**	**11699.81**	**2208.236**	**4146.104**
Stddev	6.369	229.87	55.58	7.407	3.118
%RSD	.2037965	.3673706	.4750886	.3354072	.0752117
#1	3132.643	62833.22	11703.91	2216.753	4148.613
#2	3122.577	62404.33	11753.23	2203.298	4142.613
#3	3120.849	62475.41	11642.29	2204.658	4147.086

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB05 Acquired: 6/2/2025 17:42:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0005454	-.000044	.0013349	.0007367	.0014629	.0098216	-.000831
Stddev	.0018016	.000572	.0001942	.0023505	.0013271	.0045428	.000696
%RSD	330.2926	1306.776	14.54889	319.0445	90.71869	46.25252	83.72332
#1	-.001534	.000282	.0011645	.0030693	.0022871	.0068663	-.000140
#2	.001537	-.000704	.0012940	-.001631	-.000068	.0150525	-.001531
#3	.001634	.000291	.0015464	.000772	.002170	.0075462	-.000821

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000243	.0001149	.0081788	.0005864	.0002196	.0039486	.0184630
Stddev	.0000252	.0000386	.0065212	.0002254	.0000983	.0001611	.0023327
%RSD	103.6119	33.63319	79.73263	38.42875	44.74586	4.080307	12.63422
#1	.0000307	.0001309	.0153788	.0006755	.0001066	.0040983	.0209976
#2	.0000457	.0001430	.0064886	.0007536	.0002671	.0039695	.0179853
#3	-.000003	.0000708	.0026692	.0003301	.0002851	.0037781	.0164062

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008699	.0002447	.0002700	.0000825	-.076999	-.001140	.0025816
Stddev	.0004879	.0197708	.0002850	.0001706	.012389	.001841	.0004007
%RSD	56.08809	8080.242	105.5495	206.8029	16.09008	161.6043	15.52193
#1	.0005745	.0066834	.0005957	.0000200	-.083979	-.003264	.0024946
#2	.0014331	.0159935	.0000664	-.000048	-.062695	-.000154	.0022316
#3	.0006022	-.021943	.0001479	.000275	-.084324	-.000001	.0030187

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009769	.0073641	.0012724	.0025456	.0004395	.0092311	-.002639
Stddev	.0481786	.0006809	.0000811	.0010597	.0011354	.0009081	.000979
%RSD	4931.613	9.246681	6.374774	41.62960	258.3418	9.837243	37.10671
#1	-.054189	.0079995	.0012254	.0037610	-.000040	.0102739	-.001803
#2	.034783	.0066453	.0012257	.0020612	.001736	.0086149	-.003716
#3	.022336	.0074474	.0013661	.0018146	-.000377	.0088043	-.002397

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB05 Acquired: 6/2/2025 17:42:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001355	.0017559	.0002560
Stddev	.003321	.0012669	.0001177
%RSD	245.1018	72.15025	45.98195
#1	-.000913	.0004957	.0001201
#2	.001723	.0017426	.0003216
#3	-.004875	.0030295	.0003263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3135.895	63416.74	11635.26	2267.083	4272.975
Stddev	4.481	146.26	26.94	9.393	2.151
%RSD	.1429052	.2306398	.2315248	.4143214	.0503497
#1	3132.986	63517.50	11607.39	2269.309	4271.354
#2	3141.056	63248.98	11661.15	2256.777	4275.416
#3	3133.643	63483.75	11637.25	2275.163	4272.155

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-01 Acquired: 6/2/2025 17:47:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0766520	-.031539	.5306441	-.129267	-.014687	72.02466	.5337854
Stddev	.0006166	.004490	.0020097	.001129	.003790	.13322	.0016587
%RSD	.8043450	14.23730	.3787371	.8730657	25.80603	.1849597	.3107501
#1	.0761930	-.034387	.5283959	-.129136	-.011507	72.15748	.5355639
#2	.0764102	-.033868	.5322666	-.130455	-.013673	72.02546	.5322805
#3	.0773528	-.026363	.5312697	-.128209	-.018882	71.89105	.5335117

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087654	-.001802	24.55358	.1861311	.0593395	.4113031	473.5927
Stddev	.0001115	.000570	.06367	.0008065	.0000604	.0024241	3.1796
%RSD	1.271633	31.60222	.2593025	.4332713	.1018354	.5893743	.6713867
#1	.0088941	-.001814	24.62691	.1866759	.0592908	.4132075	474.1406
#2	.0086977	-.001227	24.51232	.1865127	.0594071	.4121275	470.1748
#3	.0087045	-.002366	24.52153	.1852046	.0593207	.4085743	476.4629

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088034	10.73578	.0851296	.0051574	3.207323	.3618556	.5068937
Stddev	.004300	.03158	.0004563	.0016627	.002023	.0016324	.0007251
%RSD	.2059432	.2941631	.5360426	32.23911	.0630626	.4511061	.1430513
#1	2.090145	10.75351	.0846144	.0049981	3.209626	.3601264	.5062249
#2	2.083087	10.69932	.0854830	.0035801	3.205837	.3620707	.5067919
#3	2.090872	10.75451	.0852915	.0068940	3.206505	.3633698	.5076643

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.768724	-.033423	.0015534	.0419895	1.682653	7.420570	3.274780
Stddev	.010160	.009753	.0000414	.0011135	.004961	.029047	.008460
%RSD	.1761255	29.18181	2.666525	2.651822	.2948152	.3914445	.2583241
#1	5.777067	-.037892	.0015790	.0422195	1.687574	7.432823	3.280256
#2	5.771696	-.040140	.0015056	.0407790	1.677654	7.441482	3.279047
#3	5.757410	-.022235	.0015756	.0429700	1.682730	7.387403	3.265036

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-01 Acquired: 6/2/2025 17:47:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.749054	.2348952	-.319152
Stddev	.004765	.0003464	.002959
%RSD	.2724544	.1474605	.9270576
#1	1.743940	.2348008	-.319277
#2	1.753370	.2346058	-.316132
#3	1.749852	.2352789	-.322046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3271.866	66205.47	13503.14	2349.252	4077.214
Stddev	12.382	164.90	22.31	3.280	14.454
%RSD	.3784318	.2490674	.1652324	.1396178	.3545114
#1	3261.035	66361.74	13482.36	2349.483	4067.275
#2	3269.198	66033.12	13526.72	2352.411	4070.572
#3	3285.364	66221.55	13500.36	2345.863	4093.796

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-02 Acquired: 6/2/2025 17:51:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0986878	-.020751	1.298302	-.084156	-.010415	47.79884	.4024412
Stddev	.0004287	.001549	.005005	.008451	.000794	.10084	.0019392
%RSD	.4344299	7.466783	.3854728	10.04211	7.628100	.2109591	.4818542
#1	.0982164	-.019253	1.295948	-.088014	-.010028	47.77891	.4003180
#2	.0990545	-.022347	1.294908	-.089989	-.009888	47.70946	.4041189
#3	.0987926	-.020651	1.304049	-.074464	-.011328	47.90815	.4028865

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080894	-.002093	15.30166	.1748838	.0303184	.5427387	344.9062
Stddev	.0000222	.000504	.00574	.0025343	.0004892	.0023887	5.2866
%RSD	.2742753	24.07733	.0375219	1.449146	1.613654	.4401286	1.532771
#1	.0080914	-.001671	15.30517	.1730977	.0297828	.5444146	341.5092
#2	.0081105	-.001956	15.30477	.1737694	.0304308	.5400035	342.2123
#3	.0080663	-.002651	15.29503	.1777844	.0307417	.5437981	350.9972

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.691138	6.271442	.0596071	.0058580	2.841761	.3363544	1.464560
Stddev	.006803	.031048	.0000434	.0000990	.060435	.0015826	.019541
%RSD	.4022915	.4950660	.0728690	1.689439	2.126678	.4705253	1.334241
#1	1.683618	6.238913	.0595722	.0059718	2.792658	.3358588	1.454731
#2	1.692932	6.274655	.0595935	.0057917	2.823368	.3350789	1.451885
#3	1.696864	6.300758	.0596558	.0058106	2.909255	.3381256	1.487064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.667536	.0008018	.0023309	.1117263	.8340338	6.262509	5.811121
Stddev	.113395	.0133837	.0000263	.0012469	.0018975	.106390	.025712
%RSD	2.000789	1669.208	1.127946	1.116024	.2275035	1.698838	.4424546
#1	5.598522	-.006842	.0023032	.1114217	.8319784	6.196276	5.801629
#2	5.605677	-.007008	.0023555	.1106600	.8344044	6.206021	5.791505
#3	5.798408	.016256	.0023342	.1130973	.8357187	6.385228	5.840229

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-02 Acquired: 6/2/2025 17:51:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.844238	.1965852	-.222004
Stddev	.005885	.0026350	.004651
%RSD	.3191160	1.340384	2.095116
#1	1.850244	.1952000	-.219196
#2	1.838481	.1949318	-.219444
#3	1.843989	.1996239	-.227373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.573	67232.33	13646.55	2342.890	4157.558
Stddev	14.403	921.39	19.19	29.464	20.883
%RSD	.4424190	1.370453	.1406514	1.257601	.5022905
#1	3258.749	67730.51	13627.74	2356.648	4164.116
#2	3268.124	67797.37	13666.11	2362.959	4174.376
#3	3239.847	66169.10	13645.82	2309.063	4134.184

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-03 Acquired: 6/2/2025 17:55:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0745625	-.012968	2.012501	-.054394	-.008332	68.31083	.8084096
Stddev	.0011187	.002588	.007233	.002202	.001676	.81490	.0093064
%RSD	1.500411	19.96035	.3594244	4.047929	20.11280	1.192927	1.151203
#1	.0748485	-.015909	2.005323	-.055489	-.006521	68.87155	.8149284
#2	.0755105	-.011039	2.012389	-.055834	-.009827	67.37606	.7977516
#3	.0733286	-.011954	2.019789	-.051860	-.008649	68.68489	.8125486

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065915	-.002653	20.90613	.1515662	.0347032	.1749659	241.3097
Stddev	.0001508	.000170	.20663	.0001353	.0003445	.0002781	.4568
%RSD	2.287215	6.394128	.9883672	.0892457	.9926052	.1589464	.1893007
#1	.0066629	-.002816	21.01051	.1517186	.0345350	.1751215	241.3566
#2	.0064184	-.002666	20.66814	.1514604	.0344753	.1751313	240.8313
#3	.0066934	-.002478	21.03976	.1515196	.0350995	.1746448	241.7413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.460678	4.834944	.0637081	.0046068	6.865527	.3009274	.3331987
Stddev	.016369	.084017	.0005151	.0005254	.021269	.0040619	.0009518
%RSD	1.120668	1.737700	.8086012	11.40582	.3097964	1.349781	.2856585
#1	1.472386	4.889696	.0637454	.0052068	6.842109	.3050886	.3324341
#2	1.441973	4.738210	.0642036	.0042290	6.883645	.2969728	.3328972
#3	1.467675	4.876926	.0631754	.0043845	6.870827	.3007207	.3342647

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.987500	.0112061	.0060294	.0426056	.6151324	5.860508	3.976970
Stddev	.038572	.0051426	.0001120	.0001118	.0113219	.026172	.015867
%RSD	.3862075	45.89125	1.857397	.2623292	1.840559	.4465838	.3989652
#1	10.00811	.0089351	.0061485	.0427198	.6239391	5.890611	3.960257
#2	9.94300	.0170932	.0060133	.0424964	.6023615	5.847771	3.978828
#3	10.01139	.0075899	.0059263	.0426006	.6190967	5.843144	3.991827

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-03 Acquired: 6/2/2025 17:55:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.629386	.2003125	-.072348
Stddev	.012353	.0009587	.001367
%RSD	.3403510	.4785955	1.889237
#1	3.617241	.2007293	-.071211
#2	3.641937	.1992159	-.073864
#3	3.628979	.2009922	-.071967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3211.233	65127.29	13348.29	2333.949	4056.637
Stddev	3.867	55.47	121.72	1.136	6.020
%RSD	.1204247	.0851678	.9118892	.0486834	.1484107
#1	3215.698	65109.00	13260.02	2332.644	4063.214
#2	3209.011	65083.28	13487.15	2334.718	4051.398
#3	3208.989	65189.59	13297.70	2334.486	4055.299

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-04 Acquired: 6/2/2025 17:59:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0334776	-.021112	.0940361	-.083012	-.010084	25.53196	.1150860
Stddev	.0020152	.000456	.0035710	.004269	.000736	.05155	.0002572
%RSD	6.019670	2.161893	3.797455	5.142661	7.303804	.2019015	.2234472
#1	.0357853	-.021353	.0908425	-.078653	-.010734	25.53975	.1148585
#2	.0320649	-.020586	.0978918	-.087185	-.010233	25.47696	.1153650
#3	.0325826	-.021397	.0933741	-.083197	-.009284	25.57917	.1150344

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053227	-.001439	5.632247	.1790438	.0290286	.2206125	281.4104
Stddev	.0000034	.000776	.028687	.0009953	.0005779	.0031272	1.4662
%RSD	.0639288	53.96707	.5093329	.5559197	1.990823	1.417501	.5210293
#1	.0053220	-.001964	5.647781	.1783645	.0284969	.2174808	282.2304
#2	.0053264	-.000547	5.599143	.1801863	.0296437	.2237352	279.7176
#3	.0053197	-.001805	5.649817	.1785804	.0289451	.2206216	282.2832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3433207	2.708980	.0283777	.0003544	4.010903	.1943848	.1377165
Stddev	.0012816	.018371	.0002380	.0004516	.027466	.0015961	.0014900
%RSD	.3733074	.6781470	.8385948	127.4289	.6847758	.8211029	1.081897
#1	.3445196	2.688937	.0282170	.0008278	4.042351	.1931605	.1384407
#2	.3419698	2.712985	.0282651	-.000072	3.998730	.1938041	.1360028
#3	.3434727	2.725018	.0286511	.000307	3.991628	.1961900	.1387058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.742137	-.115242	-.001022	.0108674	.8699300	5.323443	1.044050
Stddev	.026359	.006363	.000377	.0002681	.0016099	.023819	.007735
%RSD	.7043841	5.521472	36.89120	2.467356	.1850642	.4474340	.7408598
#1	3.753938	-.112623	-.000788	.0106950	.8716364	5.325900	1.039957
#2	3.711940	-.122497	-.000820	.0107310	.8697157	5.298491	1.052972
#3	3.760535	-.110607	-.001456	.0111764	.8684380	5.345938	1.039222

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-04 Acquired: 6/2/2025 17:59:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.899358	.1315062	-.195097
Stddev	.031338	.0011072	.001321
%RSD	1.080847	.8419201	.6769721
#1	2.872602	.1317413	-.195835
#2	2.933834	.1303004	-.193573
#3	2.891637	.1324771	-.195885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.085	67547.46	12890.68	2386.950	4170.005
Stddev	31.054	188.03	9.58	10.803	35.846
%RSD	.9484826	.2783680	.0743175	.4525709	.8596200
#1	3300.211	67507.34	12901.53	2398.316	4198.095
#2	3239.751	67752.31	12883.38	2385.719	4129.632
#3	3282.293	67382.72	12887.15	2376.816	4182.286

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-05 Acquired: 6/2/2025 18:03:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1238574**	**-.047817**	**.2049487**	**-.176525**	**-.024642**	**43.39051**	**.1499165**
Stddev	.0017178	.002087	.0029590	.007715	.001378	.14710	.0015744
%RSD	1.386909	4.364820	1.443795	4.370395	5.593003	.3390201	1.050168
#1	.1219737	-.048552	.2015319	-.172264	-.025132	43.50101	.1517095
#2	.1253374	-.045462	.2066648	-.171880	-.023086	43.22354	.1487599
#3	.1242611	-.049438	.2066494	-.185431	-.025709	43.44699	.1492802

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112582**	**.0037941**	**16.41954**	**.2543813**	**.0458149**	**.2169720**	**583.2572**
Stddev	.0001566	.0019911	.14095	.0015426	.0001420	.0043307	8.2379
%RSD	1.390623	52.47867	.8584331	.6064009	.3098848	1.995962	1.412393
#1	.0112749	.0019159	16.52499	.2558396	.0456880	.2124881	591.9408
#2	.0110939	.0035848	16.25945	.2545379	.0457884	.2172969	582.2784
#3	.0114057	.0058815	16.47417	.2527664	.0459682	.2211311	575.5525

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.219538**	**7.321830**	**.0493863**	**-.002179**	**2.138982**	**.4415996**	**.4192286**
Stddev	.007376	.024430	.0006448	.001106	.027691	.0016479	.0022382
%RSD	.6048391	.3336646	1.305614	50.73423	1.294590	.3731740	.5338795
#1	1.226168	7.349235	.0488187	-.001278	2.168833	.4431768	.4181391
#2	1.211593	7.302333	.0492527	-.001847	2.133981	.4417330	.4177438
#3	1.220853	7.313923	.0500874	-.003413	2.114132	.4398890	.4218029

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.358765**	**^ *****	**-.001408**	**.0159313**	**1.153446**	**7.514716**	**2.813646**
Stddev	.030207	-----	.000179	.0007597	.006057	.060205	.022006
%RSD	.6930127	-----	12.70137	4.768522	.5251432	.8011548	.7821300
#1	4.393268	-.255592	-.001383	.0155138	1.159580	7.583628	2.796712
#2	4.337085	-.274971	-.001242	.0154720	1.147469	7.488193	2.805706
#3	4.345942	^ -----	-.001597	.0168082	1.153291	7.472327	2.838521

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-05 Acquired: 6/2/2025 18:03:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.045137	.2580998	-.485491
Stddev	.020307	.0032724	.007886
%RSD	1.942971	1.267880	1.624240
#1	1.029485	.2618153	-.493654
#2	1.037843	.2568377	-.484901
#3	1.068084	.2556464	-.477916

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3336.111	70214.49	13534.44	2462.683	4108.808
Stddev	15.063	556.57	30.65	15.036	20.551
%RSD	.4515180	.7926727	.2264412	.6105476	.5001638
#1	3347.750	69607.30	13508.08	2445.408	4121.517
#2	3341.486	70335.69	13568.07	2469.824	4119.808
#3	3319.098	70700.47	13527.17	2472.818	4085.099

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-06 Acquired: 6/2/2025 18:07:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0970151**	**-.035260**	**1.150403**	**-.094265**	**.0042814**	**136.4466**	**.8038127**
Stddev	.0012796	.003909	.002742	.002803	.0042836	.0703	.0018280
%RSD	1.318940	11.08603	.2383862	2.973900	100.0509	.0515361	.2274111
#1	.0955802	-.038457	1.151533	-.092222	-.000538	136.4627	.8058753
#2	.0974272	-.036421	1.152400	-.097461	.007654	136.3696	.8031695
#3	.0980378	-.030902	1.147276	-.093111	.005729	136.5075	.8023932

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085927**	**.0109718**	**442.1439**	**.3686007**	**.1627994**	**.8143640**	**319.9097**
Stddev	.0000243	.0001001	1.2677	.0009149	.0004162	.0014065	.3667
%RSD	.2825881	.9127133	.2867223	.2482221	.2556764	.1727075	.1146165
#1	.0085646	.0110164	442.5830	.3689822	.1631731	.8137344	319.6028
#2	.0086077	.0110419	440.7150	.3675567	.1628743	.8133823	319.8105
#3	.0086056	.0108571	443.1336	.3692632	.1623508	.8159753	320.3158

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.389689**	**94.63627**	**.3886727**	**.0112488**	**18.61143**	**.7086380**	**1.307677**
Stddev	.004088	.05858	.0001981	.0004095	.04723	.0021074	.006849
%RSD	.0931172	.0619028	.0509633	3.640508	.2537840	.2973889	.5237725
#1	4.394105	94.56894	.3884442	.0113330	18.66206	.7062721	1.300830
#2	4.388924	94.67562	.3887944	.0116098	18.56856	.7103140	1.307672
#3	4.386038	94.66425	.3887796	.0108038	18.60367	.7093278	1.314529

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.59815**	**.1425177**	**.0218692**	**.0531210**	**7.670161**	**5.924520**	**7.462786**
Stddev	.03624	.0027910	.0000554	.0013244	.011815	.016145	.012246
%RSD	.2482343	1.958358	.2534986	2.493204	.1540332	.2725048	.1640897
#1	14.63906	.1400077	.0218318	.0533635	7.680849	5.923584	7.469787
#2	14.58529	.1420221	.0219329	.0516920	7.672159	5.908864	7.448646
#3	14.57010	.1455233	.0218430	.0543073	7.657474	5.941113	7.469925

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-06 Acquired: 6/2/2025 18:07:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	10.12644	.2277422	1.605874
Stddev	.03237	.0008552	.007485
%RSD	.3196436	.3755013	.4661213
#1	10.14217	.2287064	1.601561
#2	10.08921	.2270754	1.601542
#3	10.14793	.2274449	1.614517

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3210.242	65348.20	13661.62	2303.327	3576.319
Stddev	4.943	218.66	29.96	15.454	3.960
%RSD	.1539728	.3346109	.2192881	.6709471	.1107168
#1	3214.665	65589.18	13693.10	2313.404	3580.682
#2	3211.154	65292.97	13658.30	2311.043	3575.321
#3	3204.907	65162.45	13633.46	2285.535	3572.954

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-07 Acquired: 6/2/2025 18:12:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0690641	-.018278	.2796973	-.076337	-.011544	65.65975	.3418895
Stddev	.0008732	.004527	.0019941	.002895	.000631	.70559	.0017691
%RSD	1.264314	24.76750	.7129339	3.792097	5.469118	1.074622	.5174380
#1	.0681054	-.013906	.2774120	-.073377	-.010824	65.91838	.3431712
#2	.0698138	-.022945	.2810829	-.076471	-.011808	64.86134	.3398712
#3	.0692732	-.017984	.2805971	-.079162	-.012001	66.19954	.3426262

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098801	.0017552	11.88497	.1853869	.0408611	.1333726	277.8288
Stddev	.0000429	.0003856	.11551	.0010208	.0003068	.0002249	.2422
%RSD	.4342440	21.97153	.9718993	.5506266	.7507960	.1686140	.0871665
#1	.0098948	.0021954	11.92644	.1865167	.0406823	.1336079	278.0415
#2	.0098318	.0015935	11.75444	.1845311	.0412154	.1333502	277.8798
#3	.0099138	.0014767	11.97401	.1851129	.0406857	.1331598	277.5653

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5526498	2.772916	.0559765	.0002616	6.008320	.4108167	.1847739
Stddev	.0048842	.023475	.0004646	.0002698	.021557	.0063578	.0018856
%RSD	.8837693	.8465820	.8299962	103.1358	.3587787	1.547597	1.020506
#1	.5547094	2.774711	.0564871	.0000341	6.009047	.4157126	.1860214
#2	.5470732	2.748594	.0555787	.0005597	6.029505	.4036313	.1826047
#3	.5561668	2.795441	.0558638	.0001910	5.986410	.4131063	.1856956

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.747148	-.094262	.0025312	.0164306	.3362284	4.963759	3.585565
Stddev	.034929	.009327	.0001272	.0003334	.0039071	.012958	.003354
%RSD	.6077655	9.894827	5.025135	2.028848	1.162041	.2610456	.0935518
#1	5.718783	-.097850	.0025792	.0166891	.3366608	4.970562	3.586845
#2	5.786162	-.083674	.0026274	.0165484	.3321230	4.948816	3.588091
#3	5.736499	-.101262	.0023870	.0160544	.3399012	4.971898	3.581759

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-07 Acquired: 6/2/2025 18:12:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.599469	.2115299	-.164893
Stddev	.010411	.0013888	.000936
%RSD	.1210705	.6565511	.5675936
#1	8.589621	.2127638	-.164932
#2	8.610364	.2100259	-.165808
#3	8.598422	.2118001	-.163938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3364.867	70310.70	13605.81	2503.298	3985.508
Stddev	7.091	122.17	125.40	6.690	8.208
%RSD	.2107496	.1737612	.9216423	.2672516	.2059431
#1	3356.842	70171.25	13563.11	2498.519	3977.086
#2	3367.471	70361.99	13746.99	2500.431	3993.483
#3	3370.289	70398.87	13507.35	2510.944	3985.954

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-08 Acquired: 6/2/2025 18:16:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0892879	-.029279	.5772408	-.111621	-.013298	89.61888	.7067569
Stddev	.0019855	.000671	.0103973	.003012	.000869	.25011	.0021244
%RSD	2.223672	2.292660	1.801204	2.698844	6.534735	.2790861	.3005840
#1	.0896767	-.029986	.5812444	-.114951	-.013893	89.33086	.7047252
#2	.0871368	-.028651	.5850412	-.109085	-.012301	89.74439	.7089633
#3	.0910502	-.029199	.5654369	-.110828	-.013701	89.78138	.7065821

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105102	.0042650	22.09649	.1653464	.0877995	.3580019	368.7254
Stddev	.0000769	.0010967	.03207	.0016651	.0014897	.0058816	1.9446
%RSD	.7320588	25.71293	.1451556	1.007036	1.696718	1.642898	.5273889
#1	.0105982	.0047108	22.06487	.1670891	.0885688	.3610598	370.7135
#2	.0104771	.0050685	22.12900	.1637716	.0887474	.3617247	366.8274
#3	.0104554	.0030156	22.09560	.1651785	.0860825	.3512213	368.6354

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.547275	11.52154	.1399960	-.000117	3.452175	.4371984	.4555648
Stddev	.007588	.07916	.0026472	.000964	.018105	.0024243	.0054765
%RSD	.4904140	.6870524	1.890915	822.3451	.5244512	.5545071	1.202140
#1	1.539652	11.43268	.1414660	-.001207	3.462640	.4344849	.4618595
#2	1.554828	11.54743	.1415819	.000625	3.431269	.4379592	.4529414
#3	1.547346	11.58451	.1369400	.000230	3.462615	.4391510	.4518934

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.449181	-.159067	.0036014	.1353590	2.262174	4.440067	4.875139
Stddev	.035519	.001300	.0004712	.0021598	.005520	.031312	.071811
%RSD	.5507587	.8174782	13.08373	1.595602	.2440191	.7052129	1.472995
#1	6.489327	-.158152	.0040840	.1369833	2.255871	4.471455	4.919376
#2	6.421836	-.158494	.0031425	.1361857	2.266146	4.408831	4.913759
#3	6.436382	-.160556	.0035778	.1329080	2.264505	4.439916	4.792283

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-08 Acquired: 6/2/2025 18:16:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.658988	.2187274	-.213411
Stddev	.026506	.0008166	.002091
%RSD	1.597693	.3733255	.9797123
#1	1.680772	.2193858	-.215469
#2	1.666715	.2178137	-.211289
#3	1.629478	.2189827	-.213475

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3450.091	72331.07	13716.75	2552.364	4076.683
Stddev	43.435	552.04	15.95	21.278	61.164
%RSD	1.258949	.7632133	.1163015	.8336576	1.500332
#1	3420.169	71784.02	13699.22	2528.819	4035.239
#2	3430.194	72887.97	13730.41	2570.218	4047.880
#3	3499.910	72321.23	13720.63	2558.054	4146.931

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-09 Acquired: 6/2/2025 18:20:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0149956**	**-.000305**	**.0881885**	**-.013629**	**-.003621**	**77.43143**	**.3500026**
Stddev	.0015973	.000569	.0029299	.003816	.000912	.44676	.0036792
%RSD	10.65169	186.4679	3.322341	28.00230	25.18890	.5769782	1.051205
#1	.0154446	-.000899	.0903860	-.013518	-.004306	77.27018	.3491351
#2	.0132218	-.000252	.0848620	-.009869	-.003972	77.93644	.3540381
#3	.0163203	.000235	.0893174	-.017499	-.002586	77.08768	.3468346

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036289**	**-.000397**	**9.698359**	**.1756246**	**.0132221**	**.0913198**	**53.72811**
Stddev	.0000871	.000162	.073849	.0007690	.0001263	.0015084	.24262
%RSD	2.399548	40.76917	.7614602	.4378960	.9548131	1.651777	.4515699
#1	.0035767	-.000426	9.680773	.1762867	.0130840	.0906344	53.80580
#2	.0037294	-.000542	9.779413	.1758060	.0132507	.0902757	53.92237
#3	.0035805	-.000223	9.634889	.1747811	.0133316	.0930492	53.45616

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2353658**	**9.987707**	**.0418186**	**.0004737**	**4.963685**	**.2343307**	**.0941651**
Stddev	.0025412	.046362	.0008613	.0005799	.012583	.0013630	.0006849
%RSD	1.079673	.4641872	2.059583	122.4231	.2534965	.5816595	.7272938
#1	.2354335	9.981763	.0416068	-.000020	4.971855	.2356148	.0936218
#2	.2378725	10.03675	.0410829	.000329	4.970005	.2344767	.0949344
#3	.2327915	9.94460	.0427660	.001112	4.949195	.2329006	.0939390

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.500188**	**.0237714**	**.0013143**	**.0059599**	**.9839146**	**9.291295**	**.5811985**
Stddev	.053288	.0004020	.0004672	.0006767	.0094637	.033817	.0070656
%RSD	.6269011	1.691121	35.55062	11.35379	.9618389	.3639597	1.215687
#1	8.502731	.0239510	.0018538	.0053209	.9836111	9.322097	.5769528
#2	8.552158	.0233109	.0010395	.0066688	.9935264	9.296678	.5772879
#3	8.445674	.0240522	.0010496	.0058900	.9746064	9.255110	.5893548

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-09 Acquired: 6/2/2025 18:20:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9260550	.0746645	.0126253
Stddev	.0137758	.0008092	.0004651
%RSD	1.487584	1.083816	3.683451
#1	.9203278	.0746306	.0123390
#2	.9160666	.0754901	.0131619
#3	.9417706	.0738727	.0123751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.292	66118.91	13346.11	2393.189	4166.329
Stddev	28.655	220.51	62.42	15.206	37.105
%RSD	.8735531	.3335044	.4677091	.6353920	.8905958
#1	3281.632	65881.34	13357.23	2376.828	4166.115
#2	3308.254	66158.36	13278.87	2395.849	4203.541
#3	3250.991	66317.03	13402.22	2406.889	4129.332

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV06 Acquired: 6/2/2025 18:24:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.856979**	**4.802199**	**4.795243**	**4.888101**	**4.872635**	**9.518095**	**9.658949**
Stddev	.017027	.032260	.021532	.004666	.014677	.053350	.128726
%RSD	.3505758	.6717857	.4490278	.0954549	.3012210	.5605088	1.332710
#1	4.855107	4.776574	4.796430	4.887277	4.871735	9.462582	9.517169
#2	4.874866	4.791596	4.816156	4.893124	4.887741	9.522724	9.691185
#3	4.840966	4.838426	4.773141	4.883902	4.858428	9.568979	9.768493

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2292577**	**2.409411**	**23.82270**	**.9887019**	**2.404413**	**1.225626**	**5.172095**
Stddev	.0010956	.010879	.16054	.0055823	.013089	.003634	.030470
%RSD	.4778831	.4515409	.6738783	.5646092	.5443914	.2964806	.5891263
#1	.2282109	2.413557	23.65629	.9878955	2.409308	1.226028	5.150369
#2	.2291658	2.417608	23.83518	.9835666	2.414350	1.229042	5.158992
#3	.2303963	2.397068	23.97663	.9946435	2.389582	1.221808	5.206925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.369046**	**23.54333**	**2.409956**	**1.231460**	**25.49936**	**2.394503**	**2.388941**
Stddev	.017622	.17596	.010937	.005677	.15807	.016877	.012788
%RSD	.7438386	.7474049	.4538220	.4610106	.6199097	.7048248	.5352968
#1	2.349113	23.45052	2.413046	1.233635	25.44762	2.376081	2.395416
#2	2.375469	23.43320	2.419016	1.225016	25.37364	2.398210	2.374210
#3	2.382555	23.74627	2.397807	1.235727	25.67682	2.409219	2.397196

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.16534**	**4.522105**	**4.940058**	**4.826180**	**4.774439**	**5.205024**	**4.980432**
Stddev	.08430	.010318	.014422	.017756	.034467	.055632	.011984
%RSD	.3349741	.2281668	.2919343	.3678996	.7219163	1.068805	.2406172
#1	25.15772	4.512321	4.942177	4.825705	4.738787	5.191234	4.979207
#2	25.08512	4.521109	4.953302	4.844169	4.776942	5.157585	4.992982
#3	25.25320	4.532885	4.924694	4.808667	4.807586	5.266254	4.969108

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV06 Acquired: 6/2/2025 18:24:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.763622**	**4.641453**	**4.827137**
Stddev	.006424	.027945	.106671
%RSD	.1348493	.6020665	2.209826
#1	4.763675	4.611080	4.747433
#2	4.770019	4.647206	4.785660
#3	4.757172	4.666073	4.948317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3092.322**	**62023.27**	**12371.62**	**2235.389**	**4066.628**
Stddev	9.466	516.27	92.94	21.299	16.499
%RSD	.3061141	.8323732	.7512295	.9528170	.4057195
#1	3091.237	62104.24	12450.80	2231.089	4061.248
#2	3083.445	62494.26	12394.76	2258.511	4053.490
#3	3102.284	61471.30	12269.29	2216.569	4085.145

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB06 Acquired: 6/2/2025 18:28:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0026693**	**.0002400**	**.0025194**	**.0039912**	**.0008386**	**.0066022**	**-.001063**
Stddev	.0007525	.0027932	.0011254	.0032344	.0020807	.0045258	.000338
%RSD	28.19132	1163.725	44.66982	81.03879	248.1114	68.55077	31.81441
#1	.0021200	.0021663	.0033769	.0053141	.0030068	.0103307	-.001435
#2	.0035270	.0015172	.0012450	.0063543	.0006508	.0079092	-.000774
#3	.0023609	-.002963	.0029363	.0003050	-.001142	.0015666	-.000981

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000337**	**.0000778**	**-.006387**	**-.000207**	**.0000256**	**.0002457**	**.0037367**
Stddev	.0000388	.0000773	.010444	.000371	.0001503	.0002291	.0029300
%RSD	114.9432	99.37156	163.5373	179.4508	586.4548	93.23037	78.40992
#1	.0000111	.0000140	-.017475	-.000635	-.000001	.0001357	.0067695
#2	.0000785	.0000556	.003265	.000019	-.000109	.0000924	.0009217
#3	.0000116	.0001637	-.004950	-.000004	.000188	.0005090	.0035189

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002998**	**-.003755**	**.0001546**	**-.000111**	**-.085547**	**.0008074**	**.0017903**
Stddev	.0003208	.012989	.0005742	.000282	.015479	.0006787	.0001966
%RSD	107.0074	345.8945	371.4831	254.8614	18.09468	84.05492	10.97908
#1	.0003303	-.008806	-.000508	.000212	-.100366	.0014321	.0016661
#2	-.000035	.011001	.000486	-.000232	-.086794	.0009048	.0016879
#3	.000604	-.013461	.000486	-.000312	-.069482	.0000853	.0020169

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016554**	**.0063838**	**.0007569**	**.0006625**	**.0003384**	**.0003821**	**-.003728**
Stddev	.0057287	.0009948	.0001368	.0010097	.0007753	.0069742	.001564
%RSD	346.0674	15.58347	18.07222	152.4000	229.1314	1825.365	41.95033
#1	-.002479	.0055776	.0008896	.0017402	-.000510	.0005076	-.003000
#2	.008195	.0074956	.0006164	.0005089	.001010	.0072927	-.002661
#3	-.000749	.0060783	.0007646	-.000262	.000515	-.006654	-.005523

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB06 Acquired: 6/2/2025 18:28:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0013694	.0010615	.0001924
Stddev	.0013735	.0002580	.0000437
%RSD	100.2998	24.30738	22.70619
#1	-.000180	.0013288	.0002322
#2	.002436	.0008139	.0001456
#3	.001852	.0010419	.0001993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3138.944	64692.16	12200.34	2329.324	4240.713
Stddev	4.519	267.17	30.44	13.865	12.499
%RSD	.1439639	.4129875	.2495399	.5952549	.2947269
#1	3134.369	64662.38	12200.49	2343.228	4228.358
#2	3139.056	64441.13	12230.70	2315.498	4240.429
#3	3143.405	64972.98	12169.82	2329.246	4253.350

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-10 Acquired: 6/2/2025 18:33:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633365	-.018159	.1248045	-.087151	-.010466	59.50900	.1785528
Stddev	.0027507	.002260	.0024202	.002549	.002624	.10817	.0008395
%RSD	4.343013	12.44684	1.939192	2.925158	25.07244	.1817737	.4701505
#1	.0603769	-.015653	.1248782	-.087696	-.009020	59.61665	.1791825
#2	.0658148	-.020043	.1223483	-.084373	-.013495	59.51002	.1775997
#3	.0638178	-.018780	.1271870	-.089384	-.008883	59.40032	.1788761

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068157	-.000126	8.691241	.1399622	.0196961	.0626481	270.6919
Stddev	.0001073	.000872	.012679	.0039205	.0001054	.0025860	5.1848
%RSD	1.573912	692.8687	.1458804	2.801139	.5350427	4.127743	1.915391
#1	.0067431	-.000711	8.676603	.1424250	.0195744	.0604427	274.1043
#2	.0069390	-.000543	8.698774	.1420203	.0197555	.0620074	273.2458
#3	.0067651	.000876	8.698346	.1354411	.0197583	.0654942	264.7255

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4139447	3.721232	.0354818	-.004751	4.314094	.3579042	.1009958
Stddev	.0014102	.016808	.0002072	.000681	.089609	.0002488	.0025565
%RSD	.3406728	.4516896	.5838558	14.34202	2.077119	.0695237	2.531244
#1	.4128235	3.740583	.0352499	-.004905	4.357172	.3576699	.1039425
#2	.4155280	3.712858	.0356486	-.005343	4.374028	.3578773	.0996734
#3	.4134827	3.710256	.0355468	-.004006	4.211081	.3581654	.0993713

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.364192	-.254080	.0010763	.0145339	.6042503	9.074896	1.734611
Stddev	.083814	.009373	.0002325	.0007609	.0007366	.181304	.001932
%RSD	2.491358	3.688828	21.59865	5.235479	.1218973	1.997865	.1113884
#1	3.411845	-.247887	.0008169	.0140909	.6048454	9.192415	1.736805
#2	3.413314	-.249490	.0012659	.0140984	.6034265	9.166180	1.733863
#3	3.267415	-.264863	.0011460	.0154126	.6044788	8.866093	1.733164

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2150-10 Acquired: 6/2/2025 18:33:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.900332	.1516050	-.205179
Stddev	.004997	.0031927	.004950
%RSD	.2629635	2.105904	2.412509
#1	1.894735	.1531158	-.208231
#2	1.904347	.1537618	-.207838
#3	1.901913	.1479373	-.199468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.305	64920.75	11307.25	2333.173	4219.621
Stddev	4.283	1233.30	19.95	44.096	8.983
%RSD	.1347204	1.899700	.1764210	1.889954	.2128918
#1	3184.250	64173.18	11284.31	2299.879	4229.860
#2	3176.721	64244.84	11316.95	2316.456	4213.065
#3	3176.946	66344.24	11320.50	2383.183	4215.936

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-01 Acquired: 6/2/2025 18:37:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041242**	**-.003076**	**.0143144**	**-.005805**	**.0012649**	**10.33846**
Stddev	.0000378	.003120	.0002390	.000140	.0029963	.01026
%RSD	.9160045	101.4346	1.669955	2.405387	236.8909	.0992276
#1	.0041200	-.001236	.0145687	-.005752	-.001938	10.33754
#2	.0040887	-.006679	.0140943	-.005699	.001734	10.34915
#3	.0041639	-.001314	.0142804	-.005963	.003999	10.32870

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1402018**	**.0007267**	**.0018800**	**80.55123**	**.0189014**	**.0101239**
Stddev	.0001150	.0000220	.0001486	.19171	.0000999	.0001272
%RSD	.0820185	3.020261	7.902923	.2379958	.5286886	1.256327
#1	.1400749	.0007024	.0019237	80.66259	.0189039	.0100068
#2	.1402992	.0007326	.0020019	80.66123	.0188002	.0102592
#3	.1402313	.0007451	.0017145	80.32987	.0190000	.0101056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0358331**	**18.69873**	**1.289201**	**17.00407**	**.0221764**	**-.000075**
Stddev	.0005192	.09835	.004387	.08993	.0000897	.000300
%RSD	1.449010	.5259546	.3402983	.5288921	.4044111	400.3579
#1	.0363999	18.74029	1.292752	17.00999	.0222077	-.000391
#2	.0353804	18.58643	1.284297	17.09089	.0222462	.000205
#3	.0357190	18.76947	1.290555	16.91132	.0220752	-.000039

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**636.1383**	**.0216501**	**.1223091**	**9.174032**	**.0292981**	**.0028117**
Stddev	8.1772	.0006059	.0017289	.067137	.0009011	.0001052
%RSD	1.285442	2.798348	1.413513	.7318171	3.075512	3.741931
#1	644.8315	.0221765	.1233984	9.191491	.0299222	.0028784
#2	628.5998	.0209878	.1203157	9.099890	.0297070	.0026904
#3	634.9836	.0217861	.1232133	9.230714	.0282651	.0028661

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-01 Acquired: 6/2/2025 18:37:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003089	.3540261	F 21.38410	.8947010	14.62224	.0070007
Stddev	.000749	.0012825	.07916	.0052496	.05518	.0010291
%RSD	24.23436	.3622714	.3701678	.5867473	.3774030	14.69978
#1	-.003189	.3552564	21.45455	.8967328	14.68503	.0080832
#2	-.002295	.3541248	21.29844	.8887392	14.60023	.0068837
#3	-.003782	.3526970	21.39931	.8986311	14.58145	.0060350

Elem	Sr4077
Units	ppm
Avg	.2240131
Stddev	.0006874
%RSD	.3068766
#1	.2247992
#2	.2237159
#3	.2235243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3057.307	61481.10	11903.33	2188.490	3705.251
Stddev	5.803	252.44	14.46	8.884	6.755
%RSD	.1898004	.4106043	.1215137	.4059261	.1822957
#1	3053.645	61415.55	11889.14	2183.363	3704.707
#2	3063.997	61759.85	11902.80	2198.748	3712.261
#3	3054.277	61267.90	11918.05	2183.358	3698.785

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-02 Acquired: 6/2/2025 18:41:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035959**	**-.007269**	**.0039197**	**-.010945**	**.0027398**	**1.711856**
Stddev	.0036439	.002831	.0028787	.002171	.0006965	.003286
%RSD	101.3341	38.94463	73.44096	19.83760	25.42211	.1919305
#1	.0074954	-.010497	.0010045	-.011142	.0033100	1.708524
#2	.0002774	-.005206	.0039941	-.013011	.0029459	1.711951
#3	.0030149	-.006105	.0067604	-.008682	.0019635	1.715093

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3236678**	**.0000911**	**.0011681**	**269.5425**	**.0025138**	**.0070661**
Stddev	.0013696	.0000151	.0000896	.1895	.0004851	.0001350
%RSD	.4231571	16.58994	7.667489	.0702985	19.29684	1.910082
#1	.3233019	.0001068	.0012443	269.3920	.0019706	.0071392
#2	.3251833	.0000897	.0011904	269.7553	.0026674	.0069103
#3	.3225184	.0000767	.0010695	269.4802	.0029036	.0071487

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0242696**	**17.45307**	**1.804055**	**36.59273**	**.0100443**	**-.000049**
Stddev	.0005042	.14426	.004854	.13104	.0004025	.000301
%RSD	2.077438	.8265669	.2690586	.3580918	4.007193	609.8008
#1	.0241953	17.32441	1.798897	36.55246	.0105013	-.000282
#2	.0248068	17.42577	1.808534	36.73917	.0098893	-.000157
#3	.0238066	17.60903	1.804733	36.48655	.0097424	.000290

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0060375**	**.2511902**	**46.33416**	**.0592186**	**.0043449**
Stddev	-----	.0023547	.0030484	.65192	.0003422	.0001020
%RSD	-----	39.00163	1.213592	1.406992	.5778392	2.348159
#1	^ -----	.0036742	.2521855	45.74042	.0588317	.0044627
#2	^ -----	.0083836	.2477685	46.23029	.0593427	.0042829
#3	^ -----	.0060548	.2536166	47.03178	.0594815	.0042892

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-02 Acquired: 6/2/2025 18:41:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005283	.0564514	12.52183	.2780149	F 31.39763	-.032183
Stddev	.000892	.0004308	.15264	.0036874	.05035	.000990
%RSD	16.88722	.7631545	1.218982	1.326316	.1603596	3.075901
#1	-.006255	.0565363	12.39901	.2797726	31.41628	-.031040
#2	-.005093	.0559844	12.47377	.2737776	31.34062	-.032761
#3	-.004501	.0568333	12.69272	.2804947	31.43599	-.032749

Elem	Sr4077
Units	ppm
Avg	1.272184
Stddev	.002131
%RSD	.1674863
#1	1.270243
#2	1.271846
#3	1.274464

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2429.136	49013.36	11228.24	1748.192	2852.541
Stddev	12.373	312.34	35.87	13.707	8.640
%RSD	.5093734	.6372634	.3194517	.7840434	.3028785
#1	2420.000	49211.57	11198.85	1757.896	2844.499
#2	2424.191	49175.21	11217.66	1754.168	2851.449
#3	2443.218	48653.31	11268.21	1732.513	2861.674

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03 Acquired: 6/2/2025 18:45:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000936**	**-.002193**	**.0006058**	**-.004096**	**.0023680**	**.0673468**
Stddev	.002434	.000742	.0017923	.003274	.0019287	.0118839
%RSD	260.0537	33.84942	295.8586	79.93080	81.44809	17.64579
#1	.001525	-.003031	-.001291	-.000593	.0035072	.0782466
#2	-.000992	-.001931	.000837	-.007078	.0001411	.0546773
#3	-.003342	-.001617	.002271	-.004616	.0034556	.0691165

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0497268**	**-.000101**	**.0001176**	**196.7337**	**.0008866**	**.0000888**
Stddev	.0002818	.000004	.0000426	.2883	.0001475	.0001289
%RSD	.5666188	3.745877	36.18440	.1465215	16.63506	145.1274
#1	.0500055	-.000100	.0001104	197.0220	.0007647	.0002350
#2	.0497327	-.000097	.0000791	196.4454	.0010505	-.000008
#3	.0494421	-.000105	.0001633	196.7336	.0008446	.000040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0318012**	**.1053907**	**.0276627**	**71.21659**	**.0031574**	**-.000470**
Stddev	.0003478	.0027527	.0003542	.11407	.0004433	.000097
%RSD	1.093766	2.611880	1.280332	.1601739	14.04041	20.56502
#1	.0318234	.1067766	.0280441	71.31834	.0027825	-.000484
#2	.0314427	.1071751	.0276000	71.09328	.0030430	-.000559
#3	.0321373	.1022206	.0273441	71.23816	.0036467	-.000367

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**123.9584**	**.0026902**	**.0059829**	**8.016399**	**.0776843**	**.0070679**
Stddev	.3031	.0003684	.0007118	.063248	.0006141	.0004936
%RSD	.2445065	13.69344	11.89686	.7889823	.7904831	6.983470
#1	123.6612	.0023767	.0051624	7.944582	.0772017	.0072136
#2	124.2670	.0030959	.0064346	8.063797	.0774757	.0065179
#3	123.9470	.0025979	.0063516	8.040819	.0783755	.0074723

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03 Acquired: 6/2/2025 18:45:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002939	-.004952	F 21.55569	.0046737	13.75167	-.023055
Stddev	.0004804	.000918	.08355	.0031799	.03668	.000216
%RSD	163.4235	18.54280	.3876044	68.03794	.2667056	.9364368
#1	-.000213	-.005705	21.45921	.0060747	13.70955	-.023274
#2	.000352	-.005221	21.60308	.0069125	13.77653	-.022842
#3	.000743	-.003929	21.60476	.0010339	13.76894	-.023050

Elem	Sr4077
Units	ppm
Avg	.4022167
Stddev	.0007264
%RSD	.1806082
#1	.4030123
#2	.4015887
#3	.4020491

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2920.686	59966.93	12257.20	2109.029	3836.644
Stddev	9.511	186.59	21.02	16.300	12.203
%RSD	.3256597	.3111602	.1714947	.7728816	.3180592
#1	2928.769	60178.96	12253.78	2127.742	3847.444
#2	2923.085	59827.73	12279.72	2097.919	3839.081
#3	2910.205	59894.11	12238.10	2101.426	3823.406

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03DUP Acquired: 6/2/2025 18:50:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0019054	k -.002361	k .0009349	k -.005572	k -.000911	s .0049008	s -.015296
Stddev	.0003390	.000156	.0003079	.001145	.000220	.0012065	.001925
%RSD	17.79280	6.615717	32.93687	20.54019	24.18242	24.61800	12.58536
#1	.0019363	-.002529	.0011430	-.005342	-.001160	.0043368	-.016506
#2	k .0022279	k -.002333	k .0010805	k -.006814	k -.000742	s .0040796	s -.013077
#3	.0015520	-.002221	.0005812	-.004560	-.000830	.0062860	-.016306

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0000270	k -.000014	s .0138812	k -.000607	k .0000752	k .0005803	k .0044021
Stddev	.0000311	.000014	.0125592	.000108	.0000119	.0000805	.0010145
%RSD	115.1524	102.6160	90.47664	17.78141	15.80913	13.87265	23.04692
#1	.0000442	.000002	.0136962	-.000517	.0000661	.0006313	.0049122
#2	s -.000009	k -.000026	s .0265319	k -.000726	k .0000887	k .0006222	k .0032337
#3	.000046	-.000017	.0014155	-.000577	.0000709	.0004875	.0050604

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.000302	s .0210670	.0005126	k .0000703	-.101547	s -.000281	k -.001030
Stddev	.000239	.0048209	.0000335	.0000956	.001098	.000663	.000075
%RSD	79.23569	22.88360	6.534121	135.8514	1.081409	235.9794	7.252481
#1	-.000509	.0174541	.0005248	.0001561	-.101276	-.000313	-.001053
#2	s -.000040	s .0192060	.0005382	k .0000876	-.102755	s .000397	k -.000946
#3	-.000356	.0265411	.0004747	-.000033	-.100609	-.000928	-.001090

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.069592	s -.001987	-.000142	k -.003706	s .0000796	k -.029984	k -.008231
Stddev	.009362	.000463	.000043	.000046	.0014943	.000795	.000666
%RSD	13.45281	23.29026	30.06023	1.240692	1876.687	2.652920	8.090342
#1	-.059102	-.002406	-.000140	-.003712	-.000670	-.029186	-.008052
#2	-.077100	s -.001490	-.000101	k -.003657	s .001800	k -.029990	k -.007673
#3	-.072573	-.002064	-.000186	-.003748	-.000892	-.030776	-.008968

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03DUP Acquired: 6/2/2025 18:50:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k -.007147	s -.001077	s .0000513
Stddev	.000245	.000924	.0000368
%RSD	3.427622	85.78620	71.69690
#1	-.006866	-.001314	.0000628
#2	k -.007260	s -.001861	s .0000809
#3	-.007314	-.000058	.0000101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13167.70	248384.8	^ *****	8750.750	18756.40
Stddev	343.79	16717.5	-----	268.722	443.06
%RSD	2.610876	6.730494	-----	3.070847	2.362154
#1	13424.43	253771.4	33427.63	8875.016	19098.14
#2	13301.56	261744.9	^ -----	8442.386	18915.24
#3	12777.12	229638.0	34779.16	8934.849	18255.82

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03LX5 Acquired: 6/2/2025 18:54:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014838	-.002614	.0011749	-.006068	-.000591	.0059904	-.017003
Stddev	.0003208	.000445	.0003087	.000266	.000404	.0026019	.000109
%RSD	21.61846	17.01085	26.27192	4.378661	68.40974	43.43403	.6392345
#1	.0015621	-.002579	.0009654	-.005881	-.001016	.0088357	-.016937
#2	.0017581	-.003075	.0010300	-.006373	-.000546	.0037323	-.016943
#3	.0011311	-.002187	.0015294	-.005951	-.000211	.0054031	-.017128

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000451	-.000004	-.011215	-.000564	.0000237	.0006045	.0010914
Stddev	.0000083	.000015	.000378	.000052	.0000379	.0001273	.0009756
%RSD	18.48631	396.1620	3.370181	9.198278	159.8511	21.05269	89.39040
#1	.0000398	-.000013	-.011007	-.000588	.0000381	.0006048	.0015171
#2	.0000408	.000014	-.011651	-.000600	-.000019	.0007317	-.000025
#3	.0000547	-.000013	-.010986	-.000505	.000052	.0004771	.001782

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000512	.0124793	.0005881	.0001288	-.132767	-.000235	-.001033
Stddev	.000135	.0059156	.0001069	.0000450	.001292	.000994	.000027
%RSD	26.34915	47.40286	18.18058	34.97708	.9729254	422.2388	2.566296
#1	-.000377	.0189932	.0006909	.0000800	-.134258	-.000394	-.001003
#2	-.000513	.0110031	.0005960	.0001687	-.132057	.000828	-.001050
#3	-.000647	.0074417	.0004775	.0001376	-.131985	-.001140	-.001047

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.059020	-.002136	-.000171	-.003720	-.000776	-.030990	-.008096
Stddev	.006902	.000376	.000035	.000071	.000107	.000873	.000440
%RSD	11.69386	17.60385	20.50467	1.921480	13.73636	2.817201	5.430730
#1	-.065177	-.002080	-.000206	-.003674	-.000846	-.030399	-.008298
#2	-.051560	-.002537	-.000136	-.003685	-.000829	-.031993	-.007591
#3	-.060324	-.001791	-.000171	-.003803	-.000654	-.030578	-.008397

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03LX5 Acquired: 6/2/2025 18:54:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007469	-.001023	.0000142
Stddev	.000662	.000438	.0000330
%RSD	8.866656	42.84894	232.8953
#1	-.007712	-.001525	-.000013
#2	-.006719	-.000829	.000051
#3	-.007975	-.000716	.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13251.57	268128.5	34350.49	10354.13	18844.53
Stddev	390.23	26090.2	1515.26	684.62	510.95
%RSD	2.944771	9.730480	4.411180	6.612067	2.711417
#1	13592.36	259960.8	32852.04	9791.25	19287.54
#2	13336.46	297325.4	35882.03	11116.28	18960.47
#3	12825.88	247099.3	34317.41	10154.86	18285.56

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03MS Acquired: 6/2/2025 18:59:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0022810	s -.002544	s .0009894	s -.006025	s -.000450	k .0091876	-.017477
Stddev	.0004090	.000113	.0004021	.000205	.000591	.0013814	.000089
%RSD	17.93110	4.439082	40.64625	3.398438	131.3814	15.03514	.5112024
#1	k .0023219	k -.002417	k .0005331	k -.005944	k -.000473	.0075929	-.017510
#2	.0026680	-.002580	.0012923	-.006258	-.001028	.0099553	-.017546
#3	s .0018531	s -.002634	s .0011427	s -.005874	s .000153	k .0100146	-.017376

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0000516	s -.000034	k -.014030	s -.000498	s .0000488	s .0005135	s -.000845
Stddev	.0000151	.000011	.003166	.000081	.0000307	.0001351	.001004
%RSD	29.33382	31.44075	22.56897	16.16677	62.90607	26.31246	118.8153
#1	.0000650	k -.000043	k -.012202	s -.000506	k .0000277	k .0004396	s -.001724
#2	.0000546	-.000022	-.017686	-.000414	.0000346	.0006695	-.001061
#3	k .0000352	s -.000037	-.012201	k -.000575	s .0000840	s .0004314	k .000249

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k -.000587	.0132227	s .0005711	s -.000034	s -.135454	k -.000785	k -.001088
Stddev	.000072	.0042800	.0000488	.000423	.008774	.000900	.000117
%RSD	12.29426	32.36845	8.538884	1253.698	6.477530	114.5873	10.79960
#1	k -.000660	.0180013	.0005342	s -.000483	s -.142288	k -.000946	k -.001006
#2	-.000516	.0119254	.0005527	.000358	-.125560	-.001594	-.001222
#3	k -.000585	.0097415	s .0006264	k .000024	-.138515	k .000184	k -.001035

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.070183	k -.002567	s -.000211	s -.003690	k -.000926	s -.030548	s -.006230
Stddev	.005737	.000203	.000011	.000029	.000071	.001033	.004183
%RSD	8.174286	7.914248	5.250470	.7810615	7.690336	3.380110	67.13980
#1	s -.070700	k -.002714	-.000216	k -.003710	k -.000999	s -.029510	k -.008004
#2	-.075643	-.002653	-.000217	-.003704	-.000856	-.030559	-.009232
#3	-.064204	k -.002335	s -.000198	s -.003657	k -.000924	k -.031575	s -.001452

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03MS Acquired: 6/2/2025 18:59:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	s -.007521	k -.000385	k -.000002
Stddev	.000690	.000251	.000015
%RSD	9.177399	65.26149	713.1081
#1	k -.006726	k -.000099	k -.000020
#2	-.007863	-.000571	.000005
#3	s -.007973	k -.000485	k .000009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	^ *****	36281.12	9046.970	^ *****
Stddev	-----	-----	540.00	130.938	-----
%RSD	-----	-----	1.488374	1.447310	-----
#1	13195.25	^ -----	35804.58	9071.598	18716.58
#2	13878.77	251996.1	36867.64	8905.468	19614.16
#3	^ -----	253672.7	36171.13	9163.846	^ -----

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03MSD Acquired: 6/2/2025 19:03:27 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7193277	1.687498	.8552921	1.717350	.7482730	1.865331
Stddev	.0013916	.007120	.0029621	.002112	.0014683	.006820
%RSD	.1934603	.4219008	.3463258	.1229575	.1962272	.3656212
#1	.7190376	1.694730	.8520116	1.714967	.7491165	1.870669
#2	.7181041	1.680497	.8560940	1.718987	.7465776	1.857648
#3	.7208416	1.687265	.8577707	1.718095	.7491250	1.867677

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2200281	.1862148	.1759789	190.6168	.3711663	.1785554
Stddev	.0004868	.0010717	.0001327	.2262	.0005838	.0004298
%RSD	.2212522	.5755259	.0754040	.1186555	.1572948	.2407207
#1	.2198651	.1874272	.1760215	190.5107	.3707846	.1789739
#2	.2205755	.1853937	.1758302	190.8765	.3708759	.1785773
#3	.2196437	.1858236	.1760851	190.4632	.3718384	.1781151

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2968889	2.710262	.1890223	71.91859	.4425259	.0638301
Stddev	.0007335	.024160	.0007036	.07527	.0009508	.0007415
%RSD	.2470769	.8914233	.3722061	.1046659	.2148615	1.161610
#1	.2963480	2.682522	.1891757	71.97043	.4415934	.0646485
#2	.2965948	2.726692	.1896366	71.83225	.4424903	.0632031
#3	.2977238	2.721573	.1882548	71.95309	.4434941	.0636387

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	109.3146	.2723986	.1763717	16.26381	.3317379	.4012922
Stddev	1.1726	.0006705	.0012907	.17374	.0019861	.0005199
%RSD	1.072667	.2461301	.7318192	1.068263	.5986793	.1295649
#1	108.0628	.2717354	.1771907	16.06346	.3339457	.4018660
#2	110.3875	.2723843	.1748838	16.37290	.3300970	.4011584
#3	109.4933	.2730761	.1770406	16.35507	.3311708	.4008523

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03MSD Acquired: 6/2/2025 19:03:27 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6370079	.1750613	F 19.73731	5.766486	12.75666	.1675317
Stddev	.0001485	.0015557	.17403	.018415	.02832	.0029793
%RSD	.0233066	.8886819	.8817169	.3193515	.2220296	1.778347
#1	.6371485	.1735036	19.53718	5.773651	12.72795	.1645741
#2	.6368527	.1750652	19.82165	5.745565	12.75745	.1705322
#3	.6370226	.1766150	19.85310	5.780241	12.78458	.1674887

Elem	Sr4077
Units	ppm
Avg	.5563606
Stddev	.0025558
%RSD	.4593747
#1	.5550617
#2	.5593050
#3	.5547152

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.523	60634.56	11106.60	2128.821	3924.786
Stddev	1.959	152.83	59.59	8.180	4.724
%RSD	.0657894	.2520526	.5364889	.3842545	.1203516
#1	2978.616	60792.70	11039.09	2135.939	3929.899
#2	2978.692	60623.34	11128.84	2130.639	3923.872
#3	2975.262	60487.66	11151.86	2119.885	3920.586

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03A Acquired: 6/2/2025 19:07:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7873050**	**1.837900**	**.9309296**	**1.893450**	**.8119693**	**1.743133**
Stddev	.0280030	.067600	.0319986	.064645	.0262729	.072353
%RSD	3.556819	3.678085	3.437270	3.414147	3.235707	4.150726
#1	.7565852	1.762353	.8947742	1.822011	.7841222	1.663799
#2	.7939248	1.858670	.9424122	1.910425	.8154680	1.760117
#3	.8114050	1.892678	.9556025	1.947914	.8363175	1.805482

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2083463**	**.1963610**	**.1920689**	**190.6580**	**.3832052**	**.1945106**
Stddev	.0069741	.0038262	.0068300	.5219	.0069984	.0069554
%RSD	3.347342	1.948576	3.556034	.2737317	1.826277	3.575849
#1	.2006979	.1921050	.1845022	190.3868	.3756336	.1868150
#2	.2099878	.1974618	.1939268	191.2597	.3845457	.1963683
#3	.2143531	.1995161	.1977778	190.3276	.3894364	.2003485

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3230658**	**2.559406**	**.1863530**	**72.05818**	**.4841564**	**.0652117**
Stddev	.0118445	.104502	.0065289	.26608	.0169763	.0012020
%RSD	3.666273	4.083071	3.503491	.3692509	3.506376	1.843223
#1	.3098810	2.448360	.1792596	71.75462	.4654543	.0639274
#2	.3265101	2.574035	.1876887	72.16887	.4884214	.0653982
#3	.3328064	2.655824	.1921108	72.25104	.4985936	.0663096

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**111.5386**	**.2527786**	**.2205041**	**16.62437**	**.3509049**	**.4622392**
Stddev	.5799	.0133593	.0047657	.24087	.0047555	.0131898
%RSD	.5199072	5.284970	2.161255	1.448896	1.355209	2.853468
#1	112.1153	.2411578	.2150480	16.36065	.3454210	.4478758
#2	111.5449	.2498035	.2226117	16.67969	.3534034	.4650342
#3	110.9555	.2673747	.2238526	16.83276	.3538904	.4738075

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2133-03A Acquired: 6/2/2025 19:07:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6969468**	**.1685626**	F **19.99611**	**6.305269**	**12.89319**	**.1582899**
Stddev	.0206223	.0044964	.05646	.211509	.16256	.0072950
%RSD	2.958943	2.667517	.2823505	3.354487	1.260787	4.608658
#1	.6741390	.1637656	20.03611	6.070378	12.70692	.1508348
#2	.7024234	.1692409	20.02070	6.364785	13.00636	.1586211
#3	.7142780	.1726814	19.93153	6.480645	12.96630	.1654136

Elem	Sr4077
Units	ppm
Avg	**.5455981**
Stddev	.0057234
%RSD	1.049008
#1	.5393529
#2	.5468486
#3	.5505929

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2977.020**	**59073.53**	**10922.90**	**2097.588**	**3918.456**
Stddev	37.626	266.17	32.17	1.970	47.261
%RSD	1.263891	.4505814	.2945593	.0939322	1.206120
#1	3020.045	58891.71	10942.07	2097.533	3973.026
#2	2960.737	58949.83	10885.76	2099.586	3891.585
#3	2950.278	59379.04	10940.89	2095.646	3890.756

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV07 Acquired: 6/2/2025 19:11:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.822491**	**4.792481**	**4.820320**	**4.819847**	**4.833821**	**9.655255**	**9.347935**
Stddev	.061332	.074387	.067388	.063204	.074835	.016939	.060392
%RSD	1.271792	1.552168	1.397988	1.311327	1.548158	.1754351	.6460416
#1	4.891027	4.835406	4.896040	4.890268	4.917485	9.654913	9.279647
#2	4.772771	4.706586	4.766936	4.768041	4.773265	9.638490	9.369844
#3	4.803675	4.835452	4.797986	4.801232	4.810712	9.672362	9.394314

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2493332**	**2.426081**	**23.98894**	**1.001376**	**2.422631**	**1.221921**	**4.832114**
Stddev	.0006640	.031587	.07454	.003378	.033553	.015789	.066505
%RSD	.2663110	1.301967	.3107174	.3372963	1.384997	1.292180	1.376312
#1	.2500889	2.462063	23.91364	.997732	2.461015	1.240104	4.762867
#2	.2488431	2.402925	23.99050	1.004401	2.398873	1.211671	4.837990
#3	.2490677	2.413254	24.06269	1.001997	2.408006	1.213989	4.895487

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.375648**	**24.18646**	**2.416814**	**1.232327**	**23.68558**	**2.405576**	**2.308054**
Stddev	.014225	.09050	.032995	.003722	.28721	.006661	.004273
%RSD	.5988045	.3741708	1.365224	.3020431	1.212609	.2769150	.1851488
#1	2.361164	24.10004	2.454134	1.228085	23.36313	2.401181	2.303736
#2	2.376181	24.17878	2.391515	1.235046	23.77963	2.402306	2.312281
#3	2.389600	24.28055	2.404794	1.233849	23.91397	2.413240	2.308146

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.59219**	**4.865053**	**4.975694**	**4.854500**	**4.755749**	**4.883849**	**5.032143**
Stddev	.19933	.006795	.066719	.059774	.026741	.057705	.071300
%RSD	.8449149	.1396715	1.340898	1.231301	.5622786	1.181545	1.416890
#1	23.36358	4.870459	5.051366	4.922375	4.728782	4.828062	5.111044
#2	23.68328	4.857425	4.925342	4.809719	4.756209	4.880189	4.972331
#3	23.72970	4.867276	4.950373	4.831405	4.782257	4.943297	5.013053

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV07 Acquired: 6/2/2025 19:11:24 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.696708**	**4.698417**	**4.705047**
Stddev	.063157	.021598	.029710
%RSD	1.344714	.4596820	.6314494
#1	4.763753	4.678371	4.689221
#2	4.638335	4.695593	4.686601
#3	4.688036	4.721289	4.739320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3107.422**	**61831.47**	**11409.51**	**2231.786**	**4085.139**
Stddev	39.833	339.55	3.67	11.000	51.117
%RSD	1.281878	.5491485	.0321540	.4928974	1.251300
#1	3061.704	62220.24	11409.32	2240.039	4026.182
#2	3125.907	61593.07	11405.93	2219.297	4112.152
#3	3134.654	61681.09	11413.26	2236.021	4117.082

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB07 Acquired: 6/2/2025 19:15:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012606**	**.0003674**	**-.000356**	**-.000262**	**.0004670**	**.0010065**	**-.001070**
Stddev	.0009381	.0006033	.000766	.004148	.0006358	.0039539	.000784
%RSD	74.41641	164.2133	215.4222	1582.719	136.1375	392.8302	73.27027
#1	.0022943	.0003095	-.001079	.003343	.0005046	.0039831	-.000371
#2	.0004633	.0009975	.000447	-.004796	.0010832	-.003480	-.000920
#3	.0010242	-.000205	-.000435	.000666	-.000187	.002516	-.001917

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000059**	**-.000002**	**-.000220**	**.0006730**	**.0001452**	**-.000252**	**.0028191**
Stddev	.0000248	.000083	.003929	.0003333	.0000250	.000248	.0024592
%RSD	418.2927	3660.406	1784.063	49.51870	17.24167	98.50133	87.23326
#1	.0000264	.000084	.002600	.0009937	.0001330	-.000019	.0043079
#2	-.000022	-.000008	-.004708	.0006968	.0001740	-.000513	-.000019
#3	.000013	-.000082	.001447	.0003285	.0001286	-.000223	.004169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000209**	**.0131821**	**.0003979**	**-.000139**	**.1053446**	**.0005117**	**.0002620**
Stddev	.000127	.0288224	.0001170	.000204	.0104469	.0013061	.0001390
%RSD	60.87148	218.6477	29.39284	146.8151	9.916875	255.2462	53.07082
#1	-.000335	.0244283	.0003335	.000068	.1020151	.0004141	.0001015
#2	-.000212	-.019568	.0005329	-.000146	.1170505	.0018639	.0003391
#3	-.000081	.034686	.0003273	-.000339	.0969683	-.000743	.0003455

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0495162**	**.0052121**	**.0003456**	**-.000408**	**-.000178**	**-.002293**	**-.005162**
Stddev	.0218510	.0007073	.0001868	.000211	.000775	.006769	.000925
%RSD	44.12893	13.57075	54.04768	51.75233	434.2447	295.1550	17.92085
#1	.0368564	.0060258	.0005606	-.000469	-.001027	-.001736	-.005445
#2	.0747474	.0048668	.0002237	-.000582	.000493	.004179	-.004129
#3	.0369446	.0047439	.0002523	-.000173	-.000001	-.009324	-.005913

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB07 Acquired: 6/2/2025 19:15:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001185	.0064604	.0000477
Stddev	.0023834	.0000853	.0000494
%RSD	2012.219	1.320137	103.5931
#1	.0027341	.0065432	-.000009
#2	-.000448	.0063728	.000078
#3	-.001930	.0064653	.000074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.845	64773.16	11517.39	2334.203	4311.149
Stddev	5.727	119.46	16.39	5.325	9.577
%RSD	.1801108	.1844313	.1423166	.2281371	.2221473
#1	3181.581	64666.67	11517.99	2331.442	4310.935
#2	3184.503	64902.34	11500.71	2340.342	4320.831
#3	3173.451	64750.47	11533.48	2330.826	4301.681

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2134-01 Acquired: 6/2/2025 19:19:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0455022	.0059289	.0384937	-.050718	-.004263	30.77327
Stddev	.0018347	.0019778	.0014424	.001817	.003762	.12022
%RSD	4.032020	33.35824	3.747134	3.582651	88.24503	.3906739
#1	.0459297	.0044623	.0387171	-.051641	-.001408	30.86211
#2	.0434916	.0081782	.0398114	-.048624	-.002855	30.82122
#3	.0470854	.0051461	.0369527	-.051887	-.008526	30.63647

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5031783	-.000408	.0019538	180.0511	.0484597	.0312473
Stddev	.0015388	.000077	.0001527	.4879	.0004733	.0003067
%RSD	.3058124	18.85575	7.816738	.2709752	.9767253	.9816598
#1	.5042739	-.000343	.0018460	180.4910	.0490051	.0310076
#2	.5038420	-.000390	.0021285	180.1361	.0481576	.0311414
#3	.5014190	-.000493	.0018869	179.5264	.0482162	.0315930

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0685470	176.0323	F 47.24289	71.97294	.0480328	.0002937
Stddev	.0002655	.4138	.10876	.07829	.0009619	.0002122
%RSD	.3872997	.2350647	.2302067	.1087820	2.002546	72.26337
#1	.0685963	176.3927	47.24775	72.04060	.0490218	.0002945
#2	.0682603	175.5804	47.13178	71.99103	.0471005	.0000810
#3	.0687844	176.1239	47.34913	71.88718	.0479761	.0005054

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1205.863	.0501542	.1684556	13.53388	.0160420	.0007088
Stddev	6.536	.0022041	.0018214	.06278	.0046405	.0000926
%RSD	.5419909	4.394654	1.081221	.4638803	28.92679	13.06196
#1	1208.821	.0523386	.1687238	13.58165	.0186767	.0006830
#2	1210.396	.0501931	.1665150	13.46277	.0106840	.0006319
#3	1198.371	.0479309	.1701280	13.55721	.0187654	.0008115

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2134-01 Acquired: 6/2/2025 19:19:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001317	.5690402	F 48.48922	1.308999	2.725350	.0827709
Stddev	.000681	.0013268	.15011	.005095	.007068	.0007375
%RSD	51.70718	.2331595	.3095657	.3892533	.2593525	.8910561
#1	-.000554	.5705293	48.64142	1.308160	2.719716	.0820391
#2	-.001862	.5679838	48.34130	1.304376	2.733281	.0835140
#3	-.001535	.5686074	48.48495	1.314462	2.723053	.0827594

Elem	Sr4077
Units	ppm
Avg	.6295939
Stddev	.0025796
%RSD	.4097265
#1	.6320298
#2	.6298606
#3	.6268913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.138	56829.12	11490.13	2032.240	3301.802
Stddev	.987	75.01	30.57	9.456	6.197
%RSD	.0357683	.1319840	.2660818	.4653048	.1876986
#1	2758.394	56742.76	11476.75	2030.800	3307.672
#2	2758.971	56866.71	11468.53	2042.333	3302.412
#3	2757.048	56877.90	11525.12	2023.586	3295.322

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01 Acquired: 6/2/2025 19:24:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0819412**	**-.020585**	**.1490150**	**-.070901**	**.0644154**	**59.84901**
Stddev	.0013575	.003200	.0009584	.001786	.0038354	.27041
%RSD	1.656619	15.54460	.6431817	2.519524	5.954090	.4518201
#1	.0829694	-.020643	.1487929	-.072160	.0671130	59.71575
#2	.0824517	-.023756	.1500650	-.071686	.0600249	60.16018
#3	.0804025	-.017357	.1481871	-.068856	.0661083	59.67109

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1605173**	**.0104510**	**.0005225**	**8.293563**	**.1195117**	**.0704274**
Stddev	.0013369	.0000333	.0010125	.037564	.0024065	.0009797
%RSD	.8328457	.3187896	193.7813	.4529264	2.013574	1.391005
#1	.1606089	.0104232	.0016863	8.266714	.1167348	.0708945
#2	.1618060	.0104418	.0000373	8.336490	.1209883	.0710860
#3	.1591370	.0104879	-.000156	8.277486	.1208120	.0693016

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1748306**	**259.3176**	**.9032972**	**8.295535**	**.0924485**	**.0009305**
Stddev	.0023653	5.7496	.0031860	.019720	.0006211	.0002207
%RSD	1.352893	2.217223	.3527056	.2377243	.6717833	23.71898
#1	.1769227	252.9313	.9028654	8.278303	.0925202	.0010465
#2	.1753050	264.0823	.9066771	8.317043	.0930307	.0010691
#3	.1722641	260.9392	.9003492	8.291260	.0917948	.0006760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.477407**	**.3097701**	**.2354738**	**6.165608**	**-.023246**	**.0011992**
Stddev	.069700	.0025850	.0058143	.134934	.018344	.0001332
%RSD	2.813411	.8345000	2.469201	2.188492	78.91096	11.10437
#1	2.407079	.3070588	.2288254	6.013063	-.044210	.0013386
#2	2.546461	.3100446	.2396074	6.269351	-.010141	.0010734
#3	2.478681	.3122069	.2379886	6.214410	-.015388	.0011854

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01 Acquired: 6/2/2025 19:24:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070015	2.275963	F 19.89434	4.307859	1.566992	.1564320
Stddev	.0004406	.012242	.46498	.046936	.011238	.0023845
%RSD	6.292214	.5378769	2.337271	1.089540	.7171548	1.524271
#1	.0074828	2.272187	19.37891	4.333731	1.574550	.1537233
#2	.0069033	2.289648	20.28228	4.336166	1.572348	.1582137
#3	.0066183	2.266054	20.02184	4.253680	1.554078	.1573592

Elem	Sr4077
Units	ppm
Avg	-.205212
Stddev	.005402
%RSD	2.632166
#1	-.199178
#2	-.209597
#3	-.206861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3359.125	69444.87	13393.14	2505.068	4045.326
Stddev	20.794	1319.69	39.92	49.475	32.691
%RSD	.6190421	1.900343	.2980508	1.975007	.8081217
#1	3356.177	70928.21	13354.45	2561.362	4032.793
#2	3339.963	68400.96	13390.81	2468.490	4020.756
#3	3381.237	69005.43	13434.18	2485.353	4082.430

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01DUP Acquired: 6/2/2025 19:28:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0978087**	**-.022985**	**.1277557**	**-.092252**	**.0257072**	**78.13389**
Stddev	.0036017	.001254	.0006256	.005089	.0026221	.38632
%RSD	3.682415	5.454760	.4896591	5.516409	10.19982	.4944294
#1	.0938697	-.022805	.1279556	-.088175	.0282645	77.69368
#2	.1009339	-.021832	.1270546	-.097955	.0258323	78.29152
#3	.0986223	-.024320	.1282570	-.090625	.0230248	78.41647

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2151282**	**.0150271**	**.0024473**	**9.446048**	**.1689190**	**.1563082**
Stddev	.0019453	.0000810	.0003334	.086218	.0001990	.0002430
%RSD	.9042678	.5388370	13.62293	.9127432	.1177992	.1554603
#1	.2133775	.0149406	.0027807	9.360867	.1689186	.1563856
#2	.2147849	.0151011	.0021140	9.444011	.1691181	.1565031
#3	.2172224	.0150397	.0024472	9.533268	.1687202	.1560359

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2091265**	**344.1437**	**1.757655**	**12.48166**	**.1409141**	**.0020056**
Stddev	.0009723	2.5785	.016427	.14057	.0003718	.0006116
%RSD	.4649438	.7492383	.9345820	1.126249	.2638151	30.49729
#1	.2102085	341.4857	1.739125	12.32142	.1412474	.0013002
#2	.2088452	346.6345	1.763408	12.58423	.1409817	.0023278
#3	.2083259	344.3110	1.770431	12.53933	.1405132	.0023887

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.197744**	**.3785321**	**.2881040**	**7.730417**	**-.002460**	**.0005562**
Stddev	.008112	.0016070	.0014694	.036687	.009127	.0000824
%RSD	.3691015	.4245454	.5100187	.4745775	371.0003	14.81818
#1	2.196981	.3770248	.2864075	7.692897	-.006370	.0005646
#2	2.206211	.3802231	.2889309	7.766210	.007971	.0006341
#3	2.190041	.3783483	.2889737	7.732143	-.008981	.0004699

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01DUP Acquired: 6/2/2025 19:28:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044077	2.981970	F 20.92464	6.694729	1.042662	.2072751
Stddev	.0004766	.017312	.13019	.031399	.003031	.0013281
%RSD	10.81324	.5805660	.6222028	.4690178	.2907274	.6407302
#1	.0048239	2.963080	20.81385	6.724238	1.045261	.2059327
#2	.0045113	2.985750	21.06804	6.698219	1.043394	.2085884
#3	.0038878	2.997079	20.89203	6.661730	1.039332	.2073043

Elem	Sr4077
Units	ppm
Avg	-.284226
Stddev	.002407
%RSD	.8470080
#1	-.281951
#2	-.286747
#3	-.283981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3517.644	71396.05	14344.51	2567.192	4004.556
Stddev	8.888	295.52	76.95	17.344	6.622
%RSD	.2526726	.4139143	.5364675	.6755974	.1653711
#1	3522.553	71698.44	14423.66	2586.808	4004.319
#2	3507.384	71107.92	14339.91	2553.889	3998.055
#3	3522.994	71381.78	14269.96	2560.878	4011.293

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01LX5 Acquired: 6/2/2025 19:32:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0174699**	**-.005222**	**.0308742**	**-.015887**	**.0124787**	**13.00649**	**.0352385**
Stddev	.0012976	.002877	.0007261	.001024	.0015905	.02339	.0007379
%RSD	7.427392	55.09176	2.351949	6.447870	12.74609	.1798310	2.093912
#1	.0189604	-.007017	.0300364	-.015389	.0139342	13.02757	.0360492
#2	.0165923	-.006745	.0312658	-.015207	.0107809	12.98133	.0350601
#3	.0168570	-.001904	.0313205	-.017065	.0127209	13.01056	.0346061

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023677**	**-.000778**	**1.784723**	**.0268377**	**.0139174**	**.0372876**	**55.08759**
Stddev	.0000244	.000056	.009036	.0003719	.0002671	.0002796	.46190
%RSD	1.031797	7.133822	.5062898	1.385659	1.919497	.7499671	.8384849
#1	.0023411	-.000728	1.775509	.0270414	.0139469	.0376016	55.53572
#2	.0023731	-.000838	1.793570	.0270633	.0141686	.0371959	55.11401
#3	.0023890	-.000768	1.785089	.0264085	.0136368	.0370653	54.61305

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1950269**	**1.803338**	**.0182398**	**-.000186**	**.5336515**	**.0671168**	**.0544568**
Stddev	.0013051	.020454	.0002925	.000216	.0219803	.0012880	.0004137
%RSD	.6691877	1.134234	1.603623	116.2521	4.118851	1.919071	.7595861
#1	.1964977	1.783990	.0184215	-.000069	.5236789	.0684482	.0542148
#2	.1945757	1.824743	.0179024	-.000053	.5588503	.0670250	.0542212
#3	.1940073	1.801282	.0183955	-.000434	.5184254	.0658771	.0549345

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.304288**	**-.011098**	**.0000616**	**-.000198**	**.4923140**	**4.383283**	**.8404282**
Stddev	.018399	.001238	.0001320	.000201	.0011516	.026565	.0036332
%RSD	1.410635	11.15684	214.4240	101.7014	.2339139	.6060488	.4323010
#1	1.325179	-.010557	.0000287	-.000426	.4915641	4.409603	.8444786
#2	1.297188	-.010223	.0002069	-.000120	.4917379	4.383765	.8393493
#3	1.290497	-.012515	-.000051	-.000047	.4936399	4.356480	.8374567

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01LX5 Acquired: 6/2/2025 19:32:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3066526	.0358161	-.043487
Stddev	.0041145	.0008197	.000365
%RSD	1.341751	2.288737	.8399487
#1	.3107182	.0366633	-.043865
#2	.3067486	.0357583	-.043459
#3	.3024908	.0350269	-.043137

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3191.355	64578.20	12256.45	2337.315	4186.208
Stddev	8.339	187.13	18.37	.195	13.929
%RSD	.2612985	.2897789	.1498720	.0083444	.3327401
#1	3198.637	64362.56	12264.69	2337.299	4201.267
#2	3193.170	64674.03	12269.26	2337.517	4183.571
#3	3182.258	64698.02	12235.41	2337.128	4173.785

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01MS Acquired: 6/2/2025 19:36:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7312204**	**1.807634**	**1.045011**	**1.368963**	**.2882347**	**102.9494**
Stddev	.0037787	.029936	.005026	.005097	.0033242	.1476
%RSD	.5167637	1.656114	.4809745	.3723208	1.153306	.1433355
#1	.7270587	1.775203	1.040591	1.363508	.2863860	102.8033
#2	.7321658	1.834212	1.050479	1.373604	.2920723	102.9465
#3	.7344366	1.813486	1.043964	1.369778	.2862458	103.0984

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3830774**	**.1728034**	**.2001801**	**10.91892**	**.5984530**	**.3176413**
Stddev	.0012704	.0007587	.0016203	.01987	.0009819	.0022888
%RSD	.3316242	.4390486	.8094341	.1820207	.1640733	.7205614
#1	.3822766	.1734195	.1987248	10.89717	.5994018	.3155623
#2	.3845422	.1730347	.2019261	10.93613	.5974411	.3200940
#3	.3824135	.1719559	.1998895	10.92347	.5985161	.3172677

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4769989**	**378.2781**	**1.361671**	**14.12501**	**.6726444**	**.0647890**
Stddev	.0038757	2.0255	.001943	.01913	.0047455	.0008851
%RSD	.8125245	.5354584	.1427000	.1354388	.7055009	1.366117
#1	.4732115	376.7129	1.361394	14.10411	.6675618	.0639000
#2	.4809573	377.5556	1.363737	14.14165	.6769592	.0647967
#3	.4768279	380.5658	1.359881	14.12927	.6734123	.0656702

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.656492**	**.6528144**	**.4740729**	**16.58242**	**.1701756**	**.3003710**
Stddev	.008682	.0008769	.0025027	.08423	.0107948	.0014001
%RSD	.1864512	.1343328	.5279228	.5079651	6.343321	.4661299
#1	4.649109	.6519299	.4765286	16.53607	.1610609	.2990285
#2	4.666057	.6528297	.4715256	16.53154	.1673695	.3018224
#3	4.654310	.6536836	.4741645	16.67965	.1820963	.3002620

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01MS Acquired: 6/2/2025 19:36:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6800559	3.581690	F 21.99305	14.09409	.8635004	.3977189
Stddev	.0033092	.005778	.17753	.12098	.0117084	.0013241
%RSD	.4866066	.1613279	.8072075	.8583546	1.355923	.3329190
#1	.6778805	3.575043	21.88987	13.97713	.8508921	.3964869
#2	.6838642	3.584513	21.89125	14.21872	.8740307	.3991190
#3	.6784231	3.585513	22.19804	14.08642	.8655783	.3975509

Elem	Sr4077
Units	ppm
Avg	-.153988
Stddev	.002143
%RSD	1.391484
#1	-.152496
#2	-.153025
#3	-.156443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3593.691	73984.55	14574.62	2669.933	3920.484
Stddev	14.062	347.45	19.44	14.109	20.470
%RSD	.3913014	.4696248	.1333501	.5284229	.5221202
#1	3609.428	74208.90	14587.71	2681.953	3941.577
#2	3582.357	74160.43	14552.29	2673.446	3900.700
#3	3589.289	73584.33	14583.87	2654.400	3919.176

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01MSD Acquired: 6/2/2025 19:40:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021928	-.002041	.0012229	-.005854	-.001052	.0115320	-.016197
Stddev	.0001753	.000562	.0003680	.000366	.000657	.0031025	.000712
%RSD	7.996210	27.53693	30.09018	6.253909	62.45287	26.90383	4.395278
#1	.0020526	-.002435	.0016364	-.005524	-.000680	.0080367	-.015772
#2	.0021364	-.001397	.0011010	-.005791	-.000666	.0125989	-.015801
#3	.0023894	-.002290	.0009313	-.006248	-.001811	.0139602	-.017019

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000455	-.000020	-.017779	-.000612	.0000316	.0005004	.0130088
Stddev	.0000186	.000009	.003238	.000134	.0000278	.0000514	.0010344
%RSD	40.89763	43.59075	18.21067	21.90764	87.84795	10.27927	7.951458
#1	.0000549	-.000010	-.017137	-.000616	.0000531	.0004418	.0140921
#2	.0000241	-.000023	-.021289	-.000476	.0000003	.0005383	.0129027
#3	.0000575	-.000027	-.014910	-.000744	.0000413	.0005209	.0120315

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000400	.0121277	.0004642	.0000821	-.145995	-.000302	-.001008
Stddev	.000133	.0027232	.0000691	.0001211	.008498	.000358	.000083
%RSD	33.16100	22.45456	14.89190	147.5182	5.820795	118.5446	8.242080
#1	-.000329	.0089843	.0005402	-.000013	-.140914	-.000703	-.000933
#2	-.000553	.0136255	.0004051	.000041	-.155805	-.000188	-.000994
#3	-.000318	.0137732	.0004473	.000219	-.141265	-.000015	-.001097

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.079984	-.001883	-.000280	-.003828	-.000443	-.030255	-.007725
Stddev	.005519	.000084	.000031	.000081	.000225	.002769	.000341
%RSD	6.899640	4.436223	10.98882	2.115882	50.77607	9.152834	4.419603
#1	-.083887	-.001790	-.000245	-.003916	-.000215	-.027508	-.007758
#2	-.082395	-.001951	-.000300	-.003810	-.000448	-.030211	-.008048
#3	-.073671	-.001908	-.000296	-.003757	-.000665	-.033046	-.007368

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01MSD Acquired: 6/2/2025 19:40:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007212	-.000090	-.000007
Stddev	.000457	.000643	.000039
%RSD	6.342179	717.4591	538.3180
#1	-.006706	-.000231	.000031
#2	-.007598	-.000650	-.000005
#3	-.007331	.000612	-.000047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12651.13	243966.8	30751.92	8999.674	18044.94
Stddev	334.55	11187.4	2815.88	637.937	440.73
%RSD	2.644432	4.585606	9.156760	7.088440	2.442381
#1	12603.27	253557.0	29893.92	9664.756	17969.96
#2	12343.09	231676.5	28464.85	8941.383	17646.51
#3	13007.03	246666.9	33897.00	8392.884	18518.34

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01A Acquired: 6/2/2025 19:45:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8124260**	**1.849571**	**1.415414**	**1.694925**	**.8163573**	**60.98412**
Stddev	.0051106	.009133	.000535	.004609	.0030503	.09993
%RSD	.6290561	.4937803	.0377809	.2719204	.3736444	.1638552
#1	.8127378	1.857125	1.415375	1.699107	.8154674	61.09124
#2	.8173735	1.839421	1.414900	1.689984	.8138509	60.96770
#3	.8071666	1.852168	1.415968	1.695684	.8197535	60.89342

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3424901**	**.1871831**	**.2014790**	**9.666029**	**.4979205**	**.2755141**
Stddev	.0003188	.0009342	.0005058	.022456	.0025384	.0010858
%RSD	.0930800	.4990905	.2510408	.2323234	.5098102	.3940979
#1	.3421220	.1882424	.2010457	9.688866	.5004096	.2745398
#2	.3426775	.1868300	.2013564	9.665249	.4953354	.2753179
#3	.3426707	.1864768	.2020348	9.643973	.4980164	.2766846

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4579599**	**266.1268**	**1.112008**	**10.20440**	**.7306678**	**.0726588**
Stddev	.0010777	1.1143	.001264	.06681	.0011559	.0005720
%RSD	.2353191	.4187072	.1136700	.6546940	.1581933	.7872957
#1	.4567553	265.1664	1.111803	10.21992	.7293384	.0719982
#2	.4588325	265.8656	1.113363	10.26208	.7312294	.0729860
#3	.4582920	267.3486	1.110860	10.13120	.7314356	.0729920

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.103029**	**.5863135**	**5.238069**	**18.42385**	**.2309312**	**.3900815**
Stddev	.031148	.0036163	.017779	.09558	.0031561	.0005162
%RSD	.6103877	.6167889	.3394144	.5187988	1.366699	.1323411
#1	5.067121	.5837640	5.219297	18.32027	.2275276	.3897379
#2	5.122761	.5847243	5.240257	18.44263	.2315048	.3898316
#3	5.119206	.5904523	5.254652	18.50864	.2337612	.3906752

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2101-01A Acquired: 6/2/2025 19:45:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7283913	2.468927	F 16.79509	10.70770	1.653695	.3396213
Stddev	.0013218	.007186	.03929	.02381	.011345	.0016825
%RSD	.1814657	.2910639	.2339349	.2223215	.6860368	.4954089
#1	.7273815	2.470409	16.79126	10.73517	1.649625	.3384424
#2	.7298874	2.475257	16.75785	10.69307	1.644947	.3415481
#3	.7279051	2.461116	16.83615	10.69487	1.666514	.3388734

Elem	Sr4077
Units	ppm
Avg	-.032161
Stddev	.001351
%RSD	4.201455
#1	-.031381
#2	-.031381
#3	-.033721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3318.867	69121.86	13178.46	2500.070	3975.739
Stddev	3.319	281.93	53.49	13.992	4.673
%RSD	.1000171	.4078693	.4058572	.5596660	.1175308
#1	3322.681	68989.56	13116.73	2483.921	3980.962
#2	3316.630	69445.60	13207.79	2508.568	3974.298
#3	3317.289	68930.41	13210.87	2507.720	3971.956

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2159-01 Acquired: 6/2/2025 19:49:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023999**	**-.002461**	**.0010099**	**-.006273**	**-.000804**	**.0059369**	**-.016773**
Stddev	.0008619	.000161	.0002090	.000346	.000633	.0013965	.000128
%RSD	35.91466	6.555089	20.69504	5.518045	78.73581	23.52243	.7658364
#1	.0022903	-.002285	.0011891	-.006069	-.000779	.0068049	-.016911
#2	.0015981	-.002602	.0007803	-.006076	-.001450	.0066799	-.016657
#3	.0033114	-.002495	.0010603	-.006672	-.000184	.0043260	-.016751

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000570**	**-.000038**	**-.014903**	**-.000666**	**.0000067**	**.0005937**	**.0076268**
Stddev	.0000143	.000013	.001777	.000075	.0000283	.0001094	.0015167
%RSD	25.03838	34.00946	11.92538	11.31118	424.9510	18.43108	19.88615
#1	.0000734	-.000050	-.016807	-.000620	-.000008	.0005995	.0077253
#2	.0000493	-.000038	-.014615	-.000625	-.000011	.0007001	.0060633
#3	.0000481	-.000025	-.013288	-.000753	.000039	.0004815	.0090919

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000433**	**.0126511**	**.0005062**	**.0000413**	**-.146496**	**-.000274**	**-.001041**
Stddev	.000195	.0060971	.0000468	.0000341	.002340	.000651	.000094
%RSD	44.92678	48.19429	9.244759	82.65686	1.597384	237.4212	9.033735
#1	-.000342	.0137897	.0005434	.0000083	-.149139	-.000476	-.001039
#2	-.000657	.0060650	.0004537	.0000392	-.145660	.000454	-.000947
#3	-.000300	.0180987	.0005217	.0000764	-.144688	-.000800	-.001135

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.071504**	**-.002288**	**-.000312**	**-.003590**	**-.000668**	**-.031435**	**-.006700**
Stddev	.002500	.000177	.000024	.000078	.000209	.001419	.000683
%RSD	3.496472	7.733919	7.836613	2.167852	31.26603	4.514399	10.19029
#1	-.068631	-.002451	-.000323	-.003501	-.000427	-.032485	-.005939
#2	-.073187	-.002314	-.000330	-.003643	-.000780	-.031999	-.007258
#3	-.072694	-.002100	-.000284	-.003627	-.000798	-.029821	-.006905

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2159-01 Acquired: 6/2/2025 19:49:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007699	-.000195	-.000023
Stddev	.000510	.000491	.000009
%RSD	6.622525	251.7189	38.70562
#1	-.007988	.000371	-.000034
#2	-.007999	-.000450	-.000018
#3	-.007111	-.000505	-.000018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13840.10	257176.9	35281.20	9549.982	19732.01
Stddev	395.03	11262.7	2095.88	267.565	542.70
%RSD	2.854241	4.379344	5.940495	2.801729	2.750354
#1	14208.21	268177.1	35210.33	9380.165	20244.61
#2	13422.76	257684.7	33221.66	9411.368	19163.54
#3	13889.33	245668.9	37411.62	9858.413	19787.89

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2160-01 Acquired: 6/2/2025 19:53:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0546735	-.032454	.2132509	-.111948	-.011584	138.8730	1.116608
Stddev	.0005204	.004310	.0045996	.001006	.003204	.0429	.003559
%RSD	.9518962	13.28163	2.156916	.8986279	27.65823	.0309220	.3187043
#1	.0544043	-.035566	.2103020	-.113108	-.014269	138.8670	1.115342
#2	.0543429	-.034261	.2108998	-.111307	-.008038	138.8333	1.113854
#3	.0552734	-.027534	.2185508	-.111431	-.012445	138.9185	1.120626

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153649	.0131119	19.75866	.2460446	.1874795	.2911952	336.5293
Stddev	.0000726	.0002287	.00523	.0015137	.0008791	.0004118	1.3226
%RSD	.4725497	1.744550	.0264894	.6152282	.4688857	.1414051	.3930019
#1	.0154398	.0132732	19.76018	.2442995	.1867907	.2914511	335.0432
#2	.0153600	.0128501	19.75284	.2468317	.1871782	.2914144	337.5771
#3	.0152948	.0132124	19.76297	.2470026	.1884696	.2907203	336.9676

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.822293	67.74810	.3687185	-.006092	2.306268	.3920250	.6462599
Stddev	.015577	.06557	.0010972	.000328	.021029	.0018992	.0071440
%RSD	.2283222	.0967822	.2975858	5.381664	.9118279	.4844720	1.105444
#1	6.814605	67.81943	.3687341	-.006421	2.298479	.3937407	.6380468
#2	6.812055	67.69046	.3676135	-.005766	2.330081	.3899842	.6510344
#3	6.840219	67.73440	.3698079	-.006088	2.290245	.3923502	.6496985

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.63946	-.110826	.0051304	.0088620	4.244741	5.877206	6.675611
Stddev	.13183	.003231	.0001486	.0007495	.003239	.070334	.003011
%RSD	.7473569	2.915164	2.896544	8.457078	.0763105	1.196723	.0451018
#1	17.48835	-.112535	.0053019	.0080075	4.244636	5.823468	6.678634
#2	17.73092	-.107100	.0050496	.0094078	4.241556	5.956811	6.672612
#3	17.69912	-.112844	.0050398	.0091708	4.248032	5.851340	6.675586

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2160-01 Acquired: 6/2/2025 19:53:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4561680	.5222694	-.208816
Stddev	.0045358	.0019486	.001095
%RSD	.9943245	.3730971	.5244266
#1	.4536169	.5201210	-.207810
#2	.4534822	.5227647	-.209982
#3	.4614049	.5239225	-.208656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3638.827	74274.35	13814.29	2684.514	3833.666
Stddev	5.014	227.56	29.72	7.538	10.204
%RSD	.1377919	.3063800	.2151130	.2807964	.2661608
#1	3640.474	74418.53	13780.41	2691.052	3840.552
#2	3642.810	74012.01	13826.52	2676.269	3838.502
#3	3633.196	74392.50	13835.93	2686.221	3821.943

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV08 Acquired: 6/2/2025 19:57:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.887638**	**4.750898**	**4.829464**	**4.920853**	**4.900933**	**9.687993**	**9.524695**
Stddev	.025097	.097138	.014532	.038547	.033922	.015663	.136870
%RSD	.5134707	2.044625	.3009002	.7833330	.6921532	.1616765	1.437004
#1	4.869227	4.734695	4.826308	4.908138	4.876991	9.705580	9.388504
#2	4.877462	4.662881	4.816770	4.890270	4.886057	9.675545	9.662234
#3	4.916224	4.855119	4.845315	4.964151	4.939752	9.682854	9.523345

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2466442**	**2.434950**	**24.15781**	**.9999563**	**2.429920**	**1.235520**	**4.931769**
Stddev	.0017377	.006496	.05342	.0084170	.007386	.003260	.051974
%RSD	.7045448	.2667749	.2211438	.8417413	.3039415	.2638754	1.053857
#1	.2446701	2.433147	24.12258	1.008754	2.428064	1.232561	4.991638
#2	.2479426	2.429545	24.13156	.991981	2.423639	1.234984	4.898224
#3	.2473198	2.442156	24.21928	.999134	2.438056	1.239015	4.905444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.395876**	**24.19927**	**2.426389**	**1.236782**	**24.07520**	**2.422643**	**2.274570**
Stddev	.003737	.05055	.008175	.005969	.26462	.004412	.001691
%RSD	.1559571	.2088737	.3369186	.4826571	1.099144	.1821147	.0743433
#1	2.394460	24.14216	2.423925	1.243674	24.35185	2.421464	2.276397
#2	2.393054	24.21743	2.419729	1.233259	23.82452	2.427525	2.274255
#3	2.400114	24.23824	2.435512	1.233413	24.04924	2.418940	2.273060

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.10256**	**4.819332**	**4.974144**	**4.860637**	**4.805201**	**5.013545**	**5.018647**
Stddev	.25986	.030946	.024737	.023616	.010764	.055087	.033785
%RSD	1.078134	.6421253	.4973059	.4858577	.2240108	1.098756	.6731886
#1	24.39299	4.783624	4.961421	4.849257	4.801869	5.076708	5.006867
#2	23.89205	4.838357	4.958359	4.844865	4.796497	4.988473	4.992330
#3	24.02263	4.836015	5.002653	4.887788	4.817238	4.975454	5.056745

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV08 Acquired: 6/2/2025 19:57:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.795077**	**4.702871**	**4.822955**
Stddev	.044413	.017229	.086768
%RSD	.9262194	.3663485	1.799055
#1	4.778130	4.705920	4.732599
#2	4.761633	4.684321	4.905623
#3	4.845469	4.718372	4.830643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3105.565**	**62018.86**	**11649.46**	**2240.431**	**4081.842**
Stddev	1.944	403.32	56.45	3.709	1.505
%RSD	.0625936	.6503189	.4845792	.1655574	.0368695
#1	3107.204	61554.64	11713.19	2237.947	4081.129
#2	3106.073	62218.72	11605.74	2238.651	4083.571
#3	3103.418	62283.22	11629.45	2244.695	4080.826

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB08 Acquired: 6/2/2025 20:01:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015877**	**-.000263**	**.0002592**	**-.000138**	**-.000550**	**.0010443**	**-.000508**
Stddev	.0009751	.001492	.0006293	.002950	.000644	.0012000	.001303
%RSD	61.41343	568.3707	242.7913	2138.869	117.1302	114.9098	256.8347
#1	.0010912	-.000522	-.000444	.000509	-.001066	.0017235	.000173
#2	.0009608	-.001608	.000453	.002435	-.000757	.0017505	-.002010
#3	.0027111	.001342	.000769	-.003357	.000172	-.000341	.000315

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000328**	**.0000568**	**-.003527**	**.0008729**	**.0000606**	**-.000249**	**.0040636**
Stddev	.0000363	.0000146	.003819	.0004032	.0001439	.000451	.0022260
%RSD	110.7942	25.64256	108.2854	46.18778	237.4046	181.2173	54.78031
#1	.0000688	.0000665	-.007607	.0013278	.0001626	-.000220	.0015511
#2	.0000333	.0000401	-.002934	.0005600	-.000104	.000187	.0057897
#3	-.000004	.0000639	-.000039	.0007309	.000123	-.000713	.0048499

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000188**	**.0084129**	**.0004616**	**.0000873**	**-.029054**	**-.000911**	**.0008918**
Stddev	.000281	.0089578	.0001345	.0002677	.017612	.001319	.0002378
%RSD	149.3679	106.4770	29.14200	306.6527	60.61734	144.7189	26.66624
#1	-.000245	.0039008	.0004434	-.000184	-.032458	-.001610	.0009224
#2	-.000436	.0187295	.0003372	.000094	-.009989	.000610	.0011128
#3	.000117	.0026084	.0006044	.000352	-.044717	-.001733	.0006401

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.019215**	**.0054700**	**.0006000**	**-.000232**	**-.000214**	**.0016990**	**-.002545**
Stddev	.007460	.0009171	.0002952	.000232	.000417	.0068874	.003435
%RSD	38.82356	16.76638	49.19499	100.1022	195.2613	405.3818	134.9751
#1	-.027658	.0062252	.0008532	-.000011	-.000082	.0039144	-.001233
#2	-.016477	.0044494	.0006709	-.000474	.000122	.0072061	-.006442
#3	-.013511	.0057352	.0002758	-.000211	-.000681	-.006024	.000041

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB08 Acquired: 6/2/2025 20:01:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007215	.0023280	.0001636
Stddev	.0011894	.0006582	.0000457
%RSD	164.8467	28.27501	27.94172
#1	.0020118	.0024100	.0002163
#2	-.000331	.0029413	.0001338
#3	.000484	.0016325	.0001408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3189.331	64506.56	11843.68	2341.508	4321.684
Stddev	7.647	289.62	37.24	11.711	7.829
%RSD	.2397682	.4489840	.3144568	.5001455	.1811670
#1	3186.091	64485.57	11866.95	2353.343	4316.217
#2	3198.064	64228.01	11863.37	2329.926	4330.654
#3	3183.837	64806.11	11800.73	2341.255	4318.183

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01 Acquired: 6/2/2025 20:06:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1841436**	**-.052676**	**.2663911**	**-.175738**	**-.020400**	**193.5056**	**.4996093**
Stddev	.0034539	.001155	.0018201	.005838	.003357	.8200	.0019724
%RSD	1.875652	2.191927	.6832341	3.321766	16.45456	.4237760	.3947818
#1	.1881310	-.051548	.2682002	-.180152	-.021322	194.4408	.5015620
#2	.1822222	-.053855	.2645603	-.169119	-.016679	192.9098	.4976179
#3	.1820778	-.052625	.2664129	-.177944	-.023200	193.1661	.4996480

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0151501**	**.0186815**	**7.751770**	**.2318475**	**.3260252**	**.2140150**	**611.5827**
Stddev	.0000547	.0002614	.023734	.0003966	.0014314	.0016716	.8819
%RSD	.3613232	1.399446	.3061745	.1710576	.4390408	.7810718	.1441997
#1	.0150908	.0183808	7.761565	.2320198	.3244779	.2122209	611.7970
#2	.0151988	.0188095	7.724706	.2313939	.3262956	.2142953	610.6134
#3	.0151606	.0188544	7.769038	.2321287	.3273021	.2155287	612.3377

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.957236**	**9.008901**	**.2357699**	**.0020596**	**1.045100**	**.4507207**	**.2736323**
Stddev	.013385	.044151	.0009780	.0004044	.008647	.0023220	.0005572
%RSD	.3382446	.4900841	.4147923	19.63649	.8274258	.5151772	.2036408
#1	3.969631	8.957929	.2355991	.0019171	1.053598	.4529280	.2742738
#2	3.943042	9.033560	.2348887	.0017456	1.045392	.4509351	.2732687
#3	3.959035	9.035215	.2368221	.0025159	1.036311	.4482988	.2733545

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.547101**	**^ *****	**.0025219**	**.0211346**	**2.145439**	**5.559559**	**10.27017**
Stddev	.044645	-----	.0002383	.0014095	.006486	.087843	.01806
%RSD	.9818255	-----	9.448886	6.668914	.3023222	1.580035	.1758375
#1	4.533831	^ -----	.0027647	.0203627	2.152031	5.548312	10.25267
#2	4.510596	^ -----	.0025127	.0227614	2.139064	5.652484	10.26909
#3	4.596876	^ -----	.0022884	.0202796	2.145221	5.477881	10.28874

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01 Acquired: 6/2/2025 20:06:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.949455	.3037637	-.567294
Stddev	.011070	.0005743	.000880
%RSD	.5678462	.1890686	.1551522
#1	1.938269	.3036345	-.567434
#2	1.949692	.3032651	-.566352
#3	1.960405	.3043917	-.568095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3841.732	78676.15	15997.85	2859.875	3909.918
Stddev	10.793	69.94	15.54	7.668	13.618
%RSD	.2809511	.0888907	.0971139	.2681340	.3482953
#1	3852.047	78744.21	16008.38	2852.011	3922.040
#2	3842.631	78679.76	15980.01	2860.282	3912.531
#3	3830.517	78604.48	16005.16	2867.332	3895.182

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01DUP Acquired: 6/2/2025 20:10:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1155993	-.028443	4.106438	-.089872	.0001082	113.9711	.7961439
Stddev	.0029394	.000549	.110467	.003429	.0015395	.3913	.0020603
%RSD	2.542747	1.929589	2.690088	3.814995	1422.502	.3433638	.2587791
#1	.1172609	-.027816	4.009711	-.091250	-.000596	114.3166	.7960284
#2	.1173315	-.028837	4.226814	-.085969	-.000953	114.0507	.7982594
#3	.1122054	-.028676	4.082788	-.092397	.001874	113.5461	.7941438

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084700	.0190087	70.46621	.3827905	.1609244	1.193593	338.6777
Stddev	.0001332	.0017360	.15975	.0008007	.0040323	.028989	2.1768
%RSD	1.572438	9.132373	.2266974	.2091862	2.505723	2.428751	.6427257
#1	.0086111	.0179810	70.30853	.3824643	.1591974	1.169406	339.8646
#2	.0084525	.0210130	70.62794	.3822043	.1655326	1.225727	340.0030
#3	.0083465	.0180321	70.46215	.3837028	.1580431	1.185646	336.1654

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.310614	52.69895	.3627049	.0067002	5.279453	.4199206	2.445431
Stddev	.019533	.05712	.0090651	.0005897	.029709	.0017934	.009789
%RSD	.5899962	.1083808	2.499293	8.801232	.5627289	.4270691	.4002795
#1	3.315185	52.66427	.3560692	.0060204	5.248328	.4190771	2.449678
#2	3.327456	52.66770	.3730335	.0070736	5.307508	.4219802	2.434236
#3	3.289202	52.76487	.3590119	.0070068	5.282523	.4187045	2.452378

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.407510	.0266124	.0145591	.1999818	3.538732	4.760587	8.478948
Stddev	.005395	.0048649	.0001693	.0047317	.008088	.014930	.224335
%RSD	.0841955	18.28047	1.163043	2.366089	.2285570	.3136239	2.645784
#1	6.409088	.0251810	.0143873	.1964360	3.540558	4.772726	8.372614
#2	6.411939	.0320324	.0147259	.2053547	3.545751	4.743916	8.736678
#3	6.401502	.0226238	.0145640	.1981547	3.529887	4.765118	8.327553

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01DUP Acquired: 6/2/2025 20:10:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.206032	.2429162	-.162209
Stddev	.078432	.0015442	.002371
%RSD	2.446395	.6356974	1.461696
#1	3.145054	.2428576	-.164170
#2	3.294511	.2444889	-.162881
#3	3.178531	.2414022	-.159574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3452.682	74224.27	14986.62	2603.268	3869.838
Stddev	67.879	148.27	35.94	5.858	88.322
%RSD	1.965968	.1997655	.2398158	.2250366	2.282329
#1	3503.032	74202.62	14967.81	2598.508	3931.624
#2	3375.486	74088.01	14963.98	2601.484	3768.676
#3	3479.528	74382.18	15028.06	2609.810	3909.213

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01LX5 Acquired: 6/2/2025 20:14:38 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433303	-.008736	.0503158	-.039233	-.006768	45.53314	.1130083
Stddev	.0021061	.002198	.0010062	.003194	.000146	.05286	.0007249
%RSD	4.860539	25.16574	1.999739	8.139964	2.159400	.1160836	.6414748
#1	.0446919	-.011224	.0512768	-.039305	-.006674	45.59400	.1135465
#2	.0443945	-.007926	.0492698	-.036004	-.006692	45.49866	.1132944
#3	.0409045	-.007057	.0504008	-.042389	-.006936	45.50677	.1121840

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037860	-.000590	1.593110	.0555275	.0624466	.0529238	138.3457
Stddev	.0001210	.000073	.009685	.0002961	.0000650	.0003466	.3378
%RSD	3.195069	12.42110	.6079360	.5332263	.1040391	.6548627	.2441782
#1	.0037575	-.000530	1.597362	.0551876	.0624149	.0531798	138.5630
#2	.0039187	-.000569	1.599942	.0556657	.0624036	.0525294	138.5176
#3	.0036819	-.000672	1.582026	.0557293	.0625213	.0530622	137.9565

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9347979	2.160898	.0459496	-.000509	.1583641	.1043613	.0652832
Stddev	.0024950	.030676	.0006410	.000080	.0112604	.0014527	.0005824
%RSD	.2669059	1.419592	1.394902	15.72249	7.110423	1.391939	.8920512
#1	.9376638	2.126185	.0456946	-.000437	.1622663	.1058002	.0658760
#2	.9336201	2.184359	.0466788	-.000595	.1456717	.1028953	.0647119
#3	.9331097	2.172151	.0454754	-.000495	.1671543	.1043884	.0652618

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9392097	-.049082	.0002257	.0024819	.5019119	1.251949	1.916994
Stddev	.0322843	.000880	.0001184	.0004926	.0057738	.006864	.007534
%RSD	3.437389	1.793345	52.46774	19.84914	1.150370	.5482618	.3930244
#1	.9247171	-.048736	.0000892	.0029436	.5083641	1.255792	1.913411
#2	.9167114	-.050082	.0003012	.0025388	.5001398	1.256031	1.911920
#3	.9762008	-.048426	.0002866	.0019633	.4972318	1.244025	1.925651

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01LX5 Acquired: 6/2/2025 20:14:38 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3590010	.0692370	-.128386
Stddev	.0033086	.0004376	.000324
%RSD	.9216079	.6321005	.2525965
#1	.3608546	.0690289	-.128566
#2	.3609672	.0689422	-.128580
#3	.3551811	.0697399	-.128011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3320.139	69684.97	13090.97	2454.036	4211.427
Stddev	5.929	115.92	32.49	11.031	1.112
%RSD	.1785759	.1663519	.2481831	.4495110	.0264090
#1	3317.751	69710.47	13066.56	2464.234	4210.143
#2	3326.890	69558.43	13078.50	2442.327	4212.108
#3	3315.777	69786.03	13127.85	2455.548	4212.029

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01MS Acquired: 6/2/2025 20:18:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0025860	k -.002402	k .0008772	k -.006766	k -.000880	s .0068022	s -.016910
Stddev	.0002545	.000224	.0001086	.000145	.000420	.0015102	.000684
%RSD	9.839932	9.337554	12.38253	2.138571	47.72792	22.20106	4.046627
#1	.0028650	-.002503	.0007933	-.006600	-.000479	.0076447	-.017208
#2	.0023667	-.002558	.0009999	-.006829	-.001317	.0077032	-.017395
#3	k .0025264	k -.002145	k .0008384	k -.006869	k -.000844	s .0050587	s -.016128

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0000525	k -.000035	s -.016853	k -.000555	k .0000096	k .0006349	k .0041984
Stddev	.0000012	.000001	.002459	.000065	.0000048	.0001083	.0014744
%RSD	2.264796	3.596320	14.58998	11.73938	50.34404	17.05977	35.11705
#1	.0000531	-.000034	-.016616	-.000530	.0000087	.0005843	.0059009
#2	.0000533	-.000034	-.014521	-.000629	.0000053	.0005612	.0033460
#3	s .0000511	k -.000037	s -.019421	k -.000507	k .0000148	k .0007593	k .0033484

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.000369	s .0102776	.0004798	k -.000005	-.146973	s -.000076	k -.001098
Stddev	.000115	.0071127	.0000630	.000190	.001314	.000784	.000072
%RSD	31.20265	69.20570	13.12498	4170.350	.8938878	1025.588	6.597439
#1	-.000438	.0169720	.0005085	-.000097	-.146519	-.000350	-.001023
#2	-.000236	.0110509	.0004076	.000214	-.145947	-.000687	-.001104
#3	s -.000433	s .0028099	.0005233	k -.000131	-.148454	s .000808	k -.001168

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.068859	s -.001942	-.000274	k -.003724	s -.000961	k -.029972	k -.007496
Stddev	.004996	.000241	.000027	.000042	.000382	.002931	.000196
%RSD	7.254807	12.41413	9.730778	1.129348	39.70628	9.777999	2.611986
#1	-.065075	-.002172	-.000245	-.003678	-.001247	-.027826	-.007418
#2	-.066980	-.001963	-.000297	-.003760	-.001109	-.028779	-.007351
#3	-.074521	s -.001691	-.000280	k -.003734	s -.000528	k -.033311	k -.007718

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01MS Acquired: 6/2/2025 20:18:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k -.007965	s -.000737	s -.000024
Stddev	.000753	.000060	.000033
%RSD	9.449285	8.116127	134.8891
#1	-.008831	-.000731	.000009
#2	-.007596	-.000681	-.000025
#3	k -.007468	s -.000800	s -.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15714.01	290232.8	^ *****	11666.39	21806.13
Stddev	56.03	32616.0	-----	335.62	68.08
%RSD	.3565327	11.23787	-----	2.876850	.3121912
#1	15778.11	259549.5	40470.20	11939.11	21883.91
#2	15689.52	324487.5	37815.28	11291.57	21757.37
#3	15674.40	286661.4	^ -----	11768.48	21777.11

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01MSD Acquired: 6/2/2025 20:23:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021908**	**-.002413**	**.0009133**	**-.006051**	**-.001328**	**.0053954**	**-.017151**
Stddev	.0002799	.000310	.0000910	.000645	.000314	.0013411	.000530
%RSD	12.77776	12.86005	9.964395	10.66738	23.63272	24.85601	3.090628
#1	.0021138	-.002152	.0009537	-.006526	-.001472	.0039009	-.016594
#2	.0019574	-.002756	.0009772	-.005316	-.001544	.0064938	-.017210
#3	.0025011	-.002330	.0008091	-.006311	-.000968	.0057915	-.017649

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000565**	**-.000041**	**-.018881**	**-.000578**	**.0000246**	**.0006272**	**-.000319**
Stddev	.0000148	.000034	.002255	.000042	.0000081	.0000419	.000834
%RSD	26.12749	81.85003	11.94523	7.276735	33.14832	6.685460	261.1944
#1	.0000570	-.000026	-.019733	-.000551	.0000281	.0005788	-.000370
#2	.0000415	-.000017	-.016324	-.000627	.0000153	.0006524	.000539
#3	.0000711	-.000079	-.020586	-.000557	.0000303	.0006504	-.001127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000595**	**.0120776**	**.0005584**	**.0000945**	**-.147681**	**-.000422**	**-.001132**
Stddev	.000099	.0003766	.0000588	.0000742	.001697	.000268	.000022
%RSD	16.66962	3.118512	10.53812	78.57835	1.148871	63.41438	1.944673
#1	-.000509	.0116516	.0005357	.0001184	-.146184	-.000722	-.001143
#2	-.000572	.0122149	.0006252	.0000112	-.147335	-.000341	-.001147
#3	-.000703	.0123664	.0005142	.0001538	-.149524	-.000205	-.001107

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.069617**	**-.002219**	**-.000243**	**-.003717**	**-.001030**	**-.031063**	**-.006888**
Stddev	.010333	.000211	.000017	.000114	.000136	.001859	.000250
%RSD	14.84281	9.488536	7.073540	3.066357	13.23074	5.984098	3.634924
#1	-.066825	-.001976	-.000250	-.003634	-.000986	-.029192	-.006830
#2	-.081059	-.002330	-.000223	-.003847	-.000921	-.031089	-.006672
#3	-.060966	-.002350	-.000255	-.003669	-.001183	-.032909	-.007162

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01MSD Acquired: 6/2/2025 20:23:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007622	-.000507	-.000013
Stddev	.000303	.000403	.000021
%RSD	3.980773	79.62867	155.6549
#1	-.007888	-.000966	.000009
#2	-.007292	-.000344	-.000018
#3	-.007685	-.000210	-.000032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15801.96	292050.5	39021.04	11428.49	22375.60
Stddev	175.32	7940.3	5745.58	85.74	208.30
%RSD	1.109462	2.718803	14.72431	.7502367	.9309169
#1	15605.57	283216.3	35222.51	11499.68	22141.29
#2	15857.65	294342.6	36209.67	11452.48	22445.74
#3	15942.67	298592.5	45630.93	11333.31	22539.78

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01A Acquired: 6/2/2025 20:27:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022425	-.002353	.0009898	-.005905	-.000933	.0038681	-.017540
Stddev	.0001819	.000574	.0003867	.000712	.000098	.0019799	.000193
%RSD	8.112395	24.39214	39.06881	12.06431	10.48322	51.18548	1.098011
#1	.0020702	-.002370	.0014356	-.005237	-.000886	.0041517	-.017340
#2	.0022245	-.002918	.0007885	-.005823	-.000868	.0056909	-.017724
#3	.0024327	-.001771	.0007453	-.006654	-.001046	.0017617	-.017556

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000421	-.000023	-.016297	-.000589	.0000706	.0006593	-.001677
Stddev	.0000055	.000004	.002850	.000041	.0000452	.0000367	.000663
%RSD	13.08491	16.70919	17.48702	6.909934	64.05631	5.563885	39.53957
#1	.0000428	-.000026	-.013050	-.000547	.0001228	.0007016	-.001145
#2	.0000472	-.000019	-.018385	-.000590	.0000457	.0006407	-.002420
#3	.0000362	-.000025	-.017456	-.000629	.0000433	.0006357	-.001466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000426	.0152080	.0006008	.0001301	-.144756	-.000411	-.001150
Stddev	.000120	.0077486	.0000976	.0000786	.000129	.000627	.000055
%RSD	28.29479	50.95076	16.24703	60.41877	.0891075	152.4372	4.800884
#1	-.000290	.0220624	.0004882	.0001403	-.144643	-.001041	-.001109
#2	-.000519	.0167610	.0006547	.0000469	-.144896	-.000406	-.001128
#3	-.000469	.0068005	.0006596	.0002031	-.144729	.000213	-.001213

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.068487	-.002496	-.000287	-.003718	-.001051	-.031283	-.006453
Stddev	.003086	.000240	.000015	.000110	.000296	.001222	.000336
%RSD	4.505386	9.613072	5.172294	2.952827	28.14653	3.907770	5.208890
#1	-.067582	-.002392	-.000272	-.003706	-.000944	-.032527	-.006138
#2	-.065955	-.002326	-.000287	-.003833	-.001385	-.030084	-.006414
#3	-.071924	-.002771	-.000302	-.003615	-.000823	-.031238	-.006807

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2172-01A Acquired: 6/2/2025 20:27:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007954	.0000811	-.000016
Stddev	.000193	.0002267	.000009
%RSD	2.424794	279.3677	52.92900
#1	-.007809	.0003043	-.000006
#2	-.008173	.0000880	-.000022
#3	-.007880	-.000149	-.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16176.80	316696.5	39580.46	11608.54	22846.25
Stddev	1026.91	16911.0	3441.54	145.13	1384.49
%RSD	6.348027	5.339805	8.695043	1.250192	6.060037
#1	15644.64	320576.1	35759.26	11442.86	22127.17
#2	17360.56	298182.9	42436.04	11669.61	24442.32
#3	15525.19	331330.6	40546.10	11713.16	21969.26

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-01 Acquired: 6/2/2025 20:32:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023222	-.002695	.0011294	-.005957	-.001101	.0056497	-.017522
Stddev	.0004522	.000397	.0000726	.000252	.000220	.0015109	.000319
%RSD	19.47188	14.73953	6.424618	4.223386	19.97218	26.74390	1.818933
#1	.0019654	-.002718	.0012102	-.005957	-.001007	.0046443	-.017495
#2	.0021706	-.002286	.0011084	-.006209	-.000943	.0049175	-.017217
#3	.0028307	-.003079	.0010697	-.005706	-.001352	.0073872	-.017853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000623	-.000023	-.016796	-.000576	.0000479	.0006474	-.000877
Stddev	.0000052	.000014	.004164	.000073	.0000782	.0000506	.000323
%RSD	8.291035	60.77588	24.78892	12.70736	163.3173	7.821740	36.84338
#1	.0000611	-.000015	-.013225	-.000642	.0000363	.0006162	-.001102
#2	.0000579	-.000015	-.015794	-.000588	-.000024	.0007058	-.001023
#3	.0000680	-.000039	-.021369	-.000498	.000131	.0006202	-.000507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000551	.0191367	.0005662	.0000715	-.144809	-.000606	-.001126
Stddev	.000092	.0027379	.0000440	.0002265	.000887	.000964	.000020
%RSD	16.69514	14.30733	7.778488	316.6749	.6124135	159.0974	1.749667
#1	-.000628	.0191297	.0005716	.0003248	-.145833	.000107	-.001142
#2	-.000576	.0164023	.0005197	.0000011	-.144324	-.000222	-.001132
#3	-.000449	.0218782	.0006072	-.000111	-.144271	-.001702	-.001104

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.077474	-.002609	-.000251	-.003828	-.001227	-.030907	-.006844
Stddev	.011587	.000238	.000062	.000123	.000282	.000797	.000341
%RSD	14.95581	9.106011	24.65100	3.203342	22.99569	2.580099	4.977486
#1	-.079828	-.002564	-.000322	-.003958	-.000993	-.031559	-.006792
#2	-.087703	-.002397	-.000209	-.003715	-.001148	-.031144	-.006533
#3	-.064891	-.002866	-.000221	-.003812	-.001540	-.030018	-.007208

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-01 Acquired: 6/2/2025 20:32:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007466	-.000092	-.000035
Stddev	.000162	.000352	.000031
%RSD	2.175406	382.2808	86.91814
#1	-.007401	-.000376	-.000067
#2	-.007651	.000302	-.000033
#3	-.007346	-.000202	-.000006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16759.63	288387.6	44279.53	11092.38	23520.81
Stddev	558.13	26376.3	3346.05	869.43	753.22
%RSD	3.330207	9.146134	7.556662	7.838077	3.202355
#1	16207.83	318844.4	40555.78	10117.32	22806.14
#2	17323.88	273153.5	45249.00	11786.91	24307.41
#3	16747.19	273165.0	47033.80	11372.92	23448.88

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-07 Acquired: 6/2/2025 20:36:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0021342	k -.002192	k .0009777	k -.005846	k -.001118	s .0045654	s -.016873
Stddev	.0006470	.000349	.0000542	.000457	.000590	.0044962	.000735
%RSD	30.31672	15.93404	5.540173	7.809743	52.78033	98.48469	4.356755
#1	.0028065	-.001795	.0009153	-.005696	-.000761	-.000612	-.016671
#2	.0015158	-.002331	.0010126	-.006359	-.000794	.006816	-.017687
#3	k .0020802	k -.002450	k .0010052	k -.005484	k -.001799	s .007492	s -.016259

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0000419	k -.000030	s -.015891	k -.000555	k .0000160	k .0007207	k -.001591
Stddev	.0000119	.000019	.001856	.000049	.0000342	.0000644	.000917
%RSD	28.32941	62.88095	11.68084	8.905551	214.3678	8.939611	57.61171
#1	.0000492	-.000050	-.017887	-.000518	-.000022	.0007910	-.002313
#2	.0000483	-.000028	-.015570	-.000537	.000026	.0007069	-.001900
#3	s .0000282	k -.000012	s -.014216	k -.000611	k .000044	k .0006644	k -.000560

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.000676	s .0139388	.0005860	k .0001522	-.145202	s .0001756	k -.001137
Stddev	.000098	.0009702	.0000189	.0001573	.001687	.0005744	.000036
%RSD	14.45119	6.960480	3.224238	103.4036	1.161730	327.2002	3.208148
#1	-.000612	.0129476	.0005759	-.000027	-.143272	.0000448	-.001101
#2	-.000627	.0139823	.0005743	.000266	-.146396	-.000322	-.001173
#3	s -.000788	s .0148865	.0006078	k .000218	-.145937	s .000804	k -.001136

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.073547	s -.002572	-.000309	k -.003682	s -.000830	k -.032680	k -.008283
Stddev	.005785	.000186	.000063	.000243	.000317	.001074	.000282
%RSD	7.865722	7.216171	20.29023	6.594736	38.22989	3.287834	3.401993
#1	-.067312	-.002376	-.000362	-.003611	-.001121	-.031706	-.008604
#2	-.074589	-.002745	-.000325	-.003483	-.000878	-.033833	-.008074
#3	-.078740	s -.002595	-.000240	k -.003952	s -.000492	k -.032502	k -.008172

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-07 Acquired: 6/2/2025 20:36:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k -.007690	s -.000201	s -.000034
Stddev	.000244	.000487	.000005
%RSD	3.177376	242.0311	15.50559
#1	-.007891	-.000222	-.000035
#2	-.007418	.000296	-.000029
#3	k -.007762	s -.000677	s -.000039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15706.21	329640.3	^ *****	11096.97	21451.28
Stddev	953.99	8071.9	-----	755.61	1251.93
%RSD	6.073946	2.448690	-----	6.809182	5.836168
#1	15104.13	320539.4	41687.31	11935.05	20627.48
#2	15208.37	335932.8	48250.78	10467.77	20834.42
#3	16806.14	332448.7	^ -----	10888.10	22891.95

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-13 Acquired: 6/2/2025 20:41:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0023579	k -.002702	k .0009708	k -.006751	k -.001209	s .0072682	s -.015160
Stddev	.0000988	.000105	.0003285	.000083	.000125	.0021209	.003775
%RSD	4.187817	3.880776	33.83564	1.234334	10.37388	29.18059	24.90059
#1	.0024604	-.002736	.0013005	-.006842	-.001343	.0078061	-.017078
#2	k .0022634	k -.002584	k .0009684	k -.006678	k -.001095	s .0090683	s -.010811
#3	k .0023500	k -.002785	k .0006435	k -.006732	k -.001189	.0049301	-.017590

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0000380	k -.000021	s -.015773	s -.000251	k .0000538	k .0007418	s -.003387
Stddev	.0000341	.000021	.002751	.000590	.0000197	.0000593	.004021
%RSD	89.65104	101.0150	17.44048	234.5980	36.65468	7.995766	118.7301
#1	.0000573	-.000015	-.012905	-.000572	.0000563	.0006815	-.000479
#2	s -.000001	k -.000043	s -.018389	k -.000611	k .0000330	k .0008000	k -.001706
#3	.000058	k -.000003	k -.016027	s .000429	k .0000722	k .0007438	s -.007976

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.000461	s .0134444	.0005416	s .0205921	s .0620827	s -.000751	s -.001014
Stddev	.000201	.0069333	.0000307	.0355563	.3638133	.000158	.000140
%RSD	43.62413	51.57023	5.659880	172.6692	586.0142	20.98705	13.79346
#1	-.000530	.0213994	.0005709	.0000949	-.147684	-.000668	-.001074
#2	s -.000235	s .0102473	.0005097	k .0000325	-.148246	s -.000933	k -.001114
#3	k -.000619	.0086865	.0005443	s .0616490	s .482178	k -.000653	s -.000854

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .1068973	s -.002437	-.000314	k -.003685	s .0003886	s -.121004	k -.007773
Stddev	.3036175	.000674	.000021	.000092	.0030219	.154145	.000455
%RSD	284.0273	27.66279	6.567775	2.484733	777.6385	127.3889	5.857163
#1	-.064601	-.002902	-.000297	-.003781	-.001340	-.032018	-.007284
#2	-.072165	s -.001664	-.000309	k -.003598	s .003878	k -.031998	k -.008185
#3	s .457457	k -.002746	-.000337	k -.003677	k -.001373	s -.298995	k -.007851

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2173-13 Acquired: 6/2/2025 20:41:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k -.007951	s -.000956	s -.000057
Stddev	.000352	.001299	.000029
%RSD	4.431910	135.8463	51.29223
#1	-.008125	-.000370	-.000033
#2	k -.008183	s -.002445	s -.000089
#3	k -.007546	k -.000054	k -.000049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16565.81	^ *****	^ *****	^ *****	22724.35
Stddev	987.51	-----	-----	-----	1287.05
%RSD	5.961162	-----	-----	-----	5.663746
#1	17655.76	288663.9	42465.08	10887.34	24147.97
#2	16311.01	305358.3	^ -----	10950.15	22381.98
#3	15730.67	^ -----	42441.04	^ -----	21643.10

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV09 Acquired: 6/2/2025 20:45:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.844501**	**4.699533**	**4.808717**	**4.873168**	**4.873630**	**9.623914**	**9.648014**
Stddev	.007546	.050101	.014874	.021380	.008905	.046747	.073412
%RSD	.1557699	1.066085	.3093173	.4387316	.1827162	.4857426	.7609008
#1	4.835817	4.658209	4.796551	4.858602	4.864190	9.666344	9.732330
#2	4.848225	4.685132	4.804300	4.863188	4.874822	9.573801	9.613430
#3	4.849462	4.755257	4.825299	4.897713	4.881880	9.631596	9.598281

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2356502**	**2.414003**	**24.10668**	**.9769794**	**2.412319**	**1.226735**	**4.893744**
Stddev	.0016317	.007322	.13866	.0024865	.008092	.002085	.018997
%RSD	.6924158	.3033306	.5751728	.2545052	.3354286	.1699703	.3881986
#1	.2374163	2.407941	24.26438	.9775882	2.406805	1.225044	4.884126
#2	.2353355	2.411930	24.00387	.9742450	2.408543	1.226098	4.881478
#3	.2341988	2.422139	24.05180	.9791049	2.421608	1.229065	4.915627

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.406057**	**23.91237**	**2.410618**	**1.203246**	**24.01775**	**2.424470**	**2.270627**
Stddev	.014369	.09850	.008077	.001389	.14873	.017366	.019199
%RSD	.5971810	.4119201	.3350589	.1153990	.6192401	.7162870	.8455580
#1	2.422530	24.02273	2.405799	1.204748	24.01388	2.444218	2.260775
#2	2.396107	23.88099	2.406112	1.202010	23.87099	2.411582	2.292752
#3	2.399534	23.83337	2.419943	1.202980	24.16837	2.417610	2.258353

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.76058**	**4.676165**	**4.950841**	**4.821287**	**4.822869**	**4.896211**	**5.013681**
Stddev	.19390	.030009	.010198	.011533	.024969	.035079	.021774
%RSD	.8160559	.6417382	.2059935	.2392182	.5177264	.7164609	.4342857
#1	23.67329	4.707191	4.941969	4.813326	4.848209	4.865966	4.997202
#2	23.62567	4.674016	4.948571	4.816021	4.798288	4.887998	5.005476
#3	23.98278	4.647289	4.961984	4.834513	4.822112	4.934668	5.038366

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV09 Acquired: 6/2/2025 20:45:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.730308**	**4.693100**	**4.802607**
Stddev	.015731	.023780	.028695
%RSD	.3325557	.5066996	.5974801
#1	4.721785	4.715142	4.833950
#2	4.720677	4.667898	4.796241
#3	4.748461	4.696259	4.777630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3139.936**	**64871.16**	**12046.99**	**2306.211**	**4130.091**
Stddev	2.192	225.96	72.91	10.385	3.411
%RSD	.0698246	.3483172	.6052021	.4502843	.0825957
#1	3137.511	64852.96	11962.80	2299.287	4127.336
#2	3140.517	65105.66	12089.36	2318.151	4133.907
#3	3141.779	64654.85	12088.81	2301.196	4129.032

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB09 Acquired: 6/2/2025 20:49:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018753**	**-.000375**	**.0010523**	**.0003881**	**-.002037**	**-.006849**	**-.002044**
Stddev	.0007204	.002194	.0013227	.0022827	.002626	.006976	.000210
%RSD	38.41789	585.6051	125.7048	588.1869	128.9215	101.8548	10.28943
#1	.0016850	-.001006	-.000302	-.000667	-.003629	-.008187	-.002276
#2	.0012691	-.002183	.002340	-.001176	-.003475	.000699	-.001866
#3	.0026718	.002066	.001119	.003007	.000994	-.013059	-.001991

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**-.000089**	**-.005440**	**.0006909**	**.0001201**	**-.000092**	**.0032751**
Stddev	.000058	.000009	.005271	.0002583	.0000677	.000578	.0019588
%RSD	344.5277	10.31357	96.89773	37.38700	56.32333	629.0483	59.80876
#1	-.000077	-.000079	-.003391	.0009370	.0001871	.000025	.0054712
#2	-.000013	-.000093	-.001501	.0004219	.0001215	.000419	.0017082
#3	.000039	-.000096	-.011428	.0007139	.0000518	-.000720	.0026460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001536**	**-.005963**	**.0003550**	**-.000015**	**-.071738**	**-.000438**	**.0006728**
Stddev	.0003622	.022230	.0002078	.000056	.006418	.000666	.0001531
%RSD	235.8776	372.8160	58.52845	367.6617	8.946618	151.8319	22.76281
#1	.0004474	-.029687	.0002680	.000039	-.069100	-.000440	.0008300
#2	-.000251	-.002589	.0002049	-.000011	-.067059	-.001103	.0006643
#3	.000264	.014387	.0005922	-.000074	-.079054	.000228	.0005240

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096121**	**.0048005**	**.0006970**	**-.000517**	**.0003002**	**-.000328**	**-.002073**
Stddev	.0129687	.0005036	.0001424	.000873	.0005815	.005980	.002687
%RSD	134.9211	10.49017	20.43195	168.8838	193.6767	1820.967	129.6101
#1	-.004731	.0046605	.0008612	-.001451	.0009702	-.000207	.000626
#2	.013055	.0043818	.0006069	-.000378	.0000033	.005590	-.002097
#3	.020512	.0053593	.0006230	.000279	-.000073	-.006369	-.004749

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB09 Acquired: 6/2/2025 20:49:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001974	.0012096	-.000033
Stddev	.0023642	.0005113	.000058
%RSD	1197.703	42.26983	174.5124
#1	.0014780	.0011328	.000030
#2	-.002531	.0007410	-.000083
#3	.001645	.0017549	-.000047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3176.382	65446.65	12118.47	2377.429	4302.722
Stddev	28.816	154.85	36.03	5.218	41.139
%RSD	.9072094	.2366067	.2973017	.2194727	.9561084
#1	3189.778	65518.95	12156.80	2373.907	4326.262
#2	3196.061	65552.13	12113.29	2383.423	4326.685
#3	3143.305	65268.87	12085.31	2374.956	4255.220

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168236BL Acquired: 6/2/2025 20:54:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015871	-.000148	.0012985	.0010561	-.001006	.0137754	-.001787
Stddev	.0024261	.001769	.0016107	.0020264	.000513	.0062641	.001255
%RSD	152.8628	1197.832	124.0430	191.8802	51.01690	45.47269	70.27130
#1	.0030501	-.000867	.0026444	.0014249	-.001148	.0199047	-.003224
#2	-.001213	-.001445	.0017372	-.001129	-.001435	.0073848	-.001230
#3	.002924	.001868	-.000486	.002873	-.000437	.0140368	-.000906

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000408	-.000079	.0022407	.0005809	.0001709	.0000103	.0095599
Stddev	.0000114	.000020	.0057704	.0004895	.0002188	.0003294	.0002768
%RSD	27.83455	24.75770	257.5225	84.26856	128.0252	3214.833	2.895979
#1	.0000506	-.000061	.0087310	.0008380	.0004084	.0002263	.0096349
#2	.0000434	-.000077	-.002310	.0008883	-.000022	-.000369	.0092533
#3	.0000284	-.000100	.000301	.0000164	.000127	.000173	.0097916

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000277	.0101373	.0002122	-.000051	-.061679	.0007545	.0018561
Stddev	.0002396	.0218581	.0000282	.000338	.013936	.0008444	.0001039
%RSD	866.0984	215.6201	13.28664	669.9769	22.59373	111.9121	5.597255
#1	-.000041	.0298007	.0002287	-.000243	-.071233	-.000207	.0017927
#2	.000294	-.013398	.0002281	-.000249	-.045689	.001375	.0017995
#3	-.000170	.014009	.0001796	.000340	-.068116	.001096	.0019760

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.019638	.0017820	.0003849	-.000505	-.000062	.0028624	-.002136
Stddev	.022049	.0008135	.0003041	.000286	.000103	.0039933	.003109
%RSD	112.2782	45.65168	79.01244	56.58885	166.6221	139.5055	145.5602
#1	-.044402	.0023962	.0002638	-.000815	-.000045	.0056468	.001327
#2	-.002137	.0008594	.0001600	-.000251	.000031	-.001713	-.004688
#3	-.012374	.0020903	.0007309	-.000450	-.000172	.004653	-.003046

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168236BL Acquired: 6/2/2025 20:54:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012804	-.000357	-.000007
Stddev	.0012076	.000943	.000079
%RSD	94.31832	263.9386	1056.804
#1	.0024945	.000394	-.000044
#2	.0000793	-.001415	.000083
#3	.0012674	-.000050	-.000062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.095	65606.29	12600.17	2352.341	4251.852
Stddev	8.098	95.36	2.31	6.049	7.776
%RSD	.2568410	.1453509	.0183627	.2571345	.1828898
#1	3155.200	65681.85	12597.51	2357.477	4254.397
#2	3159.933	65637.87	12601.72	2345.674	4258.036
#3	3144.152	65499.14	12601.27	2353.872	4243.122

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168236BS Acquired: 6/2/2025 20:58:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8063756	1.899587	.9769415	2.050485	.8249348	1.975921	.1926446
Stddev	.0025250	.015614	.0021930	.009156	.0014205	.007125	.0009219
%RSD	.3131343	.8219558	.2244762	.4465081	.1721963	.3605965	.4785639
#1	.8065389	1.888067	.9746569	2.043530	.8251925	1.970677	.1923285
#2	.8037728	1.893337	.9790297	2.047067	.8234031	1.973053	.1919222
#3	.8088150	1.917358	.9771380	2.060858	.8262088	1.984033	.1936830

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900946	.2005454	1.024349	.4117544	.2010179	.3172793	3.109467
Stddev	.0001887	.0003001	.004532	.0020988	.0005542	.0009173	.009838
%RSD	.0992699	.1496529	.4423841	.5097234	.2757104	.2891179	.3163761
#1	.1899112	.2002010	1.027426	.4136394	.2006404	.3167075	3.100058
#2	.1900844	.2006844	1.019145	.4121311	.2007592	.3167930	3.108660
#3	.1902882	.2007509	1.026475	.4094928	.2016542	.3183374	3.119683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1985088	1.940142	.5056975	.0736023	2.807211	.2988816	.1958087
Stddev	.0005404	.009140	.0008312	.0003914	.008422	.0005828	.0012762
%RSD	.2722462	.4711138	.1643642	.5318084	.3000179	.1949758	.6517495
#1	.1979813	1.936364	.5047482	.0740298	2.803895	.2994580	.1972280
#2	.1984837	1.933497	.5062947	.0735156	2.800952	.2988940	.1947558
#3	.1990613	1.950566	.5060497	.0732615	2.816787	.2982927	.1954423

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.651923	.2746009	.4203662	.6964602	.1961803	.8591279	5.937380
Stddev	.029856	.0014418	.0013321	.0012024	.0007409	.0094022	.013513
%RSD	.3093311	.5250381	.3168825	.1726425	.3776575	1.094391	.2275945
#1	9.617746	.2732817	.4198203	.6950872	.1953478	.8519398	5.934678
#2	9.665094	.2743810	.4193939	.6969680	.1967674	.8697683	5.925423
#3	9.672930	.2761400	.4218845	.6973254	.1964256	.8556757	5.952040

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: PB168236BS Acquired: 6/2/2025 20:58:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007098	.1964559	.1930706
Stddev	.002330	.0010297	.0003664
%RSD	32.82039	.5241521	.1897837
#1	-.006813	.1962676	.1930112
#2	-.004924	.1955333	.1927374
#3	-.009557	.1975668	.1934630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3201.121	67338.82	12928.70	2356.581	4374.424
Stddev	10.002	62.46	27.85	12.171	10.717
%RSD	.3124593	.0927578	.2154138	.5164568	.2449857
#1	3210.112	67266.69	12952.72	2345.249	4386.798
#2	3202.904	67375.00	12935.21	2355.047	4368.178
#3	3190.347	67374.76	12898.17	2369.445	4368.295

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2175-02 Acquired: 6/2/2025 21:02:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022962	-.002411	.0010039	-.006493	-.001345	.0053026	-.017495
Stddev	.0004026	.000114	.0002032	.000531	.000267	.0005675	.000334
%RSD	17.53358	4.720183	20.23644	8.176673	19.82389	10.70171	1.910987
#1	.0018802	-.002295	.0010192	-.006639	-.001337	.0046719	-.017719
#2	.0026839	-.002416	.0011989	-.005904	-.001615	.0057719	-.017656
#3	.0023244	-.002522	.0007935	-.006935	-.001082	.0054640	-.017111

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000589	-.000030	-.016775	-.000559	.0000172	.0006480	-.001560
Stddev	.0000061	.000008	.000799	.000054	.0000289	.0001142	.000828
%RSD	10.41484	27.77276	4.765497	9.638543	168.0103	17.62955	53.11763
#1	.0000593	-.000040	-.015955	-.000606	.0000001	.0007692	-.001580
#2	.0000649	-.000024	-.017552	-.000572	.0000506	.0005423	-.002377
#3	.0000526	-.000026	-.016816	-.000500	.0000009	.0006325	-.000721

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000494	.0136401	.0006134	.0000810	-.143262	-.000198	-.001061
Stddev	.000087	.0011894	.0000273	.0001294	.000673	.000160	.000024
%RSD	17.65837	8.719760	4.445120	159.6565	.4698379	81.03048	2.268481
#1	-.000487	.0128080	.0005839	-.000066	-.143923	-.000354	-.001033
#2	-.000410	.0150023	.0006376	.000132	-.142578	-.000206	-.001075
#3	-.000584	.0131099	.0006189	.000177	-.143286	-.000034	-.001074

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.074017	-.002051	-.000334	-.003801	-.001258	-.031363	-.006232
Stddev	.006178	.000050	.000022	.000114	.000219	.001701	.000390
%RSD	8.347011	2.442908	6.646339	2.998546	17.43397	5.424397	6.250253
#1	-.070608	-.002060	-.000357	-.003891	-.001509	-.029787	-.005882
#2	-.081149	-.001997	-.000333	-.003839	-.001105	-.031137	-.006163
#3	-.070295	-.002096	-.000312	-.003673	-.001160	-.033167	-.006652

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: Q2175-02 Acquired: 6/2/2025 21:02:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007767	-.000173	.0000195
Stddev	.000396	.000287	.0000109
%RSD	5.101305	165.6962	55.85633
#1	-.007875	-.000032	.0000295
#2	-.008098	.000016	.0000079
#3	-.007328	-.000503	.0000210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	17887.90	330703.1	46295.47	12963.71	25075.74
Stddev	815.03	31473.2	4670.75	205.85	1100.81
%RSD	4.556302	9.517048	10.08900	1.587871	4.389941
#1	18479.82	296056.1	50361.57	13093.74	25881.96
#2	16958.31	338526.5	47330.97	12726.38	23821.58
#3	18225.58	357526.6	41193.86	13071.01	25523.69

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV10 Acquired: 6/2/2025 21:06:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF .0021095	kF -.002447	kF .0006384	kF -.006063	kF -.000911	sF .0037275
Stddev	.0002354	.000332	.0003810	.000673	.000197	.0012014
%RSD	11.15661	13.56923	59.67194	11.09714	21.61502	32.23093
#1	.0018449	-.002828	.0002724	-.005344	-.001114	.0046649
#2	k .0022954	k -.002224	k .0010328	k -.006167	k -.000721	s .0023732
#3	.0021882	-.002288	.0006101	-.006678	-.000897	.0041445

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -.017578	sF .0000479	kF -.000042	sF -.017754	kF -.000610	kF -.000005
Stddev	.000225	.0000134	.000003	.001144	.000101	.000032
%RSD	1.279600	27.91155	6.683027	6.441785	16.55746	619.4329
#1	-.017737	.0000361	-.000043	-.016444	-.000498	-.000002
#2	s -.017320	s .0000624	k -.000039	s -.018265	k -.000693	k .000025
#3	-.017676	.0000452	-.000044	-.018552	-.000641	-.000039

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF .0006810	kF -.001821	sF -.000509	sF .0155748	F .0005876	kF .0000792
Stddev	.0000576	.000535	.000032	.0102094	.0000512	.0001175
%RSD	8.450049	29.37342	6.285400	65.55046	8.721580	148.4308
#1	.0007376	-.001467	-.000495	.0041363	.0005351	-.000049
#2	k .0006829	k -.002436	s -.000487	s .0188238	.0005903	k .000182
#3	.0006226	-.001559	-.000546	.0237643	.0006374	.000105

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.145749	sF -.000493	kF -.001113	F -.071762	sF -.002011	F -.000354
Stddev	.005178	.000531	.000033	.006055	.000063	.000033
%RSD	3.552731	107.6458	2.934773	8.437979	3.110440	9.222998
#1	-.146328	-.000292	-.001145	-.064850	-.002052	-.000365
#2	-.140305	s -.001095	k -.001080	-.076128	s -.002042	-.000381
#3	-.150613	-.000092	-.001113	-.074309	-.001939	-.000318

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCV10 Acquired: 6/2/2025 21:06:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF **-.003841**	sF **-.001363**	kF **-.031919**	kF **-.007949**	kF **-.007796**	sF **-.000053**
Stddev	.000102	.000197	.000778	.000576	.000061	.000318
%RSD	2.648124	14.46057	2.438522	7.240815	.7802688	601.9878
#1	-.003779	-.001569	-.032716	-.008450	-.007838	.000314
#2	k -.003785	s -.001343	k -.031880	k -.007320	k -.007726	s -.000222
#3	-.003958	-.001176	-.031161	-.008076	-.007824	-.000252

Elem	Sr4077
Units	ppm
Avg	sF **-.000012**
Stddev	.000006
%RSD	46.60426
#1	-.000018
#2	s -.000007
#3	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17307.36**	**343770.1**	^ *****	**12808.45**	**23695.32**
Stddev	467.20	44181.5	-----	476.66	652.29
%RSD	2.699433	12.85204	-----	3.721455	2.752841
#1	16834.64	293349.4	47554.93	12604.22	23033.52
#2	17768.83	375712.0	^ -----	12467.94	24337.67
#3	17318.60	362249.1	45105.31	13353.20	23714.77

Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB10 Acquired: 6/2/2025 21:11:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0026362	k -.002653	k .0008378	k -.006894	k -.001118	s .0048590	s -.016851
Stddev	.0001290	.000200	.0001591	.000637	.000520	.0008021	.001814
%RSD	4.893864	7.547787	18.98520	9.240588	46.53847	16.50816	10.76591
#1	.0025559	-.002850	.0006813	-.006575	-.000592	.0047422	-.018043
#2	k .0025677	k -.002661	k .0009993	k -.007627	k -.001632	s .0041216	s -.014764
#3	.0027850	-.002449	.0008329	-.006478	-.001128	.0057131	-.017748

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0000433	k -.000035	s -.017063	k -.000524	k .0000409	k .0006800	k -.002141
Stddev	.0000124	.000014	.002586	.000028	.0000028	.0000491	.000335
%RSD	28.57469	40.28365	15.15342	5.291707	6.958331	7.215244	15.66075
#1	.0000297	-.000029	-.017679	-.000555	.0000407	.0006730	-.002383
#2	s .0000464	k -.000052	s -.014225	k -.000517	k .0000381	k .0007322	k -.002282
#3	.0000539	-.000026	-.019284	-.000501	.0000438	.0006348	-.001758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.000477	s .0153204	.0005541	k .0002005	-.145626	s -.000687	k -.001151
Stddev	.000240	.0029290	.0000302	.0000616	.001487	.000180	.000093
%RSD	50.35566	19.11842	5.452609	30.69935	1.020870	26.15559	8.117598
#1	-.000271	.0185399	.0005337	.0002715	-.145839	-.000771	-.001052
#2	s -.000741	s .0128132	.0005888	k .0001654	-.146996	s -.000481	k -.001237
#3	-.000420	.0146083	.0005398	.0001645	-.144045	-.000809	-.001164

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.074202	s -.002404	-.000346	k -.003725	s -.000540	k -.031910	k -.006040
Stddev	.006229	.000246	.000013	.000115	.001250	.000901	.000448
%RSD	8.394957	10.23579	3.738441	3.098878	231.3628	2.822036	7.410671
#1	-.067522	-.002441	-.000337	-.003596	-.000881	-.032036	-.005565
#2	-.079852	s -.002141	-.000340	k -.003818	s .000845	k -.032740	k -.006099
#3	-.075233	-.002629	-.000361	-.003761	-.001584	-.030952	-.006454

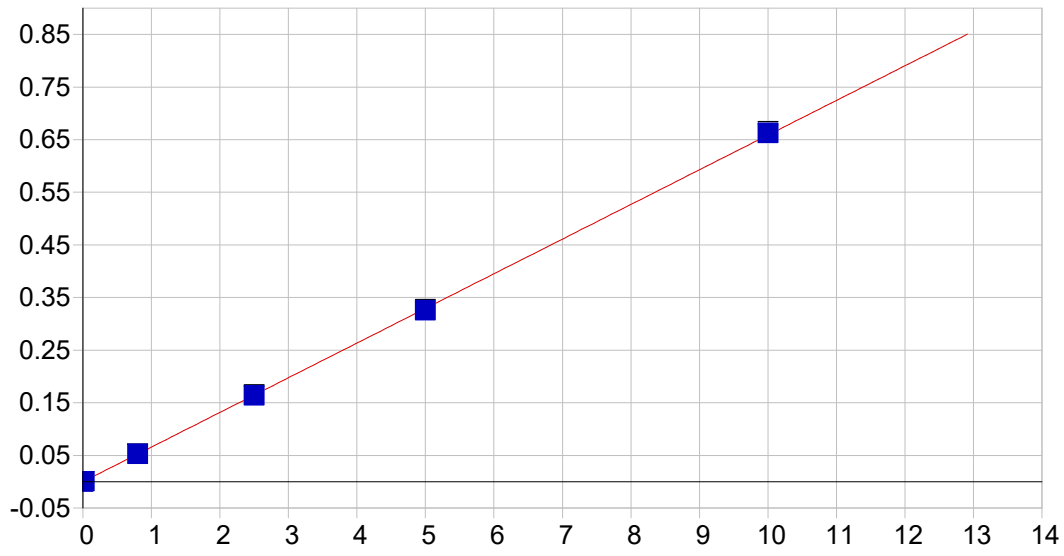
Reviewed By:Janvi
On:6/4/2025 10:58:40 AM
Inst Id :P4
LB :LB135981

Sample Name: CCB10 Acquired: 6/2/2025 21:11:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k -.008202	s -.000177	s -.000023
Stddev	.000552	.000602	.000006
%RSD	6.730916	339.9483	27.33254
#1	-.008100	-.000238	-.000019
#2	k -.007707	s -.000746	s -.000020
#3	-.008797	.000453	-.000030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	18245.14	362049.0	^ *****	13073.92	25610.78
Stddev	1136.09	12532.3	-----	459.34	1557.71
%RSD	6.226782	3.461496	-----	3.513396	6.082227
#1	17338.06	375743.6	42165.93	13087.83	24455.53
#2	19519.41	359251.8	^ -----	13526.15	27382.34
#3	17877.96	351151.7	51531.91	12607.79	24994.45

Reviewed By:
On:
Inst Id :P4
LB :LB135993



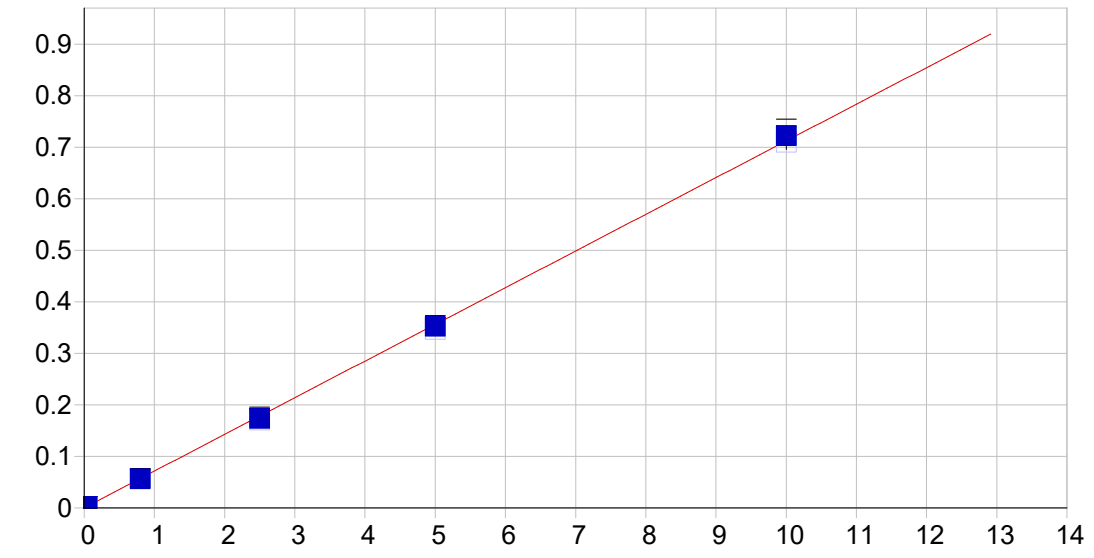
As 189.042 {479}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000145	Re-Slope:	1.000000
A1 (Gain):	0.065883	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002376		
Predicted MQL:	0.007921		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00015	.000	1
S1	.02000	.01921	-.001	-3.94	.00111	.000	1
S3	2.5000	2.4881	-.012	-.475	.16360	.001	1
S4	5.0000	4.9469	-.053	-1.06	.32542	.002	1
S5	10.000	10.064	.064	.640	.66219	.003	1
S2	.80000	.80171	.002	.213	.05262	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



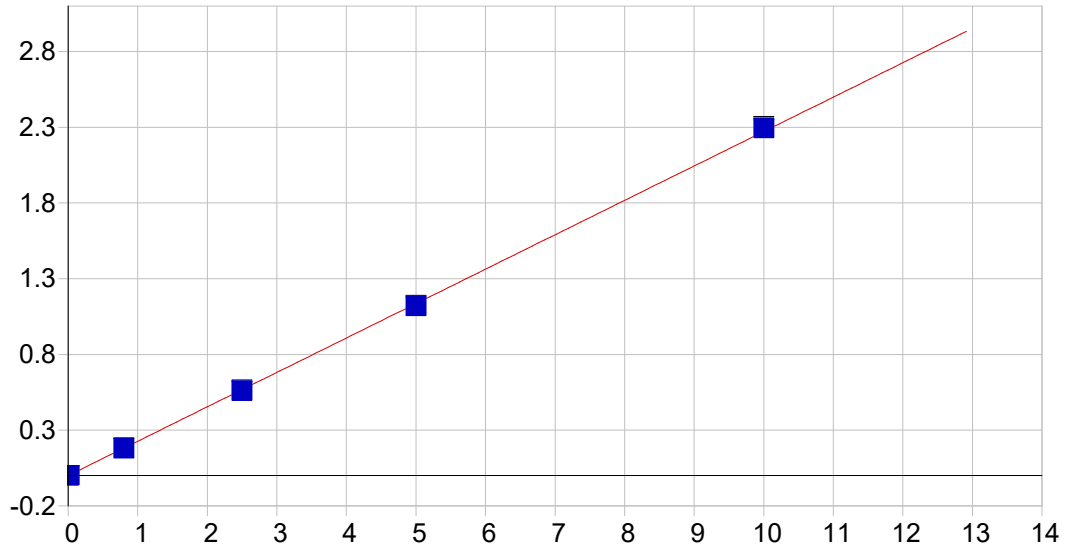
Tl 190.856 {477}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000302	Re-Slope:	1.000000
A1 (Gain):	0.071178	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.002082		
Predicted MQL:	0.006940		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00030	.000	1
S1	.04000	.03699	-.003	-7.52	.00275	.000	1
S3	2.5000	2.4317	-.068	-2.73	.17012	.003	1
S4	5.0000	4.9442	-.056	-1.12	.34568	.002	1
S5	10.000	10.140	.140	1.40	.70897	.013	1
S2	.80000	.78692	-.013	-1.64	.05527	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



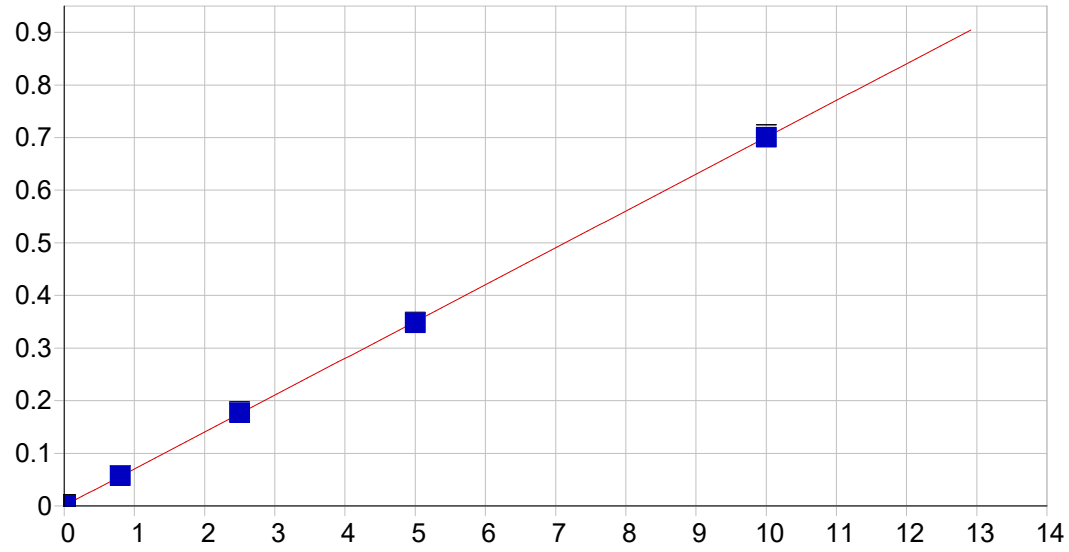
Pb 220.353 {453}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000037	Re-Slope:	1.000000
A1 (Gain):	0.227162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001609		
Predicted MQL:	0.005363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01200	.01325	.001	10.4	.00292	.000	1
S3	2.5000	2.4682	-.032	-1.27	.56005	.004	1
S4	5.0000	4.9291	-.071	-1.42	1.1185	.005	1
S5	10.000	10.105	.105	1.05	2.2932	.010	1
S2	.80000	.79616	-.004	-.480	.18063	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



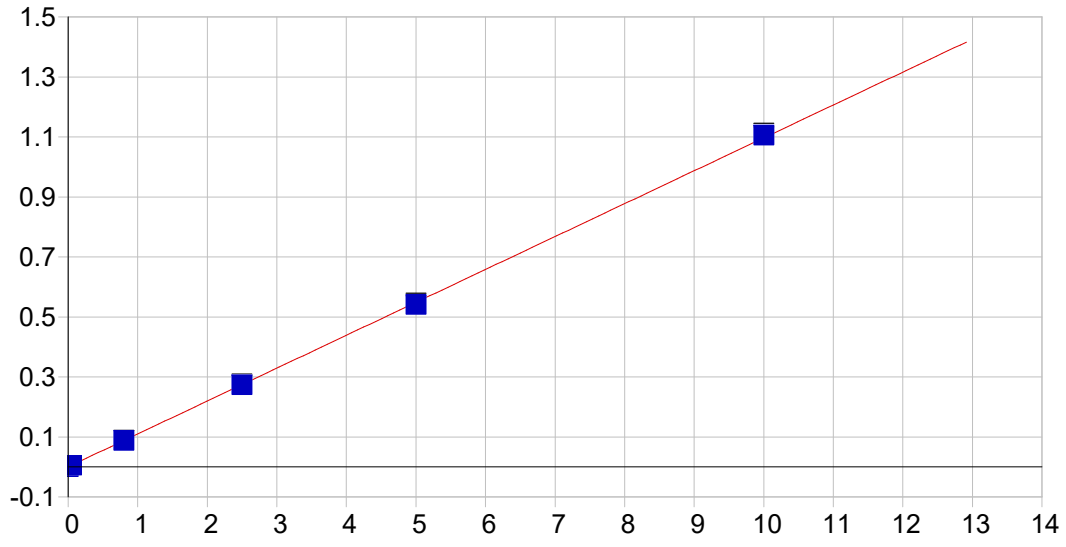
Se 196.090 {472}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000374	Re-Slope:	1.000000
A1 (Gain):	0.070008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.004196		
Predicted MQL:	0.013988		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00037	.000	1
S1	.02000	.02209	.002	10.5	.00192	.000	1
S3	2.5000	2.5206	.021	.823	.17673	.002	1
S4	5.0000	4.9621	-.038	-.758	.34756	.001	1
S5	10.000	10.003	.003	.027	.70024	.005	1
S2	.80000	.81250	.012	1.56	.05722	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



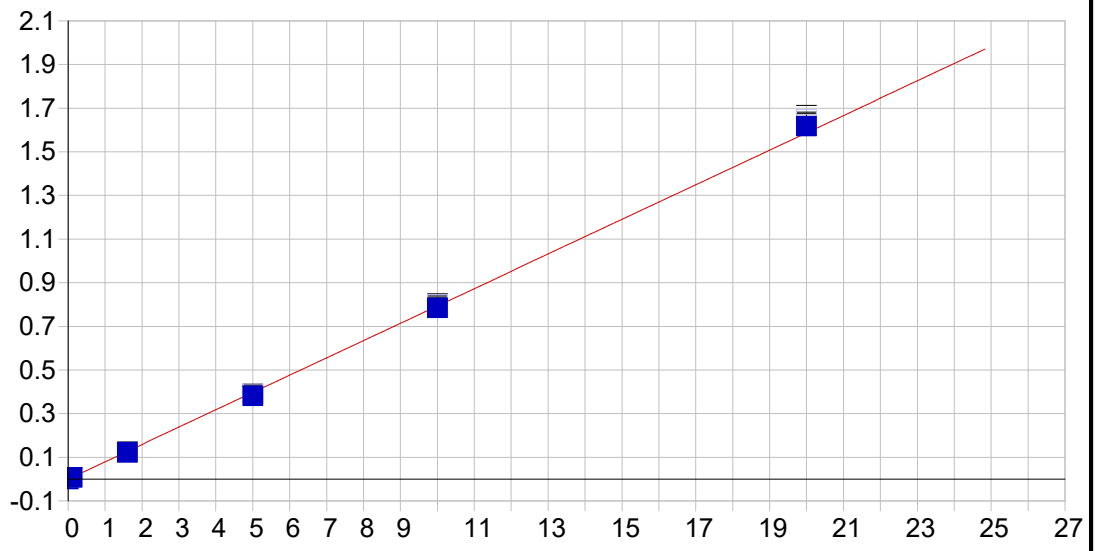
Sb 206.833 {463}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000284	Re-Slope:	1.000000
A1 (Gain):	0.109645	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.002444		
Predicted MQL:	0.008146		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00028	.000	1
S1	.05000	.05072	.001	1.43	.00586	.000	1
S3	2.5000	2.4925	-.007	-.298	.27432	.002	1
S4	5.0000	4.9299	-.070	-1.40	.54231	.004	1
S5	10.000	10.076	.076	.765	1.1081	.005	1
S2	.80000	.80040	.000	.050	.08828	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



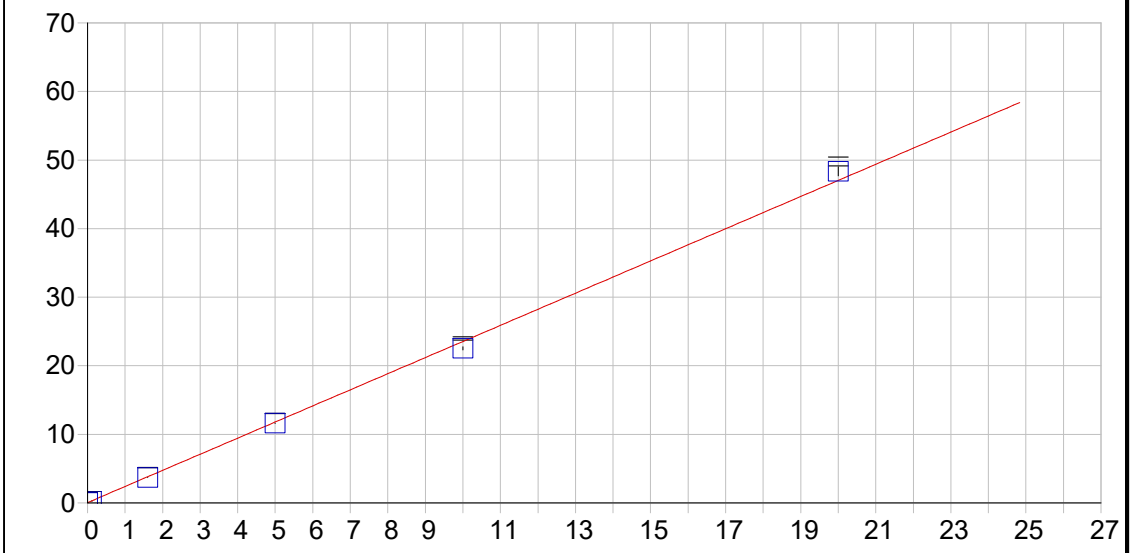
Al 396.152 { 85}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000145	Re-Slope:	1.000000
A1 (Gain):	0.079349	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	0.009234		
Predicted MQL:	0.030779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00015	.000	1
S1	.10000	.09142	-.009	-8.58	.00801	.000	1
S3	5.0000	4.8066	-.193	-3.87	.38924	.000	1
S4	10.000	9.8796	-.120	-1.20	.79947	.004	1
S5	20.000	20.387	.387	1.94	1.6486	.019	1
S2	1.6000	1.5355	-.064	-4.03	.12445	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



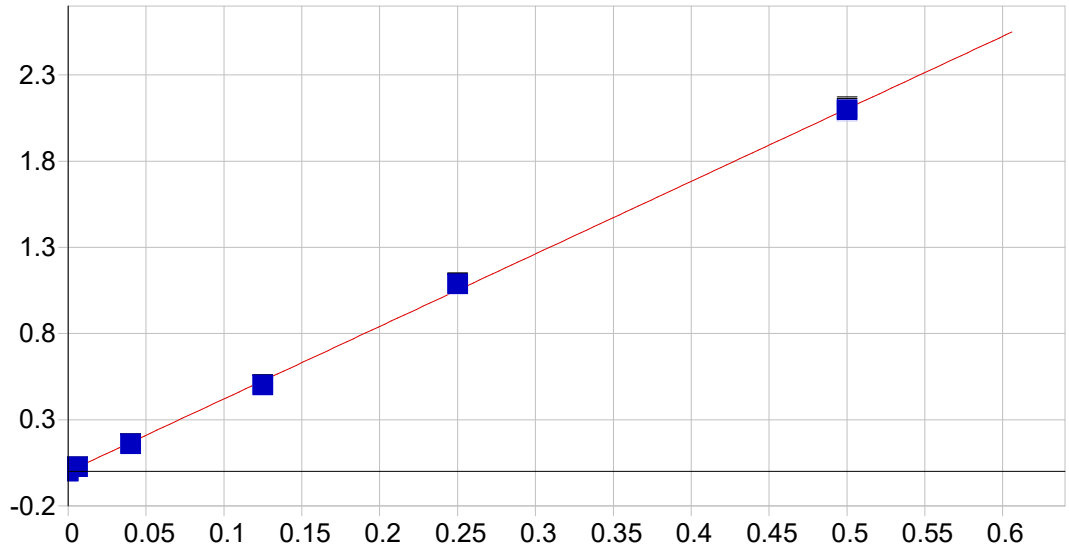
Ba 493.409 { 68}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.051034	Re-Slope:	1.000000
A1 (Gain):	2.349122	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999508	Status:	OK.
Std Error of Est:	0.005465		
Predicted MDL:	0.000974		
Predicted MQL:	0.003246		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.05106	.001	1
S1	.10000	.09277	-.007	-7.23	.26897	.004	1
S3	5.0000	4.9155	-.084	-1.69	11.598	.023	1
S4	10.000	9.5810	-.419	-4.19	22.558	.231	1
S5	20.000	20.555	.555	2.77	48.337	.648	1
S2	1.6000	1.5559	-.044	-2.76	3.7060	.011	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



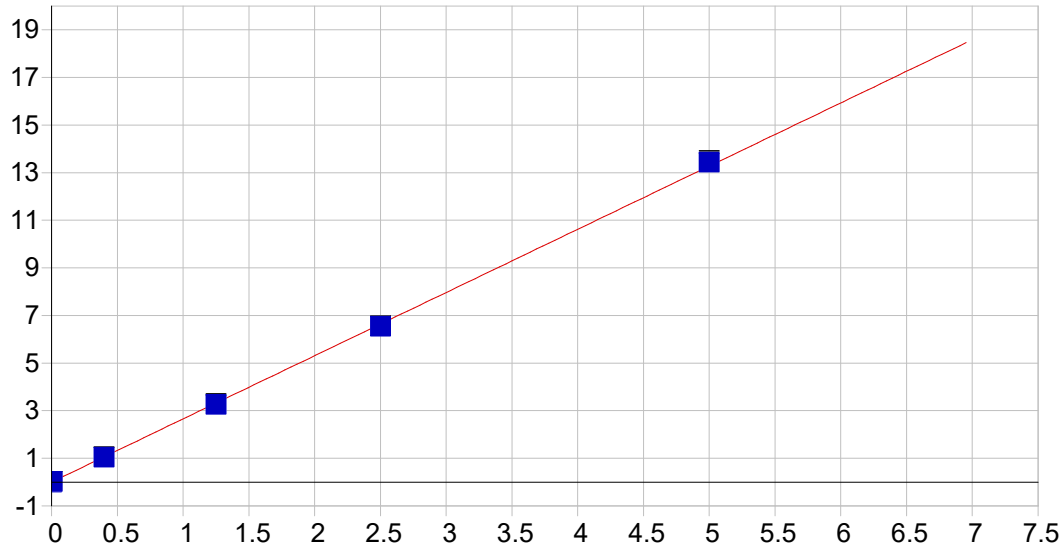
Be 234.861 {144}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000205	Re-Slope:	1.000000
A1 (Gain):	4.207497	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999625	Status:	OK.
Std Error of Est:	0.000330		
Predicted MDL:	0.000059		
Predicted MQL:	0.000197		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00020	.000	1
S1	.00600	.00624	.000	3.95	.02585	.000	1
S3	.12500	.11921	-.006	-4.64	.49899	.002	1
S4	.25000	.25881	.009	3.52	1.0840	.006	1
S5	.50000	.49868	-.001	-.264	2.0886	.018	1
S2	.04000	.03807	-.002	-4.81	.15924	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



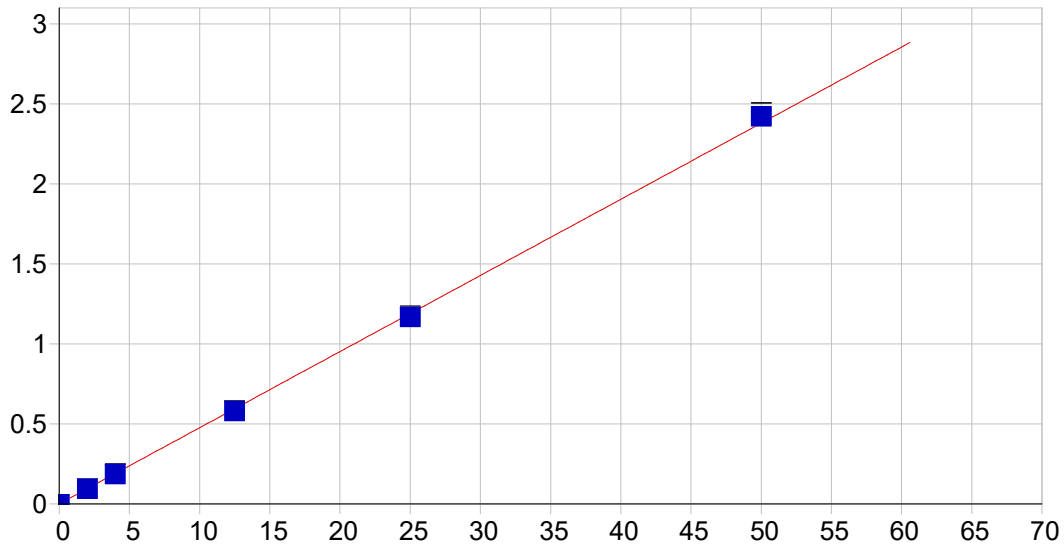
Cd 226.502 {449}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000016	Re-Slope:	1.000000
A1 (Gain):	2.655313	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000318		
Predicted MDL:	0.000094		
Predicted MQL:	0.000315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.00600	.00614	.000	2.37	.01636	.000	1
S3	1.2500	1.2289	-.021	-1.69	3.2656	.025	1
S4	2.5000	2.4661	-.034	-1.35	6.5535	.034	1
S5	5.0000	5.0598	.060	1.20	13.446	.055	1
S2	.40000	.39505	-.005	-1.24	1.0498	.008	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



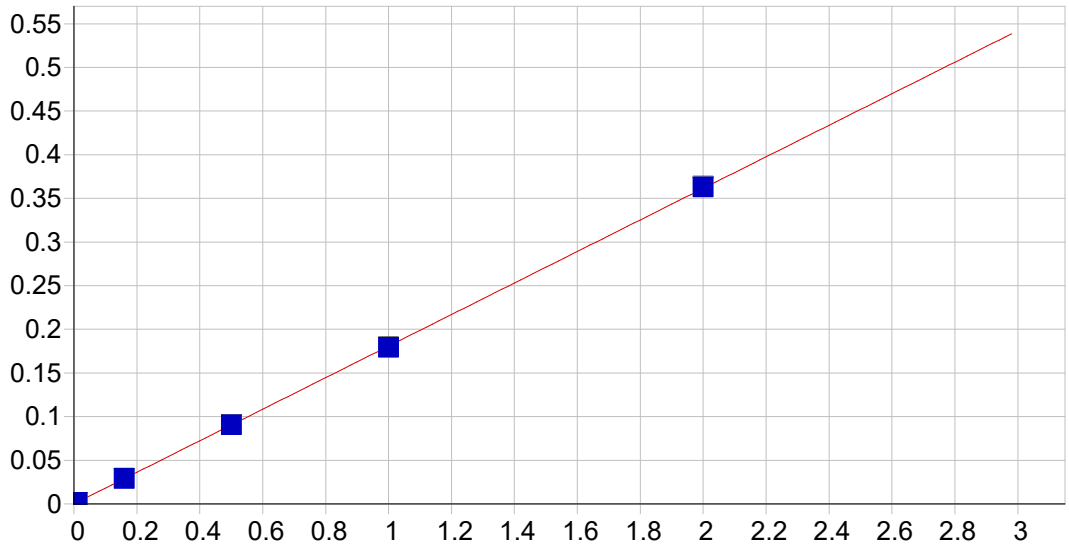
Ca 373.690 { 90}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000342	Re-Slope:	1.000000
A1 (Gain):	0.047585	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000488		
Predicted MDL:	0.011330		
Predicted MQL:	0.037767		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00014	.000	.000	.00035	.000	1
S2	4.0000	3.9051	-.095	-2.37	.18617	.001	1
S3	12.500	12.202	-.298	-2.39	.58097	.001	1
S4	25.000	24.531	-.469	-1.87	1.1677	.005	1
S5	50.000	50.900	.900	1.80	2.4224	.023	1
S1	2.0000	1.9616	-.038	-1.92	.09369	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



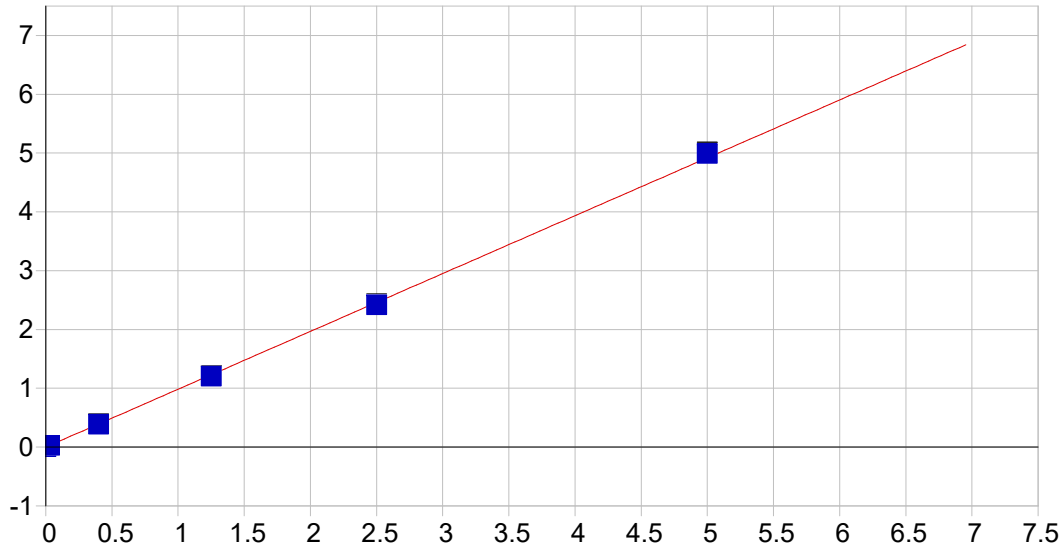
Cr 267.716 {126}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000069	Re-Slope:	1.000000
A1 (Gain):	0.180693	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.000427		
Predicted MQL:	0.001425		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.01000	.01039	.000	3.89	.00195	.000	1
S3	.50000	.49973	-.000	-.054	.09044	.000	1
S4	1.0000	.99061	-.009	-.939	.17921	.000	1
S5	2.0000	2.0087	.009	.433	.36331	.001	1
S2	.16000	.16062	.001	.387	.02912	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



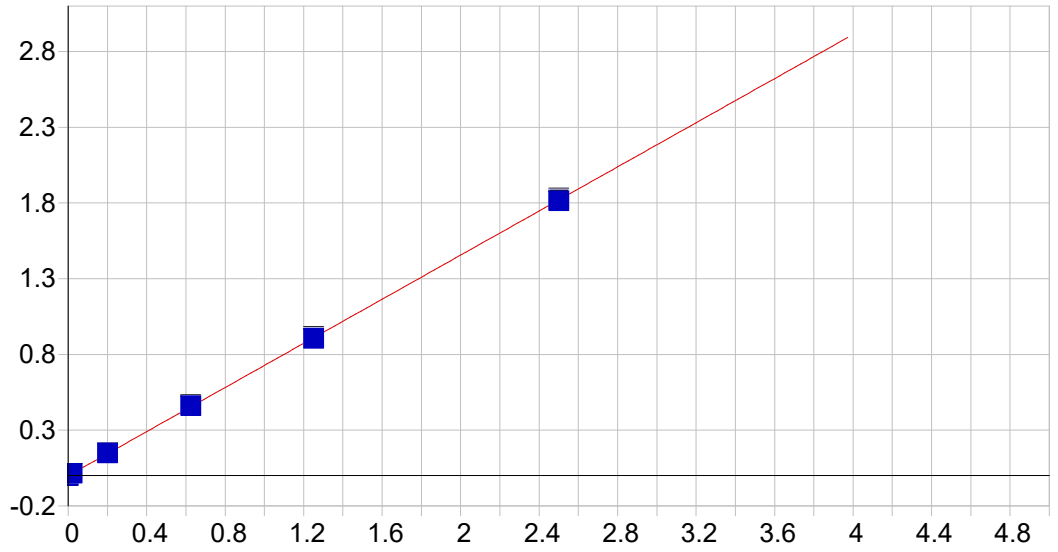
Co 228.616 {448}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000029	Re-Slope:	1.000000
A1 (Gain):	0.983851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999873	Status:	OK.
Std Error of Est:	0.000319		
Predicted MDL:	0.000272		
Predicted MQL:	0.000906		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.03000	.02973	-.000	-.885	.02916	.001	1
S3	1.2500	1.2263	-.024	-1.89	1.2086	.009	1
S4	2.5000	2.4572	-.043	-1.71	2.4218	.015	1
S5	5.0000	5.0729	.073	1.46	4.9993	.020	1
S2	.40000	.39382	-.006	-1.54	.38816	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



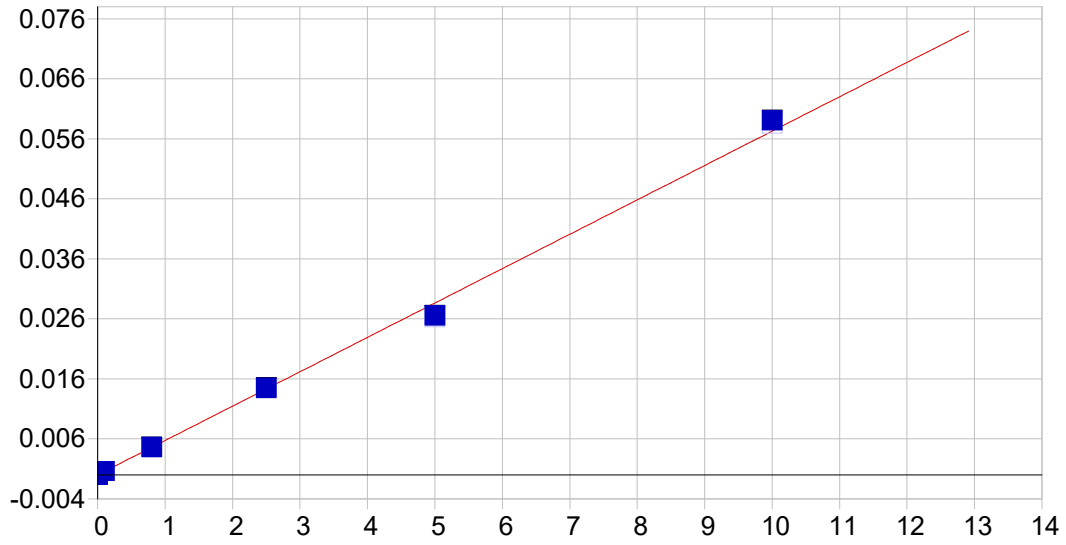
Cu 224.700 {450}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000707	Re-Slope:	1.000000
A1 (Gain):	0.728251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.000452		
Predicted MQL:	0.001506		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00071	.000	1
S1	.02000	.02124	.001	6.20	.01491	.000	1
S3	.62500	.63348	.008	1.36	.46394	.003	1
S4	1.2500	1.2430	-.007	-.563	.91112	.006	1
S5	2.5000	2.4911	-.009	-.356	1.8267	.006	1
S2	.20000	.20622	.006	3.11	.15053	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



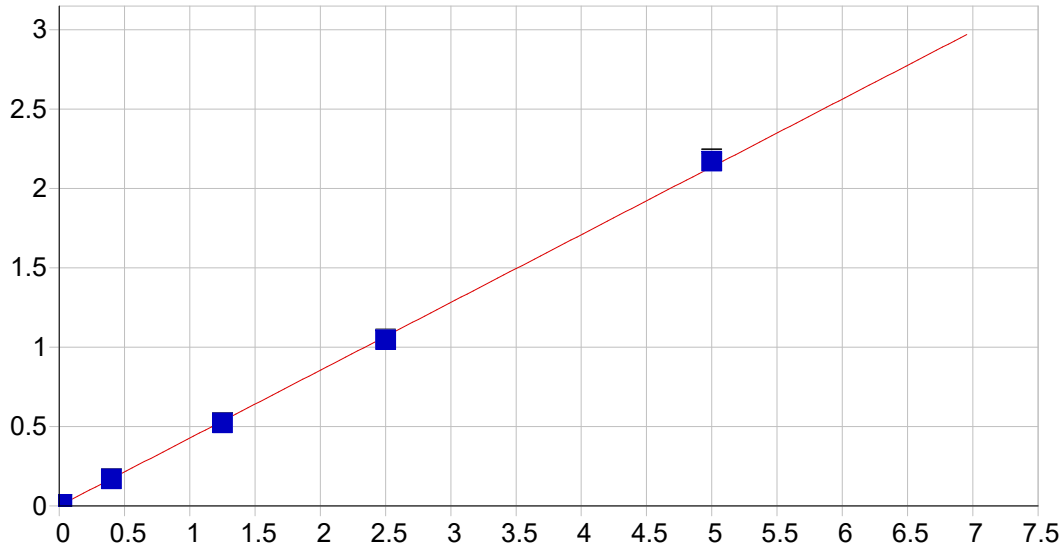
Fe 240.488 {140}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.005728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998952	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.004695		
Predicted MQL:	0.015650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00000	.000	1
S1	.10000	.11084	.011	10.8	.00062	.000	1
S3	2.5000	2.5359	.036	1.43	.01440	.000	1
S4	5.0000	4.6353	-.365	-7.29	.02630	.000	1
S5	10.000	10.310	.310	3.10	.05856	.000	1
S2	.80000	.80841	.008	1.05	.00459	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



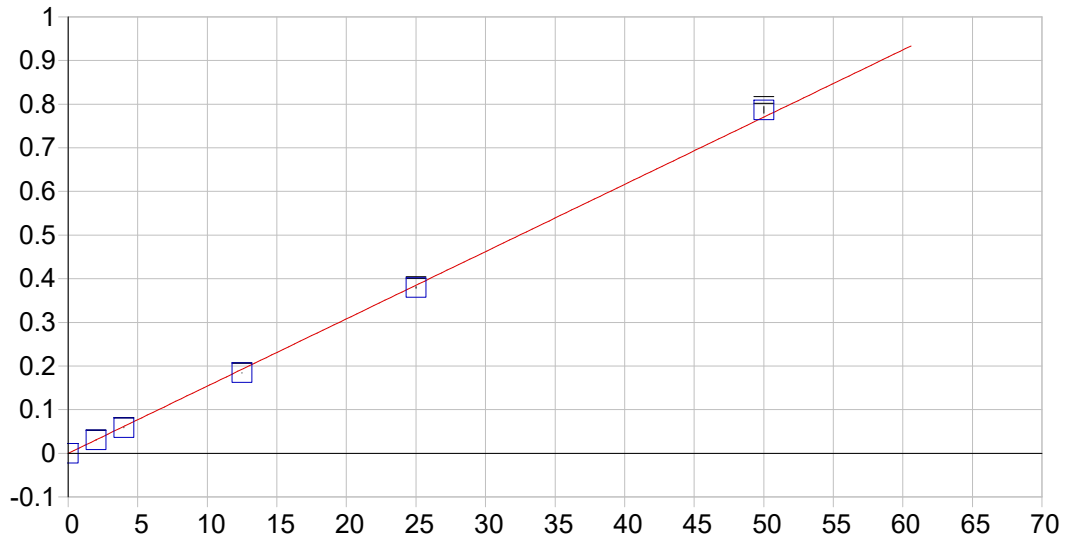
Mn 257.610 {131}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000347	Re-Slope:	1.000000
A1 (Gain):	0.427184	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999833	Status:	OK.
Std Error of Est:	0.000130		
Predicted MDL:	0.000466		
Predicted MQL:	0.001554		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00035	.000	1
S1	.02000	.01979	-.000	-1.06	.00880	.000	1
S3	1.2500	1.2232	-.027	-2.15	.52298	.001	1
S4	2.5000	2.4486	-.051	-2.06	1.0466	.005	1
S5	5.0000	5.0831	.083	1.66	2.1722	.014	1
S2	.40000	.39532	-.005	-1.17	.16926	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



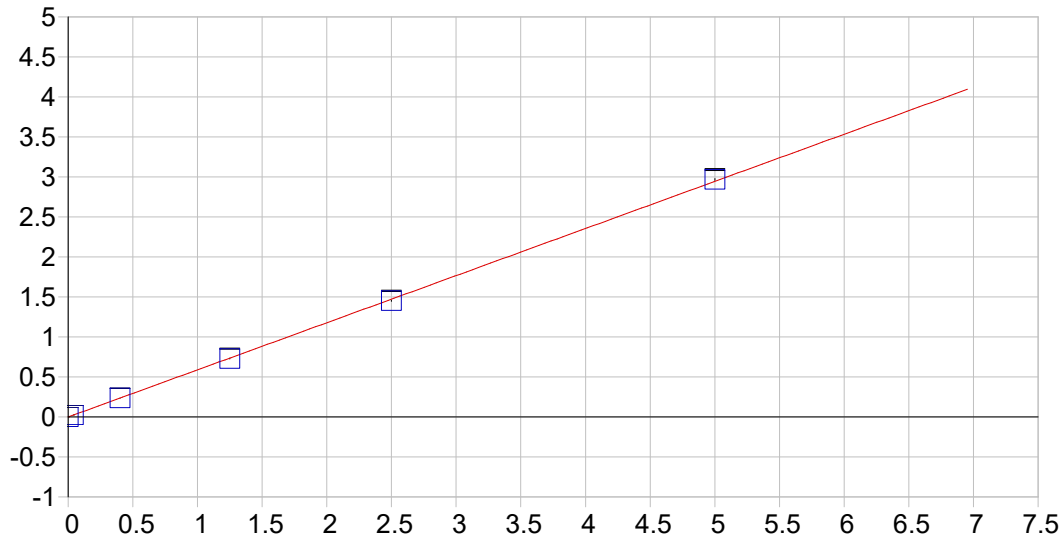
Mg 279.079 {121}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000112	Re-Slope:	1.000000
A1 (Gain):	0.015407	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999685	Status:	OK.
Std Error of Est:	0.000205		
Predicted MDL:	0.018294		
Predicted MQL:	0.060979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00018	.000	.000	-.00011	.000	1
S2	4.0000	3.8144	-.186	-4.64	.05866	.000	1
S3	12.500	11.971	-.529	-4.23	.18432	.000	1
S4	25.000	24.656	-.344	-1.38	.37975	.002	1
S5	50.000	51.074	1.07	2.15	.78678	.008	1
S1	2.0000	1.9844	-.016	-.782	.03046	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



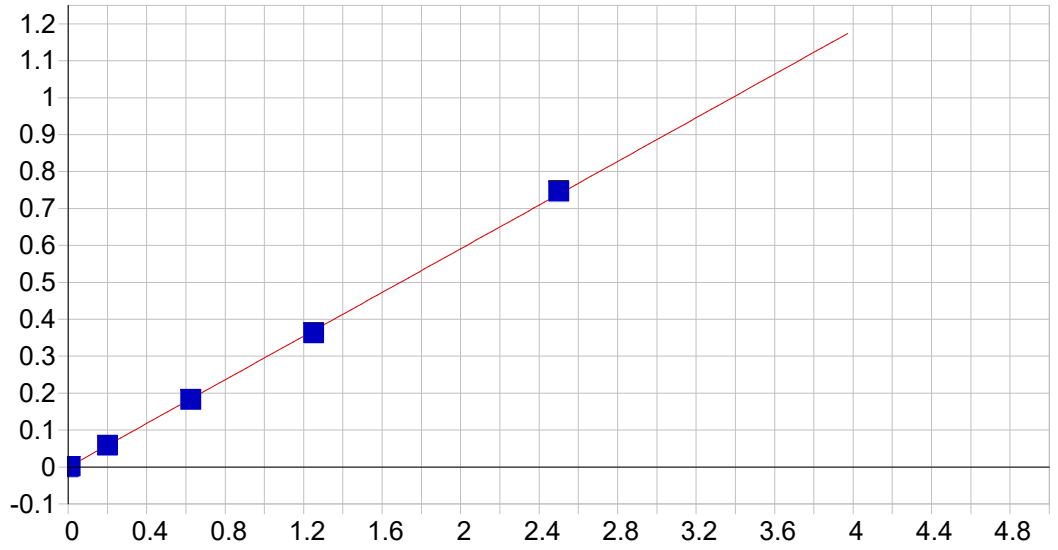
Ni 231.604 {446}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000629	Re-Slope:	1.000000
A1 (Gain):	0.588935	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.000393		
Predicted MQL:	0.001309		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00063	.000	1
S1	.04000	.04095	.001	2.38	.02349	.000	1
S3	1.2500	1.2400	-.010	-.802	.72964	.005	1
S4	2.5000	2.4675	-.033	-1.30	1.4526	.007	1
S5	5.0000	5.0410	.041	.821	2.9682	.012	1
S2	.40000	.40053	.001	.133	.23526	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



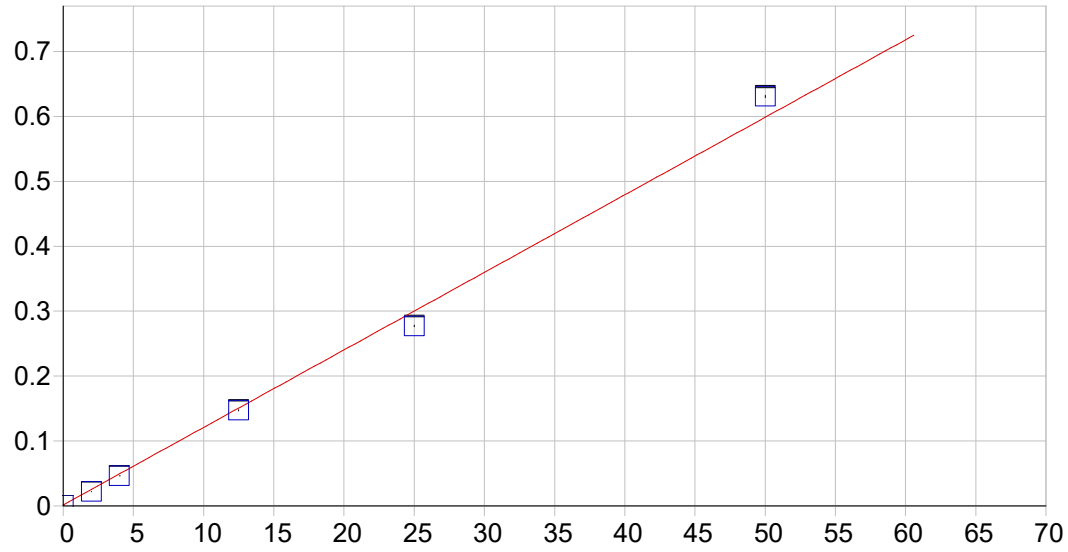
Ag 328.068 {103}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000269	Re-Slope:	1.000000
A1 (Gain):	0.295545	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000428		
Predicted MQL:	0.001427		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00027	.000	1
S1	.01000	.00876	-.001	-12.4	.00230	.000	1
S3	.62500	.61955	-.005	-.872	.18201	.000	1
S4	1.2500	1.2294	-.021	-1.65	.36142	.001	1
S5	2.5000	2.5284	.028	1.14	.74370	.001	1
S2	.20000	.19892	-.001	-.541	.05826	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



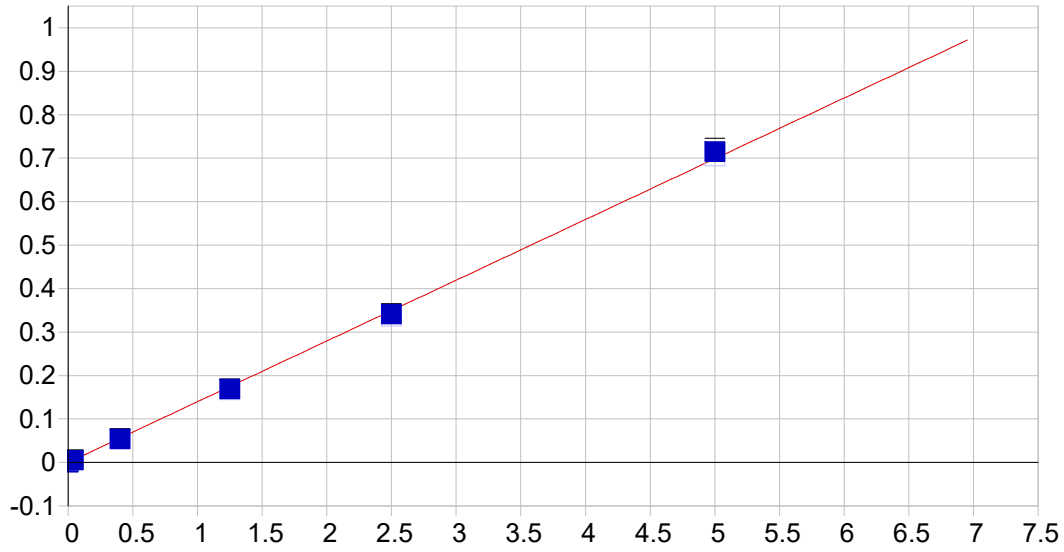
Na 589.592 { 57}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001489	Re-Slope:	1.000000
A1 (Gain):	0.011942	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998136	Status:	OK.
Std Error of Est:	0.000386		
Predicted MDL:	0.019145		
Predicted MQL:	0.063818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00048	.000	.000	.00149	.000	1
S2	4.0000	3.7641	-.236	-5.90	.04644	.000	1
S3	12.500	12.220	-.280	-2.24	.14743	.001	1
S4	25.000	23.092	-1.91	-7.63	.27726	.001	1
S5	50.000	52.698	2.70	5.40	.63084	.002	1
S1	2.0000	1.7251	-.275	-13.7	.02209	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



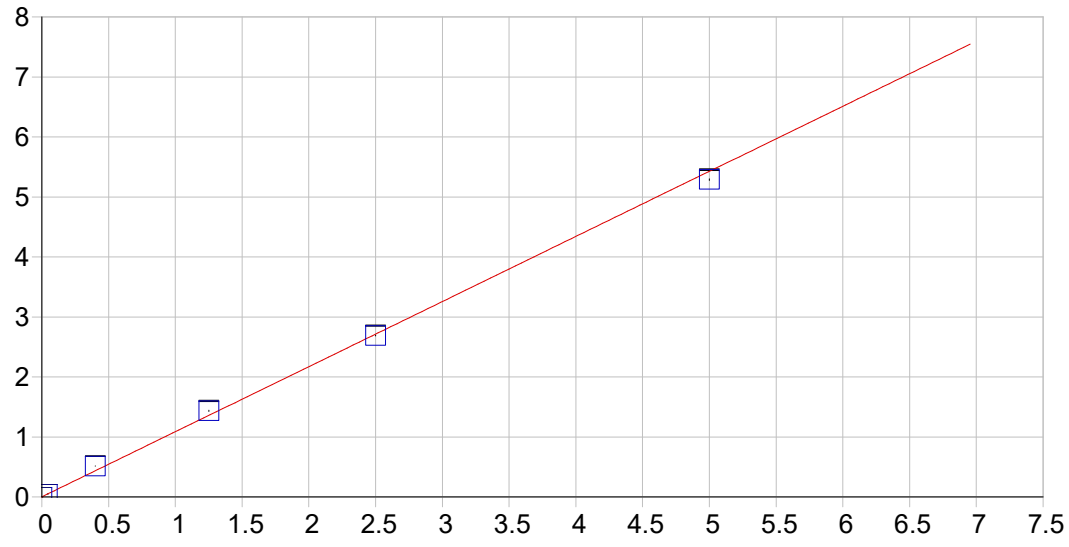
V 292.402 {115}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.139742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999650	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.002223		
Predicted MQL:	0.007409		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.04000	.03793	-.002	-5.17	.00508	.000	1
S3	1.2500	1.2078	-.042	-3.38	.16622	.000	1
S4	2.5000	2.4386	-.061	-2.46	.33567	.002	1
S5	5.0000	5.1184	.118	2.37	.70506	.008	1
S2	.40000	.38724	-.013	-3.19	.05329	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



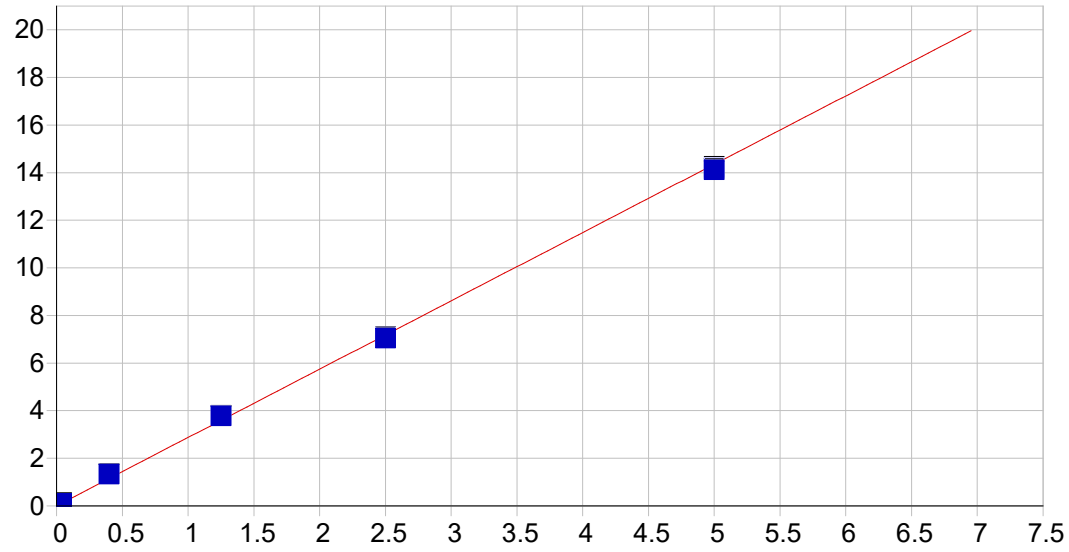
Zn 206.200 {464}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001008	Re-Slope:	1.000000
A1 (Gain):	1.084999	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998856	Status:	OK.
Std Error of Est:	0.001219		
Predicted MDL:	0.000191		
Predicted MQL:	0.000637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00100	.000	1
S1	.04000	.04242	.002	6.05	.04704	.000	1
S3	1.2500	1.3224	.072	5.79	1.4358	.012	1
S4	2.5000	2.4786	-.021	-.856	2.6903	.010	1
S5	5.0000	4.8735	-.126	-2.53	5.2888	.015	1
S2	.40000	.47304	.073	18.3	.51425	.004	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



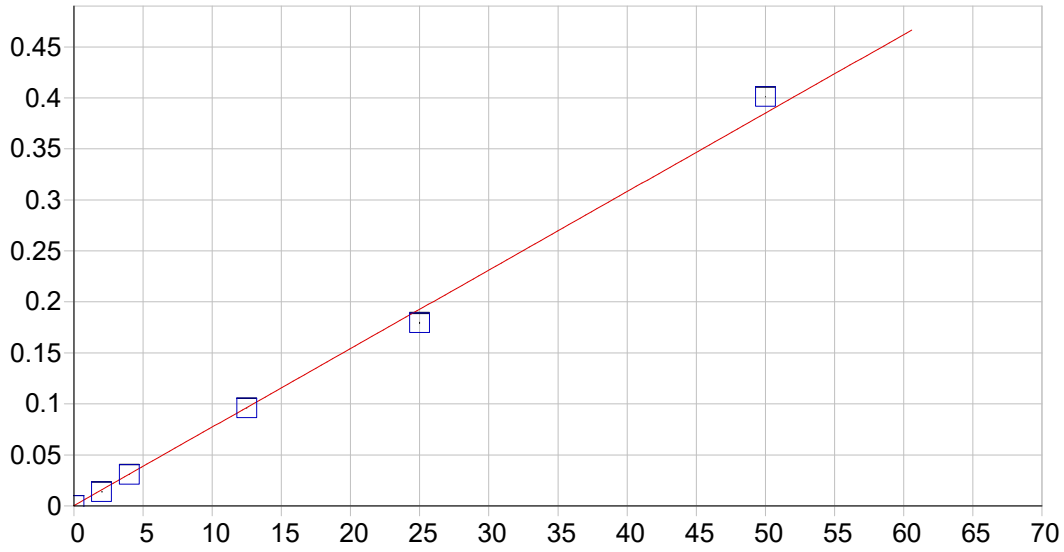
Zn 213.856 {158}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004929	Re-Slope:	1.000000
A1 (Gain):	2.869928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999165	Status:	OK.
Std Error of Est:	0.002773		
Predicted MDL:	0.000302		
Predicted MQL:	0.001006		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00490	.001	1
S1	.04000	.04233	.002	5.82	.12722	.001	1
S3	1.2500	1.3130	.063	5.04	3.7980	.011	1
S4	2.5000	2.4540	-.046	-1.84	7.0975	.013	1
S5	5.0000	4.9173	-.083	-1.65	14.217	.053	1
S2	.40000	.46343	.063	15.9	1.3429	.006	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



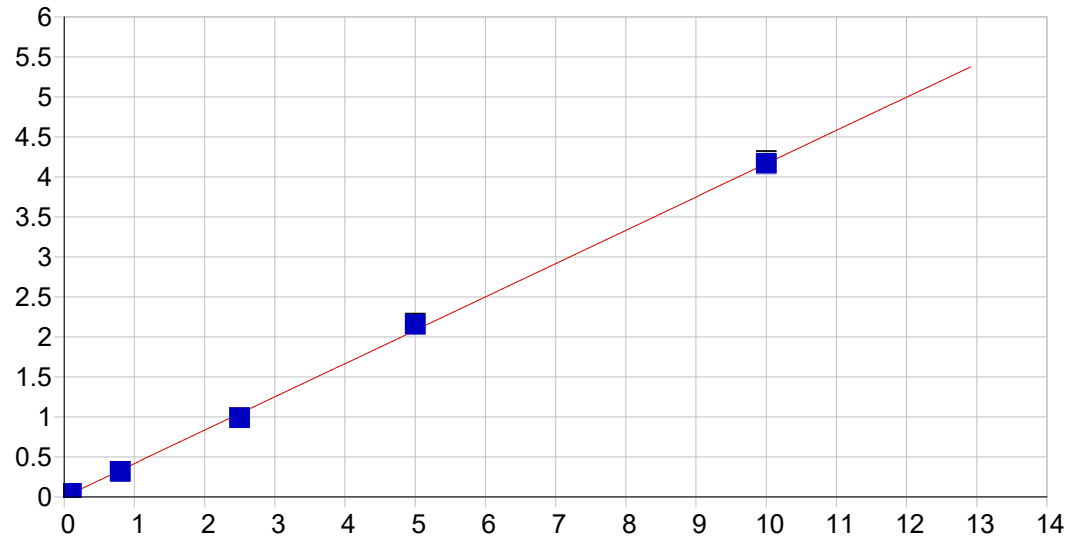
K 766.490 { 44}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000367	Re-Slope:	1.000000
A1 (Gain):	0.007694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998726	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.038044		
Predicted MQL:	0.126814		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00035	.000	.000	.00037	.000	1
S2	4.0000	3.9558	-.044	-1.10	.03080	.000	1
S3	12.500	12.428	-.072	-.573	.09599	.000	1
S4	25.000	23.291	-1.71	-6.84	.17956	.001	1
S5	50.000	52.085	2.09	4.17	.40109	.000	1
S1	2.0000	1.7401	-.260	-13.0	.01375	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



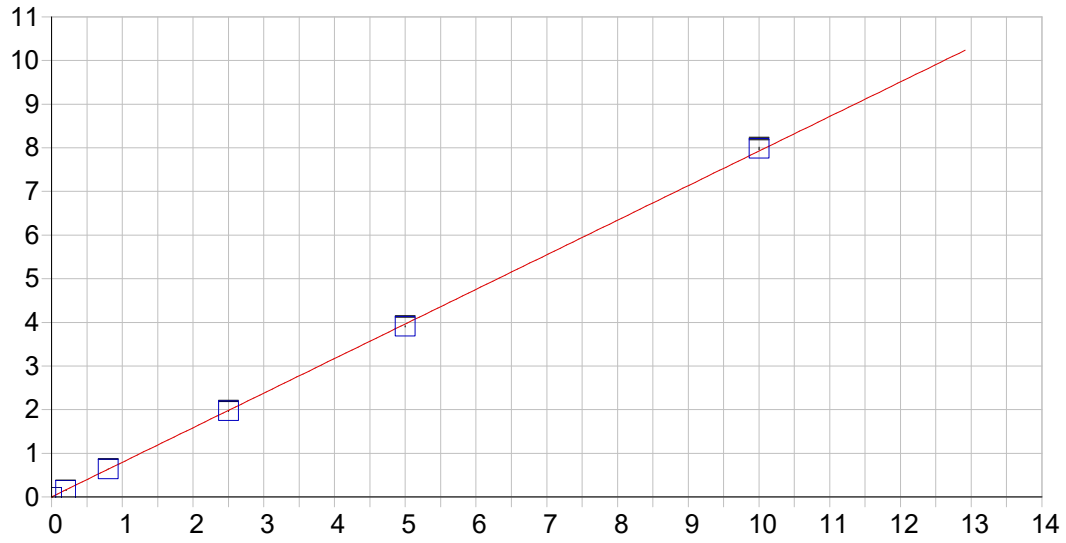
B 249.678 {135}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000889	Re-Slope:	1.000000
A1 (Gain):	0.416389	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999575	Status:	OK.
Std Error of Est:	0.000635		
Predicted MDL:	0.000816		
Predicted MQL:	0.002720		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00089	.000	1
S1	.10000	.10185	.002	1.85	.04305	.001	1
S3	2.5000	2.3661	-.134	-5.36	.98235	.002	1
S4	5.0000	5.1715	.172	3.43	2.1467	.017	1
S5	10.000	10.005	.005	.047	4.1517	.039	1
S2	.80000	.75581	-.044	-5.52	.31440	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



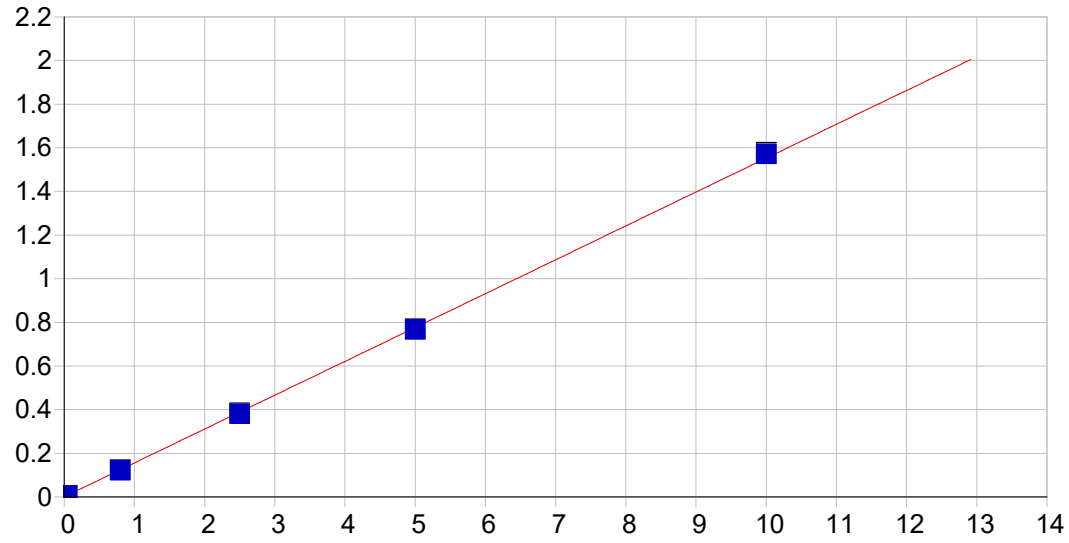
Mo 202.030 {467}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000317	Re-Slope:	1.000000
A1 (Gain):	0.792528	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000606		
Predicted MDL:	0.000276		
Predicted MQL:	0.000920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00032	.000	1
S1	.20000	.19215	-.008	-3.93	.15260	.001	1
S3	2.5000	2.4885	-.012	-.460	1.9725	.016	1
S4	5.0000	4.9331	-.067	-1.34	3.9100	.017	1
S5	10.000	10.077	.077	.774	7.9870	.032	1
S2	.80000	.80879	.009	1.10	.64131	.005	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



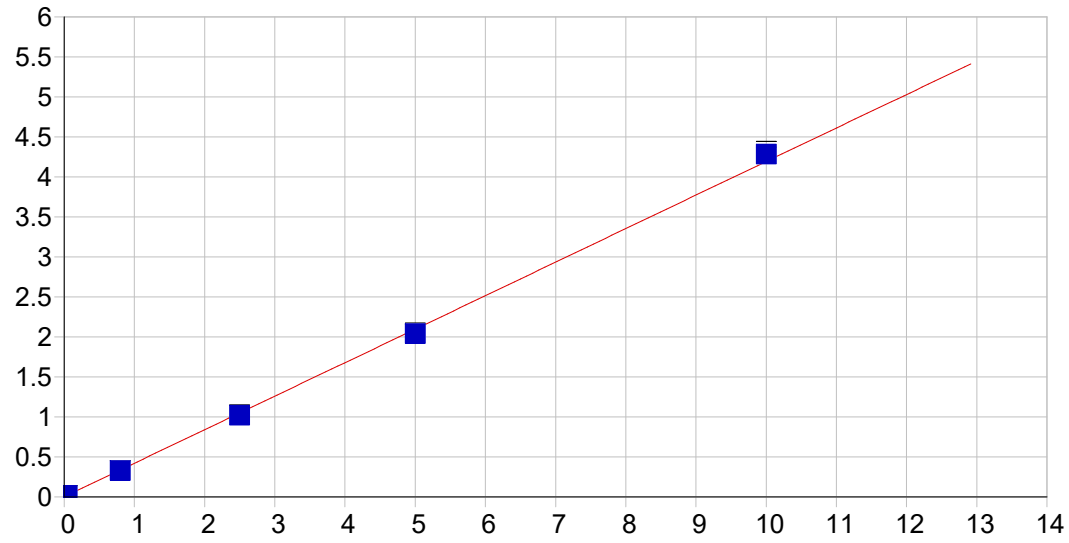
Sn 189.989 {478}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000494	Re-Slope:	1.000000
A1 (Gain):	0.155193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.000761		
Predicted MQL:	0.002538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.000	1
S1	.04000	.03705	-.003	-7.37	.00624	.000	1
S3	2.5000	2.4558	-.044	-1.77	.38123	.003	1
S4	5.0000	4.9402	-.060	-1.20	.76638	.003	1
S5	10.000	10.125	.125	1.25	1.5702	.007	1
S2	.80000	.78209	-.018	-2.24	.12174	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



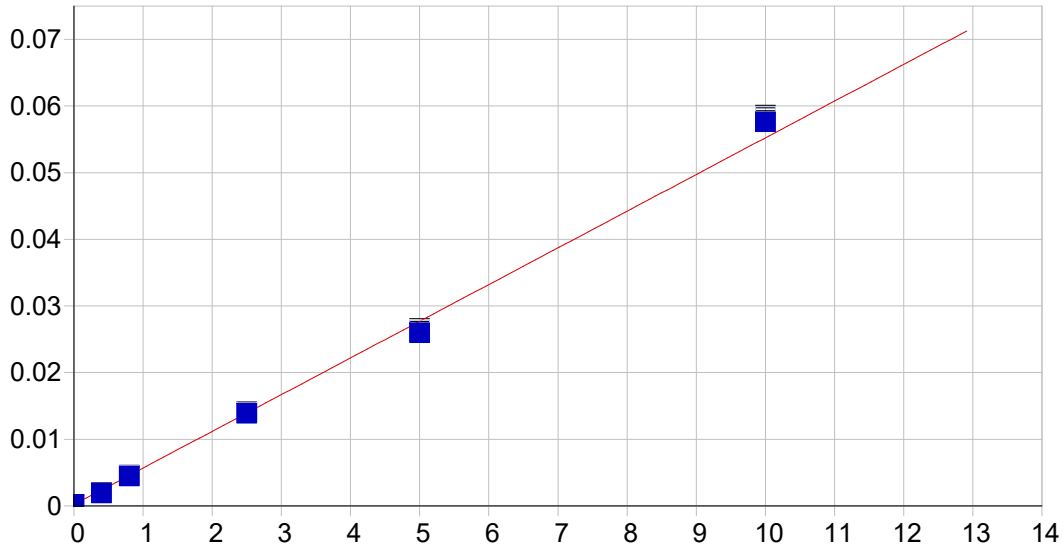
Ti 336.121 {100}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001815	Re-Slope:	1.000000
A1 (Gain):	0.419003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999707	Status:	OK.
Std Error of Est:	0.000336		
Predicted MDL:	0.000845		
Predicted MQL:	0.002818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00182	.000	1
S1	.04000	.03704	-.003	-7.40	.01732	.000	1
S3	2.5000	2.4336	-.066	-2.65	1.0211	.001	1
S4	5.0000	4.8690	-.131	-2.62	2.0412	.007	1
S5	10.000	10.220	.220	2.20	4.2826	.036	1
S2	.80000	.78015	-.020	-2.48	.32858	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



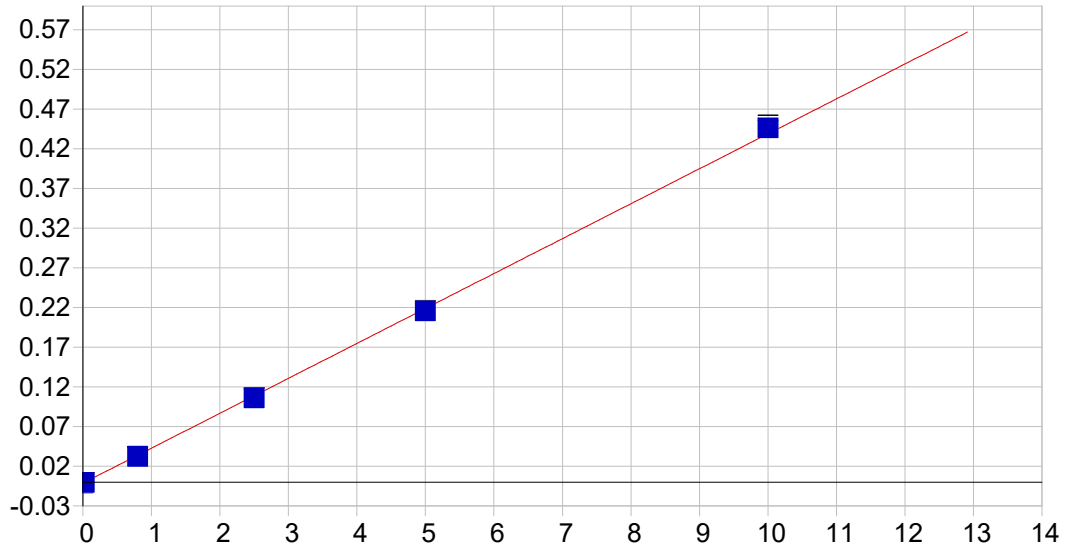
Si 288.158 {117}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000181	Re-Slope:	1.000000
A1 (Gain):	0.005505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998520	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.008886		
Predicted MQL:	0.029621		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00018	.000	1
S1	.40000	.31539	-.085	-21.2	.00192	.000	1
S3	2.5000	2.4867	-.013	-.534	.01408	.000	1
S4	5.0000	4.6845	-.315	-6.31	.02638	.000	1
S5	10.000	10.432	.432	4.32	.05844	.000	1
S2	.80000	.78011	-.020	-2.49	.00454	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



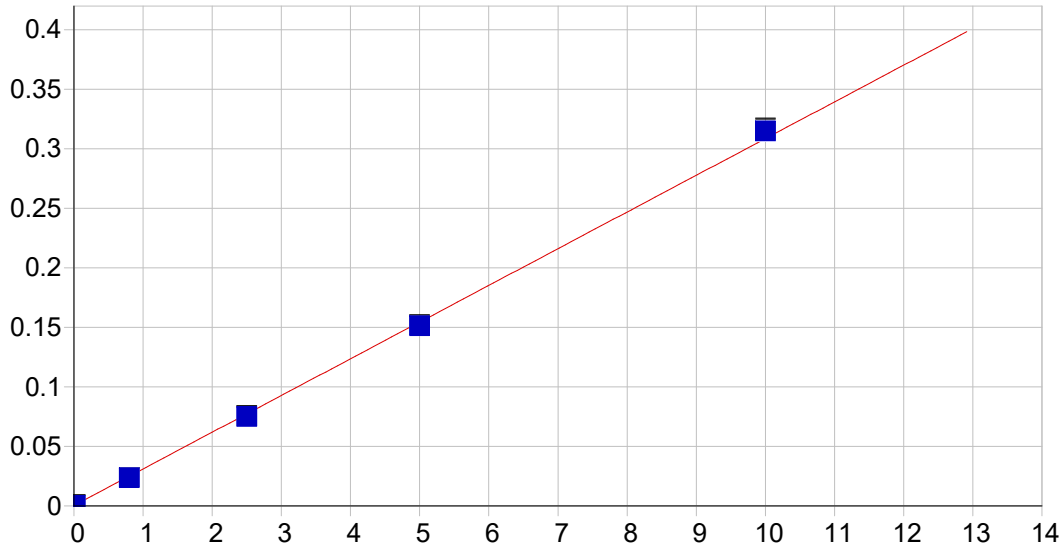
P 177.495 {490}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001302	Re-Slope:	1.000000
A1 (Gain):	0.044025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.002677		
Predicted MQL:	0.008923		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00130	.000	1
S1	.02000	.01963	-.000	-1.86	-.00044	.000	1
S3	2.5000	2.4366	-.063	-2.53	.10595	.001	1
S4	5.0000	4.9312	-.069	-1.38	.21576	.001	1
S5	10.000	10.172	.172	1.72	.44645	.004	1
S2	.80000	.76039	-.040	-4.95	.03217	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



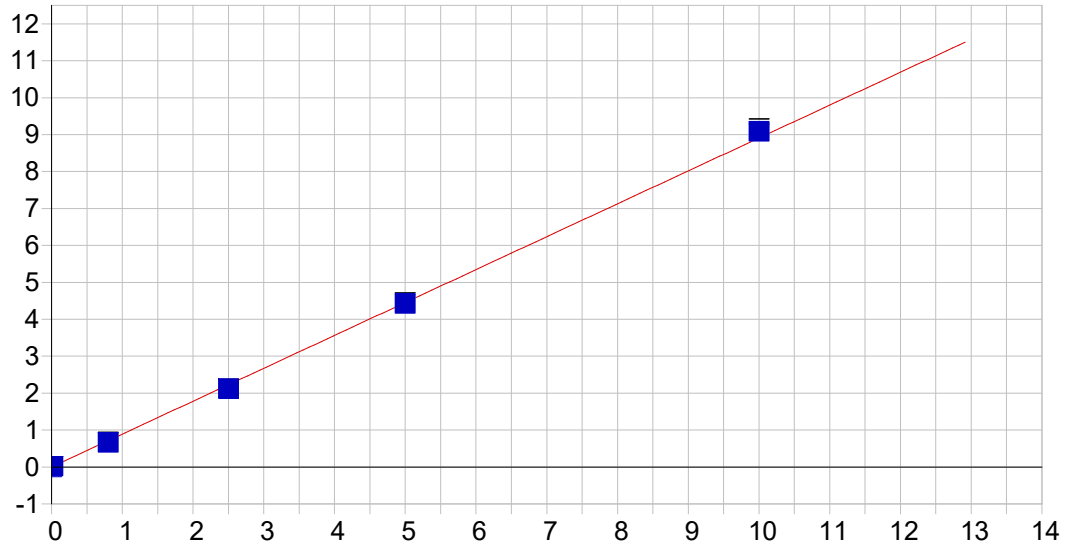
S 182.034 {485}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000266	Re-Slope:	1.000000
A1 (Gain):	0.030837	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999704	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.003446		
Predicted MQL:	0.011487		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.02000	.02032	.000	1.59	.00087	.000	1
S3	2.5000	2.4267	-.073	-2.93	.07490	.001	1
S4	5.0000	4.9032	-.097	-1.94	.15107	.001	1
S5	10.000	10.212	.212	2.12	.31438	.002	1
S2	.80000	.75739	-.043	-5.33	.02356	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



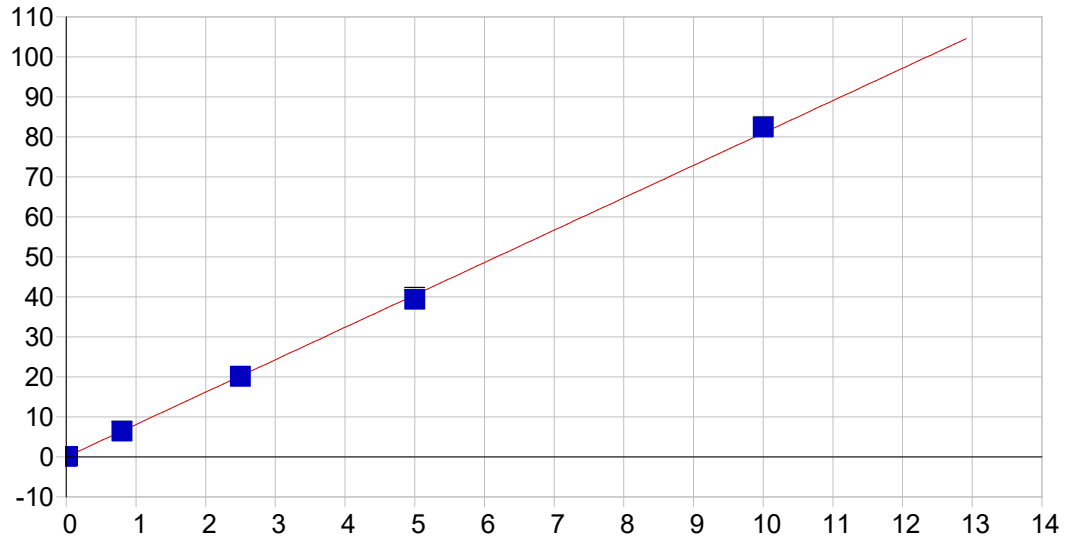
Li 670.784 { 50}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000599	Re-Slope:	1.000000
A1 (Gain):	0.890831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999625	Status:	OK.
Std Error of Est:	0.000572		
Predicted MDL:	0.001235		
Predicted MQL:	0.004115		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00060	.000	1
S5	10.000	10.201	.201	2.01	9.0913	.066	1
S4	5.0000	4.9712	-.029	-.576	4.4301	.018	1
S3	2.5000	2.3764	-.124	-4.95	2.1174	.004	1
S1	.02000	.02208	.002	10.4	.01936	.000	1
S2	.80000	.74927	-.051	-6.34	.66723	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993



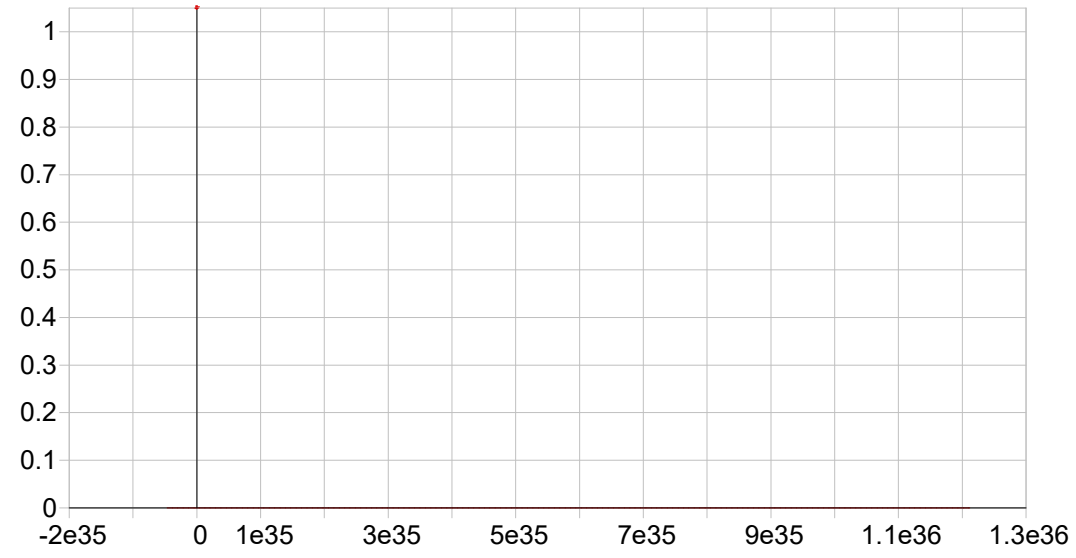
Sr 407.771 { 83}

Date of Fit:	6/3/2025 13:24:54	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000389	Re-Slope:	1.000000
A1 (Gain):	8.097413	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.003840		
Predicted MDL:	0.000087		
Predicted MQL:	0.000289		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00038	.001	1
S1	.02000	.01991	-.000	-.460	.16159	.002	1
S3	2.5000	2.4761	-.024	-.954	20.069	.074	1
S4	5.0000	4.8560	-.144	-2.88	39.360	.544	1
S5	10.000	10.175	.175	1.75	82.469	.180	1
S2	.80000	.79285	-.007	-.894	6.4258	.010	1

Reviewed By:
On:
Inst Id :P4
LB :LB135993

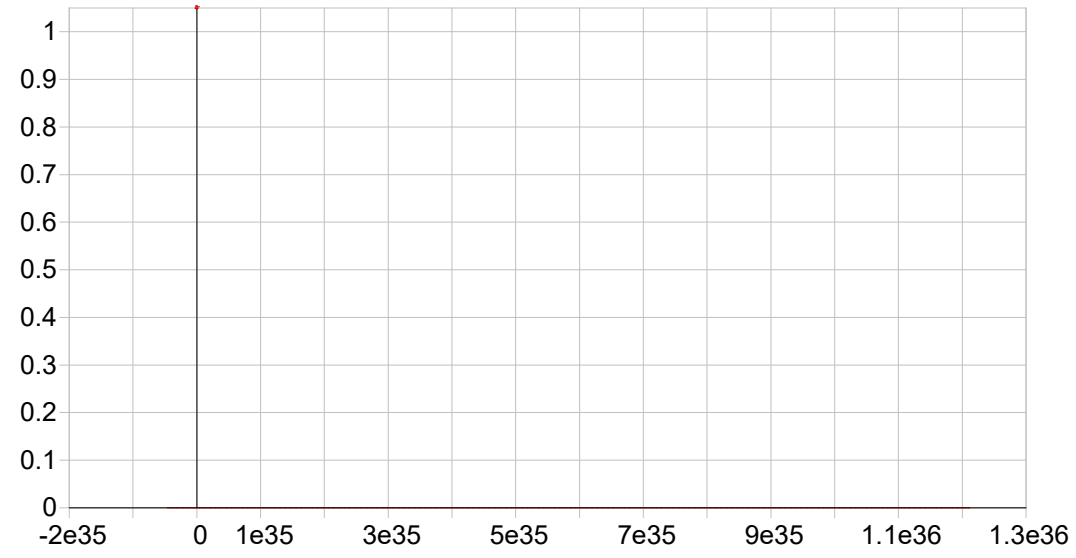


Y 224.306 {450}*

Date of Fit:	6/3/2025 12:35:13	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

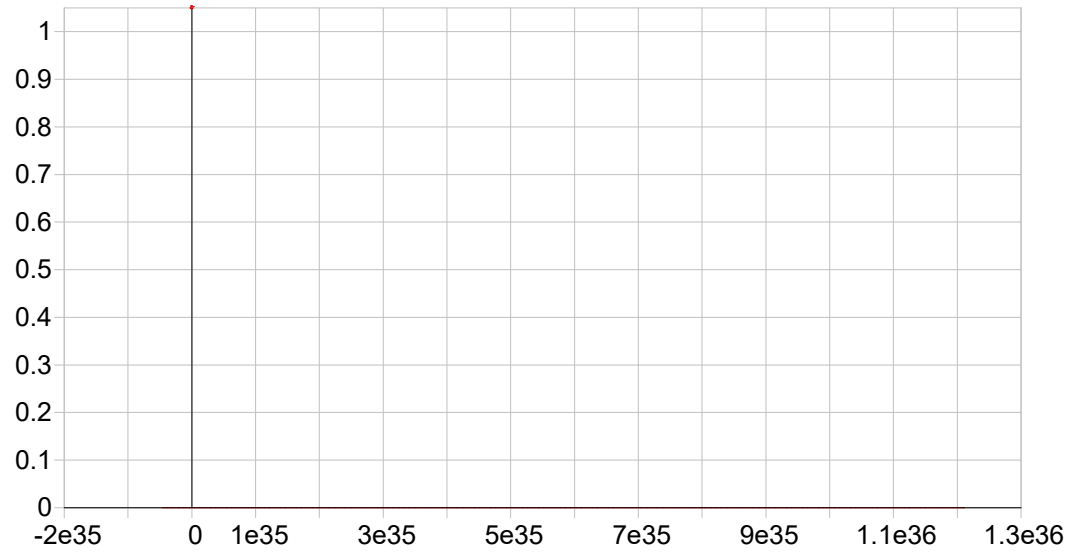
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P4
LB :LB135993

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

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

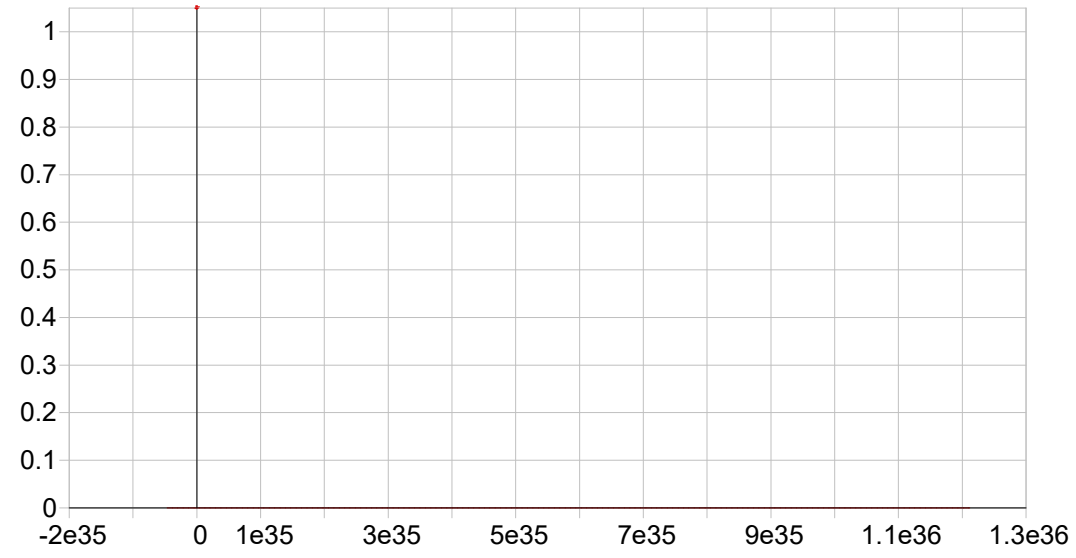


Y 371.030 { 91}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB135993

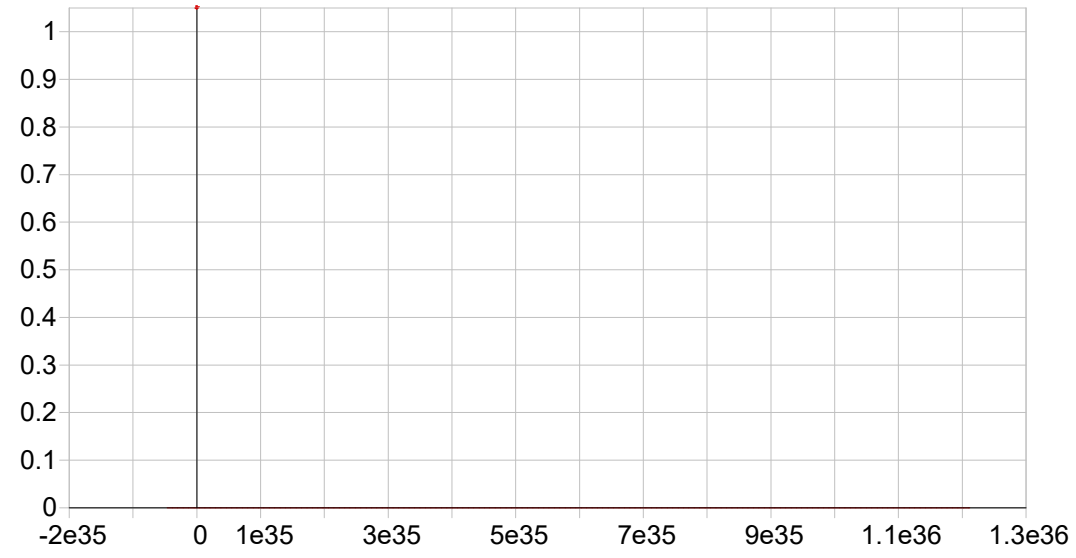


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB135993

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

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S0 Acquired: 6/3/2025 12:59:16 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**-.00015**	**.00030**	**-.00004**	**.00037**	**.00028**	**.00015**	**.05106**	**-.00020**
Stddev	.00005	.00007	.00035	.00010	.00028	.00034	.00138	.00015
%RSD	33.965	23.708	928.02	26.881	100.46	234.15	2.7086	73.969
#1	-.00009	.00024	-.00032	.00026	.00057	-.00022	.05004	-.00031
#2	-.00018	.00029	-.00015	.00046	.00029	.00019	.05052	-.00003
#3	-.00017	.00038	.00035	.00040	-.00000	.00046	.05264	-.00027

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**	**.00035**	**.00007**	**.00003**	**-.00071**	**-.00000**	**.00035**	**-.00011**
Stddev	.00021	.00008	.00006	.00021	.00021	.00002	.00005	.00006
%RSD	1300.0	21.862	90.500	682.95	30.042	626.67	15.296	53.970
#1	-.00019	.00041	.00014	.00024	-.00074	-.00002	.00037	-.00013
#2	-.00007	.00026	.00006	-.00017	-.00048	.00000	.00039	-.00016
#3	.00022	.00037	.00001	.00002	-.00090	.00001	.00029	-.00004

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	**-.00063**	**-.00027**	**.00149**	**-.00001**	**.00490**	**.00037**	**.00089**	**.00032**
Stddev	.00011	.00010	.00015	.00019	.00070	.00016	.00015	.00010
%RSD	17.908	38.017	10.082	2661.3	14.178	44.174	17.012	32.321
#1	-.00073	-.00038	.00133	.00003	.00509	.00018	.00103	.00031
#2	-.00064	-.00024	.00162	-.00021	.00549	.00043	.00073	.00023
#3	-.00051	-.00019	.00154	.00016	.00413	.00049	.00091	.00043

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	**.00049**	**.00182**	**.00018**	**-.00130**	**.00027**	**-.00060**	**-.00038**
Stddev	.00006	.00011	.00003	.00009	.00001	.00011	.00057
%RSD	11.814	6.2819	17.738	6.8441	5.2814	18.758	147.73
#1	.00054	.00170	.00015	-.00128	.00025	-.00048	-.00016
#2	.00043	.00182	.00022	-.00140	.00027	-.00062	.00004
#3	.00052	.00193	.00018	-.00123	.00028	-.00070	-.00103

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S0 Acquired: 6/3/2025 12:59:16 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	2967.1	63890.	11205.	2198.4	4062.6
Stddev	9.4	291.	16.	8.8	13.8
%RSD	.31758	.45539	.14487	.40101	.33984
#1	2965.9	63649.	11210.	2191.7	4062.4
#2	2958.3	64213.	11218.	2208.4	4049.0
#3	2977.1	63806.	11187.	2195.1	4076.6

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S1 Acquired: 6/3/2025 13:03:38 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**.00111**	**.00275**	**.00292**	**.00192**	**.00586**	**.00801**	**.26897**	**.02585**
Stddev	.00000	.00012	.00036	.00024	.00015	.00049	.00372	.00009
%RSD	.30441	4.2718	12.313	12.430	2.5916	6.0952	1.3822	.34825
#1	.00111	.00283	.00300	.00179	.00572	.00791	.26915	.02578
#2	.00112	.00281	.00323	.00219	.00582	.00758	.26517	.02582
#3	.00112	.00262	.00253	.00177	.00602	.00855	.27260	.02595

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	**.01636**	**.09369**	**.00195**	**.02916**	**.01491**	**.00062**	**.00880**	**.03046**
Stddev	.00020	.00090	.00005	.00059	.00015	.00000	.00024	.00039
%RSD	1.1935	.95812	2.3762	2.0125	1.0018	.69519	2.7741	1.2955
#1	.01659	.09402	.00191	.02937	.01490	.00062	.00889	.03080
#2	.01624	.09267	.00193	.02961	.01476	.00062	.00899	.03003
#3	.01626	.09437	.00200	.02850	.01506	.00063	.00853	.03056

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	**.02349**	**.00230**	**.02209**	**.00508**	**.12722**	**.01375**	**.04305**	**.15260**
Stddev	.00024	.00002	.00029	.00042	.00084	.00006	.00053	.00091
%RSD	1.0380	.82767	1.3124	8.2320	.65717	.47196	1.2416	.59783
#1	.02366	.00229	.02227	.00542	.12625	.01382	.04283	.15306
#2	.02359	.00232	.02225	.00522	.12766	.01375	.04267	.15319
#3	.02321	.00228	.02176	.00461	.12774	.01369	.04366	.15155

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	**.00624**	**.01732**	**.00192**	**-.00044**	**.00087**	**.01936**	**.16159**
Stddev	.00008	.00036	.00001	.00010	.00005	.00044	.00152
%RSD	1.2151	2.0940	.49676	23.173	6.3227	2.2696	.94257
#1	.00623	.01752	.00193	-.00032	.00081	.01939	.16101
#2	.00632	.01690	.00192	-.00049	.00086	.01890	.16045
#3	.00617	.01754	.00191	-.00050	.00092	.01978	.16332

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S1 Acquired: 6/3/2025 13:03:38 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**2978.6**	**61109.**	**10779.**	**2170.3**	**4075.2**
Stddev	16.5	217.	93.	5.0	17.7
%RSD	.55494	.35513	.85829	.23268	.43539
#1	2967.3	60858.	10756.	2175.8	4061.1
#2	2971.1	61239.	10881.	2165.9	4069.3
#3	2997.6	61228.	10701.	2169.3	4095.1

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S2 Acquired: 6/3/2025 13:07:59 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05262	.05527	.18063	.05722	.08828	.12445	3.7060	.15924	1.0498
Stddev	.00057	.00091	.00119	.00051	.00067	.00082	.0106	.00039	.0085
%RSD	1.0918	1.6439	.65672	.89472	.75793	.65685	.28527	.24383	.80654
#1	.05272	.05631	.18142	.05748	.08859	.12428	3.7181	.15969	1.0564
#2	.05313	.05486	.18121	.05756	.08874	.12373	3.6985	.15907	1.0528
#3	.05200	.05464	.17927	.05663	.08751	.12534	3.7015	.15897	1.0402

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.18617	.02912	.38816	.15053	.00459	.16926	.05866	.23526	.05826
Stddev	.00087	.00017	.00339	.00148	.00002	.00061	.00021	.00185	.00018
%RSD	.46887	.56855	.87374	.97995	.41502	.36174	.35801	.78670	.30777
#1	.18717	.02914	.39084	.15144	.00458	.16858	.05860	.23680	.05807
#2	.18565	.02894	.38929	.15133	.00458	.16977	.05889	.23578	.05828
#3	.18568	.02927	.38435	.14883	.00461	.16942	.05848	.23320	.05843

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04644	.05329	1.3429	.03080	.31440	.64131	.12174	.32858	.00454
Stddev	.00007	.00016	.0062	.00021	.00140	.00475	.00083	.00123	.00007
%RSD	.14479	.30243	.45986	.69388	.44636	.74119	.68473	.37523	1.4626
#1	.04650	.05343	1.3366	.03080	.31473	.64372	.12221	.32954	.00462
#2	.04637	.05333	1.3431	.03059	.31561	.64437	.12224	.32901	.00450
#3	.04646	.05311	1.3490	.03101	.31286	.63583	.12078	.32719	.00451

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03217	.02356	.66723	6.4258
Stddev	.00036	.00017	.00113	.0104
%RSD	1.1096	.73476	.16956	.16246
#1	.03246	.02370	.66748	6.4354
#2	.03228	.02360	.66822	6.4275
#3	.03177	.02337	.66600	6.4147

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S2 Acquired: 6/3/2025 13:07:59 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	2961.8	62624.	11667.	2206.8	4022.2
Stddev	17.3	350.	33.	8.5	24.0
%RSD	.58341	.55851	.28468	.38404	.59596
#1	2950.5	62491.	11633.	2200.4	4000.6
#2	2953.3	63020.	11668.	2216.4	4018.0
#3	2981.7	62359.	11699.	2203.7	4048.0

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S3 Acquired: 6/3/2025 13:12:09 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.16360**	**.17012**	**.56005**	**.17673**	**.27432**	**.38924**	**11.598**	**.49899**	**3.2656**
Stddev	.00139	.00304	.00379	.00181	.00188	.00017	.023	.00186	.0245
%RSD	.84959	1.7865	.67755	1.0261	.68635	.04421	.19595	.37301	.75093
#1	.16461	.16882	.56084	.17743	.27514	.38932	11.592	.49719	3.2687
#2	.16202	.16794	.55592	.17467	.27217	.38936	11.623	.49889	3.2396
#3	.16418	.17359	.56339	.17810	.27566	.38905	11.579	.50091	3.2884

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.58097**	**.09044**	**1.2086**	**.46394**	**.01440**	**.52298**	**.18432**	**.72964**	**.18201**
Stddev	.00109	.00026	.0088	.00330	.00004	.00063	.00040	.00460	.00048
%RSD	.18726	.28903	.72877	.71026	.25111	.12019	.21891	.63101	.26198
#1	.57988	.09051	1.2108	.46506	.01440	.52227	.18386	.73040	.18227
#2	.58096	.09015	1.1989	.46023	.01444	.52346	.18459	.72470	.18231
#3	.58206	.09066	1.2162	.46653	.01437	.52321	.18452	.73381	.18146

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.14743**	**.16622**	**3.7980**	**.09599**	**.98235**	**1.9725**	**.38123**	**1.0211**	**.01408**
Stddev	.00084	.00028	.0115	.00016	.00234	.0156	.00325	.0010	.00003
%RSD	.56777	.17093	.30204	.16952	.23809	.78952	.85218	.10203	.24557
#1	.14761	.16635	3.7970	.09609	.97976	1.9761	.38073	1.0211	.01408
#2	.14817	.16590	3.8099	.09607	.98430	1.9555	.37825	1.0222	.01411
#3	.14652	.16642	3.7870	.09580	.98300	1.9860	.38469	1.0201	.01404

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10595**	**.07490**	**2.1174**	**20.069**
Stddev	.00069	.00076	.0041	.074
%RSD	.65490	1.0163	.19380	.36714
#1	.10632	.07516	2.1179	19.985
#2	.10515	.07404	2.1213	20.119
#3	.10639	.07549	2.1131	20.105

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S3 Acquired: 6/3/2025 13:12:09 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	2894.3	60289.	11434.	2146.8	3868.1
Stddev	19.7	20.	32.	11.2	24.9
%RSD	.67978	.03261	.28305	.52238	.64401
#1	2884.8	60308.	11470.	2159.2	3860.0
#2	2916.9	60269.	11424.	2137.5	3896.0
#3	2881.2	60291.	11408.	2143.6	3848.2

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S4 Acquired: 6/3/2025 13:16:20 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32542	.34568	1.1185	.34756	.54231	.79947	22.558	1.0840	6.5535
Stddev	.00162	.00173	.0046	.00126	.00391	.00430	.231	.0060	.0341
%RSD	.49696	.49983	.40919	.36167	.72102	.53791	1.0240	.54909	.52061
#1	.32633	.34377	1.1227	.34848	.54467	.79950	22.808	1.0842	6.5798
#2	.32638	.34612	1.1192	.34807	.54445	.79516	22.353	1.0780	6.5658
#3	.32355	.34714	1.1136	.34613	.53779	.80376	22.513	1.0899	6.5150

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1677	.17921	2.4218	.91112	.02630	1.0466	.37975	1.4526	.36142
Stddev	.0053	.00042	.0145	.00560	.00007	.0051	.00186	.0073	.00060
%RSD	.45851	.23548	.59983	.61474	.26390	.48602	.48967	.50139	.16573
#1	1.1672	.17886	2.4317	.91436	.02624	1.0460	.37835	1.4586	.36133
#2	1.1626	.17909	2.4286	.91435	.02629	1.0418	.37905	1.4547	.36206
#3	1.1733	.17968	2.4051	.90465	.02638	1.0519	.38186	1.4445	.36087

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.27726	.33567	7.0975	.17956	2.1467	3.9100	.76638	2.0412	.02638
Stddev	.00136	.00167	.0129	.00062	.0168	.0169	.00254	.0069	.00021
%RSD	.49185	.49691	.18228	.34507	.78019	.43150	.33196	.33679	.77777
#1	.27757	.33547	7.0952	.17937	2.1502	3.9197	.76820	2.0420	.02618
#2	.27845	.33410	7.0859	.18025	2.1286	3.9197	.76747	2.0340	.02659
#3	.27577	.33742	7.1115	.17905	2.1615	3.8905	.76348	2.0476	.02638

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.21576	.15107	4.4301	39.360
Stddev	.00061	.00085	.0185	.544
%RSD	.28143	.56315	.41653	1.3828
#1	.21601	.15124	4.4439	39.030
#2	.21620	.15181	4.4092	39.061
#3	.21506	.15014	4.4374	39.988

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S4 Acquired: 6/3/2025 13:16:20 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	2856.2	59105.	10240.	2104.2	3753.8
Stddev	15.9	213.	55.	4.4	21.8
%RSD	.55612	.36022	.53457	.21125	.58149
#1	2843.7	59268.	10239.	2109.1	3735.9
#2	2850.7	58864.	10295.	2100.4	3747.3
#3	2874.0	59183.	10186.	2103.1	3778.1

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S5 Acquired: 6/3/2025 13:20:39 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.66219	.70897	2.2932	.70024	1.1081	1.6486	48.337	2.0886	13.446
Stddev	.00317	.01341	.0102	.00499	.0050	.0188	.648	.0178	.055
%RSD	.47931	1.8918	.44391	.71191	.45424	1.1383	1.3396	.85073	.40723
#1	.65947	.69460	2.2880	.69590	1.1036	1.6603	48.904	2.1024	13.418
#2	.66144	.71115	2.2866	.69913	1.1071	1.6586	48.476	2.0948	13.410
#3	.66568	.72116	2.3049	.70568	1.1135	1.6270	47.631	2.0685	13.509

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4224	.36331	4.9993	1.8267	.05856	2.1722	.78678	2.9682	.74370
Stddev	.0225	.00078	.0203	.0060	.00010	.0145	.00787	.0124	.00121
%RSD	.92985	.21390	.40668	.32760	.17057	.66618	1.0008	.41933	.16233
#1	2.4353	.36416	4.9919	1.8229	.05846	2.1808	.79011	2.9616	.74499
#2	2.4356	.36264	4.9838	1.8236	.05866	2.1803	.79244	2.9605	.74350
#3	2.3964	.36312	5.0223	1.8336	.05857	2.1555	.77779	2.9826	.74260

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.63084	.70506	14.217	.40109	4.1517	7.9870	1.5702	4.2826	.05844
Stddev	.00162	.00811	.053	.00028	.0388	.0320	.0074	.0362	.00019
%RSD	.25655	1.1503	.37062	.06925	.93520	.40069	.47238	.84457	.32409
#1	.63156	.71011	14.261	.40140	4.1812	7.9600	1.5659	4.3032	.05838
#2	.62898	.70937	14.232	.40103	4.1663	7.9785	1.5660	4.3037	.05865
#3	.63197	.69571	14.159	.40085	4.1077	8.0223	1.5788	4.2408	.05829

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.44645	.31438	9.0913	82.469
Stddev	.00354	.00239	.0663	.180
%RSD	.79215	.75987	.72928	.21789
#1	.44338	.31265	9.1413	82.371
#2	.44565	.31339	9.1164	82.677
#3	.45032	.31711	9.0161	82.360

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: S5 Acquired: 6/3/2025 13:20:39 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	2830.4	57582.	10653.	2044.7	3650.5
Stddev	9.3	101.	84.	6.5	15.5
%RSD	.32789	.17623	.78778	.31749	.42583
#1	2834.6	57465.	10583.	2038.2	3657.3
#2	2836.8	57630.	10629.	2051.2	3661.6
#3	2819.8	57650.	10746.	2044.6	3632.8

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICV01 Acquired: 6/3/2025 13:57:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.000383**	**.9849596**	**.9661313**	**.9849387**	**.9983483**	**2.549816**
Stddev	.002324	.0068179	.0020421	.0054893	.0054281	.014050
%RSD	.2323396	.6922021	.2113729	.5573196	.5437133	.5510300
#1	.997749	.9883226	.9642999	.9786409	.9954106	2.565881
#2	1.001259	.9894426	.9657607	.9887079	.9950220	2.539821
#3	1.002143	.9771135	.9683334	.9874674	1.004612	2.543747

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4793800**	**.5288377**	**.4969724**	**9.800547**	**.5209923**	**.5154299**
Stddev	.0053424	.0013179	.0012064	.104071	.0010966	.0015124
%RSD	1.114442	.2492108	.2427481	1.061892	.2104813	.2934212
#1	.4855478	.5296808	.4972902	9.916003	.5222484	.5148565
#2	.4761989	.5273190	.4956389	9.713952	.5202257	.5142881
#3	.4763931	.5295133	.4979881	9.771686	.5205029	.5171451

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5192633**	**9.502363**	**.5040190**	**6.173821**	**.5318371**	**.2598427**
Stddev	.0022442	.095214	.0033800	.042800	.0013171	.0001354
%RSD	.4321921	1.002001	.6706176	.6932542	.2476588	.0521204
#1	.5176133	9.612101	.5076561	6.222311	.5312693	.2597449
#2	.5183579	9.441678	.5009745	6.141305	.5308991	.2597858
#3	.5218188	9.453309	.5034264	6.157849	.5333429	.2599972

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.297737**	**.4786968**	**1.020710**	**9.019257**	F **.0296519**	F **.0013349**
Stddev	.150422	.0054996	.004224	.094146	.0003024	.0001518
%RSD	1.617830	1.148875	.4137986	1.043836	1.019750	11.36814
#1	9.452780	.4849645	1.022077	9.117383	.0299704	.0011635
#2	9.288024	.4764477	1.024082	9.010715	.0293687	.0013888
#3	9.152407	.4746781	1.015973	8.929672	.0296168	.0014523

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICV01 Acquired: 6/3/2025 13:57:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000147	F .0023297	F .0230359	F .0018400	F .0306684	F .0035833
Stddev	.000428	.0007325	.0048387	.0005134	.0034227	.0005150
%RSD	291.6377	31.44007	21.00494	27.90176	11.16044	14.37149
#1	-.000193	.0017652	.0286127	.0014069	.0340545	.0041636
#2	.000302	.0020666	.0199506	.0024071	.0272102	.0031808
#3	-.000550	.0031574	.0205446	.0017060	.0307404	.0034056

Elem	Sr4077
Units	ppm
Avg	F -.007619
Stddev	.000048
%RSD	.6312120
#1	-.007663
#2	-.007567
#3	-.007627

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2999.728	61440.02	10974.70	2193.661	4052.696
Stddev	11.061	236.77	47.12	20.604	11.901
%RSD	.3687227	.3853604	.4293692	.9392698	.2936515
#1	3009.683	61199.51	10920.39	2178.404	4063.948
#2	3001.679	61447.69	10999.00	2185.479	4053.901
#3	2987.822	61672.85	11004.72	2217.100	4040.238

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: LLICV01 Acquired: 6/3/2025 14:11:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0203532**	**.0367704**	**.0119185**	**.0218167**	**.0471444**	**.0935616**	**.0900038**
Stddev	.0016233	.0007178	.0009844	.0018305	.0014899	.0016223	.0004174
%RSD	7.975482	1.952057	8.259500	8.390366	3.160265	1.733977	.4637748
#1	.0202979	.0359467	.0130027	.0231711	.0456249	.0931097	.0899427
#2	.0187582	.0372614	.0110806	.0225449	.0472054	.0953620	.0896204
#3	.0220034	.0371032	.0116724	.0197342	.0486028	.0922131	.0904485

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053936**	**.0059160**	**1.853392**	**.0101198**	**.0285719**	**.0205584**	**.1118680**
Stddev	.0000681	.0000365	.016700	.0003213	.0002312	.0002742	.0005430
%RSD	1.262764	.6172517	.9010421	3.175285	.8093387	1.333976	.4853553
#1	.0053519	.0059291	1.834962	.0098687	.0283591	.0202546	.1112425
#2	.0053568	.0058747	1.867520	.0100088	.0285387	.0206328	.1122171
#3	.0054722	.0059441	1.857695	.0104819	.0288180	.0207878	.1121445

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186845**	**1.848469**	**.0392158**	**.0082857**	**1.745844**	**.0350265**	**.0405726**
Stddev	.0004191	.015921	.0003931	.0003982	.007244	.0018920	.0003986
%RSD	2.242995	.8613263	1.002380	4.805545	.4149172	5.401534	.9823306
#1	.0188097	1.859885	.0387640	.0078259	1.753842	.0341753	.0402271
#2	.0182171	1.830281	.0394034	.0085155	1.743966	.0371946	.0410086
#3	.0190267	1.855240	.0394799	.0085156	1.739724	.0337097	.0404820

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.771233**	**.0889540**	**.1870388**	**.0361703**	**.0348567**	**.3258601**	**.0190553**
Stddev	.027457	.0014393	.0013708	.0007400	.0004606	.0023357	.0014439
%RSD	1.550136	1.618025	.7329113	2.045980	1.321369	.7167775	7.577608
#1	1.787266	.0874415	.1858578	.0354395	.0346572	.3244542	.0173950
#2	1.786902	.0891139	.1867164	.0369193	.0353834	.3245698	.0200181
#3	1.739529	.0903067	.1885420	.0361520	.0345295	.3285563	.0197527

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: LLICV01 Acquired: 6/3/2025 14:11:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.0221553**	**.0173487**	**.0191908**
Stddev	.0010160	.0012423	.0000919
%RSD	4.586017	7.160595	.4790810
#1	.0233151	.0173551	.0191578
#2	.0217286	.0161033	.0191199
#3	.0214222	.0185878	.0192947

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3052.003**	**62834.80**	**12129.64**	**2221.131**	**4185.555**
Stddev	7.141	39.42	51.44	4.977	12.741
%RSD	.2339740	.0627424	.4240571	.2240598	.3044149
#1	3052.717	62856.78	12138.54	2219.830	4178.988
#2	3058.760	62858.33	12176.04	2216.935	4200.240
#3	3044.532	62789.28	12074.33	2226.630	4177.436

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICB01 Acquired: 6/3/2025 14:16:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0012630**	**-.000609**	**-.000438**	**-.001214**	**-.001758**	**-.003966**	**.0002722**
Stddev	.0006735	.001542	.000862	.000292	.002540	.003599	.0010297
%RSD	53.32878	253.3936	196.8189	24.07561	144.4315	90.75282	378.2899
#1	.0008980	-.002329	.000542	-.001243	-.001733	-.002437	.0014340
#2	.0020403	-.000148	-.000778	-.001491	.000769	-.008077	-.000528
#3	.0008507	.000651	-.001077	-.000908	-.004311	-.001384	-.000090

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000036**	**.0000746**	**.0081441**	**.0006628**	**-.000028**	**-.000051**	**.0088876**
Stddev	.000041	.0000900	.0134749	.0004864	.000198	.000576	.0044120
%RSD	113.9166	120.5930	165.4554	73.38629	704.4423	1125.117	49.64200
#1	-.000071	.0000387	-.000975	.0012089	.000058	-.000634	.0129608
#2	.000009	.0000081	.023622	.0002762	.000112	.000518	.0042010
#3	-.000047	.0001771	.001786	.0005033	-.000254	-.000037	.0095012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000143**	**-.005150**	**.0004706**	**-.000118**	**-.046096**	**.0015763**	**.0003007**
Stddev	.000231	.009507	.0000319	.000219	.021046	.0013713	.0001963
%RSD	161.7980	184.6067	6.781419	186.5873	45.65729	86.99530	65.28363
#1	.000105	-.007715	.0005074	-.000352	-.055609	.0008117	.0002566
#2	-.000351	.005377	.0004520	-.000084	-.021973	.0007578	.0005153
#3	-.000182	-.013112	.0004524	.000083	-.060706	.0031594	.0001302

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.029814**	**.0015200**	**.0000527**	**.0013385**	**.0004328**	**-.004835**	**.0022437**
Stddev	.027954	.0004727	.0000991	.0007079	.0008221	.007532	.0017155
%RSD	93.76353	31.09858	187.9658	52.88769	189.9431	155.7642	76.45736
#1	-.062082	.0010389	.0001616	.0011416	-.000455	.000811	.0004880
#2	-.014380	.0019838	.0000288	.0007499	.001168	-.013387	.0023272
#3	-.012979	.0015374	-.000032	.0021240	.000585	-.001930	.0039159

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICB01 Acquired: 6/3/2025 14:16:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002258	-.000155	.0000340
Stddev	.0010935	.000171	.0000777
%RSD	484.3755	110.4757	228.6091
#1	-.000393	-.000293	.0000416
#2	-.000419	-.000207	-.000047
#3	.001488	.000036	.000108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3118.865	62849.36	11160.41	2224.242	4308.149
Stddev	27.228	244.11	94.12	10.444	29.931
%RSD	.8730194	.3883974	.8433369	.4695689	.6947457
#1	3111.035	62575.73	11078.64	2216.651	4300.137
#2	3096.411	63044.75	11139.30	2236.154	4283.040
#3	3149.151	62927.60	11263.30	2219.923	4341.271

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CRI01 Acquired: 6/3/2025 14:36:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0230377	.0368065	.0116613	.0241183	.0488812	.0983399	.0914099
Stddev	.0001415	.0017238	.0009514	.0020492	.0018842	.0018821	.0006202
%RSD	.6142844	4.683353	8.158452	8.496364	3.854553	1.913834	.6785042
#1	.0231811	.0384972	.0127515	.0264392	.0480489	.0972803	.0918726
#2	.0228981	.0350515	.0112333	.0233573	.0475565	.0972266	.0907051
#3	.0230339	.0368706	.0109991	.0225586	.0510382	.1005129	.0916519

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057083	.0059546	1.928047	.0107882	.0292313	.0240832	.1189111
Stddev	.0000614	.0000492	.011417	.0003965	.0003203	.0004591	.0054016
%RSD	1.074852	.8256072	.5921625	3.675394	1.095629	1.906382	4.542526
#1	.0057050	.0059223	1.939101	.0103322	.0288860	.0237707	.1135498
#2	.0056487	.0059304	1.928741	.0110523	.0295186	.0238686	.1243520
#3	.0057713	.0060112	1.916298	.0109799	.0292892	.0246103	.1188315

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194198	1.906351	.0413700	.0093173	1.805099	.0376342	.0433115
Stddev	.0003169	.010402	.0002455	.0001416	.012445	.0011506	.0005394
%RSD	1.632098	.5456665	.5934318	1.520209	.6894435	3.057293	1.245437
#1	.0197739	1.915790	.0413156	.0094694	1.815938	.0363091	.0430371
#2	.0193227	1.908065	.0411562	.0092933	1.807852	.0382134	.0439330
#3	.0191627	1.895198	.0416381	.0091892	1.791508	.0383801	.0429645

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.858556	.0917606	.1908368	.0377625	.0355209	.3323523	.0198702
Stddev	.012223	.0010364	.0006671	.0003364	.0005867	.0040040	.0031163
%RSD	.6576352	1.129476	.3495513	.8907510	1.651597	1.204751	15.68350
#1	1.846136	.0909371	.1907653	.0373741	.0351687	.3341761	.0167774
#2	1.870570	.0929244	.1902084	.0379541	.0351959	.3277610	.0230096
#3	1.858962	.0914204	.1915368	.0379592	.0361981	.3351197	.0198237

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CRI01 Acquired: 6/3/2025 14:36:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0249620	.0177305	.0196448
Stddev	.0005698	.0005241	.0000744
%RSD	2.282517	2.956140	.3786111
#1	.0252318	.0172367	.0196874
#2	.0253467	.0176745	.0196882
#3	.0243075	.0182805	.0195589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.763	61949.91	11951.10	2201.565	4087.439
Stddev	9.785	172.68	43.60	4.409	12.559
%RSD	.3256609	.2787384	.3648523	.2002591	.3072561
#1	3012.575	62105.81	11978.85	2199.589	4099.083
#2	3007.926	61979.60	11973.62	2198.490	4089.103
#3	2993.787	61764.31	11900.84	2206.616	4074.131

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSA01 Acquired: 6/3/2025 14:46:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041967**	**-.000843**	**.0006464**	**.0003677**	**-.000702**	**241.5148**
Stddev	.0002356	.003166	.0025484	.0067912	.004163	1.0232
%RSD	5.612799	375.6719	394.2603	1847.052	593.1753	.4236780
#1	.0039608	-.003131	.0033633	-.007329	.004076	242.5487
#2	.0041973	-.002167	.0002667	.002917	-.002635	241.4931
#3	.0044319	.002770	-.001691	.005515	-.003547	240.5026

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035656**	**.0012342**	**.0011129**	**227.8419**	**.0469892**	**.0016411**
Stddev	.0004518	.0001234	.0002513	1.2329	.0004875	.0004071
%RSD	12.67097	9.995109	22.57865	.5411331	1.037495	24.80706
#1	.0033506	.0012350	.0013225	229.0445	.0475503	.0020779
#2	.0040847	.0013571	.0008343	227.9005	.0466693	.0012723
#3	.0032615	.0011104	.0011819	226.5807	.0467479	.0015730

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003263**	**99.51064**	**.0026921**	**245.8108**	**.0045618**	**.0006943**
Stddev	.000088	.40854	.0005874	1.0254	.0002233	.0004950
%RSD	2.682969	.4105534	21.81988	.4171364	4.895631	71.29135
#1	-.003256	99.09868	.0029535	246.8518	.0043759	.0002494
#2	-.003179	99.91568	.0031034	245.7786	.0048095	.0012275
#3	-.003354	99.51756	.0020193	244.8018	.0045000	.0006060

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011166**	**.0041584**	**.0148625**	**.0759043**	F **.2209557**	**.0003160**
Stddev	.013982	.0002968	.0002961	.0297001	.0011537	.0006674
%RSD	125.2188	7.136552	1.992170	39.12834	.5221442	211.1841
#1	-.027177	.0044587	.0147800	.0416197	.2196942	.0009195
#2	-.001362	.0038653	.0151911	.0923266	.2212156	.0004292
#3	-.004959	.0041511	.0146164	.0937665	.2219573	-.000401

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSA01 Acquired: 6/3/2025 14:46:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	-.002240	-.001246	.0161484	.0022471	F .0229909	.0016423
Stddev	.001096	.001361	.0135226	.0026708	.0016633	.0005407
%RSD	48.90362	109.2803	83.73981	118.8515	7.234403	32.92096
#1	-.001553	-.001480	.0021299	.0006615	.0232337	.0010576
#2	-.003504	.000218	.0172016	.0053307	.0245194	.0017452
#3	-.001664	-.002474	.0291135	.0007492	.0212196	.0021241

Elem	Sr4077
Units	ppm
Avg	-.001067
Stddev	.000905
%RSD	84.80179
#1	-.000120
#2	-.001158
#3	-.001922

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2739.612	55435.30	11329.22	1969.953	3538.530
Stddev	.539	225.54	61.23	11.590	7.178
%RSD	.0196605	.4068546	.5404712	.5883232	.2028504
#1	2740.119	55633.97	11274.64	1982.507	3542.215
#2	2739.669	55190.13	11317.58	1959.662	3543.116
#3	2739.046	55481.80	11395.43	1967.688	3530.258

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSAB01 Acquired: 6/3/2025 15:06:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1117630**	**.1065839**	**.0439897**	**.0437534**	**.6260997**	**245.7903**
Stddev	.0021645	.0006546	.0027818	.0025751	.0039258	.1793
%RSD	1.936642	.6141742	6.323731	5.885408	.6270242	.0729587
#1	.1096007	.1069916	.0413466	.0454978	.6256008	245.6674
#2	.1117586	.1058288	.0437305	.0407959	.6302511	245.9961
#3	.1139296	.1069313	.0468921	.0449667	.6224472	245.7076

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4723805**	**.4790081**	**.9828186**	**230.1368**	**.5557395**	**.4991179**
Stddev	.0003701	.0029198	.0095267	.3235	.0017693	.0049363
%RSD	.0783430	.6095464	.9693268	.1405516	.3183738	.9889972
#1	.4720702	.4762899	.9833894	230.0166	.5537430	.4989135
#2	.4727901	.4820945	.9920471	230.5031	.5563620	.5041532
#3	.4722811	.4786399	.9730193	229.8906	.5571135	.4942870

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4933378**	**101.0113**	**.4658389**	**248.7429**	**.9834700**	**.2127965**
Stddev	.0055357	.6099	.0014609	.5058	.0097259	.0003485
%RSD	1.122090	.6038010	.3136090	.2033363	.9889372	.1637820
#1	.4927934	101.5360	.4675131	248.5246	.9829972	.2128418
#2	.4991256	100.3422	.4651809	249.3211	.9934237	.2131202
#3	.4880945	101.1557	.4648227	248.3829	.9739892	.2124276

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.054640**	**.4733181**	**1.037831**	**.0424736**	F **.2251698**	F **-.000098**
Stddev	.012658	.0013895	.003283	.0451297	.0027667	.000289
%RSD	23.16576	.2935601	.3163199	106.2535	1.228700	294.9420
#1	-.063703	.4718073	1.034961	.0010220	.2278647	-.000401
#2	-.060040	.4745411	1.037121	.0358496	.2223365	.000175
#3	-.040178	.4736061	1.041411	.0905491	.2253083	-.000069

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSAB01 Acquired: 6/3/2025 15:06:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001751	F -.001745	F .0080970	F .0062218	F -.013582	F .0004242
Stddev	.000968	.000473	.0066402	.0010722	.004823	.0011820
%RSD	55.25094	27.13181	82.00767	17.23220	35.51265	278.6106
#1	-.002464	-.002227	.0108004	.0070530	-.018860	.0015219
#2	-.002141	-.001728	.0129591	.0050116	-.012483	-.000827
#3	-.000650	-.001280	.0005316	.0066007	-.009403	.000578

Elem	Sr4077
Units	ppm
Avg	F -.001199
Stddev	.000640
%RSD	53.35536
#1	-.001710
#2	-.000482
#3	-.001406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2774.707	56271.82	11597.27	1976.397	3599.328
Stddev	18.909	29.34	62.93	10.537	27.337
%RSD	.6814654	.0521405	.5426555	.5331666	.7594982
#1	2775.402	56238.28	11642.27	1987.444	3597.816
#2	2755.461	56292.72	11525.36	1975.291	3572.778
#3	2793.259	56284.46	11624.19	1966.457	3627.389

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSADLX20 Acquired: 6/3/2025 15:16:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001544	-.001732	.0701458	.0031688	-.001771	11.59603	-.001123
Stddev	.000652	.001629	.0007780	.0020289	.003699	.03628	.001024
%RSD	42.26945	94.07455	1.109106	64.02715	208.8450	.3128940	91.19021
#1	-.002248	-.003609	.0693330	.0010611	.001283	11.63176	-.001180
#2	-.001422	-.000911	.0708836	.0051085	-.005884	11.59711	-.000071
#3	-.000961	-.000676	.0702210	.0033368	-.000712	11.55922	-.002116

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001900	.0002133	11.35989	.0049327	.0004425	.0012969	4.637582
Stddev	.0000333	.0001292	.03612	.0005870	.0002139	.0001758	.015143
%RSD	17.52950	60.55208	.3179694	11.89945	48.33889	13.55544	.3265378
#1	.0002278	.0002368	11.39435	.0053411	.0002867	.0011276	4.627134
#2	.0001775	.0000740	11.32231	.0042601	.0003545	.0012847	4.630662
#3	.0001648	.0003292	11.36300	.0051969	.0006864	.0014785	4.654949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013778	11.69425	.0484541	-.000186	-.078505	.0014232	1.238819
Stddev	.0004795	.02226	.0004217	.000224	.024122	.0008768	.006083
%RSD	34.80598	.1903860	.8702385	120.5290	30.72627	61.60340	.4910397
#1	.0010468	11.69693	.0479714	-.000278	-.105791	.0004174	1.238740
#2	.0019277	11.67076	.0487503	-.000350	-.069708	.0018263	1.244940
#3	.0011588	11.71505	.0486408	.000070	-.060017	.0020259	1.232775

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1655686	.0128687	.0003045	.0003336	.0014108	.0034668	.0062651
Stddev	.0215125	.0005058	.0000681	.0004817	.0003911	.0078996	.0024148
%RSD	12.99308	3.930658	22.37111	144.4187	27.72136	227.8619	38.54375
#1	.1419256	.0132601	.0003810	.0001372	.0017468	.0056473	.0057672
#2	.1839888	.0130486	.0002820	-.000019	.0009815	.0100472	.0041380
#3	.1707915	.0122976	.0002504	.000882	.0015041	-.005294	.0088900

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSADLX20 Acquired: 6/3/2025 15:16:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0280230	-.001008	.0003764
Stddev	.0022702	.000584	.0000276
%RSD	8.101373	57.91473	7.330615
#1	.0262786	-.001573	.0004077
#2	.0272005	-.001042	.0003660
#3	.0305898	-.000408	.0003556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3039.907	63532.70	11899.09	2218.057	4141.588
Stddev	7.996	172.49	24.46	10.088	3.898
%RSD	.2630231	.2714943	.2055243	.4548090	.0941155
#1	3030.768	63681.52	11871.82	2221.774	4139.382
#2	3043.338	63343.65	11906.37	2206.637	4139.293
#3	3045.614	63572.92	11919.07	2225.758	4146.088

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSABDLX20 Acquired: 6/3/2025 15:22:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064569	.0028780	.0033367	.0050432	.0269795	11.95390	.0214559
Stddev	.0021458	.0007404	.0021758	.0021352	.0022648	.01434	.0012508
%RSD	33.23324	25.72696	65.20783	42.33907	8.394687	.1199488	5.829681
#1	.0084148	.0031417	.0050287	.0070475	.0264499	11.96277	.0211944
#2	.0067932	.0034504	.0008823	.0027975	.0250263	11.93736	.0228169
#3	.0041628	.0020418	.0040991	.0052845	.0294622	11.96157	.0203566

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243979	.0493548	11.72936	.0292329	.0242924	.0255719	5.112654
Stddev	.0000777	.0001121	.02908	.0011071	.0001670	.0002858	.096667
%RSD	.3184110	.2271820	.2479393	3.787184	.6874225	1.117471	1.890738
#1	.0243344	.0494038	11.73831	.0283584	.0243733	.0252913	5.058818
#2	.0244845	.0494341	11.69685	.0304777	.0244035	.0255619	5.224252
#3	.0243748	.0492265	11.75291	.0288626	.0241004	.0258625	5.054892

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234407	12.08321	.0496270	.0100415	-.100266	.0253473	.0553322
Stddev	.0001981	.02821	.0001150	.0000712	.001530	.0012671	.0010834
%RSD	.8453339	.2334342	.2316310	.7091566	1.526392	4.999023	1.957993
#1	.0232129	12.08107	.0497405	.0101135	-.099910	.0240599	.0547017
#2	.0235358	12.05613	.0496300	.0099711	-.101943	.0253890	.0565832
#3	.0235734	12.11242	.0495106	.0100400	-.098945	.0265931	.0547118

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001292	.0109510	-.000158	-.000767	.0006063	.0064207	.0008497
Stddev	.045696	.0003333	.000142	.000539	.0006028	.0009086	.0006593
%RSD	3536.170	3.043913	89.90052	70.21094	99.41349	14.15178	77.58825
#1	.040320	.0107017	-.000016	-.000360	.0000306	.0065848	.0015425
#2	.005999	.0108217	-.000158	-.001378	.0005554	.0072361	.0007765
#3	-.050195	.0113296	-.000301	-.000564	.0012329	.0054412	.0002301

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: ICSABDLX20 Acquired: 6/3/2025 15:22:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0053183	-.000935	-.000098
Stddev	.0027926	.000857	.000138
%RSD	52.50850	91.61142	141.3498
#1	.0083307	-.000240	-.000026
#2	.0028157	-.000674	-.000257
#3	.0048086	-.001893	-.000010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3090.314	60936.96	12204.99	2156.109	4237.276
Stddev	5.572	1256.03	14.38	36.155	12.671
%RSD	.1803155	2.061196	.1178239	1.676862	.2990328
#1	3084.497	61694.58	12205.03	2179.296	4226.179
#2	3090.842	59487.12	12219.35	2114.450	4234.566
#3	3095.604	61629.19	12190.59	2174.582	4251.082

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV01 Acquired: 6/3/2025 15:28:08 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.033737**	**5.404666**	**4.918252**	**5.087881**	**5.017467**	**9.755372**	**9.499456**
Stddev	.031449	.073437	.021310	.031849	.029965	.009372	.024676
%RSD	.6247668	1.358768	.4332776	.6259706	.5972228	.0960717	.2597660
#1	5.029132	5.381275	4.899742	5.083358	5.011687	9.759671	9.518750
#2	5.004845	5.345773	4.913468	5.058537	4.990812	9.744621	9.507968
#3	5.067235	5.486949	4.941547	5.121750	5.049901	9.761823	9.471650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2404225**	**2.470296**	**24.00260**	**1.008785**	**2.458132**	**1.252497**	**5.008172**
Stddev	.0001554	.010173	.06454	.002791	.008836	.004451	.011097
%RSD	.0646306	.4118151	.2688733	.2766386	.3594694	.3553959	.2215769
#1	.2406006	2.464042	24.06723	1.008675	2.452820	1.252730	4.998607
#2	.2403145	2.464811	23.93816	1.006051	2.453244	1.247934	5.005570
#3	.2403523	2.482034	24.00241	1.011629	2.468332	1.256827	5.020338

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.372694**	**24.03100**	**2.456487**	**1.242782**	**24.46299**	**2.436136**	**2.482910**
Stddev	.006988	.09010	.011175	.002229	.15639	.006385	.005030
%RSD	.2945217	.3749167	.4549234	.1793728	.6393017	.2621003	.2026021
#1	2.374266	24.05824	2.449554	1.240971	24.48221	2.439676	2.478508
#2	2.365054	23.93043	2.450528	1.242104	24.29788	2.428765	2.481830
#3	2.378763	24.10433	2.469378	1.245272	24.60889	2.439968	2.488393

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.08629**	**4.765921**	**5.060984**	**4.971339**	**4.801355**	**5.059637**	**4.812468**
Stddev	.14910	.007849	.026381	.024210	.016435	.021951	.031708
%RSD	.5943392	.1646957	.5212568	.4869881	.3422913	.4338440	.6588807
#1	25.12113	4.763923	5.052488	4.955310	4.813867	5.042533	4.793729
#2	24.92286	4.774576	5.039899	4.959520	4.782743	5.051991	4.794596
#3	25.21488	4.759264	5.090566	4.999189	4.807456	5.084389	4.849078

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV01 Acquired: 6/3/2025 15:28:08 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.926008**	**4.744610**	**4.830778**
Stddev	.021596	.013554	.036354
%RSD	.4384152	.2856744	.7525532
#1	4.913862	4.750271	4.871879
#2	4.913220	4.729143	4.817621
#3	4.950943	4.754416	4.802835

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2996.661**	**60702.68**	**11656.89**	**2129.721**	**3978.697**
Stddev	11.004	59.25	24.18	4.571	14.694
%RSD	.3672076	.0976016	.2074623	.2146104	.3693082
#1	2993.685	60693.15	11632.42	2129.608	3977.378
#2	3008.847	60766.11	11657.49	2134.347	3994.006
#3	2987.451	60648.77	11680.77	2125.208	3964.707

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB01 Acquired: 6/3/2025 15:34:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0013775**	**-.002438**	**-.000466**	**.0001649**	**-.002104**	**.0013623**	**-.002386**
Stddev	.0011053	.001360	.000541	.0031368	.000479	.0058901	.000242
%RSD	80.23878	55.80944	115.9935	1902.188	22.76124	432.3766	10.16167
#1	.0004373	-.002080	-.000896	.0030523	-.001706	.0055569	-.002470
#2	.0011002	-.001292	-.000642	-.003173	-.002635	.0039015	-.002112
#3	.0025951	-.003941	.000141	.000615	-.001970	-.005372	-.002575

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000005**	**.0000659**	**.0016469**	**.0007249**	**.0000049**	**-.000346**	**.0036864**
Stddev	.000036	.0000080	.0058446	.0000698	.0001802	.000338	.0039426
%RSD	685.8589	12.08738	354.8936	9.621730	3665.637	97.62427	106.9491
#1	.000005	.0000605	.0016365	.0006695	-.000004	-.000725	.0033360
#2	-.000045	.0000750	.0074966	.0007020	.000189	-.000239	-.000069
#3	.000025	.0000622	-.004193	.0008032	-.000171	-.000075	.007792

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000660**	**-.008184**	**.0007105**	**-.000005**	**-.108045**	**.0000994**	**.0001491**
Stddev	.000368	.002781	.0003642	.000203	.017998	.0025274	.0001295
%RSD	55.73062	33.98524	51.26202	4056.504	16.65812	2541.732	86.84204
#1	-.000661	-.007097	.0004034	-.000238	-.128759	.0012969	.0002917
#2	-.001028	-.006111	.0006151	.000130	-.099154	-.002804	.0000389
#3	-.000292	-.011345	.0011129	.000093	-.096223	.001806	.0001168

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100231**	**.0050901**	**.0001200**	**.0004438**	**.0002632**	**.0002900**	**-.001677**
Stddev	.0148567	.0005522	.0000764	.0007089	.0005364	.0029585	.000552
%RSD	148.2242	10.84873	63.64607	159.7615	203.7881	1020.118	32.92114
#1	-.003841	.0055945	.0000578	.0005130	.0008412	.0000406	-.001238
#2	.008206	.0051758	.0000969	.0011155	.0001672	.0033653	-.002297
#3	.025705	.0045001	.0002052	-.000297	-.000219	-.002536	-.001497

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB01 Acquired: 6/3/2025 15:34:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001256	-.001824	.0000000
Stddev	.001225	.000162	.0000630
%RSD	97.53732	8.887581	249017.1
#1	-.001902	-.001639	.0000725
#2	.000157	-.001896	-.000031
#3	-.002024	-.001938	-.000041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3067.154	64204.75	11977.48	2235.233	4208.110
Stddev	7.738	202.43	76.83	6.793	14.419
%RSD	.2522973	.3152854	.6414203	.3039146	.3426441
#1	3060.579	64432.76	12007.76	2243.073	4199.870
#2	3065.201	64046.20	12034.55	2231.545	4199.700
#3	3075.681	64135.29	11890.13	2231.082	4224.759

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2130-02 Acquired: 6/3/2025 15:38:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000718**	**-.005451**	**.0065964**	**.0058312**	**.0007862**	**.0676551**	**.3960159**
Stddev	.001948	.000634	.0015941	.0015356	.0015478	.0079212	.0005889
%RSD	271.3113	11.63805	24.16594	26.33451	196.8821	11.70825	.1486934
#1	.000919	-.005467	.0047938	.0075015	.0023423	.0733571	.3961464
#2	-.002873	-.006077	.0078204	.0044807	.0007693	.0709977	.3965286
#3	-.000200	-.004809	.0071749	.0055113	-.000753	.0586105	.3953728

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0003232**	**38.01676**	**.0003371**	**.0088130**	**.0103224**	**1.042217**
Stddev	.000036	.0001211	.04872	.0000763	.0002925	.0006604	.002820
%RSD	433.1302	37.48378	.1281461	22.63419	3.319180	6.397748	.2706201
#1	-.000001	.0003101	38.02379	.0002624	.0086850	.0097151	1.042637
#2	.000024	.0002091	38.06158	.0003341	.0091477	.0102268	1.044804
#3	-.000047	.0004503	37.96491	.0004149	.0086063	.0110255	1.039210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9894237**	**2.625774**	**.0075743**	**-.000130**	**354.9056**	**.0005961**	**.0983220**
Stddev	.0051421	.008798	.0001336	.000226	5.5095	.0015702	.0005541
%RSD	.5197062	.3350638	1.764395	174.0490	1.552373	263.4075	.5635405
#1	.9930227	2.620017	.0075905	.000049	360.8792	-.000604	.0977246
#2	.9917140	2.621403	.0076992	-.000055	350.0237	.002373	.0984223
#3	.9835344	2.635902	.0074334	-.000385	353.8140	.000019	.0988191

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.337263**	**.0734826**	**.0002178**	**-.003033**	**.0001397**	**1.176088**	**.0110529**
Stddev	.008788	.0006304	.0001537	.000478	.0005225	.001541	.0031907
%RSD	.6571834	.8578382	70.59379	15.77596	373.9419	.1309897	28.86740
#1	1.334136	.0730411	.0003258	-.002821	.0005363	1.174713	.0073707
#2	1.347187	.0742045	.0002857	-.002698	-.000452	1.177752	.0127860
#3	1.330466	.0732022	.0000418	-.003581	.000335	1.175797	.0130019

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2130-02 Acquired: 6/3/2025 15:38:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4322100	-.008117	.1698270
Stddev	.0034653	.000750	.0003151
%RSD	.8017674	9.234632	.1855288
#1	.4293313	-.008138	.1698371
#2	.4360562	-.008857	.1701369
#3	.4312424	-.007358	.1695070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2858.577	59349.13	12068.23	2068.623	3720.599
Stddev	3.925	111.87	4.49	.843	7.956
%RSD	.1372936	.1884983	.0372259	.0407321	.2138330
#1	2859.944	59224.80	12069.99	2068.563	3728.273
#2	2861.635	59441.66	12063.12	2067.812	3721.134
#3	2854.151	59380.93	12071.57	2069.494	3712.389

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-02 Acquired: 6/3/2025 15:42:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008226	-.008343	.0029108	.0043415	.0037271	1.699372
Stddev	.0033865	.003707	.0029250	.0032147	.0026434	.024632
%RSD	411.6686	44.43967	100.4868	74.04509	70.92361	1.449488
#1	.0024620	-.007358	.0022742	.0064434	.0053308	1.717189
#2	.0030775	-.012443	.0061016	.0006409	.0006761	1.709664
#3	-.003072	-.005227	.0003565	.0059402	.0051745	1.671263

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3088520	.0000966	.0015960	266.0332	.0028407	.0066967
Stddev	.0013927	.0000519	.0000781	1.1390	.0002202	.0003263
%RSD	.4509389	53.74345	4.891569	.4281305	7.752440	4.872519
#1	.3103123	.0000519	.0016661	267.2977	.0030658	.0063865
#2	.3087054	.0001536	.0016099	265.0878	.0026257	.0070370
#3	.3075384	.0000844	.0015119	265.7140	.0028307	.0066666

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241446	15.94185	1.750340	36.48112	.0103598	-.000248
Stddev	.0005264	.12167	.007117	.12646	.0000453	.000388
%RSD	2.180191	.7632159	.4066028	.3466485	.4369333	156.1098
#1	.0243755	15.81588	1.758435	36.57883	.0103085	-.000237
#2	.0245162	15.95095	1.745069	36.33829	.0103770	.000133
#3	.0235423	16.05871	1.747514	36.52624	.0103940	-.000641

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0056484	.2526712	43.44800	.0941110	.0041769
Stddev	-----	.0026149	.0024543	.39522	.0004561	.0002028
%RSD	-----	46.29408	.9713495	.9096362	.4846024	4.855127
#1	^ -----	.0053711	.2554315	42.99337	.0946355	.0041077
#2	^ -----	.0031832	.2507351	43.70965	.0938892	.0044052
#3	^ -----	.0083909	.2518469	43.64098	.0938083	.0040178

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-02 Acquired: 6/3/2025 15:42:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005238	.0556309	11.69118	.2638172	F 31.33253	-.032496
Stddev	.000766	.0010789	.07791	.0031431	.09309	.000699
%RSD	14.61793	1.939320	.6664032	1.191411	.2970880	2.150290
#1	-.005018	.0568763	11.60328	.2608509	31.41412	-.031940
#2	-.004606	.0549821	11.75171	.2671115	31.23114	-.032267
#3	-.006089	.0550343	11.71856	.2634893	31.35233	-.033280

Elem	Sr4077
Units	ppm
Avg	1.244298
Stddev	.004128
%RSD	.3317750
#1	1.248339
#2	1.244469
#3	1.240087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.995	49162.11	10490.56	1681.055	2783.760
Stddev	4.067	89.15	97.32	10.047	4.118
%RSD	.1729099	.1813415	.9276547	.5976681	.1479433
#1	2348.273	49263.40	10378.69	1673.554	2779.029
#2	2351.376	49127.33	10537.34	1692.470	2786.542
#3	2356.335	49095.58	10555.65	1677.142	2785.709

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03 Acquired: 6/3/2025 15:47:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000573**	**-.004058**	**-.000878**	**.0014022**	**.0006239**	**.0401114**
Stddev	.001153	.001877	.000385	.0017980	.0011076	.0013293
%RSD	201.3180	46.25603	43.86417	128.2229	177.5341	3.314117
#1	.000528	-.003702	-.001309	.0031062	.0013863	.0386034
#2	-.001772	-.006087	-.000568	.0015773	-.000647	.0411136
#3	-.000475	-.002384	-.000757	-.000477	.001132	.0406171

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0482598**	**-.000075**	**.0001335**	**194.6480**	**.0014826**	**-.000247**
Stddev	.0004995	.000044	.0000230	.6288	.0002392	.000149
%RSD	1.034930	58.65126	17.23750	.3230514	16.13470	60.38443
#1	.0488306	-.000119	.0001367	194.6962	.0015237	-.000289
#2	.0479029	-.000031	.0001091	193.9965	.0012255	-.000081
#3	.0480459	-.000074	.0001547	195.2514	.0016986	-.000371

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0320189**	**.1022466**	**.0274266**	**71.66154**	**.0034330**	**-.000404**
Stddev	.0004907	.0029937	.0001389	.23682	.0003514	.000057
%RSD	1.532624	2.927970	.5063272	.3304664	10.23701	14.06418
#1	.0325818	.0990581	.0274665	71.50211	.0037605	-.000380
#2	.0317932	.1049974	.0272722	71.54886	.0030617	-.000363
#3	.0316816	.1026843	.0275412	71.93366	.0034769	-.000469

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**114.9825**	**.0023876**	**.0067188**	**7.821835**	**.0838494**	**.0069715**
Stddev	.3806	.0014672	.0003116	.009144	.0010276	.0004450
%RSD	.3310321	61.44874	4.637278	.1169099	1.225545	6.382440
#1	115.2067	.0016296	.0070462	7.830688	.0831204	.0067131
#2	114.5430	.0040787	.0066841	7.812424	.0834031	.0067162
#3	115.1978	.0014545	.0064260	7.822393	.0850247	.0074853

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03 Acquired: 6/3/2025 15:47:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013882	-.004509	F 20.71450	.0065716	14.43494	-.023124
Stddev	.0002575	.000878	.01878	.0021199	.03653	.000536
%RSD	18.55121	19.47775	.0906668	32.25845	.2530638	2.319490
#1	.0016798	-.003729	20.69330	.0088437	14.47672	-.023678
#2	.0011919	-.004337	20.72908	.0046469	14.40906	-.022608
#3	.0012929	-.005460	20.72111	.0062241	14.41903	-.023086

Elem	Sr4077
Units	ppm
Avg	.3939449
Stddev	.0017375
%RSD	.4410596
#1	.3943828
#2	.3920303
#3	.3954216

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2786.574	58467.70	11455.47	2011.880	3667.127
Stddev	4.118	120.23	46.95	6.878	4.346
%RSD	.1477762	.2056358	.4098692	.3418460	.1185168
#1	2788.401	58598.53	11498.76	2016.644	3665.652
#2	2789.462	58442.54	11462.11	2015.000	3672.019
#3	2781.859	58362.05	11405.56	2003.995	3663.711

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03DUP Acquired: 6/3/2025 15:51:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003450**	**-.004892**	**-.000630**	**.0039812**	**-.000379**	**.0296332**
Stddev	.003466	.001532	.000929	.0048157	.002020	.0091614
%RSD	100.4673	31.30597	147.4280	120.9607	533.2346	30.91604
#1	-.007437	-.006555	-.001694	.0094295	.000640	.0244210
#2	-.001767	-.004583	-.000211	.0022209	.000929	.0402115
#3	-.001147	-.003539	.000016	.0002933	-.002706	.0242671

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0441991**	**-.000105**	**.0001123**	**182.0983**	**-.000025**	**-.000132**
Stddev	.0006601	.000014	.0000503	.3095	.000321	.000152
%RSD	1.493461	13.83051	44.74111	.1699851	1281.712	115.4078
#1	.0436798	-.000119	.0000893	182.4549	.000168	.000026
#2	.0449420	-.000104	.0001700	181.8988	.000153	-.000277
#3	.0439756	-.000090	.0000777	181.9412	-.000396	-.000145

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0307937**	**.0825293**	**.0163778**	**66.99227**	**.0026005**	**-.000250**
Stddev	.0002090	.0018937	.0002582	.18428	.0002181	.000328
%RSD	.6785576	2.294590	1.576789	.2750805	8.387725	131.2264
#1	.0308526	.0804134	.0166442	67.07915	.0023493	-.000323
#2	.0309669	.0840651	.0161286	66.78061	.0027423	-.000535
#3	.0305616	.0831095	.0163605	67.11706	.0027098	.000109

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**107.0950**	**.0025416**	**.0066761**	**8.483424**	**.0841824**	**.0625972**
Stddev	.6672	.0003135	.0004126	.033734	.0001682	.0004380
%RSD	.6230273	12.33537	6.180313	.3976431	.1997873	.6997469
#1	107.8643	.0023475	.0065014	8.522139	.0843078	.0627599
#2	106.7458	.0023740	.0063796	8.460345	.0842480	.0621012
#3	106.6748	.0029033	.0071473	8.467788	.0839913	.0629307

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03DUP Acquired: 6/3/2025 15:51:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005059	-.003769	F 19.11587	.0147312	13.40232	-.020608
Stddev	.000091	.000332	.06698	.0023780	.03500	.000144
%RSD	1.797271	8.811516	.3503752	16.14267	.2611258	.6994696
#1	-.004983	-.003761	19.18189	.0120663	13.38326	-.020442
#2	-.005034	-.004105	19.04798	.0166367	13.38099	-.020703
#3	-.005160	-.003441	19.11775	.0154907	13.44271	-.020679

Elem	Sr4077
Units	ppm
Avg	.3704575
Stddev	.0018038
%RSD	.4869177
#1	.3725401
#2	.3694465
#3	.3693860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2812.712	59601.61	11500.96	2021.580	3720.832
Stddev	2.686	18.16	15.07	5.368	6.226
%RSD	.0954871	.0304679	.1310662	.2655150	.1673370
#1	2812.348	59606.81	11517.68	2021.730	3719.989
#2	2815.562	59581.42	11488.40	2026.870	3727.438
#3	2810.228	59616.60	11496.81	2016.138	3715.071

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03LX5 Acquired: 6/3/2025 15:55:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001121**	**-.003298**	**-.000835**	**.0051154**	**-.001655**	**.0091498**	**.0078385**
Stddev	.001485	.002205	.001029	.0030484	.001526	.0014512	.0006279
%RSD	132.4839	66.86986	123.3313	59.59286	92.19667	15.86019	8.010423
#1	-.000362	-.001843	-.001477	.0018151	-.003412	.0078559	.0081244
#2	-.002832	-.002215	-.001380	.0057053	-.000663	.0107188	.0071185
#3	-.000169	-.005835	.000353	.0078257	-.000890	.0088746	.0082725

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000553**	**.0000388**	**38.20910**	**.0005805**	**.0002564**	**.0067044**	**.0296589**
Stddev	.0000347	.0000359	.15076	.0001695	.0000969	.0006940	.0050521
%RSD	62.82268	92.47669	.3945654	29.19862	37.78183	10.35087	17.03387
#1	.0000563	.0000080	38.06442	.0007181	.0001774	.0075021	.0334233
#2	.0000895	.0000302	38.19759	.0006323	.0003645	.0063715	.0239173
#3	.0000201	.0000782	38.36528	.0003912	.0002274	.0062397	.0316362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078243**	**13.96532**	**.0014484**	**-.000244**	**21.09906**	**.0001341**	**.0053513**
Stddev	.0001869	.07292	.0001945	.000307	.09920	.0006939	.0002102
%RSD	2.389348	.5221770	13.42629	125.8499	.4701477	517.6284	3.928372
#1	.0076447	13.89721	.0015937	-.000560	21.01229	.0004995	.0051854
#2	.0080178	14.04225	.0015240	-.000228	21.07769	.0005688	.0055877
#3	.0078103	13.95649	.0012275	.000055	21.20720	-.000666	.0052809

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.520154**	**.0179595**	**.0014511**	**-.000932**	**-.000460**	**3.911517**	**.0029187**
Stddev	.035127	.0003946	.0001056	.000818	.000699	.007267	.0012862
%RSD	2.310762	2.197199	7.278165	87.74929	151.9019	.1857754	44.06788
#1	1.492292	.0177356	.0014201	-.000510	-.000046	3.907394	.0014355
#2	1.559614	.0184151	.0013644	-.001875	-.001267	3.919908	.0037262
#3	1.508558	.0177278	.0015687	-.000411	-.000068	3.907251	.0035943

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03LX5 Acquired: 6/3/2025 15:55:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.804176**	**.0024306**	**.0764130**
Stddev	.002885	.0010034	.0005810
%RSD	.1028958	41.28273	.7603102
#1	2.803403	.0023759	.0761478
#2	2.801756	.0034602	.0760120
#3	2.807369	.0014556	.0770793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2986.339**	**63299.01**	**12144.76**	**2176.156**	**4030.083**
Stddev	3.494	170.53	47.79	13.963	4.961
%RSD	.1170109	.2694011	.3934631	.6416526	.1231115
#1	2985.944	63491.55	12186.56	2190.977	4027.020
#2	2990.014	63238.46	12155.05	2174.243	4035.808
#3	2983.059	63167.02	12092.67	2163.248	4027.422

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03MS Acquired: 6/3/2025 15:59:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6644303**	**1.681574**	**.7725753**	**1.613960**	**.6643351**	**1.603423**
Stddev	.0017208	.001864	.0001228	.007501	.0036283	.013675
%RSD	.2589823	.1108398	.0158987	.4647306	.5461525	.8528768
#1	.6663275	1.679780	.7725875	1.621948	.6654634	1.588851
#2	.6629704	1.683501	.7724468	1.607066	.6602767	1.615978
#3	.6639932	1.681440	.7726916	1.612867	.6672652	1.605441

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1855585**	**.1560985**	**.1588691**	**160.4279**	**.3260783**	**.1589766**
Stddev	.0007843	.0002755	.0006782	.4783	.0004949	.0004530
%RSD	.4226500	.1765192	.4269175	.2981252	.1517815	.2849255
#1	.1862601	.1557853	.1587527	160.1806	.3265764	.1586777
#2	.1857037	.1563036	.1582565	160.9791	.3255866	.1587544
#3	.1847119	.1562068	.1595980	160.1238	.3260720	.1594978

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2675524**	**2.408348**	**.1626236**	**60.40988**	**.3995744**	**.0562347**
Stddev	.0001750	.008557	.0009416	.26603	.0018154	.0002302
%RSD	.0653950	.3553198	.5790014	.4403689	.4543353	.4093523
#1	.2674700	2.417106	.1634668	60.25615	.3978804	.0559692
#2	.2674338	2.407933	.1627965	60.71706	.3993521	.0563791
#3	.2677533	2.400006	.1616076	60.25644	.4014908	.0563558

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.32158**	**.2371918**	**.1641723**	**14.42897**	**.2867861**	**.3481751**
Stddev	.54730	.0038948	.0007230	.09301	.0009710	.0020159
%RSD	.5864630	1.642034	.4404056	.6445919	.3385956	.5789917
#1	93.80465	.2360271	.1635747	14.50927	.2858798	.3484399
#2	93.43291	.2415361	.1649760	14.45058	.2866676	.3460398
#3	92.72718	.2340123	.1639662	14.32706	.2878110	.3500455

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03MS Acquired: 6/3/2025 15:59:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5692059	.1490755	F 17.05552	4.924856	11.68001	.1431423
Stddev	.0027247	.0009158	.04924	.007308	.03179	.0008349
%RSD	.4786903	.6143467	.2886786	.1483834	.2721525	.5832504
#1	.5662631	.1481677	17.09680	4.916553	11.64786	.1422652
#2	.5697133	.1499992	17.06875	4.927702	11.68073	.1439274
#3	.5716412	.1490596	17.00103	4.930312	11.71142	.1432343

Elem	Sr4077
Units	ppm
Avg	.4762463
Stddev	.0022160
%RSD	.4652943
#1	.4775004
#2	.4775508
#3	.4736877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.729	60587.79	11434.38	2056.215	3752.382
Stddev	6.271	184.37	17.11	3.274	7.833
%RSD	.2213149	.3042990	.1495996	.1592428	.2087460
#1	2828.373	60381.00	11453.27	2053.121	3751.555
#2	2840.628	60735.00	11419.94	2055.881	3760.595
#3	2832.185	60647.37	11429.91	2059.644	3744.995

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03MSD Acquired: 6/3/2025 16:03:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7342963**	**1.811280**	**.8463484**	**1.778716**	**.7368103**	**1.764970**
Stddev	.0010546	.002560	.0012452	.006105	.0022094	.005326
%RSD	.1436175	.1413463	.1471295	.3432388	.2998620	.3017589
#1	.7330801	1.812260	.8450720	1.772673	.7352092	1.762230
#2	.7348506	1.813206	.8464133	1.784882	.7393310	1.761572
#3	.7349581	1.808375	.8475599	1.778593	.7358906	1.771108

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2081667**	**.1602078**	**.1746271**	**177.8809**	**.3585347**	**.1747633**
Stddev	.0009731	.0006275	.0003266	.3703	.0008810	.0002665
%RSD	.4674853	.3916687	.1870190	.2081577	.2457217	.1524854
#1	.2092629	.1609224	.1744373	178.3053	.3590223	.1745009
#2	.2074046	.1597469	.1744398	177.7141	.3575177	.1750337
#3	.2078325	.1599540	.1750042	177.6234	.3590642	.1747554

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2934642**	**2.862996**	**.1768183**	**65.92322**	**.4381704**	**.0613461**
Stddev	.0007062	.020976	.0007697	.06288	.0012702	.0004585
%RSD	.2406600	.7326461	.4353065	.0953910	.2898764	.7473498
#1	.2928696	2.838777	.1776860	65.99156	.4375618	.0615481
#2	.2932782	2.874902	.1765513	65.86779	.4373190	.0616688
#3	.2942448	2.875310	.1762177	65.91030	.4396303	.0608213

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**114.8206**	**.2571342**	**.1819356**	**17.26071**	**.2967191**	**.3851740**
Stddev	.5271	.0009855	.0011032	.12222	.0003819	.0006430
%RSD	.4590297	.3832519	.6063588	.7080723	.1287179	.1669387
#1	114.2345	.2581154	.1811774	17.13219	.2970688	.3847880
#2	115.2557	.2561445	.1832012	17.37546	.2963115	.3848177
#3	114.9716	.2571426	.1814282	17.27447	.2967770	.3859163

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03MSD Acquired: 6/3/2025 16:03:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6302565**	**.1639164**	F **20.54576**	**5.444748**	**13.09827**	**.1540341**
Stddev	.0021199	.0011550	.06605	.013048	.03834	.0010884
%RSD	.3363637	.7046552	.3214557	.2396443	.2926803	.7065613
#1	.6282726	.1634148	20.46960	5.432854	13.08124	.1528244
#2	.6300066	.1652375	20.58725	5.442686	13.07140	.1549339
#3	.6324904	.1630971	20.58044	5.458704	13.14217	.1543439

Elem	Sr4077
Units	ppm
Avg	**.5309707**
Stddev	.0004031
%RSD	.0759126
#1	.5309320
#2	.5313918
#3	.5305884

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2784.844**	**58578.23**	**12179.33**	**2018.337**	**3675.762**
Stddev	.910	132.14	33.79	9.773	7.843
%RSD	.0326713	.2255735	.2773984	.4842099	.2133603
#1	2784.681	58716.61	12140.76	2028.290	3677.284
#2	2785.824	58453.37	12203.66	2017.964	3682.733
#3	2784.027	58564.71	12193.58	2008.755	3667.271

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03A Acquired: 6/3/2025 16:07:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8504392**	**2.121662**	**.9812196**	**2.077655**	**.8595289**	**2.059502**
Stddev	.0038272	.010662	.0040778	.010719	.0039345	.006163
%RSD	.4500246	.5025240	.4155875	.5159044	.4577480	.2992346
#1	.8498847	2.133870	.9813284	2.065658	.8549898	2.065782
#2	.8469195	2.116936	.9770885	2.081017	.8616314	2.053463
#3	.8545134	2.114179	.9852419	2.086289	.8619653	2.059261

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2354017**	**.1856549**	**.2021629**	**187.3041**	**.4075659**	**.2031554**
Stddev	.0007836	.0008123	.0009836	.4398	.0001513	.0007849
%RSD	.3328613	.4375323	.4865384	.2348140	.0371155	.3863462
#1	.2345121	.1856132	.2017786	186.9584	.4074010	.2028670
#2	.2359894	.1864872	.2014294	187.7992	.4076983	.2025555
#3	.2357036	.1848642	.2032806	187.1549	.4075986	.2040437

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3393330**	**3.116473**	**.2118210**	**69.96316**	**.5093328**	**.0579051**
Stddev	.0015692	.022606	.0003953	.10535	.0023459	.0007405
%RSD	.4624467	.7253826	.1866341	.1505746	.4605814	1.278795
#1	.3384374	3.097046	.2113920	69.84867	.5082710	.0571702
#2	.3384166	3.111088	.2119003	70.05601	.5077056	.0586510
#3	.3411449	3.141286	.2121707	69.98479	.5120219	.0578940

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.4860**	**.3005375**	**.2477542**	**18.70463**	**.3402699**	**.4746087**
Stddev	.5606	.0043723	.0008962	.08881	.0020843	.0019626
%RSD	.4939392	1.454825	.3617388	.4748143	.6125496	.4135243
#1	113.3156	.3016529	.2484894	18.67185	.3386540	.4734463
#2	113.0304	.3042441	.2480172	18.63686	.3426225	.4735051
#3	114.1120	.2957156	.2467558	18.80517	.3395331	.4768747

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-03A Acquired: 6/3/2025 16:07:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7358610**	**.1896249**	F **20.52547**	**6.371965**	**14.03036**	**.1801951**
Stddev	.0048851	.0007012	.14650	.013991	.07144	.0008937
%RSD	.6638662	.3697869	.7137302	.2195715	.5091522	.4959396
#1	.7387954	.1893879	20.45420	6.369065	14.01483	.1800174
#2	.7302217	.1890728	20.42824	6.359652	13.96797	.1794036
#3	.7385660	.1904139	20.69396	6.387179	14.10828	.1811642

Elem	Sr4077
Units	ppm
Avg	**.5762352**
Stddev	.0008717
%RSD	.1512781
#1	.5754024
#2	.5771412
#3	.5761620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2746.896**	**61125.00**	**11902.78**	**2049.360**	**3626.357**
Stddev	5.276	220.57	28.77	4.395	7.809
%RSD	.1920697	.3608439	.2417433	.2144408	.2153496
#1	2751.368	61161.93	11891.72	2047.826	3626.110
#2	2748.242	61324.77	11881.17	2054.316	3634.288
#3	2741.077	60888.30	11935.44	2045.937	3618.675

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2175-02 Acquired: 6/3/2025 16:11:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0623263**	**-.015166**	**.0104927**	**.0306940**	**.0119957**	**.0383611**	**-.005690**
Stddev	.0021528	.001912	.0002973	.0040501	.0015192	.0067150	.001470
%RSD	3.454009	12.60432	2.833097	13.19498	12.66445	17.50468	25.83237
#1	.0641750	-.016180	.0102217	.0327413	.0106637	.0460033	-.006883
#2	.0599628	-.012961	.0108106	.0260290	.0116732	.0356751	-.004048
#3	.0628411	-.016356	.0104457	.0333117	.0136503	.0334049	-.006139

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000208**	**.0000990**	**.7913541**	**.0109611**	**.0032940**	**1.183657**	**1.910754**
Stddev	.0000439	.0000208	.0073273	.0001135	.0000866	.001689	.017074
%RSD	210.6467	21.04745	.9259226	1.035439	2.630210	.1427178	.8935848
#1	.0000666	.0000774	.7998072	.0110835	.0032122	1.184721	1.921928
#2	-.000021	.0001006	.7874409	.0108594	.0032849	1.181709	1.919234
#3	.000017	.0001190	.7868142	.0109403	.0033848	1.184541	1.891100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0934638**	**.0366814**	**.0278151**	**.0002927**	**.7426893**	**.0022031**	**.9629246**
Stddev	.0006323	.0067556	.0002582	.0001124	.0103769	.0013874	.0044774
%RSD	.6764926	18.41701	.9281712	38.40238	1.397212	62.97376	.4649796
#1	.0931803	.0292200	.0275975	.0001863	.7315739	.0011694	.9605495
#2	.0941883	.0423828	.0281004	.0004103	.7521222	.0016600	.9680891
#3	.0930230	.0384414	.0277474	.0002816	.7443716	.0037799	.9601352

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5127298**	**.0250263**	**.0006372**	**.0201722**	**.0043291**	**.1859120**	**.7264630**
Stddev	.0139822	.0001814	.0003286	.0004515	.0005976	.0078013	.0037914
%RSD	2.727015	.7246715	51.56816	2.238347	13.80377	4.196250	.5218960
#1	.4980043	.0252342	.0006132	.0206857	.0040490	.1947291	.7306865
#2	.5258260	.0249007	.0009772	.0199939	.0050153	.1799052	.7253492
#3	.5143591	.0249440	.0003213	.0198371	.0039231	.1831017	.7233533

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2175-02 Acquired: 6/3/2025 16:11:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**15.75349**	**.0044648**	**.0013332**
Stddev	.03455	.0014515	.0000968
%RSD	.2193022	32.50907	7.257319
#1	15.78801	.0037124	.0012652
#2	15.75355	.0061379	.0014440
#3	15.71891	.0035440	.0012904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2991.782**	**65979.32**	**11716.09**	**2172.133**	**4448.649**
Stddev	4.575	215.01	19.39	8.644	4.685
%RSD	.1529137	.3258689	.1655187	.3979642	.1053050
#1	2989.558	65743.65	11704.97	2171.032	4445.469
#2	2997.044	66029.54	11738.48	2164.092	4454.029
#3	2988.745	66164.77	11704.81	2181.275	4446.449

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV02 Acquired: 6/3/2025 16:16:11 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.928516**	**5.244024**	**4.832995**	**4.981041**	**4.899162**	**9.595396**	**9.143080**
Stddev	.001867	.011835	.009393	.010982	.004159	.021196	.079343
%RSD	.0378833	.2256798	.1943469	.2204785	.0848924	.2208962	.8677883
#1	4.927184	5.256846	4.827307	4.971794	4.894395	9.577534	9.167021
#2	4.930650	5.241706	4.843836	4.993180	4.902054	9.618818	9.207695
#3	4.927715	5.233519	4.827841	4.978150	4.901036	9.589838	9.054524

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2408935**	**2.423009**	**23.57597**	**.9900735**	**2.411947**	**1.225558**	**4.684219**
Stddev	.0003500	.005398	.01637	.0212975	.002862	.003116	.085456
%RSD	.1452703	.2227962	.0694247	2.151099	.1186797	.2542406	1.824340
#1	.2409000	2.425841	23.57973	.9788534	2.411948	1.225265	4.647693
#2	.2405404	2.426402	23.59013	.9767319	2.414810	1.228811	4.623096
#3	.2412402	2.416784	23.55805	1.014635	2.409085	1.222600	4.781868

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.312401**	**23.82238**	**2.415253**	**1.202133**	**22.62277**	**2.382293**	**2.387399**
Stddev	.008599	.00886	.004500	.020428	.39912	.004938	.036651
%RSD	.3718600	.0371815	.1863153	1.699313	1.764250	.2072935	1.535195
#1	2.322298	23.82524	2.416062	1.190385	22.43779	2.387689	2.367552
#2	2.306754	23.81245	2.419293	1.190292	22.34970	2.377998	2.364951
#3	2.308153	23.82946	2.410403	1.225721	23.08082	2.381192	2.429694

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.36162**	**4.772013**	**4.955548**	**4.875429**	**4.672485**	**4.801823**	**4.695177**
Stddev	.43287	.002711	.005361	.005367	.007565	.089553	.008082
%RSD	1.852926	.0568173	.1081719	.1100922	.1618949	1.864979	.1721422
#1	23.07409	4.774393	4.953371	4.880449	4.680524	4.762509	4.704499
#2	23.15131	4.772585	4.961655	4.876068	4.671423	4.738652	4.690132
#3	23.85947	4.769062	4.951619	4.869771	4.665508	4.904308	4.690900

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV02 Acquired: 6/3/2025 16:16:11 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.795871**	**4.608986**	**4.692820**
Stddev	.011518	.006168	.029851
%RSD	.2401578	.1338290	.6361021
#1	4.787515	4.616015	4.720035
#2	4.809010	4.606469	4.660893
#3	4.791088	4.604475	4.697532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.916**	**62261.69**	**11466.84**	**2153.618**	**4009.389**
Stddev	.703	960.57	28.71	30.401	4.831
%RSD	.0232646	1.542792	.2503527	1.411611	.1205035
#1	3019.162	62811.70	11443.69	2167.413	4004.462
#2	3020.552	62820.83	11457.87	2174.675	4009.587
#3	3020.033	61152.53	11498.97	2118.765	4014.119

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB02 Acquired: 6/3/2025 16:20:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0012166**	**-.001232**	**-.001096**	**.0045745**	**.0003082**	**.0030796**	**-.001911**
Stddev	.0019958	.002713	.000741	.0013200	.0009504	.0028467	.000705
%RSD	164.0519	220.1505	67.56553	28.85648	308.4161	92.43929	36.89238
#1	-.000627	-.001695	-.001037	.0031708	-.000663	.0060070	-.001445
#2	.003336	.001682	-.000387	.0057908	.001237	.0029106	-.001566
#3	.000940	-.003684	-.001864	.0047618	.000350	.0003211	-.002722

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000468**	**.0002041**	**.0084528**	**.0006504**	**.0002969**	**.0001174**	**.0088426**
Stddev	.0000461	.0000472	.0058688	.0003199	.0001312	.0002941	.0031241
%RSD	98.42091	23.15240	69.43106	49.18790	44.17352	250.4840	35.33036
#1	.0000296	.0002555	.0132230	.0008096	.0004360	.0000242	.0083888
#2	.0000118	.0001939	.0018991	.0008596	.0001754	.0004468	.0059702
#3	.0000990	.0001627	.0102363	.0002821	.0002795	-.000119	.0121688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000920**	**-.009057**	**.0007533**	**-.000073**	**.0095475**	**-.000083**	**.0018874**
Stddev	.0002115	.019654	.0002204	.000125	.0133227	.001591	.0001473
%RSD	229.8551	217.0075	29.26128	171.6581	139.5402	1914.343	7.803124
#1	.0000011	-.000763	.0009690	-.000155	-.004550	.000877	.0017178
#2	.0003339	-.031498	.0007624	.000071	.021929	.000793	.0019615
#3	-.000059	.005091	.0005284	-.000133	.011263	-.001919	.0019829

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0344831**	**.0070020**	**.0008160**	**.0024243**	**.0015042**	**.0032600**	**.0012910**
Stddev	.0091090	.0004434	.0002108	.0007912	.0010865	.0083667	.0012731
%RSD	26.41592	6.331976	25.83128	32.63712	72.23009	256.6458	98.61347
#1	.0442115	.0064931	.0009761	.0021661	.0013798	-.004263	.0027357
#2	.0330820	.0072084	.0008948	.0033123	.0026476	.012271	.0003331
#3	.0261558	.0073046	.0005772	.0017944	.0004853	.001772	.0008043

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB02 Acquired: 6/3/2025 16:20:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0043935	.0029168	.0002875
Stddev	.0013465	.0004855	.0000139
%RSD	30.64793	16.64458	4.822625
#1	.0042025	.0025372	.0002953
#2	.0058253	.0034639	.0002715
#3	.0031527	.0027494	.0002956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3073.887	63916.38	11976.22	2229.427	4222.763
Stddev	28.572	1291.08	20.10	40.651	32.369
%RSD	.9295149	2.019956	.1677948	1.823393	.7665372
#1	3092.761	65391.41	11995.60	2276.347	4252.870
#2	3041.015	62991.49	11977.56	2204.772	4188.528
#3	3087.886	63366.24	11955.48	2207.163	4226.892

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2134-01 Acquired: 6/3/2025 16:24:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0414170**	**.0003297**	**.0344491**	**-.006548**	**-.004293**	**30.02499**
Stddev	.0015274	.0038532	.0023084	.001740	.002256	.04459
%RSD	3.687899	1168.617	6.700918	26.56885	52.54961	.1485112
#1	.0427406	.0046331	.0363864	-.006933	-.002426	30.04008
#2	.0417648	-.002801	.0350660	-.004648	-.006799	30.06008
#3	.0397457	-.000843	.0318949	-.008063	-.003653	29.97482

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4781776**	**-.000290**	**.0035383**	**172.3879**	**.0495685**	**.0305969**
Stddev	.0016476	.000050	.0002272	.2857	.0003149	.0004334
%RSD	.3445520	17.28794	6.420218	.1657541	.6352276	1.416486
#1	.4798398	-.000346	.0035016	172.7149	.0499315	.0305437
#2	.4781480	-.000251	.0037815	172.2624	.0493697	.0310545
#3	.4765450	-.000272	.0033316	172.1864	.0494041	.0301926

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0538303**	**175.3561**	**44.49199**	**68.91881**	**.0469872**	**.0038771**
Stddev	.0007347	.7961	.28700	.08191	.0006572	.0002934
%RSD	1.364791	.4540029	.6450597	.1188468	1.398745	7.566517
#1	.0535180	174.6903	44.75763	68.99606	.0470093	.0036064
#2	.0533033	175.1401	44.18757	68.83293	.0463192	.0038361
#3	.0546695	176.2379	44.53078	68.92745	.0476331	.0041888

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1179.197**	**.0525918**	**.2024750**	**13.85630**	**.4378526**	**.0003281**
Stddev	9.339	.0013250	.0018181	.06135	.0030299	.0002749
%RSD	.7919521	2.519408	.8979364	.4427417	.6920011	83.79254
#1	1172.899	.0532291	.2004789	13.79613	.4347728	.0002909
#2	1174.767	.0510685	.2029097	13.91876	.4379548	.0006197
#3	1189.927	.0534777	.2040363	13.85401	.4408301	.0000737

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2134-01 Acquired: 6/3/2025 16:24:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001994	.5468448	F 48.99126	1.188933	2.695330	.0817525
Stddev	.000713	.0024721	.17159	.002916	.002772	.0002772
%RSD	35.75418	.4520734	.3502538	.2452262	.1028264	.3390178
#1	-.002636	.5481685	48.80169	1.190143	2.695550	.0814537
#2	-.001227	.5483733	49.03612	1.191050	2.692455	.0820012
#3	-.002119	.5439927	49.13596	1.185608	2.697985	.0818028

Elem	Sr4077
Units	ppm
Avg	.6072060
Stddev	.0018931
%RSD	.3117730
#1	.6079985
#2	.6085740
#3	.6050454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2684.455	57067.16	12110.99	1929.395	3267.784
Stddev	4.571	60.60	59.50	12.968	2.209
%RSD	.1702816	.1061989	.4912841	.6721413	.0675941
#1	2689.136	57053.71	12044.73	1943.116	3265.779
#2	2680.002	57133.35	12128.41	1927.727	3267.420
#3	2684.228	57014.40	12159.84	1917.341	3270.152

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01 Acquired: 6/3/2025 16:29:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0865970**	**-.030534**	**.1339486**	**-.012512**	**.0474263**	**68.17293**
Stddev	.0009183	.001978	.0010271	.007128	.0006367	.06894
%RSD	1.060448	6.478506	.7667638	56.96905	1.342465	.1011185
#1	.0858489	-.032692	.1348102	-.020173	.0477967	68.14184
#2	.0876219	-.028808	.1328120	-.006077	.0477911	68.25194
#3	.0863203	-.030101	.1342234	-.011285	.0466912	68.12502

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1808802**	**.0129549**	**.0045803**	**7.853739**	**.1423416**	**.1134864**
Stddev	.0002454	.0000293	.0004040	.046334	.0008394	.0000811
%RSD	.1356577	.2262174	8.819467	.5899587	.5896833	.0714544
#1	.1807156	.0129839	.0050329	7.804236	.1414719	.1134107
#2	.1807629	.0129557	.0042565	7.896066	.1431469	.1135720
#3	.1811623	.0129252	.0044513	7.860916	.1424062	.1134766

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1657517**	**302.1517**	**1.306363**	**10.11659**	**.1170262**	**.0059956**
Stddev	.0017365	2.6615	.006383	.06324	.0009622	.0004788
%RSD	1.047665	.8808504	.4886427	.6251096	.8222250	7.986487
#1	.1677547	299.1663	1.299602	10.11234	.1161148	.0055472
#2	.1646709	304.2761	1.307200	10.05559	.1180323	.0065000
#3	.1648294	303.0127	1.312286	10.18185	.1169316	.0059397

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.339091**	**.3367583**	**.3262308**	**7.135109**	**.7021896**	**.0007493**
Stddev	.030060	.0011960	.0002676	.049752	.0088412	.0001843
%RSD	1.285110	.3551609	.0820125	.6972901	1.259090	24.58976
#1	2.307529	.3364953	.3259845	7.082945	.6922157	.0006670
#2	2.367380	.3357157	.3265154	7.182036	.7090628	.0006206
#3	2.342363	.3380640	.3261923	7.140346	.7052903	.0009604

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01 Acquired: 6/3/2025 16:29:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063412	2.577325	F 20.46268	5.245549	1.321676	.1805554
Stddev	.0002734	.004650	.16031	.008544	.002914	.0014138
%RSD	4.310676	.1804196	.7834506	.1628777	.2205019	.7830132
#1	.0064233	2.573870	20.28205	5.253921	1.323465	.1789470
#2	.0060362	2.582612	20.58808	5.236843	1.318313	.1811176
#3	.0065641	2.575493	20.51790	5.245884	1.323250	.1816016

Elem	Sr4077
Units	ppm
Avg	-.245982
Stddev	.002544
%RSD	1.034015
#1	-.243125
#2	-.247999
#3	-.246823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3337.815	70076.83	14302.36	2429.546	3934.621
Stddev	2.831	276.61	27.19	4.810	6.826
%RSD	.0848054	.3947220	.1900969	.1979976	.1734825
#1	3335.696	70393.39	14274.19	2435.052	3931.088
#2	3341.030	69881.76	14328.44	2427.431	3942.489
#3	3336.721	69955.34	14304.45	2426.156	3930.286

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01DUP Acquired: 6/3/2025 16:33:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0959916**	**-.038584**	**.1154492**	**-.020051**	**.0125483**	**86.13207**
Stddev	.0007697	.004468	.0025331	.003256	.0014908	.09057
%RSD	.8018669	11.58044	2.194095	16.23619	11.88035	.1051497
#1	.0968334	-.043213	.1135632	-.018397	.0118331	86.20832
#2	.0953237	-.034296	.1183284	-.023802	.0115499	86.15594
#3	.0958177	-.038245	.1144561	-.017956	.0142619	86.03196

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2329707**	**.0175942**	**.0104346**	**8.783205**	**.1854844**	**.1952920**
Stddev	.0010986	.0001461	.0003324	.067297	.0002319	.0002836
%RSD	.4715535	.8304844	3.185525	.7662025	.1249958	.1452092
#1	.2341251	.0177455	.0102090	8.830426	.1853291	.1954918
#2	.2319381	.0175834	.0102785	8.706148	.1853733	.1949675
#3	.2328490	.0174539	.0108163	8.813041	.1857509	.1954168

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1927772**	**358.8043**	**2.107619**	**14.06105**	**.1642628**	**.0042248**
Stddev	.0003583	2.2575	.007413	.01254	.0004755	.0005612
%RSD	.1858407	.6291663	.3517053	.0891892	.2894588	13.28394
#1	.1923835	360.6546	2.115499	14.06554	.1645938	.0045673
#2	.1930841	359.4692	2.100785	14.07072	.1637179	.0045299
#3	.1928639	356.2890	2.106573	14.04688	.1644766	.0035771

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.918938**	**.3992264**	**.3807168**	**8.317988**	**.8128162**	**.0006442**
Stddev	.007190	.0009387	.0004976	.029017	.0059421	.0002291
%RSD	.3747119	.2351295	.1306889	.3488418	.7310523	35.56981
#1	1.920171	.3986229	.3803501	8.285180	.8173053	.0008328
#2	1.925433	.4003079	.3805171	8.328505	.8150656	.0007105
#3	1.911211	.3987485	.3812832	8.340281	.8060778	.0003892

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01DUP Acquired: 6/3/2025 16:33:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069038	3.251331	F 21.29495	7.421554	.7715161	.2212511
Stddev	.0008112	.010430	.12404	.007896	.0021458	.0015638
%RSD	11.74982	.3207880	.5825006	.1063962	.2781206	.7067776
#1	.0072436	3.263104	21.16755	7.416054	.7702729	.2223573
#2	.0059780	3.243246	21.41534	7.418006	.7739938	.2219341
#3	.0074899	3.247644	21.30195	7.430602	.7702817	.2194621

Elem	Sr4077
Units	ppm
Avg	-.297851
Stddev	.002145
%RSD	.7199970
#1	-.299532
#2	-.298586
#3	-.295436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3525.828	74356.76	14746.49	2561.072	3934.705
Stddev	3.017	6.92	91.61	6.655	4.036
%RSD	.0855620	.0093067	.6212294	.2598428	.1025830
#1	3525.670	74359.94	14650.18	2568.748	3931.471
#2	3528.921	74348.82	14832.54	2557.549	3939.228
#3	3522.894	74361.51	14756.73	2556.920	3933.414

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01LX5 Acquired: 6/3/2025 16:37:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0160467**	**-.004862**	**.0277085**	**-.003520**	**.0125933**	**12.18121**	**.0292594**
Stddev	.0012814	.001800	.0019755	.000725	.0020921	.12810	.0003946
%RSD	7.985332	37.02259	7.129719	20.61267	16.61275	1.051606	1.348469
#1	.0170824	-.004439	.0283781	-.003918	.0103691	12.10009	.0296339
#2	.0164440	-.003311	.0254852	-.003958	.0145218	12.11465	.0288475
#3	.0146137	-.006835	.0292622	-.002682	.0128891	12.32889	.0292969

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023404**	**.0001224**	**1.528502**	**.0251913**	**.0130992**	**.0322627**	**50.66579**
Stddev	.0000088	.0001330	.004331	.0002744	.0002132	.0004818	.50599
%RSD	.3760498	108.6577	.2833682	1.089169	1.627463	1.493471	.9986723
#1	.0023457	.0002502	1.528277	.0254136	.0130755	.0328191	50.20152
#2	.0023453	.0001323	1.524288	.0248847	.0128988	.0319795	50.59073
#3	.0023302	-.000015	1.532942	.0252757	.0133232	.0319896	51.20510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1794584**	**1.656984**	**.0179016**	**.0000328**	**.4508419**	**.0623000**	**.0621147**
Stddev	.0028963	.032836	.0003135	.0006700	.0052602	.0030346	.0005860
%RSD	1.613892	1.981660	1.751001	2044.045	1.166750	4.871029	.9433834
#1	.1790199	1.681524	.0182632	-.000320	.4454352	.0590973	.0614496
#2	.1768064	1.619683	.0177057	-.000387	.4559422	.0626699	.0623395
#3	.1825489	1.669745	.0177361	.000805	.4511485	.0651327	.0625550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.235497**	**.1155130**	**.0000969**	**.0003104**	**.4548373**	**3.941004**	**.7700960**
Stddev	.013731	.0020127	.0002667	.0003289	.0045913	.029356	.0017819
%RSD	1.111387	1.742395	275.3509	105.9597	1.009443	.7448943	.2313863
#1	1.225256	.1133802	.0003466	.0006721	.4509185	3.918136	.7680927
#2	1.230136	.1157798	.0001282	.0000292	.4537043	3.930768	.7715042
#3	1.251101	.1173790	-.000184	.0002299	.4598890	3.974108	.7706911

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01LX5 Acquired: 6/3/2025 16:37:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2997898	.0327485	-.039912
Stddev	.0002447	.0013358	.000380
%RSD	.0816125	4.078854	.9525873
#1	.2995226	.0317467	-.039527
#2	.2998439	.0322336	-.039923
#3	.3000029	.0342650	-.040287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3099.178	64532.66	12215.66	2235.819	4135.867
Stddev	3.983	226.89	106.97	11.083	9.327
%RSD	.1285071	.3515900	.8757111	.4956844	.2255127
#1	3094.874	64527.60	12161.39	2248.589	4137.504
#2	3102.734	64762.04	12338.89	2230.158	4144.268
#3	3099.925	64308.34	12146.70	2228.710	4125.831

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01MS Acquired: 6/3/2025 16:41:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7312941	1.946602	1.030704	1.482491	.2885508	100.9466
Stddev	.0020728	.020755	.005359	.005521	.0009842	.1187
%RSD	.2834419	1.066211	.5199616	.3723796	.3410937	.1175848
#1	.7290810	1.963039	1.036161	1.488245	.2894874	100.8340
#2	.7331901	1.923279	1.025448	1.477238	.2875251	101.0706
#3	.7316113	1.953487	1.030505	1.481991	.2886400	100.9351

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3643142	.1632429	.2009225	9.555648	.5916734	.3122434
Stddev	.0007585	.0004956	.0010761	.014583	.0072037	.0006161
%RSD	.2082103	.3035836	.5355653	.1526106	1.217519	.1973253
#1	.3650497	.1626732	.2019625	9.571136	.5876954	.3126379
#2	.3643584	.1635744	.2009913	9.542181	.5873358	.3125588
#3	.3635346	.1634811	.1998137	9.553627	.5999890	.3115334

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4362583	374.7247	1.295807	13.60794	.6647016	.0678816
Stddev	.0006500	3.6670	.002692	.04340	.0017461	.0002173
%RSD	.1489852	.9785816	.2077300	.3189074	.2626931	.3200698
#1	.4367593	372.9643	1.294697	13.56349	.6651402	.0677459
#2	.4364918	372.2699	1.298877	13.65020	.6627780	.0677668
#3	.4355239	378.9400	1.293848	13.61014	.6661867	.0681322

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.553411	.6365412	.5531232	16.82121	1.054345	.2944546
Stddev	.053424	.0017763	.0063614	.18072	.011063	.0004363
%RSD	1.173271	.2790576	1.150090	1.074387	1.049274	.1481793
#1	4.520887	.6349517	.5480119	16.73353	1.049573	.2939626
#2	4.524278	.6384586	.5511103	16.70106	1.046469	.2946067
#3	4.615069	.6362131	.5602476	17.02905	1.066993	.2947945

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01MS Acquired: 6/3/2025 16:41:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6754914**	**3.465833**	F **22.80967**	**13.19731**	**.8740628**	**.3856754**
Stddev	.0009341	.006361	.25165	.03827	.0024919	.0006357
%RSD	.1382817	.1835413	1.103243	.2899998	.2850921	.1648276
#1	.6765365	3.469508	22.63939	13.19694	.8748435	.3849585
#2	.6752001	3.469503	22.69090	13.15922	.8760708	.3861704
#3	.6747378	3.458488	23.09872	13.23576	.8712740	.3858973

Elem	Sr4077
Units	ppm
Avg	**-.156461**
Stddev	.003875
%RSD	2.476528
#1	-.154443
#2	-.154012
#3	-.160928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3495.072**	**73261.02**	**15018.12**	**2541.790**	**3840.187**
Stddev	6.968	679.78	41.37	18.342	4.347
%RSD	.1993785	.9278887	.2754948	.7216169	.1131930
#1	3497.819	73682.24	15010.81	2548.921	3838.453
#2	3487.148	73624.01	14980.90	2555.495	3836.974
#3	3500.247	72476.79	15062.67	2520.953	3845.133

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01MSD Acquired: 6/3/2025 16:45:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6974027**	**1.916769**	**.9957495**	**1.399486**	**.2726808**	**103.5352**
Stddev	.0025044	.007383	.0092895	.004221	.0039001	.1060
%RSD	.3591014	.3851925	.9329128	.3016447	1.430296	.1023619
#1	.7001475	1.917789	1.003954	1.404346	.2760540	103.6143
#2	.6968189	1.908929	.985663	1.396727	.2684102	103.5765
#3	.6952419	1.923589	.997632	1.397386	.2735783	103.4148

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3622904**	**.1642772**	**.1965763**	**9.998588**	**.5828435**	**.3050210**
Stddev	.0010997	.0003111	.0017537	.017858	.0015478	.0022674
%RSD	.3035484	.1893976	.8921277	.1786085	.2655570	.7433720
#1	.3612246	.1639451	.1985206	9.981553	.5827092	.3076255
#2	.3634212	.1645620	.1951141	10.01717	.5813673	.3034863
#3	.3622255	.1643244	.1960942	9.99704	.5844541	.3039514

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4238529**	**358.1573**	**1.289738**	**13.65565**	**.6454025**	**.0633945**
Stddev	.0036863	1.6333	.003412	.07389	.0051477	.0005216
%RSD	.8697083	.4560334	.2645412	.5411013	.7975908	.8227220
#1	.4281046	356.6832	1.285883	13.60085	.6508664	.0628171
#2	.4215527	357.8755	1.292369	13.62643	.6406438	.0635348
#3	.4219013	359.9132	1.290963	13.73969	.6446973	.0638315

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.400125**	**.6320382**	**.5439566**	**16.33978**	**1.002093**	**.2875442**
Stddev	.020174	.0024812	.0005259	.08416	.004741	.0018325
%RSD	.4584847	.3925793	.0966753	.5150760	.4731106	.6372985
#1	4.381475	.6322013	.5444634	16.35159	.998348	.2892573
#2	4.397361	.6294795	.5439929	16.25034	1.000508	.2856120
#3	4.421538	.6344339	.5434136	16.41742	1.007423	.2877635

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01MSD Acquired: 6/3/2025 16:45:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6519353**	**3.506593**	F **24.32690**	**12.48867**	**.8705469**	**.3799957**
Stddev	.0058516	.009094	.09630	.09079	.0105142	.0010356
%RSD	.8975802	.2593292	.3958531	.7269661	1.207769	.2725315
#1	.6575748	3.500360	24.29955	12.57383	.8821937	.3805418
#2	.6458924	3.517028	24.24723	12.39314	.8676920	.3788013
#3	.6523388	3.502392	24.43391	12.49903	.8617550	.3806440

Elem	Sr4077
Units	ppm
Avg	**-.140993**
Stddev	.001541
%RSD	1.093193
#1	-.139868
#2	-.140363
#3	-.142750

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3631.355**	**74948.88**	**14786.33**	**2576.257**	**4014.677**
Stddev	16.084	383.82	48.94	9.582	24.406
%RSD	.4429245	.5121079	.3309619	.3719502	.6079270
#1	3612.826	75172.42	14834.07	2584.655	3988.291
#2	3641.726	75168.53	14788.65	2578.297	4036.442
#3	3639.512	74505.69	14736.28	2565.819	4019.299

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01A Acquired: 6/3/2025 16:49:49 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7487547**	**1.916365**	**1.029111**	**1.631229**	**.7393879**	**59.79169**
Stddev	.0032567	.014370	.007464	.008531	.0031691	.10592
%RSD	.4349512	.7498405	.7252560	.5230076	.4286039	.1771444
#1	.7459541	1.932432	1.024789	1.631836	.7378526	59.73306
#2	.7523284	1.911922	1.037729	1.639441	.7430322	59.91396
#3	.7479815	1.904743	1.024814	1.622411	.7372789	59.72804

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3113006**	**.1666526**	**.1861951**	**8.295630**	**.4643337**	**.2530438**
Stddev	.0011192	.0010218	.0016747	.039942	.0004776	.0021180
%RSD	.3595340	.6131465	.8994189	.4814861	.1028494	.8370182
#1	.3104354	.1668279	.1859273	8.250143	.4642133	.2523335
#2	.3125646	.1675754	.1879875	8.324975	.4639280	.2554257
#3	.3109019	.1655545	.1846705	8.311772	.4648600	.2513722

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3953000**	**249.2878**	**1.020785**	**9.558451**	**.5525254**	**.0663580**
Stddev	.0032266	2.0798	.004000	.022567	.0036020	.0009508
%RSD	.8162404	.8343001	.3918842	.2360942	.6519228	1.432808
#1	.3935953	248.5431	1.016228	9.565912	.5518318	.0666861
#2	.3990214	247.6829	1.023719	9.533098	.5564238	.0652866
#3	.3932834	251.6374	1.022408	9.576342	.5493206	.0671012

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.654381**	**.5518471**	**.4474722**	**14.49342**	**.7880287**	**.3593919**
Stddev	.049066	.0043926	.0002595	.11437	.0058958	.0018632
%RSD	1.054193	.7959743	.0579859	.7891409	.7481655	.5184341
#1	4.642723	.5476725	.4476421	14.43852	.7844242	.3590613
#2	4.612194	.5514396	.4471735	14.41684	.7848293	.3613982
#3	4.708226	.5564292	.4476009	14.62489	.7948325	.3577161

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2101-01A Acquired: 6/3/2025 16:49:49 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6513749	2.351521	F 20.70320	8.933469	1.449228	.3120955
Stddev	.0022302	.007646	.16834	.047982	.006325	.0014536
%RSD	.3423824	.3251600	.8131154	.5371063	.4364384	.4657687
#1	.6512007	2.344588	20.63358	8.934033	1.449566	.3107543
#2	.6536871	2.359722	20.58084	8.981167	1.455377	.3118920
#3	.6492369	2.350253	20.89519	8.885207	1.442741	.3136401

Elem	Sr4077
Units	ppm
Avg	-.032980
Stddev	.002265
%RSD	6.867272
#1	-.032842
#2	-.030787
#3	-.035310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3344.854	70263.39	13594.83	2390.427	4112.708
Stddev	21.331	343.54	50.60	15.184	33.046
%RSD	.6377155	.4889342	.3722107	.6352113	.8035094
#1	3354.732	70300.37	13603.65	2404.048	4124.675
#2	3320.375	70586.95	13540.40	2393.179	4075.346
#3	3359.455	69902.86	13640.44	2374.055	4138.104

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: PB168236BL Acquired: 6/3/2025 16:53:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030707**	**-.001815**	**-.000343**	**.0043285**	**-.000762**	**.0132285**	**-.002574**
Stddev	.0012083	.000776	.001351	.0011453	.001686	.0107488	.000115
%RSD	39.34903	42.72121	394.3238	26.45940	221.3103	81.25497	4.469229
#1	.0038935	-.001666	.000770	.0044021	-.001898	.0111911	-.002451
#2	.0016835	-.002655	.000048	.0054353	-.001564	.0248502	-.002592
#3	.0036351	-.001126	-.001846	.0031482	.001176	.0036442	-.002679

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000353**	**.0001232**	**.0185808**	**.0005184**	**.0000833**	**.0000002**	**.0209245**
Stddev	.0000501	.0000530	.0058409	.0001708	.0002301	.0001106	.0007054
%RSD	142.1446	43.02240	31.43520	32.93889	276.1910	70913.72	3.371259
#1	.0000583	.0001843	.0190531	.0005876	-.000106	-.000031	.0201990
#2	-.000022	.0000918	.0241713	.0006437	.000016	.000123	.0216080
#3	.000070	.0000933	.0125181	.0003239	.000339	-.000091	.0209666

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000065**	**-.015951**	**.0006910**	**-.000141**	**-.039834**	**-.000412**	**.0025334**
Stddev	.000305	.006506	.0002992	.000172	.015828	.000287	.0001519
%RSD	470.6330	40.78913	43.30655	121.8958	39.73387	69.55821	5.995748
#1	.000223	-.019996	.0009470	-.000033	-.029712	-.000448	.0024310
#2	-.000385	-.019411	.0007638	-.000051	-.031717	-.000680	.0027079
#3	-.000033	-.008446	.0003620	-.000339	-.058074	-.000110	.0024612

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0342206**	**.0010398**	**.0002646**	**.0007304**	**.0011817**	**-.002774**	**-.002246**
Stddev	.0312504	.0001953	.0002006	.0005954	.0006082	.004954	.002843
%RSD	91.32018	18.77892	75.81404	81.51143	51.47068	178.5969	126.5895
#1	.0029368	.0012580	.0002506	.0002490	.0004794	.000087	-.000167
#2	.0654374	.0008816	.0000714	.0005461	.0015404	-.008494	-.001086
#3	.0342878	.0009797	.0004719	.0013961	.0015254	.000086	-.005486

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: PB168236BL Acquired: 6/3/2025 16:53:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0028907	.0004781	.0000540
Stddev	.0021572	.0005372	.0000102
%RSD	74.62757	112.3768	18.84687
#1	.0053288	.0002204	.0000423
#2	.0021138	.0001182	.0000607
#3	.0012295	.0010956	.0000591

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3022.497	66016.33	12456.07	2250.969	4130.807
Stddev	3.282	88.62	22.32	6.768	7.591
%RSD	.1085742	.1342388	.1791936	.3006717	.1837689
#1	3026.260	66055.27	12430.37	2243.633	4133.961
#2	3021.005	65914.90	12470.57	2252.305	4136.313
#3	3020.228	66078.81	12467.28	2256.969	4122.147

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: PB168236BS Acquired: 6/3/2025 16:58:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7931264**	**2.139087**	**.9634972**	**2.016771**	**.8167165**	**1.954722**	**.1814939**
Stddev	.0067742	.014693	.0029999	.007677	.0025034	.008196	.0004984
%RSD	.8541089	.6869013	.3113529	.3806754	.3065212	.4192836	.2745835
#1	.7877298	2.151056	.9606454	2.007954	.8141902	1.945884	.1814080
#2	.7909210	2.122689	.9632201	2.021978	.8167631	1.962072	.1820296
#3	.8007284	2.143518	.9666259	2.020380	.8191963	1.956210	.1810440

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2001891**	**.1958781**	**.9998378**	**.4170206**	**.1964628**	**.3113601**	**2.985036**
Stddev	.0001096	.0005044	.0066705	.0017686	.0005094	.0006366	.005691
%RSD	.0547404	.2575074	.6671607	.4240929	.2592936	.2044501	.1906642
#1	.2001609	.1956652	.9971162	.4151065	.1959165	.3109245	2.988003
#2	.2003101	.1955149	1.007439	.4173612	.1965471	.3110652	2.978474
#3	.2000964	.1964540	.994958	.4185941	.1969248	.3120906	2.988631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1930506**	**1.946374**	**.4955357**	**.0735422**	**2.679029**	**.2927093**	**.2087612**
Stddev	.0006245	.010271	.0014683	.0007296	.010796	.0017002	.0006193
%RSD	.3234892	.5277179	.2963053	.9920884	.4029730	.5808429	.2966631
#1	.1923623	1.940187	.4948019	.0743224	2.688460	.2929898	.2084864
#2	.1935810	1.940704	.4945789	.0728768	2.667254	.2942519	.2083268
#3	.1932086	1.958230	.4972262	.0734274	2.681373	.2908864	.2094703

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.480234**	**.2938503**	**.4204947**	**.6966345**	**.1924096**	**.8475260**	**5.544707**
Stddev	.036913	.0003798	.0004907	.0016190	.0005300	.0084246	.014818
%RSD	.3893693	.1292444	.1166901	.2324047	.2754535	.9940267	.2672405
#1	9.442832	.2938829	.4201425	.6960827	.1918761	.8394022	5.535924
#2	9.481233	.2934553	.4202865	.6953635	.1929360	.8562223	5.536383
#3	9.516638	.2942128	.4210552	.6984573	.1924166	.8469535	5.561815

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: PB168236BS Acquired: 6/3/2025 16:58:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.003673	.1922995	.1871293
Stddev	.002568	.0011930	.0005936
%RSD	69.92070	.6203809	.3172204
#1	-.003852	.1920681	.1865204
#2	-.001020	.1912392	.1871612
#3	-.006146	.1935912	.1877063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3134.045	62397.68	11756.81	2174.627	4365.282
Stddev	4.887	188.75	33.89	12.923	6.928
%RSD	.1559246	.3025031	.2882393	.5942566	.1587103
#1	3139.601	62400.76	11744.75	2182.013	4372.791
#2	3130.412	62584.88	11795.08	2182.162	4363.918
#3	3132.123	62207.41	11730.61	2159.705	4359.137

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-02DLX5 Acquired: 6/3/2025 17:02:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001014	-.004768	-.001408	.0055935	-.000701	.3414963	.0592719
Stddev	.001224	.001830	.000968	.0021488	.001874	.0022573	.0008307
%RSD	120.6663	38.38739	68.71125	38.41576	267.3143	.6610015	1.401460
#1	-.002331	-.006877	-.001301	.0040741	-.001731	.3440459	.0586356
#2	-.000802	-.003823	-.002425	.0046544	-.001834	.3397524	.0589685
#3	.000090	-.003603	-.000499	.0080520	.001462	.3406906	.0602116

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000028	.0002675	55.43128	.0002349	.0011683	.0050609	3.122827
Stddev	.0000466	.0000757	.04113	.0001111	.0002402	.0003706	.017322
%RSD	1676.392	28.28097	.0742030	47.28547	20.55827	7.322435	.5547055
#1	-.000037	.0003183	55.39583	.0002543	.0010291	.0054584	3.108348
#2	.000054	.0001806	55.42164	.0003350	.0010302	.0047250	3.142018
#3	-.000009	.0003037	55.47638	.0001154	.0014456	.0049993	3.118115

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3693117	7.679846	.0025550	-.000027	942.1996	.0010957	.0472776
Stddev	.0014259	.036605	.0001264	.000230	2.4477	.0008947	.0003945
%RSD	.3860898	.4766403	4.948076	856.4496	.2597830	81.65868	.8344319
#1	.3676816	7.640848	.0026739	-.000201	939.9144	.0017149	.0469581
#2	.3703272	7.713463	.0024222	.000234	944.7825	.0015023	.0471562
#3	.3699264	7.685226	.0025689	-.000113	941.9019	.0000699	.0477185

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.305765	.0188008	.0010891	-.004021	.0124060	2.163848	.0452378
Stddev	.041101	.0008163	.0002704	.000551	.0005051	.004605	.0022720
%RSD	.5625835	4.342042	24.82287	13.70786	4.071325	.2128163	5.022336
#1	7.325960	.0195428	.0007794	-.003811	.0120130	2.167383	.0432471
#2	7.258473	.0189334	.0012779	-.003606	.0129757	2.158641	.0477129
#3	7.332861	.0179263	.0012101	-.004647	.0122292	2.165521	.0447533

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2133-02DLX5 Acquired: 6/3/2025 17:02:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.621852	-.010232	.2485211
Stddev	.029215	.000738	.0002205
%RSD	.5196759	7.212297	.0887172
#1	5.645914	-.010518	.2483129
#2	5.630300	-.010785	.2484984
#3	5.589344	-.009394	.2487521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.857	57565.79	11436.86	1957.498	3485.423
Stddev	8.961	87.78	24.91	3.320	5.612
%RSD	.3266873	.1524920	.2177760	.1696283	.1610066
#1	2739.254	57569.93	11465.38	1958.920	3480.740
#2	2753.058	57651.43	11419.35	1959.872	3491.643
#3	2736.259	57476.01	11425.86	1953.704	3483.886

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV03 Acquired: 6/3/2025 17:06:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.941631**	**5.237165**	**4.797574**	**4.998848**	**4.930749**	**9.595472**	**9.148879**
Stddev	.024278	.050712	.011704	.025347	.028781	.041431	.062205
%RSD	.4912960	.9683186	.2439514	.5070636	.5837012	.4317715	.6799213
#1	4.916873	5.277900	4.789803	4.971896	4.901808	9.560665	9.087549
#2	4.942621	5.253227	4.791884	5.002440	4.931074	9.584452	9.147163
#3	4.965399	5.180366	4.811035	5.022207	4.959366	9.641298	9.211924

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2356112**	**2.393951**	**23.54162**	**.9914496**	**2.384157**	**1.223510**	**4.825664**
Stddev	.0011170	.004455	.12162	.0029058	.006115	.006769	.025706
%RSD	.4740862	.1860941	.5166042	.2930898	.2564732	.5532727	.5327006
#1	.2343299	2.392368	23.40967	.9885295	2.380628	1.216775	4.812006
#2	.2363800	2.390504	23.56599	.9914785	2.380625	1.223441	4.809670
#3	.2361238	2.398981	23.64921	.9943410	2.391218	1.230314	4.855317

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.299940**	**23.63977**	**2.395003**	**1.212382**	**23.37473**	**2.387165**	**2.423621**
Stddev	.014322	.08296	.005996	.004017	.08556	.017645	.009873
%RSD	.6227004	.3509277	.2503560	.3313251	.3660173	.7391754	.4073490
#1	2.283554	23.54511	2.391562	1.211501	23.32741	2.367655	2.421389
#2	2.306202	23.67440	2.391520	1.208879	23.32329	2.391835	2.415055
#3	2.310065	23.69980	2.401927	1.216767	23.47350	2.402006	2.434418

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.12948**	**4.663030**	**4.974434**	**4.829352**	**4.674656**	**4.965764**	**4.657395**
Stddev	.14641	.016298	.021046	.006703	.023679	.022472	.007095
%RSD	.6067846	.3495181	.4230925	.1388037	.5065379	.4525330	.1523412
#1	24.08893	4.644643	4.955933	4.824285	4.648243	4.954043	4.650982
#2	24.00761	4.675698	4.970037	4.826817	4.681742	4.951577	4.656186
#3	24.29189	4.668749	4.997331	4.836953	4.693983	4.991674	4.665017

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV03 Acquired: 6/3/2025 17:06:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.729703**	**4.610849**	**4.694991**
Stddev	.019703	.016364	.054982
%RSD	.4165713	.3548953	1.171075
#1	4.712759	4.592334	4.639532
#2	4.725027	4.616840	4.749483
#3	4.751323	4.623372	4.695957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3021.807**	**61261.98**	**11679.47**	**2102.518**	**4047.558**
Stddev	12.162	275.41	56.71	9.713	8.504
%RSD	.4024616	.4495533	.4855591	.4619779	.2100962
#1	3033.158	61361.17	11736.56	2103.950	4052.326
#2	3023.291	61474.06	11678.71	2111.435	4052.609
#3	3008.971	60950.72	11623.15	2092.168	4037.741

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB03 Acquired: 6/3/2025 17:10:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	-.000203	-.000186	.0005270	.0033856	-.001526	.0080661	-.004016
Stddev	.002851	.000478	.0005753	.0016005	.001618	.0048450	.000516
%RSD	1402.547	257.0085	109.1707	47.27288	106.0281	60.06636	12.83763
#1	-.003469	-.000504	.0010554	.0051987	-.003203	.0129355	-.004611
#2	.001788	-.000418	-.000086	.0021694	.000025	.0032459	-.003731
#3	.001071	.000364	.000611	.0027887	-.001399	.0080170	-.003706

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000003	.0001155	.0055145	.0004070	.0000202	.0002046	.0128405
Stddev	.000029	.0000959	.0031347	.0000759	.0002212	.0001713	.0041027
%RSD	845.7383	83.06939	56.84589	18.64038	1093.986	83.73898	31.95144
#1	-.000029	.0000116	.0027350	.0004260	-.000107	.0003994	.0142541
#2	-.000009	.0001341	.0048961	.0004716	-.000108	.0001365	.0160496
#3	.000028	.0002007	.0089123	.0003234	.000276	.0000778	.0082179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001116	-.008671	.0006842	.0001023	-.006948	.0005340	.0046244
Stddev	.0003099	.005198	.0002201	.0000773	.005050	.0009676	.0001123
%RSD	277.5893	59.94404	32.16266	75.56974	72.68023	181.2016	2.429043
#1	-.000230	-.014470	.0004353	.0000961	-.010799	-.000583	.0045923
#2	.000190	-.004431	.0008531	.0000283	-.008813	.001118	.0045317
#3	.000375	-.007112	.0007641	.0001826	-.001231	.001067	.0047494

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215854	.0073920	.0006988	.0032042	.0012289	.0074789	.0004021
Stddev	.0083271	.0004280	.0001105	.0004801	.0002675	.0099521	.0007925
%RSD	38.57742	5.789765	15.80689	14.98313	21.76514	133.0691	197.1158
#1	.0311728	.0076686	.0008007	.0037465	.0009707	-.004012	.0008957
#2	.0174251	.0068991	.0005814	.0030329	.0015048	.013345	-.000512
#3	.0161583	.0076085	.0007142	.0028333	.0012112	.013104	.000823

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB03 Acquired: 6/3/2025 17:10:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001843	.0020364	.0001718
Stddev	.002183	.0001110	.0000535
%RSD	118.4475	5.451390	31.14060
#1	-.001043	.0020286	.0001161
#2	-.000173	.0021511	.0002227
#3	-.004313	.0019295	.0001767

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3082.709	65142.25	12401.66	2221.217	4287.134
Stddev	9.117	160.12	29.50	5.404	16.453
%RSD	.2957437	.2457965	.2378314	.2432821	.3837841
#1	3085.858	65117.08	12435.69	2218.662	4292.533
#2	3089.833	65313.47	12385.83	2217.564	4300.210
#3	3072.435	64996.21	12383.46	2227.424	4268.660

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01 Acquired: 6/3/2025 17:15:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1790519	-.068897	.2685936	-.031935	-.013969	189.9879	.4663088
Stddev	.0023103	.001826	.0025906	.001053	.005599	.1137	.0020482
%RSD	1.290273	2.650840	.9645021	3.296021	40.07745	.0598541	.4392356
#1	.1809435	-.070342	.2715523	-.033139	-.007929	190.1082	.4685635
#2	.1764771	-.069505	.2667324	-.031479	-.014994	189.8822	.4645630
#3	.1797351	-.066844	.2674960	-.031188	-.018985	189.9733	.4658001

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164615	.0296684	5.535127	.2283103	.3226150	.1610189	590.3205
Stddev	.0001080	.0011868	.064355	.0009762	.0005366	.0021322	6.9935
%RSD	.6559003	4.000264	1.162660	.4275752	.1663324	1.324203	1.184695
#1	.0165281	.0283074	5.584583	.2276178	.3220732	.1585724	597.8436
#2	.0163369	.0304880	5.462367	.2278862	.3231463	.1620025	584.0171
#3	.0165195	.0302097	5.558432	.2294268	.3226255	.1624817	589.1009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.738817	8.601650	.2336248	.0070828	.9904819	.4323778	.3703310
Stddev	.008630	.014873	.0011346	.0019482	.0074246	.0016465	.0003145
%RSD	.2308238	.1729138	.4856480	27.50672	.7495958	.3808025	.0849111
#1	3.748769	8.611606	.2327550	.0091784	.9911621	.4304963	.3699703
#2	3.734284	8.608790	.2332112	.0053265	.9827406	.4335547	.3705474
#3	3.733398	8.584552	.2349081	.0067433	.9975430	.4330825	.3704753

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.393586	1.310705	.0025857	.0224227	1.990031	2.963541	9.773681
Stddev	.032280	.019723	.0001097	.0006428	.002744	.022426	.001188
%RSD	.7347137	1.504776	4.243108	2.866923	.1378722	.7567440	.0121578
#1	4.430350	1.330350	.0026984	.0231251	1.992291	2.937891	9.773730
#2	4.369883	1.290904	.0024792	.0222794	1.986978	2.979445	9.772469
#3	4.380525	1.310860	.0025796	.0218636	1.990823	2.973289	9.774844

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01 Acquired: 6/3/2025 17:15:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.999693**	**.2932284**	**-.547986**
Stddev	.001880	.0030966	.006687
%RSD	.0940287	1.056037	1.220320
#1	1.999534	.2963761	-.555174
#2	2.001648	.2901856	-.541949
#3	1.997898	.2931236	-.546835

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.031**	**78023.42**	**16244.99**	**2700.825**	**3770.845**
Stddev	6.006	93.94	17.21	3.729	2.764
%RSD	.1633012	.1204022	.1059200	.1380687	.0732868
#1	3673.479	78112.71	16244.02	2705.112	3769.380
#2	3684.838	77925.43	16228.29	2699.023	3774.032
#3	3675.774	78032.12	16262.67	2698.339	3769.122

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01DUP Acquired: 6/3/2025 17:19:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1238657**	**-.042333**	**3.305309**	**-.026541**	**-.000374**	**130.0586**	**.6714577**
Stddev	.0014906	.002643	.003759	.004461	.003936	.2156	.0011837
%RSD	1.203418	6.244309	.1137386	16.80676	1051.088	.1657551	.1762949
#1	.1249357	-.039780	3.309284	-.026323	.003479	130.3072	.6722007
#2	.1221631	-.042162	3.301811	-.022193	-.004388	129.9461	.6700926
#3	.1244984	-.045058	3.304833	-.031106	-.000215	129.9226	.6720797

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117352**	**.0288246**	**55.69975**	**.3513570**	**.1881085**	**.9467331**	**350.7135**
Stddev	.0001107	.0001057	.13907	.0007565	.0003169	.0016193	.4660
%RSD	.9431290	.3666009	.2496720	.2152988	.1684742	.1710403	.1328743
#1	.0117713	.0288868	55.72069	.3510588	.1877691	.9485789	351.1215
#2	.0116110	.0287026	55.55140	.3507950	.1883967	.9455515	350.8133
#3	.0118233	.0288845	55.82716	.3522171	.1881597	.9460689	350.2056

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.280253**	**43.90126**	**.3312403**	**-.001136**	**3.833754**	**.4109194**	**2.213616**
Stddev	.010487	.16535	.0003004	.000146	.009427	.0025381	.006487
%RSD	.3196969	.3766308	.0907009	12.85356	.2458858	.6176505	.2930595
#1	3.287534	43.90981	.3314824	-.001234	3.837024	.4113899	2.206820
#2	3.268234	43.73181	.3309041	-.000968	3.823128	.4081791	2.214285
#3	3.284993	44.06217	.3313345	-.001206	3.841111	.4131893	2.219743

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.457118**	**.7731136**	**.0113956**	**.1633816**	**3.072969**	**2.195591**	**8.417620**
Stddev	.021674	.0010056	.0002341	.0004921	.005015	.017139	.007342
%RSD	.3971653	.1300758	2.054292	.3011706	.1631824	.7806265	.0872204
#1	5.480565	.7742273	.0116502	.1638143	3.077249	2.201555	8.414385
#2	5.437816	.7728416	.0111896	.1628463	3.067452	2.176267	8.412451
#3	5.452972	.7722720	.0113471	.1634841	3.074208	2.208952	8.426024

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01DUP Acquired: 6/3/2025 17:19:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.021802**	**.2396758**	**-.209239**
Stddev	.006845	.0005060	.000882
%RSD	.2265289	.2111358	.4214680
#1	3.027773	.2392404	-.209889
#2	3.014331	.2402310	-.209593
#3	3.023303	.2395560	-.208236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3385.163**	**72313.13**	**13571.47**	**2468.545**	**3762.507**
Stddev	3.511	187.41	46.39	2.929	1.189
%RSD	.1037118	.2591585	.3418296	.1186699	.0316108
#1	3381.158	72255.08	13519.28	2470.273	3761.899
#2	3386.622	72161.62	13608.00	2470.200	3763.878
#3	3387.710	72522.69	13587.14	2465.163	3761.745

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01LX5 Acquired: 6/3/2025 17:33:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0394738	-.012757	.0485692	.0225669	-.005525	44.71092	.1041985
Stddev	.0012715	.002135	.0012344	.0015796	.001764	.05617	.0002698
%RSD	3.221165	16.73953	2.541527	6.999656	31.93464	.1256303	.2588859
#1	.0403786	-.012986	.0473524	.0230630	-.005055	44.70695	.1042716
#2	.0400229	-.010516	.0485348	.0207989	-.007476	44.65684	.1044241
#3	.0380201	-.014768	.0498205	.0238390	-.004043	44.76897	.1038997

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040839	.0006653	1.363357	.0545899	.0610945	.0389212	137.7054
Stddev	.0000227	.0003354	.013755	.0003720	.0005673	.0014446	1.4540
%RSD	.5554300	50.40881	1.008882	.6813492	.9286123	3.711575	1.055844
#1	.0040791	.0002781	1.360518	.0549795	.0604890	.0374485	139.3585
#2	.0041086	.0008643	1.378310	.0545516	.0616138	.0389793	137.1325
#3	.0040640	.0008535	1.351244	.0542386	.0611807	.0403359	136.6251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8968861	2.063451	.0459776	.0010928	.1617397	.1035309	.0894715
Stddev	.0037229	.011528	.0008805	.0003906	.0032633	.0004910	.0003193
%RSD	.4150894	.5586719	1.914973	35.74283	2.017631	.4742955	.3568971
#1	.9005629	2.065187	.0450460	.0015429	.1630536	.1039545	.0891429
#2	.8931188	2.051153	.0467959	.0008432	.1580243	.1036456	.0897807
#3	.8969765	2.074012	.0460908	.0008923	.1641413	.1029927	.0894909

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9393306	.2991658	.0001689	.0038828	.4773377	.8957033	1.824591
Stddev	.0457875	.0044531	.0002053	.0001907	.0028823	.0140646	.015185
%RSD	4.874477	1.488498	121.5394	4.909997	.6038244	1.570225	.8322467
#1	.9913574	.3042365	.0002712	.0036670	.4799554	.9099692	1.807249
#2	.9051687	.2973693	-.000067	.0039534	.4742489	.8952916	1.835503
#3	.9214658	.2958917	.000303	.0040281	.4778088	.8818492	1.831021

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01LX5 Acquired: 6/3/2025 17:33:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3582437	.0684278	-.127861
Stddev	.0031593	.0013461	.001449
%RSD	.8818809	1.967224	1.133549
#1	.3588498	.0695136	-.129493
#2	.3610559	.0669217	-.127369
#3	.3548252	.0688481	-.126722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3192.276	66175.42	12857.62	2279.571	4108.272
Stddev	25.931	489.56	31.60	21.843	33.542
%RSD	.8123070	.7397901	.2457845	.9582210	.8164605
#1	3221.150	65617.20	12862.19	2255.663	4144.021
#2	3170.972	66377.28	12886.69	2284.564	4077.490
#3	3184.707	66531.77	12823.98	2298.485	4103.306

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01MS Acquired: 6/3/2025 17:37:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7902934**	**1.957706**	**9.705688**	**1.746949**	**.7136310**	**92.12592**	**.9735510**
Stddev	.0066257	.005366	.052192	.010019	.0046000	.09605	.0029876
%RSD	.8383880	.2740958	.5377503	.5734864	.6445950	.1042564	.3068743
#1	.7936197	1.955914	9.728922	1.750314	.7139809	92.21717	.9764175
#2	.7945969	1.963738	9.742229	1.754852	.7180461	92.02570	.9737800
#3	.7826635	1.953465	9.645913	1.735681	.7088660	92.13490	.9704556

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1683480**	**.2142469**	**111.5315**	**.7628194**	**.3255798**	**1.657254**	**242.9781**
Stddev	.0002468	.0012413	.0207	.0014904	.0021176	.008854	1.1748
%RSD	.1466050	.5793627	.0185751	.1953852	.6504041	.5342471	.4834818
#1	.1681469	.2151909	111.5551	.7615692	.3270028	1.662639	243.0380
#2	.1682738	.2147090	111.5164	.7644688	.3265904	1.662087	244.1218
#3	.1686235	.2128409	111.5229	.7624202	.3231463	1.647035	241.7746

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.765676**	**85.50314**	**.8668135**	**.0659491**	**8.297100**	**.6626414**	**3.382601**
Stddev	.008530	.19877	.0043021	.0005329	.053859	.0016981	.005045
%RSD	.2265144	.2324717	.4963119	.8080439	.6491285	.2562607	.1491564
#1	3.774189	85.42469	.8682236	.0658103	8.324086	.6609618	3.380543
#2	3.757130	85.35556	.8702335	.0665376	8.332131	.6626049	3.388350
#3	3.765709	85.72916	.8619833	.0654993	8.235083	.6643574	3.378911

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.85691**	**.7831950**	**.3690502**	**1.024329**	**4.000674**	**3.372028**	**12.49845**
Stddev	.08686	.0036018	.0021601	.005332	.013585	.011953	.07731
%RSD	.5846432	.4598848	.5853025	.5205748	.3395774	.3544705	.6185913
#1	14.89768	.7830584	.3705042	1.024814	4.015930	3.363492	12.48421
#2	14.91588	.7868631	.3700783	1.029403	3.989884	3.385689	12.58189
#3	14.75716	.7796634	.3665681	1.018772	3.996207	3.366905	12.42924

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01MS Acquired: 6/3/2025 17:37:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.586089**	**.3939974**	**.1454456**
Stddev	.020060	.0010063	.0013285
%RSD	.5593806	.2554065	.9133722
#1	3.583573	.3943950	.1467019
#2	3.607289	.3947442	.1440552
#3	3.567406	.3928531	.1455798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3164.809**	**67869.64**	**13202.17**	**2304.146**	**3672.187**
Stddev	9.808	339.87	2.11	8.518	12.924
%RSD	.3099078	.5007656	.0159733	.3696934	.3519381
#1	3157.785	67922.23	13202.11	2309.595	3668.104
#2	3160.628	67506.54	13200.10	2294.329	3661.798
#3	3176.015	68180.14	13204.31	2308.512	3686.660

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01MSD Acquired: 6/3/2025 17:41:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7870451	1.962061	7.104226	1.766077	.7174343	89.61842	.9764655
Stddev	.0049465	.017754	.033174	.007392	.0032868	.03296	.0037831
%RSD	.6284844	.9048583	.4669548	.4185711	.4581373	.0367749	.3874300
#1	.7877242	1.981252	7.139348	1.774064	.7212211	89.63245	.9724871
#2	.7916169	1.946221	7.073424	1.764690	.7157621	89.64204	.9768922
#3	.7817942	1.958711	7.099908	1.759477	.7153198	89.58077	.9800172

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1584676	.2118139	122.7542	.7231777	.3067515	1.552873	242.6845
Stddev	.0008827	.0007598	.3512	.0004674	.0011192	.002373	.2250
%RSD	.5570367	.3586857	.2861289	.0646253	.3648467	.1527971	.0927101
#1	.1576587	.2126132	122.3536	.7234921	.3078119	1.555606	242.8993
#2	.1583349	.2111011	122.8991	.7226407	.3055816	1.551339	242.4505
#3	.1594092	.2117273	123.0097	.7234004	.3068609	1.551674	242.7038

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.368963	90.12209	.8412296	.0715277	8.886640	.6230363	3.316482
Stddev	.010820	.25659	.0033966	.0003085	.021243	.0045488	.006177
%RSD	.3211532	.2847164	.4037670	.4313733	.2390417	.7300951	.1862447
#1	3.359176	89.82703	.8448993	.0716158	8.894436	.6211448	3.313025
#2	3.367131	90.29297	.8381960	.0717826	8.862601	.6197385	3.312808
#3	3.380581	90.24626	.8405936	.0711847	8.902884	.6282256	3.323613

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.71805	.8013017	.3942197	.8785990	3.724882	3.330851	12.43392
Stddev	.07261	.0008773	.0008748	.0031402	.010305	.014858	.06443
%RSD	.4619692	.1094876	.2218980	.3574068	.2766460	.4460678	.5182054
#1	15.77640	.8022137	.3951905	.8817547	3.717837	3.342069	12.50254
#2	15.63673	.8012275	.3939755	.8754746	3.720100	3.336483	12.37471
#3	15.74103	.8004638	.3934929	.8785678	3.736709	3.314001	12.42450

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01MSD Acquired: 6/3/2025 17:41:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.642224**	**.3793902**	**.1500256**
Stddev	.011833	.0012309	.0004614
%RSD	.3248844	.3244500	.3075545
#1	3.653459	.3786651	.1494928
#2	3.629872	.3786941	.1502880
#3	3.643341	.3808115	.1502960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.694**	**68222.47**	**14253.04**	**2306.407**	**3701.340**
Stddev	8.356	71.67	53.64	5.547	10.221
%RSD	.2611555	.1050589	.3763661	.2405004	.2761475
#1	3194.376	68172.15	14314.98	2300.458	3690.155
#2	3195.380	68190.72	14222.59	2307.327	3703.668
#3	3209.325	68304.53	14221.55	2311.437	3710.196

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01A Acquired: 6/3/2025 17:45:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7531484	1.801541	1.439860	1.511133	.5858156	183.9373	.6202167
Stddev	.0025401	.011902	.002712	.003515	.0026525	.4530	.0011233
%RSD	.3372671	.6606520	.1883425	.2325837	.4527863	.2462655	.1811089
#1	.7505493	1.789698	1.442831	1.514864	.5866355	183.9815	.6211605
#2	.7532709	1.813501	1.437518	1.510652	.5879614	184.3665	.6205152
#3	.7556251	1.801424	1.439230	1.507884	.5828500	183.4638	.6189743

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1499473	.2080361	11.40171	.5243769	.4785512	.4404348	542.9862
Stddev	.0003533	.0005933	.01495	.0009575	.0001007	.0007997	3.7369
%RSD	.2356228	.2851680	.1311357	.1826018	.0210488	.1815781	.6882104
#1	.1497362	.2078032	11.38774	.5247783	.4784477	.4395950	542.5652
#2	.1497505	.2075947	11.39991	.5250684	.4785571	.4411873	546.9158
#3	.1503552	.2087105	11.41748	.5232840	.4786489	.4405222	539.4777

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.793459	13.17313	.6888295	.0580750	3.387947	.6350974	.6770527
Stddev	.009744	.01836	.0009717	.0012362	.033281	.0032338	.0041916
%RSD	.2568669	.1393887	.1410594	2.128628	.9823347	.5091876	.6191002
#1	3.796516	13.15214	.6896988	.0582254	3.401712	.6376751	.6723020
#2	3.801308	13.18103	.6877805	.0592292	3.412137	.6361482	.6786260
#3	3.782553	13.18622	.6890091	.0567705	3.349992	.6314688	.6802299

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.97945	1.367162	.3119875	.6764469	2.205690	3.114249	14.15619
Stddev	.08083	.012141	.0006407	.0014450	.006146	.023591	.02940
%RSD	.6747674	.8880187	.2053705	.2136155	.2786611	.7575266	.2076578
#1	12.00472	1.366530	.3117197	.6762937	2.206211	3.088577	14.13244
#2	12.04463	1.379607	.3127186	.6779624	2.211559	3.134976	14.18906
#3	11.88900	1.355350	.3115241	.6750846	2.199299	3.119194	14.14706

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2172-01A Acquired: 6/3/2025 17:45:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.957585**	**.4219254**	**-.353487**
Stddev	.007992	.0024380	.002973
%RSD	.4082502	.5778336	.8409128
#1	1.950022	.4219752	-.352729
#2	1.956788	.4243382	-.356765
#3	1.965946	.4194629	-.350967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3740.261**	**78702.47**	**15731.08**	**2696.679**	**3895.936**
Stddev	8.911	253.12	39.29	4.664	6.939
%RSD	.2382372	.3216209	.2497619	.1729499	.1780976
#1	3732.180	78617.32	15706.70	2692.036	3889.555
#2	3738.787	78502.90	15776.41	2701.363	3894.930
#3	3749.817	78987.19	15710.14	2696.639	3903.322

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-07 Acquired: 6/3/2025 17:49:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0998034**	**-.017240**	**3.387662**	**.0328962**	**.0073352**	**89.37674**	**1.234277**
Stddev	.0021909	.002661	.008412	.0031078	.0019590	.04326	.002519
%RSD	2.195172	15.43641	.2483051	9.447311	26.70701	.0484024	.2040840
#1	.0980440	-.014536	3.383153	.0328147	.0087411	89.32703	1.236064
#2	.0991089	-.019856	3.397367	.0298299	.0050976	89.39731	1.231396
#3	.1022573	-.017327	3.382466	.0360439	.0081670	89.40587	1.235371

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067454**	**.0150567**	**32.94745**	**.2045163**	**.0801995**	**1.492948**	**147.0567**
Stddev	.0000908	.0001881	.03094	.0007651	.0001680	.004393	.5458
%RSD	1.345546	1.249006	.0939161	.3741034	.2094854	.2942748	.3711500
#1	.0067643	.0149177	32.94729	.2053992	.0801288	1.492087	147.4762
#2	.0068253	.0152707	32.97847	.2041031	.0800783	1.497708	146.4396
#3	.0066467	.0149817	32.91658	.2040467	.0803913	1.489049	147.2543

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.860063**	**18.62845**	**.1890414**	**.0234825**	**6.343780**	**.2961851**	**2.211906**
Stddev	.000397	.05659	.0005274	.0005208	.037347	.0008363	.003849
%RSD	.0213475	.3037701	.2789854	2.217691	.5887124	.2823577	.1740062
#1	1.860069	18.56311	.1884666	.0240834	6.380824	.2959314	2.215142
#2	1.859663	18.66128	.1891546	.0232021	6.306138	.2971189	2.212926
#3	1.860457	18.66096	.1895030	.0231620	6.344377	.2955051	2.207650

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.013487**	**.3314053**	**.0095238**	**.1594170**	**1.488651**	**2.561145**	**8.253002**
Stddev	.050689	.0018526	.0000889	.0014842	.001163	.025093	.032085
%RSD	1.682085	.5590222	.9338913	.9310183	.0781296	.9797570	.3887709
#1	3.071538	.3321192	.0094849	.1610946	1.489986	2.575187	8.223215
#2	2.977984	.3293019	.0096256	.1582746	1.488108	2.532175	8.286975
#3	2.990938	.3327948	.0094610	.1588817	1.487859	2.576075	8.248817

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-07 Acquired: 6/3/2025 17:49:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.698555**	**.1493175**	**.1285627**
Stddev	.009622	.0010167	.0004529
%RSD	.2047911	.6808660	.3523139
#1	4.691347	.1492098	.1281965
#2	4.709482	.1483590	.1290692
#3	4.694836	.1503837	.1284224

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3346.657**	**72369.74**	**14186.35**	**2424.146**	**3927.238**
Stddev	9.090	128.84	30.29	5.722	8.502
%RSD	.2716073	.1780298	.2135358	.2360607	.2164898
#1	3350.596	72233.21	14218.55	2417.604	3934.071
#2	3336.262	72489.18	14158.42	2428.224	3917.717
#3	3353.113	72386.83	14182.08	2426.610	3929.927

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-13 Acquired: 6/3/2025 17:53:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0576660**	**-.024703**	**1.167938**	**.0356828**	**.0036816**	**98.01182**	**.6505958**
Stddev	.0019986	.000560	.004612	.0053284	.0009698	.07330	.0029646
%RSD	3.465893	2.268799	.3948946	14.93280	26.34186	.0747875	.4556732
#1	.0554188	-.025266	1.167838	.0332650	.0027290	98.05800	.6472572
#2	.0583346	-.024699	1.172600	.0417915	.0036480	98.05016	.6529201
#3	.0592447	-.024145	1.163377	.0319919	.0046677	97.92730	.6516102

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075295**	**.0172807**	**53.06222**	**.2475509**	**.1080761**	**.6890183**	**216.9420**
Stddev	.0000129	.0002162	.07860	.0009444	.0001593	.0019907	.3828
%RSD	.1714336	1.251085	.1481305	.3815048	.1474196	.2889232	.1764581
#1	.0075438	.0174184	52.97355	.2467297	.1082535	.6875071	216.7420
#2	.0075261	.0170315	53.12334	.2473400	.1080294	.6912740	217.3834
#3	.0075187	.0173921	53.08976	.2485829	.1079453	.6882738	216.7006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.298656**	**39.66254**	**.3036581**	**.0040910**	**5.514081**	**.3775453**	**3.063799**
Stddev	.015079	.05645	.0007943	.0004348	.032815	.0003567	.009334
%RSD	.4571293	.1423223	.2615723	10.62886	.5951200	.0944779	.3046499
#1	3.283166	39.60696	.3027669	.0040702	5.490842	.3771358	3.070880
#2	3.313287	39.71982	.3042915	.0045358	5.551620	.3777884	3.053222
#3	3.299515	39.66082	.3039159	.0036669	5.499782	.3777115	3.067296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.290688**	**.5611759**	**.0065492**	**.0484401**	**3.169381**	**2.212321**	**7.695283**
Stddev	.016197	.0011695	.0003160	.0006048	.005073	.013427	.049402
%RSD	.2221619	.2083949	4.824912	1.248491	.1600715	.6069057	.6419717
#1	7.289090	.5605891	.0066313	.0488387	3.164076	2.217766	7.699595
#2	7.307625	.5625225	.0062003	.0487375	3.174185	2.222170	7.742387
#3	7.275349	.5604159	.0068161	.0477443	3.169881	2.197027	7.643867

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-13 Acquired: 6/3/2025 17:53:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.472160**	**.2120352**	**.0608924**
Stddev	.014532	.0017076	.0010043
%RSD	.2655709	.8053151	1.649303
#1	5.478267	.2122521	.0597436
#2	5.482642	.2136238	.0616044
#3	5.455570	.2102295	.0613291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3288.704**	**70643.78**	**13718.72**	**2394.430**	**3822.725**
Stddev	9.256	126.27	27.59	6.199	7.870
%RSD	.2814436	.1787429	.2011146	.2588993	.2058767
#1	3298.235	70554.64	13727.21	2387.350	3829.022
#2	3279.750	70788.27	13741.06	2398.884	3813.902
#3	3288.128	70588.42	13687.88	2397.056	3825.250

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2159-01 Acquired: 6/3/2025 17:57:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0754525**	**-.043907**	**.1356436**	**.0553534**	**-.011227**	**153.1566**	**.3641735**
Stddev	.0003797	.002496	.0019785	.0015981	.001153	.3061	.0007808
%RSD	.5032087	5.684282	1.458611	2.887121	10.26723	.1998349	.2144089
#1	.0750847	-.043594	.1336830	.0539007	-.012328	153.1588	.3647271
#2	.0754300	-.046544	.1376395	.0550944	-.010028	152.8494	.3632804
#3	.0758430	-.041582	.1356081	.0570653	-.011326	153.4615	.3645129

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184994**	**.0161377**	**7.156739**	**.2441505**	**.1098572**	**.1545660**	**412.0733**
Stddev	.0001323	.0003359	.012781	.0011708	.0006799	.0010454	.6252
%RSD	.7151827	2.081608	.1785913	.4795530	.6189067	.6763408	.1517095
#1	.0183864	.0163883	7.169632	.2430412	.1106416	.1551363	411.9678
#2	.0184668	.0162688	7.156513	.2440360	.1094942	.1552023	411.5076
#3	.0186449	.0157560	7.144073	.2453744	.1094359	.1533595	412.7445

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.512731**	**13.55725**	**.1752209**	**-.000807**	**2.454699**	**.5159821**	**.3499558**
Stddev	.000726	.01602	.0003924	.000181	.003073	.0003607	.0016631
%RSD	.0479766	.1181432	.2239278	22.46120	.1251777	.0699043	.4752416
#1	1.513177	13.54382	.1752398	-.001011	2.451599	.5163731	.3488369
#2	1.513123	13.57498	.1756034	-.000748	2.457744	.5159106	.3518670
#3	1.511894	13.55297	.1748194	-.000663	2.454755	.5156625	.3491636

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.909728**	**.8746460**	**.0058974**	**.0158621**	**2.067132**	**2.137885**	**5.547414**
Stddev	.032426	.0010631	.0003570	.0008553	.003653	.006075	.014072
%RSD	.4692863	.1215492	6.054034	5.391832	.1767256	.2841396	.2536684
#1	6.915435	.8756445	.0062996	.0158394	2.063281	2.144811	5.563532
#2	6.938922	.8735283	.0056179	.0150184	2.070548	2.135384	5.541143
#3	6.874827	.8747651	.0057747	.0167285	2.067568	2.133460	5.537568

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2159-01 Acquired: 6/3/2025 17:57:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.060783	.3146595	-.329152
Stddev	.005003	.0007777	.000687
%RSD	.4716734	.2471493	.2088240
#1	1.064452	.3153863	-.328780
#2	1.062813	.3138394	-.328730
#3	1.055083	.3147527	-.329945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3428.604	72498.52	13797.13	2492.755	3892.827
Stddev	10.845	152.23	28.63	3.767	6.568
%RSD	.3162969	.2099761	.2074746	.1511181	.1687111
#1	3422.641	72667.13	13821.51	2494.574	3889.084
#2	3422.049	72457.24	13804.28	2488.423	3888.987
#3	3441.121	72371.19	13765.61	2495.267	3900.411

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-01 Acquired: 6/3/2025 18:01:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1017138**	**-.033708**	**5.130473**	**.0348606**	**.0150300**	**86.50182**	**.7815439**
Stddev	.0010514	.003271	.012622	.0052975	.0018947	.05127	.0029433
%RSD	1.033672	9.704617	.2460191	15.19623	12.60638	.0592694	.3766065
#1	.1021630	-.031333	5.124060	.0409649	.0172161	86.53632	.7819602
#2	.1024660	-.037439	5.122346	.0314671	.0138609	86.52624	.7842570
#3	.1005124	-.032351	5.145014	.0321498	.0140131	86.44291	.7784146

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072292**	**.0263038**	**172.6371**	**.3912536**	**.1157152**	**1.348218**	**263.8081**
Stddev	.0000626	.0003004	.2690	.0010053	.0003408	.001049	.7780
%RSD	.8663223	1.141873	.1558446	.2569465	.2944998	.0778426	.2949099
#1	.0071671	.0263496	172.3265	.3918711	.1153313	1.347153	263.9545
#2	.0072281	.0259832	172.7870	.3900936	.1158325	1.349251	264.5025
#3	.0072923	.0265787	172.7979	.3917961	.1159819	1.348250	262.9673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.995134**	**119.9719**	**.3617615**	**.0067031**	**8.379368**	**.3880653**	**3.507525**
Stddev	.006206	.3287	.0012086	.0005483	.041156	.0008863	.013051
%RSD	.2072134	.2739558	.3340852	8.180165	.4911565	.2283852	.3720922
#1	2.989110	119.6315	.3610519	.0071342	8.410110	.3873354	3.508827
#2	3.001508	119.9967	.3610756	.0068893	8.395380	.3890515	3.493872
#3	2.994785	120.2875	.3631570	.0060860	8.332612	.3878090	3.519877

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.701287**	**.6224452**	**.0185517**	**.2038209**	**3.720112**	**2.766525**	**6.995151**
Stddev	.043018	.0033375	.0001705	.0001416	.008886	.022569	.031916
%RSD	.6419293	.5361994	.9188403	.0694640	.2388569	.8157766	.4562618
#1	6.749428	.6231032	.0185695	.2037150	3.712987	2.778932	6.988542
#2	6.687818	.6254047	.0183730	.2039817	3.730068	2.780168	6.967057
#3	6.666616	.6188276	.0187126	.2037661	3.717281	2.740475	7.029854

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-01 Acquired: 6/3/2025 18:01:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.178254**	**.2113296**	**-.001027**
Stddev	.015226	.0000884	.000235
%RSD	.3644167	.0418324	22.91168
#1	4.179034	.2112296	-.000986
#2	4.162653	.2113619	-.001281
#3	4.193076	.2113974	-.000816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3123.256**	**67563.34**	**13937.88**	**2269.961**	**3620.630**
Stddev	2.811	111.43	46.19	10.264	7.766
%RSD	.0899937	.1649296	.3313643	.4521650	.2145050
#1	3126.360	67437.95	13958.01	2277.193	3625.181
#2	3122.523	67651.05	13970.58	2274.478	3625.047
#3	3120.884	67601.01	13885.04	2258.213	3611.663

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV04 Acquired: 6/3/2025 18:57:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.047840**	**5.471028**	**4.881808**	**5.134650**	**4.987307**	**9.430308**
Stddev	.019482	.048225	.020097	.027470	.018944	.013935
%RSD	.3859569	.8814644	.4116789	.5349993	.3798392	.1477641
#1	5.047671	5.473933	4.895797	5.127701	4.974349	9.445177
#2	5.028442	5.421415	4.858778	5.111321	4.978525	9.417549
#3	5.067406	5.517734	4.890848	5.164927	5.009048	9.428197

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.395712**	**.2250848**	**2.426744**	**23.61021**	**.9894567**	**2.399233**
Stddev	.010038	.0009894	.009502	.02344	.0074601	.009826
%RSD	.1068390	.4395647	.3915339	.0992642	.7539579	.4095306
#1	9.387887	.2247449	2.435629	23.58318	.9914954	2.406573
#2	9.407030	.2243102	2.416727	23.62490	.9956856	2.388071
#3	9.392218	.2261993	2.427874	23.62254	.9811892	2.403056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.236698**	**5.084120**	**2.310859**	**23.48533**	**2.437905**	**1.211566**
Stddev	.004376	.048293	.004217	.05594	.008407	.011355
%RSD	.3538853	.9498747	.1824687	.2381920	.3448456	.9371922
#1	1.236808	5.089559	2.307495	23.42273	2.442446	1.214895
#2	1.232267	5.129464	2.309492	23.53043	2.428205	1.220884
#3	1.241018	5.033339	2.315589	23.50283	2.443066	1.198919

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.68174**	**2.388141**	**2.427810**	**25.06550**	F **4.457484**	**4.980374**
Stddev	.26832	.006754	.012606	.24142	.015501	.017871
%RSD	1.087109	.2828006	.5192414	.9631714	.3477558	.3588275
#1	24.74870	2.392885	2.431891	25.11302	4.461318	4.981775
#2	24.91024	2.391129	2.437870	25.27963	4.440426	4.961844
#3	24.38629	2.380409	2.413669	24.80385	4.470709	4.997503

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV04 Acquired: 6/3/2025 18:57:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.900526**	**4.710618**	**5.193689**	**4.829597**	**4.891039**	**4.545551**
Stddev	.012017	.005372	.078198	.025101	.022578	.005402
%RSD	.2452160	.1140457	1.505638	.5197394	.4616170	.1188410
#1	4.908675	4.714262	5.185263	4.822717	4.885633	4.542922
#2	4.886726	4.704449	5.275758	4.808653	4.871655	4.541967
#3	4.906179	4.713144	5.120045	4.857421	4.915829	4.551764

Elem	Sr4077
Units	ppm
Avg	**4.756564**
Stddev	.036976
%RSD	.7773645
#1	4.767365
#2	4.715390
#3	4.786936

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2955.862**	**61170.45**	**12267.63**	**2120.332**	**3937.308**
Stddev	7.031	569.65	36.37	18.170	8.516
%RSD	.2378659	.9312467	.2964699	.8569201	.2162858
#1	2957.222	61129.71	12297.17	2124.530	3932.820
#2	2962.113	60622.27	12278.69	2100.430	3947.129
#3	2948.250	61759.38	12227.01	2136.035	3931.975

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB04 Acquired: 6/3/2025 19:01:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0005307	-.001095	.0005371	.0049257	-.001368	.0020602	-.003647
Stddev	.0011369	.000838	.0012184	.0011372	.000174	.0046567	.000416
%RSD	214.2295	76.50928	226.8325	23.08708	12.70782	226.0353	11.41915
#1	-.000768	-.001540	-.000590	.0061586	-.001448	-.002752	-.003177
#2	.001011	-.001616	.000371	.0039178	-.001169	.006545	-.003970
#3	.001349	-.000129	.001830	.0047008	-.001488	.002387	-.003794

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000225	.0001821	.0048278	.0005739	.0001801	.0006216	.0105475
Stddev	.0000263	.0000516	.0060278	.0002294	.0000961	.0002354	.0017682
%RSD	116.9575	28.35019	124.8568	39.96941	53.36045	37.86625	16.76374
#1	-.000004	.0001554	.0002103	.0008248	.0002894	.0008589	.0099460
#2	.000049	.0001492	.0026261	.0003749	.0001090	.0003881	.0125379
#3	.000022	.0002416	.0116469	.0005221	.0001417	.0006179	.0091585

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001978	-.002934	.0008311	-.000020	-.092498	-.000338	.0017499
Stddev	.0000513	.024707	.0000410	.000375	.007520	.000444	.0002318
%RSD	25.93519	842.1869	4.928860	1856.675	8.129950	131.5941	13.24561
#1	.0002561	-.014863	.0008076	.000166	-.083826	-.000038	.0014823
#2	.0001778	.025475	.0008783	-.000452	-.096446	-.000848	.0018819
#3	.0001595	-.019413	.0008072	.000225	-.097223	-.000127	.0018857

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0350704	.0174143	.0008812	.0034143	.0012603	.0125573	.0006810
Stddev	.0042936	.0006729	.0000912	.0006640	.0005739	.0039528	.0010208
%RSD	12.24284	3.864316	10.34643	19.44804	45.53686	31.47790	149.9028
#1	.0315732	.0168256	.0009341	.0041189	.0015880	.0096756	-.000377
#2	.0337755	.0172696	.0009336	.0028001	.0015951	.0170635	.001660
#3	.0398624	.0181479	.0007759	.0033239	.0005976	.0109327	.000761

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB04 Acquired: 6/3/2025 19:01:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003891	-.001606	.0003130
Stddev	.0003518	.000283	.0000477
%RSD	90.41822	17.61856	15.23954
#1	.0007951	-.001461	.0003662
#2	.0001727	-.001425	.0002990
#3	.0001996	-.001932	.0002739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.897	65326.38	12081.07	2228.980	4420.959
Stddev	6.586	26.58	43.71	5.848	7.574
%RSD	.2088149	.0406928	.3618196	.2623651	.1713314
#1	3155.663	65354.08	12034.79	2231.825	4419.933
#2	3159.420	65301.08	12086.77	2232.862	4428.995
#3	3146.608	65323.97	12121.66	2222.254	4413.950

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2159-04 Acquired: 6/3/2025 19:06:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002718**	**-.004161**	**.0010532**	**.0055460**	**-.000233**	**.2384646**	**.2717109**
Stddev	.000764	.001165	.0008024	.0013435	.000963	.0031359	.0028450
%RSD	28.09912	27.99804	76.18669	24.22535	413.3392	1.315037	1.047057
#1	-.003525	-.004012	.0010330	.0054708	.000127	.2406561	.2747058
#2	-.002007	-.005393	.0018654	.0042416	-.001325	.2398652	.2713823
#3	-.002620	-.003077	.0002611	.0069256	.000498	.2348725	.2690444

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002076**	**.0000558**	**3.295056**	**-.000073**	**.0080076**	**.0082574**	**.0043054**
Stddev	.0000235	.0000495	.034374	.000201	.0002182	.0002605	.0048059
%RSD	11.31366	88.70670	1.043211	275.3575	2.725598	3.154801	111.6248
#1	.0002341	.0001078	3.330878	-.000110	.0078459	.0085575	.0070211
#2	.0001992	.0000504	3.291951	.000144	.0082558	.0081245	-.001244
#3	.0001894	.0000092	3.262340	-.000252	.0079209	.0080900	.007139

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1204071**	**2.147620**	**.0050584**	**-.000131**	**294.8207**	**.0008552**	**.1133529**
Stddev	.0014724	.033774	.0002813	.000142	3.9790	.0009176	.0004279
%RSD	1.222883	1.572626	5.560372	108.6572	1.349645	107.2955	.3775253
#1	.1220754	2.182103	.0053409	-.000077	299.3089	-.000180	.1128791
#2	.1198567	2.146154	.0047784	-.000024	293.4280	.001177	.1134682
#3	.1192891	2.114602	.0050560	-.000292	291.7252	.001568	.1137113

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8228926**	**.0652433**	**.0004284**	**-.001312**	**.0004316**	**.4176998**	**.0068662**
Stddev	.0303456	.0013629	.0000684	.000649	.0004291	.0064046	.0005563
%RSD	3.687672	2.088892	15.97945	49.44069	99.40942	1.533290	8.101460
#1	.8274204	.0662861	.0004370	-.001449	.0009271	.4103294	.0064360
#2	.7905375	.0657425	.0004921	-.000606	.0001856	.4219112	.0066682
#3	.8507199	.0637012	.0003560	-.001881	.0001822	.4208587	.0074944

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2159-04 Acquired: 6/3/2025 19:06:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8465652	-.003333	.0346620
Stddev	.0031334	.000628	.0003386
%RSD	.3701312	18.83782	.9767485
#1	.8434448	-.002897	.0349673
#2	.8465393	-.003049	.0347210
#3	.8497114	-.004053	.0342979

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.385	61694.17	12380.78	2106.932	3905.738
Stddev	10.894	256.62	187.63	6.532	28.967
%RSD	.3659064	.4159537	1.515531	.3100097	.7416580
#1	2987.260	61554.08	12181.79	2101.611	3933.544
#2	2979.197	61538.08	12406.05	2104.964	3907.937
#3	2965.699	61990.35	12554.50	2114.222	3875.735

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2160-04 Acquired: 6/3/2025 19:10:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001687**	**-.006305**	**.0005409**	**.0066552**	**.0000699**	**.0779259**	**.4117903**
Stddev	.001335	.000966	.0012266	.0040682	.0009665	.0018926	.0002820
%RSD	79.12526	15.31516	226.7753	61.12882	1383.656	2.428763	.0684698
#1	-.000166	-.005194	-.000859	.0043397	-.001031	.0761232	.4117300
#2	-.002663	-.006780	.001055	.0042733	.000461	.0777573	.4120975
#3	-.002232	-.006941	.001427	.0113527	.000779	.0798972	.4115433

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003425**	**.0001703**	**9.151728**	**.0002545**	**.0012538**	**.0063793**	**.0047251**
Stddev	.0000639	.0000593	.040264	.0001623	.0000514	.0002884	.0044375
%RSD	18.65690	34.80981	.4399559	63.74588	4.100446	4.521505	93.91398
#1	.0004040	.0001057	9.181506	.0000886	.0012306	.0066906	.0035797
#2	.0003470	.0001830	9.167761	.0002622	.0013127	.0061210	.0096230
#3	.0002764	.0002221	9.105918	.0004128	.0012181	.0063263	.0009726

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3383319**	**5.490170**	**.0121344**	**-.000363**	**309.9511**	**.0010949**	**.1004341**
Stddev	.0009339	.010085	.0002572	.000122	2.2173	.0026080	.0001025
%RSD	.2760184	.1836979	2.119596	33.67745	.7153760	238.1924	.1020265
#1	.3391526	5.480346	.0121924	-.000222	312.4798	.0041028	.1003159
#2	.3373158	5.489666	.0118531	-.000432	309.0342	-.000536	.1004910
#3	.3385272	5.500498	.0123576	-.000436	308.3392	-.000282	.1004956

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7072295**	**.0711720**	**.0002815**	**-.001737**	**.0009068**	**.6542564**	**.0161669**
Stddev	.0083783	.0008130	.0000512	.000441	.0000715	.0050223	.0012017
%RSD	1.184661	1.142260	18.17475	25.38489	7.887041	.7676409	7.432910
#1	.7132588	.0721094	.0002329	-.002095	.0008535	.6583826	.0150829
#2	.7107669	.0706597	.0003349	-.001872	.0008789	.6557224	.0174591
#3	.6976626	.0707468	.0002766	-.001244	.0009881	.6486641	.0159588

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2160-04 Acquired: 6/3/2025 19:10:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4864126	-.001818	.0433669
Stddev	.0058344	.001452	.0000425
%RSD	1.199472	79.87930	.0981278
#1	.4809470	-.002300	.0433530
#2	.4857344	-.000186	.0433330
#3	.4925564	-.002968	.0434146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2888.478	60667.19	11551.37	2075.479	3794.639
Stddev	4.388	29.95	31.95	.850	9.619
%RSD	.1519146	.0493596	.2765566	.0409455	.2534779
#1	2891.344	60638.71	11525.58	2074.506	3802.978
#2	2890.663	60698.41	11541.43	2075.862	3796.822
#3	2883.426	60664.44	11587.11	2076.071	3784.116

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2160-08 Acquired: 6/3/2025 19:15:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003433	-.002849	-.000500	.0091994	-.000933	.1457813	.3447574
Stddev	.001485	.001975	.000421	.0014284	.001152	.0051933	.0023873
%RSD	43.25131	69.32285	84.21081	15.52741	123.4839	3.562392	.6924440
#1	-.004990	-.000584	-.000096	.0104854	-.001914	.1409181	.3463458
#2	-.003277	-.003754	-.000937	.0094507	.000335	.1451744	.3420121
#3	-.002032	-.004210	-.000467	.0076619	-.001219	.1512514	.3459142

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001827	.0003836	7.915140	.0013986	.0056294	.0081848	.0139776
Stddev	.0000133	.0000088	.011690	.0001534	.0004035	.0002516	.0029148
%RSD	7.280415	2.298223	.1476940	10.97095	7.168505	3.073901	20.85343
#1	.0001976	.0003783	7.922199	.0012315	.0058713	.0082536	.0109447
#2	.0001785	.0003938	7.901646	.0015332	.0051635	.0079060	.0167578
#3	.0001720	.0003787	7.921576	.0014311	.0058533	.0083949	.0142303

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.222189	2.664996	.0078112	-.000252	365.5986	.0008313	.0912262
Stddev	.001617	.023001	.0003061	.000484	.5471	.0007627	.0006969
%RSD	.1322757	.8630740	3.918306	191.9011	.1496328	91.74471	.7638913
#1	1.224053	2.679793	.0081636	.000287	365.5266	.0004321	.0905791
#2	1.221176	2.638497	.0076573	-.000649	365.0910	.0017108	.0911354
#3	1.221337	2.676698	.0076126	-.000395	366.1780	.0003511	.0919640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017644	.0597467	.0003198	-.001474	.0006548	.4570591	.0086851
Stddev	.032809	.0002976	.0001904	.000390	.0010432	.0073607	.0011805
%RSD	3.223976	.4981641	59.55332	26.45919	159.3124	1.610438	13.59182
#1	1.021027	.0600687	.0000999	-.001380	-.000060	.4556338	.0092795
#2	.983275	.0596895	.0004334	-.001140	.000173	.4505154	.0094501
#3	1.048629	.0594817	.0004260	-.001903	.001852	.4650282	.0073255

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2160-08 Acquired: 6/3/2025 19:15:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6854184	-.003533	.0560287
Stddev	.0050478	.000604	.0003202
%RSD	.7364551	17.09440	.5715042
#1	.6800381	-.004083	.0557619
#2	.6861669	-.002887	.0559403
#3	.6900502	-.003628	.0563838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2933.356	61428.03	12135.56	2093.548	3832.755
Stddev	7.647	244.95	30.78	9.681	7.648
%RSD	.2606892	.3987670	.2536352	.4624364	.1995366
#1	2936.707	61678.86	12120.19	2103.726	3833.865
#2	2924.606	61415.82	12171.00	2092.461	3824.612
#3	2938.755	61189.40	12115.49	2084.455	3839.786

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-06 Acquired: 6/3/2025 19:22:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001055**	**-.005921**	**.1137707**	**.0066245**	**-.001121**	**.0429069**	**.1303984**
Stddev	.000750	.000959	.0007993	.0009984	.001973	.0028259	.0008131
%RSD	71.02569	16.20457	.7025109	15.07172	176.0338	6.586021	.6235612
#1	-.000194	-.004821	.1141550	.0069888	.000213	.0435140	.1308096
#2	-.001558	-.006586	.1143052	.0054951	-.003387	.0453799	.1309238
#3	-.001414	-.006355	.1128519	.0073897	-.000188	.0398269	.1294618

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000054**	**.0020560**	**23.74607**	**.0006236**	**.0004067**	**.0159069**	**.0145104**
Stddev	.000016	.0000327	.04830	.0000936	.0001793	.0004634	.0017418
%RSD	30.09144	1.590120	.2033981	15.01119	44.08463	2.913270	12.00369
#1	-.000044	.0020253	23.70172	.0005157	.0002677	.0155100	.0161201
#2	-.000072	.0020524	23.79753	.0006831	.0006090	.0164162	.0147499
#3	-.000045	.0020904	23.73896	.0006720	.0003433	.0157945	.0126613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1582375**	**9.086018**	**.0047086**	**-.000170**	**317.8713**	**-.001325**	**.1968331**
Stddev	.0005721	.044494	.0002955	.000143	1.4277	.001180	.0007746
%RSD	.3615509	.4896991	6.276234	84.36057	.4491323	89.08137	.3935458
#1	.1575770	9.069522	.0047851	-.000139	316.3381	-.002605	.1968206
#2	.1585815	9.052128	.0043823	-.000326	318.1134	-.001090	.1976139
#3	.1585538	9.136404	.0049583	-.000044	319.1624	-.000280	.1960648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5833976**	**.0130444**	**.0002035**	**.0049445**	**.0001542**	**.5824726**	**.0257568**
Stddev	.0376679	.0005914	.0001681	.0002476	.0005362	.0078708	.0015006
%RSD	6.456639	4.533367	82.62234	5.006718	347.8305	1.351282	5.825827
#1	.6268879	.0129047	.0000934	.0048318	-.000272	.5757398	.0244764
#2	.5610937	.0136930	.0001201	.0047732	.000756	.5805520	.0253861
#3	.5622111	.0125353	.0003970	.0052283	-.000021	.5911260	.0274079

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-06 Acquired: 6/3/2025 19:22:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1781619	-.006524	.0662382
Stddev	.0015693	.000624	.0001266
%RSD	.8808084	9.559598	.1911643
#1	.1769836	-.006824	.0661777
#2	.1799433	-.005807	.0663837
#3	.1775589	-.006941	.0661532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2905.512	62159.72	12140.81	2094.309	3847.276
Stddev	5.598	274.79	46.06	4.290	10.913
%RSD	.1926641	.4420783	.3793847	.2048177	.2836680
#1	2908.824	62335.23	12192.67	2093.200	3852.473
#2	2908.663	61843.03	12125.11	2090.683	3854.620
#3	2899.049	62300.88	12104.65	2099.044	3834.736

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-12 Acquired: 6/3/2025 19:26:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004514**	**-.005711**	**.0118244**	**.0067061**	**.0014144**	**.0717804**	**.0887745**
Stddev	.0004644	.001285	.0012963	.0031933	.0011290	.0030375	.0004796
%RSD	102.8802	22.49723	10.96324	47.61831	79.82355	4.231702	.5402087
#1	.0006682	-.004421	.0132700	.0073766	.0003154	.0734371	.0885568
#2	-.000082	-.005723	.0114381	.0095109	.0013566	.0682748	.0884425
#3	.000768	-.006990	.0107651	.0032307	.0025713	.0736295	.0893244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000091**	**.0008056**	**7.379761**	**.0002296**	**.0000660**	**.0104575**	**.0397210**
Stddev	.000057	.0000211	.029966	.0004048	.0002376	.0003975	.0026174
%RSD	62.67196	2.625463	.4060579	176.3360	360.0034	3.801024	6.589384
#1	-.000129	.0007988	7.377574	.0001649	.0001035	.0105001	.0389403
#2	-.000025	.0007887	7.350949	-.000139	.0002826	.0100404	.0375827
#3	-.000120	.0008294	7.410761	.000663	-.000188	.0108320	.0426398

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0609187**	**.5943888**	**.0026667**	**-.000038**	**336.9909**	**.0017155**	**.0934742**
Stddev	.0004321	.0098379	.0001783	.000350	1.4053	.0014455	.0002886
%RSD	.7092966	1.655138	6.687448	910.3374	.4170109	84.25993	.3087367
#1	.0606818	.5856652	.0028721	-.000385	335.4433	.0028001	.0933396
#2	.0606568	.6050521	.0025763	-.000046	338.1873	.0000745	.0938055
#3	.0614174	.5924489	.0025516	.000315	337.3422	.0022719	.0932775

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3567552**	**.0116262**	**.0000984**	**.0046572**	**.0014134**	**.3443793**	**.0335119**
Stddev	.0204518	.0003797	.0001493	.0004258	.0003561	.0063339	.0015842
%RSD	5.732730	3.265965	151.7826	9.142927	25.19638	1.839215	4.727409
#1	.3776535	.0119265	.0002598	.0045753	.0010210	.3475960	.0351085
#2	.3367812	.0117526	-.000035	.0042784	.0015031	.3370826	.0319403
#3	.3558310	.0111994	.000070	.0051181	.0017160	.3484593	.0334868

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-12 Acquired: 6/3/2025 19:26:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2329760	-.003807	.0584686
Stddev	.0026253	.000252	.0002408
%RSD	1.126856	6.631129	.4118498
#1	.2302546	-.004098	.0587137
#2	.2331803	-.003675	.0582324
#3	.2354932	-.003647	.0584598

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2916.768	61990.13	12466.91	2108.550	3858.838
Stddev	12.788	149.55	28.15	8.904	14.540
%RSD	.4384412	.2412452	.2257834	.4222570	.3767929
#1	2931.532	62058.64	12455.53	2118.826	3874.191
#2	2909.157	62093.15	12498.96	2103.706	3857.047
#3	2909.615	61818.60	12446.23	2103.119	3845.278

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-18 Acquired: 6/3/2025 19:31:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003821**	**-.005237**	**.0034685**	**.0066531**	**-.000786**	**.0753223**	**.1415012**
Stddev	.000321	.001587	.0008325	.0008282	.001879	.0042050	.0045382
%RSD	8.410614	30.31026	24.00125	12.44762	238.8665	5.582679	3.207211
#1	-.003472	-.006747	.0040934	.0057919	-.000264	.0750125	.1395428
#2	-.004104	-.005384	.0025235	.0074437	-.002871	.0796736	.1382709
#3	-.003886	-.003582	.0037886	.0067237	.000775	.0712808	.1466898

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000136**	**.0009851**	**17.86361**	**.0005955**	**.0003803**	**.0057724**	**.0528613**
Stddev	.000031	.0000683	.39774	.0001536	.0002115	.0003320	.0053949
%RSD	22.93234	6.936653	2.226527	25.78693	55.60757	5.751266	10.20587
#1	-.000169	.0009673	17.60337	.0004243	.0001413	.0054621	.0584442
#2	-.000107	.0009275	17.66601	.0007210	.0005431	.0057326	.0476764
#3	-.000131	.0010606	18.32145	.0006413	.0004565	.0061225	.0524632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2657353**	**2.105470**	**.0030962**	**-.000087**	**363.4347**	**-.000434**	**.1287709**
Stddev	.0061458	.065513	.0002582	.000157	4.5578	.001705	.0011659
%RSD	2.312734	3.111573	8.339097	180.8531	1.254084	392.9276	.9053949
#1	.2619386	2.048158	.0032122	-.000056	368.6932	-.001609	.1299031
#2	.2624415	2.091365	.0032759	.000053	360.9924	.001522	.1288354
#3	.2728259	2.176887	.0028003	-.000256	360.6186	-.001215	.1275740

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.091209**	**.0300195**	**.0003416**	**-.002225**	**.0015420**	**.9053496**	**.0666315**
Stddev	.032241	.0002354	.0002106	.000889	.0001753	.0041680	.0001299
%RSD	2.954651	.7839995	61.64752	39.95902	11.36903	.4603724	.1949444
#1	1.054057	.0302398	.0001624	-.001688	.0014632	.9085686	.0665031
#2	1.107708	.0297715	.0005736	-.001735	.0017428	.9006416	.0667629
#3	1.111862	.0300473	.0002888	-.003251	.0014198	.9068386	.0666284

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: Q2173-18 Acquired: 6/3/2025 19:31:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2601846	-.006042	.0594523
Stddev	.0039715	.000488	.0012900
%RSD	1.526403	8.079277	2.169771
#1	.2647192	-.005656	.0588011
#2	.2585091	-.006591	.0586177
#3	.2573254	-.005879	.0609381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2899.111	59923.55	12166.93	2061.204	3834.171
Stddev	7.332	269.92	252.38	19.366	8.343
%RSD	.2529179	.4504396	2.074352	.9395382	.2176051
#1	2891.009	59618.59	12313.91	2039.557	3825.026
#2	2905.293	60020.30	12311.38	2067.172	3836.119
#3	2901.030	60131.76	11875.50	2076.883	3841.368

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV05 Acquired: 6/3/2025 19:35:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.979561**	**5.329467**	**4.814371**	**5.067518**	**4.947093**	**9.472988**	**9.134022**
Stddev	.017150	.057021	.004617	.021932	.020639	.016176	.020420
%RSD	.3444091	1.069927	.0959034	.4327988	.4171998	.1707638	.2235582
#1	4.962334	5.266488	4.818009	5.042419	4.923872	9.462796	9.156621
#2	4.996633	5.377591	4.809177	5.077149	4.954059	9.491640	9.128547
#3	4.979717	5.344321	4.815926	5.082987	4.963348	9.464527	9.116898

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2348366**	**2.397303**	**23.42396**	**.9853988**	**2.378047**	**1.226006**	**4.799431**
Stddev	.0022132	.001745	.07942	.0043693	.001338	.001378	.043772
%RSD	.9424651	.0727759	.3390670	.4434034	.0562671	.1123681	.9120290
#1	.2337992	2.399305	23.44769	.9897009	2.377807	1.224529	4.847300
#2	.2373780	2.396492	23.48881	.9809653	2.379488	1.227256	4.761445
#3	.2333325	2.396111	23.33537	.9855302	2.376845	1.226232	4.789550

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.293714**	**23.57739**	**2.404361**	**1.205788**	**23.30789**	**2.375407**	**2.413653**
Stddev	.012566	.08021	.001876	.003584	.29236	.008529	.005337
%RSD	.5478420	.3401801	.0780397	.2971982	1.254342	.3590522	.2211242
#1	2.307227	23.52816	2.406408	1.209130	23.61682	2.377795	2.419360
#2	2.291537	23.66994	2.403954	1.202004	23.03554	2.382488	2.408785
#3	2.282380	23.53407	2.402722	1.206229	23.27132	2.365939	2.412813

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.85640**	**4.639667**	**4.948034**	**4.831223**	**4.664677**	**4.892649**	**4.765226**
Stddev	.16787	.045057	.008823	.005332	.016457	.038574	.022587
%RSD	.7036657	.9711246	.1783194	.1103550	.3528107	.7884077	.4740064
#1	24.03264	4.623510	4.938000	4.825408	4.676222	4.899689	4.745331
#2	23.69838	4.690575	4.951518	4.832379	4.671978	4.851039	4.789780
#3	23.83818	4.604917	4.954582	4.835881	4.645833	4.927218	4.760568

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCV05 Acquired: 6/3/2025 19:35:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.806930**	**4.548832**	**4.704780**
Stddev	.008350	.024543	.055413
%RSD	.1737014	.5395348	1.177812
#1	4.800572	4.570366	4.651279
#2	4.816386	4.554019	4.761926
#3	4.803831	4.522110	4.701134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3012.679**	**62268.81**	**11870.21**	**2141.990**	**4026.247**
Stddev	3.642	244.91	64.24	16.388	2.324
%RSD	.1208817	.3933044	.5411453	.7650933	.0577332
#1	3015.762	62103.61	11899.71	2135.113	4025.199
#2	3013.613	62550.18	11796.53	2160.696	4028.911
#3	3008.661	62152.63	11914.41	2130.160	4024.631

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB05 Acquired: 6/3/2025 19:39:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0009125	-.000443	-.000058	.0036386	.0011805	.0036279	-.004767
Stddev	.0024486	.000392	.000996	.0037271	.0014352	.0048415	.000620
%RSD	268.3291	88.51276	1714.212	102.4348	121.5806	133.4508	13.00467
#1	-.000228	-.000463	-.000562	.0065471	.0027752	.0011635	-.004796
#2	.003723	-.000041	.001089	.0049314	.0007734	.0092058	-.004134
#3	-.000758	-.000824	-.000701	-.000563	-.000007	.0005145	-.005372

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000197	.0001261	.0121977	.0005023	.0000970	.0037531	.0096161
Stddev	.0000316	.0000435	.0050690	.0002620	.0001187	.0003418	.0035414
%RSD	160.5590	34.51982	41.55663	52.16005	122.3100	9.107019	36.82842
#1	-.000013	.0001763	.0168761	.0007825	.0001989	.0034056	.0077091
#2	.000022	.0001040	.0068124	.0002633	-.000033	.0040889	.0074368
#3	.000050	.0000981	.0129047	.0004612	.000125	.0037649	.0137024

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002855	-.009458	.0006690	.0000940	.0255791	.0010518	.0022293
Stddev	.0003301	.007704	.0001065	.0001493	.0064479	.0005692	.0003328
%RSD	115.6111	81.45611	15.92318	158.8537	25.20771	54.11870	14.92996
#1	.0004011	-.017951	.0007524	.0000321	.0188871	.0010657	.0026135
#2	-.000087	-.007503	.0007057	.0002643	.0317514	.0004757	.0020296
#3	.000542	-.002920	.0005490	-.000014	.0260988	.0016139	.0020448

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547870	.0089307	.0006504	.0031083	.0008358	.0046971	-.001535
Stddev	.0432106	.0004327	.0001477	.0006157	.0002306	.0034458	.001665
%RSD	78.87017	4.845576	22.70108	19.80994	27.58924	73.35989	108.4648
#1	.0997334	.0087700	.0007249	.0026508	.0009571	.0021220	-.001294
#2	.0510761	.0094208	.0007460	.0038084	.0009803	.0086115	-.003308
#3	.0135515	.0086012	.0004804	.0028656	.0005699	.0033579	-.000004

Reviewed By:
On:
Inst Id :P4
LB :LB135993

Sample Name: CCB05 Acquired: 6/3/2025 19:39:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001832	.0038927	.0001989
Stddev	.001124	.0008303	.0000880
%RSD	61.35080	21.32933	44.26234
#1	-.000540	.0032221	.0001018
#2	-.002377	.0048214	.0002213
#3	-.002580	.0036347	.0002736

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.683	66626.56	12126.08	2275.272	4326.888
Stddev	23.298	73.83	112.65	14.505	40.062
%RSD	.7437228	.1108043	.9290253	.6375037	.9258786
#1	3119.741	66541.61	12093.86	2261.444	4306.929
#2	3118.730	66675.16	12033.04	2290.370	4300.726
#3	3159.580	66662.91	12251.33	2274.003	4373.008

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168200

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 05/29/2025 **Time :** 10:15 **Temp :** 96 °C

End Digest Date: 05/29/2025 **Time :** 13:21 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6007
LFS-2	0.25	M6016
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	M6158
1:1 HCL	5.00	MP85156
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#1CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/29/25 14:21	SKG. met. dig.	MB. metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168200

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168200BL	PBW200	<2	50	25	Colorless	Colorless	Clear	N/A	N/A	22
PB168200BS	LCS200	<2	50	25	Colorless	Colorless	Clear	N/A	M6007,M6016	23
Q2133-01	MW1	<2	50	25	light Brown	Colorless	Cloudy	N/A	N/A	24
Q2133-02	MW5	<2	50	25	light Brown	Colorless	Cloudy	N/A	N/A	25
Q2133-03	SUPPLY	<2	50	25	Colorless	Colorless	Clear	N/A	N/A	26
Q2133-03MS	SUPPLYMS	<2	50	25	Colorless	Colorless	Clear	N/A	M6007,M6016	28
Q2133-03MSD	SUPPLYMSD	<2	50	25	Colorless	Colorless	Clear	N/A	M6007,M6016	29
Q2133-03DUP	SUPPLYDUP	<2	50	25	Colorless	Colorless	Clear	N/A	N/A	27
Q2134-01	MW10	<2	50	25	Colorless	Colorless	Clear	N/A	N/A	30
Q2137-03	MOO-25-0149	<2	50	50	Pink	Colorless	Clear	N/A	N/A	31

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168200 **WorkList ID :** 189810 **Department :** Digestion **Date :** 05-29-2025 09:41:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2133-01	MW1	Water	Metals Group4	1:1 HNO3 to pH < 2	GENV01	L41	05/27/2025	6010D
Q2133-02	MW5	Water	Metals Group4	1:1 HNO3 to pH < 2	GENV01	L41	05/27/2025	6010D
Q2133-03	SUPPLY	Water	Metals Group4	1:1 HNO3 to pH < 2	GENV01	L41	05/27/2025	6010D
Q2134-01	MW10	Water	Metals Group3	1:1 HNO3 to pH < 2	GENV01	L41	05/27/2025	6010D
Q2137-03	MOO-25-0149	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	L31	05/28/2025	6010D

Date/Time 05/29/2025 10:05
Raw Sample Received by: sps.met.dig
Raw Sample Relinquished by: SM

Date/Time 05/29/2025 11:05
Raw Sample Received by: SM
Raw Sample Relinquished by: sps.met.dig

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/02/25 12:12		Jaswal	OK
2	S1	S1	CAL2	06/02/25 12:16		Jaswal	OK
3	S2	S2	CAL3	06/02/25 12:21		Jaswal	OK
4	S3	S3	CAL4	06/02/25 12:25		Jaswal	OK
5	S4	S4	CAL5	06/02/25 12:29		Jaswal	OK
6	S5	S5	CAL6	06/02/25 12:33		Jaswal	OK
7	ICV01	ICV01	ICV	06/02/25 12:37		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/02/25 12:59		Jaswal	OK
9	ICB01	ICB01	ICB	06/02/25 13:03		Jaswal	OK
10	CRI01	CRI01	CRDL	06/02/25 13:08		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/02/25 13:12		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/02/25 13:35		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/02/25 13:45		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/02/25 13:56		Jaswal	OK
15	CCV01	CCV01	CCV	06/02/25 14:14		Jaswal	OK
16	CCB01	CCB01	CCB	06/02/25 14:28		Jaswal	OK
17	Q2136-05	OR-646-COMP-52	SAM	06/02/25 14:32		Jaswal	OK
18	Q2143-01	ELI-46-36-25-58-53	SAM	06/02/25 14:37		Jaswal	OK

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Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

19	Q2143-02	ELI-57-43-35-26	SAM	06/02/25 14:41		Jaswal	OK
20	Q2146-04	TP04-MHN-WC	SAM	06/02/25 14:46		Jaswal	OK
21	Q2146-01	TP04-MHN-WC	SAM	06/02/25 14:50		Jaswal	OK
22	Q2146-01DUP	TP04-MHN-WCDUP	DUP	06/02/25 14:54		Jaswal	OK
23	Q2146-01L	TP04-MHN-WCL	SD	06/02/25 14:59		Jaswal	OK
24	Q2146-01MS	TP04-MHN-WCMS	MS	06/02/25 15:03		Jaswal	OK
25	Q2146-01MSD	TP04-MHN-WCMSD	MSD	06/02/25 15:07		Jaswal	OK
26	CCV02	CCV02	CCV	06/02/25 15:11		Jaswal	OK
27	CCB02	CCB02	CCB	06/02/25 15:16		Jaswal	OK
28	Q2146-01A	TP04-MHN-WCA	PS	06/02/25 15:20		Jaswal	OK
29	Q2102-05	LAW-25-0077	SAM	06/02/25 15:24		Jaswal	OK
30	Q2144-01	OILY-DEBRIS-COMP-	SAM	06/02/25 15:28		Jaswal	OK
31	Q2144-02	OILY-DEBRIS-COMP-	SAM	06/02/25 15:33		Jaswal	OK
32	Q2149-01	FILTER-CAKE	SAM	06/02/25 15:37		Jaswal	OK
33	Q2153-01	TR-04-0592025	SAM	06/02/25 15:42		Jaswal	OK
34	Q2152-01	OK-02-05292025	SAM	06/02/25 15:46		Jaswal	OK
35	Q2152-01DUP	OK-02-05292025DUP	DUP	06/02/25 15:50		Jaswal	OK
36	Q2152-01L	OK-02-05292025L	SD	06/02/25 15:54		Jaswal	OK
37	CCV03	CCV03	CCV	06/02/25 15:58		Jaswal	OK
38	CCB03	CCB03	CCB	06/02/25 16:02		Jaswal	OK

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Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

39	Q2152-01MS	OK-02-05292025MS	MS	06/02/25 16:06		Jaswal	OK
40	Q2152-01MSD	OK-02-05292025MSD	MSD	06/02/25 16:10		Jaswal	OK
41	Q2152-01A	OK-02-05292025A	PS	06/02/25 16:14		Jaswal	OK
42	Q2151-01	WC-1	SAM	06/02/25 16:18		Jaswal	OK
43	Q2151-04	WC-1	SAM	06/02/25 16:22		Jaswal	OK
44	Q2151-04DUP	WC-1DUP	DUP	06/02/25 16:27		Jaswal	OK
45	Q2151-04L	WC-1L	SD	06/02/25 16:31		Jaswal	OK
46	Q2151-04MS	WC-1MS	MS	06/02/25 16:36		Jaswal	OK
47	Q2151-04MSD	WC-1MSD	MSD	06/02/25 16:40		Jaswal	OK
48	CCV04	CCV04	CCV	06/02/25 16:49		Jaswal	OK
49	CCB04	CCB04	CCB	06/02/25 16:55		Jaswal	OK
50	Q2151-04A	WC-1A	PS	06/02/25 17:00		Jaswal	OK
51	Q2137-03DL	MOO-25-0149DL	SAM	06/02/25 17:04	Straight 5x for all elements	Jaswal	OK
52	PB168190TB	PB168190TB	MB	06/02/25 17:08		Jaswal	OK
53	PB168214BL	PB168214BL	MB	06/02/25 17:13		Jaswal	OK
54	PB168214BS	PB168214BS	LCS	06/02/25 17:17		Jaswal	OK
55	PB168215BL	PB168215BL	MB	06/02/25 17:21		Jaswal	OK
56	PB168215BS	PB168215BS	LCS	06/02/25 17:25		Jaswal	OK
57	PB168200BL	PB168200BL	MB	06/02/25 17:29		Jaswal	OK
58	PB168200BS	PB168200BS	LCS	06/02/25 17:34		Jaswal	OK

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Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

59	CCV05	CCV05	CCV	06/02/25 17:38		Jaswal	OK
60	CCB05	CCB05	CCB	06/02/25 17:42		Jaswal	OK
61	Q2150-01	TP-44	SAM	06/02/25 17:47		Jaswal	OK
62	Q2150-02	TP-42	SAM	06/02/25 17:51		Jaswal	OK
63	Q2150-03	TP-39	SAM	06/02/25 17:55		Jaswal	OK
64	Q2150-04	TP-48	SAM	06/02/25 17:59		Jaswal	OK
65	Q2150-05	TP-47	SAM	06/02/25 18:03		Jaswal	OK
66	Q2150-06	TP-50	SAM	06/02/25 18:07		Jaswal	OK
67	Q2150-07	TP-51	SAM	06/02/25 18:12		Jaswal	OK
68	Q2150-08	TP-52	SAM	06/02/25 18:16		Jaswal	OK
69	Q2150-09	TP-54	SAM	06/02/25 18:20		Jaswal	OK
70	CCV06	CCV06	CCV	06/02/25 18:24		Jaswal	OK
71	CCB06	CCB06	CCB	06/02/25 18:28		Jaswal	OK
72	Q2150-10	TP-53	SAM	06/02/25 18:33		Jaswal	OK
73	Q2133-01	MW1	SAM	06/02/25 18:37		Jaswal	OK
74	Q2133-02	MW5	SAM	06/02/25 18:41	NOT USE	Jaswal	Not Ok
75	Q2133-03	SUPPLY	SAM	06/02/25 18:45	NOT USE	Jaswal	Not Ok
76	Q2133-03DUP	SUPPLYDUP	DUP	06/02/25 18:50	NOT USE	Jaswal	Not Ok
77	Q2133-03L	SUPPLYL	SD	06/02/25 18:54	NOT USE	Jaswal	Not Ok
78	Q2133-03MS	SUPPLYMS	MS	06/02/25 18:59	NOT USE	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

79	Q2133-03MSD	SUPPLYMSD	MSD	06/02/25 19:03	NOT USE	Jaswal	Not Ok
80	Q2133-03A	SUPPLYA	PS	06/02/25 19:07	NOT USE	Jaswal	Not Ok
81	CCV07	CCV07	CCV	06/02/25 19:11		Jaswal	OK
82	CCB07	CCB07	CCB	06/02/25 19:15		Jaswal	OK
83	Q2134-01	MW10	SAM	06/02/25 19:19	NOT USE	Jaswal	Not Ok
84	Q2101-01	TP-1-MHE	SAM	06/02/25 19:24	NOT USE	Jaswal	Not Ok
85	Q2101-01DUP	TP-1-MHEDUP	DUP	06/02/25 19:28	NOT USE	Jaswal	Not Ok
86	Q2101-01L	TP-1-MHEL	SD	06/02/25 19:32	NOT USE	Jaswal	Not Ok
87	Q2101-01MS	TP-1-MHEMS	MS	06/02/25 19:36	NOT USE	Jaswal	Not Ok
88	Q2101-01MSD	TP-1-MHEMSD	MSD	06/02/25 19:40	NOT USE	Jaswal	Not Ok
89	Q2101-01A	TP-1-MHEA	PS	06/02/25 19:45	NOT USE	Jaswal	Not Ok
90	Q2159-01	TP05-MHO-WC	SAM	06/02/25 19:49	NOT USE	Jaswal	Not Ok
91	Q2160-01	TP04-MHG-WC	SAM	06/02/25 19:53		Jaswal	OK
92	CCV08	CCV08	CCV	06/02/25 19:57		Jaswal	OK
93	CCB08	CCB08	CCB	06/02/25 20:01		Jaswal	OK
94	Q2172-01	TP06-MHQ	SAM	06/02/25 20:06	NOT USE	Jaswal	Not Ok
95	Q2172-01DUP	TP06-MHQDUP	DUP	06/02/25 20:10	NOT USE	Jaswal	Not Ok
96	Q2172-01L	TP06-MHQL	SD	06/02/25 20:14	NOT USE	Jaswal	Not Ok
97	Q2172-01MS	TP06-MHQMS	MS	06/02/25 20:18	NOT USE	Jaswal	Not Ok
98	Q2172-01MSD	TP06-MHQMSD	MSD	06/02/25 20:23	NOT USE	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	Janvi	Supervise On	6/4/2025 10:58:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

99	Q2172-01A	TP06-MHQA	PS	06/02/25 20:27	NOT USE	Jaswal	Not Ok
100	Q2173-01	OR-400-CF-402B-CO	SAM	06/02/25 20:32	NOT USE	Jaswal	Not Ok
101	Q2173-07	OR-400-CF-402B-CO	SAM	06/02/25 20:36	NOT USE	Jaswal	Not Ok
102	Q2173-13	OR-400-CF-402B-CO	SAM	06/02/25 20:41	NOT USE	Jaswal	Not Ok
103	CCV09	CCV09	CCV	06/02/25 20:45		Jaswal	OK
104	CCB09	CCB09	CCB	06/02/25 20:49		Jaswal	OK
105	PB168236BL	PB168236BL	MB	06/02/25 20:54	NOT USE	Jaswal	Not Ok
106	PB168236BS	PB168236BS	LCS	06/02/25 20:58	NOT USE	Jaswal	Not Ok
107	Q2175-02	52725	SAM	06/02/25 21:02	NOT USE	Jaswal	Not Ok
108	CCV10	CCV10	CCV	06/02/25 21:06	CCV fail for all elements	Jaswal	OK
109	CCB10	CCB10	CCB	06/02/25 21:11		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135993

Review By	jaswal	Review On	6/4/2025 11:10:08 AM
Supervise By	mohan	Supervise On	6/4/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/03/25 12:59		Jaswal	OK
2	S1	S1	CAL2	06/03/25 13:03		Jaswal	OK
3	S2	S2	CAL3	06/03/25 13:07		Jaswal	OK
4	S3	S3	CAL4	06/03/25 13:12		Jaswal	OK
5	S4	S4	CAL5	06/03/25 13:16		Jaswal	OK
6	S5	S5	CAL6	06/03/25 13:20		Jaswal	OK
7	ICV01	ICV01	ICV	06/03/25 13:57		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/03/25 14:11		Jaswal	OK
9	ICB01	ICB01	ICB	06/03/25 14:16		Jaswal	OK
10	CRI01	CRI01	CRDL	06/03/25 14:36		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/03/25 14:46		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/03/25 15:06		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/03/25 15:16		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/03/25 15:22		Jaswal	OK
15	CCV01	CCV01	CCV	06/03/25 15:28		Jaswal	OK
16	CCB01	CCB01	CCB	06/03/25 15:34		Jaswal	OK
17	Q2130-02	TP-3	SAM	06/03/25 15:38		Jaswal	OK
18	Q2133-02	MW5	SAM	06/03/25 15:42	Na oversaturated	Jaswal	Dilution

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135993

Review By	jaswal	Review On	6/4/2025 11:10:08 AM
Supervise By	mohan	Supervise On	6/4/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

19	Q2133-03	SUPPLY	SAM	06/03/25 15:47		Jaswal	OK
20	Q2133-03DUP	SUPPLYDUP	DUP	06/03/25 15:51		Jaswal	OK
21	Q2133-03L	SUPPLYL	SD	06/03/25 15:55		Jaswal	OK
22	Q2133-03MS	SUPPLYMS	MS	06/03/25 15:59		Jaswal	OK
23	Q2133-03MSD	SUPPLYMSD	MSD	06/03/25 16:03		Jaswal	OK
24	Q2133-03A	SUPPLYA	PS	06/03/25 16:07		Jaswal	OK
25	Q2175-02	52725	SAM	06/03/25 16:11		Jaswal	OK
26	CCV02	CCV02	CCV	06/03/25 16:16		Jaswal	OK
27	CCB02	CCB02	CCB	06/03/25 16:20		Jaswal	OK
28	Q2134-01	MW10	SAM	06/03/25 16:24		Jaswal	OK
29	Q2101-01	TP-1-MHE	SAM	06/03/25 16:29		Jaswal	OK
30	Q2101-01DUP	TP-1-MHEDUP	DUP	06/03/25 16:33		Jaswal	OK
31	Q2101-01L	TP-1-MHEL	SD	06/03/25 16:37		Jaswal	OK
32	Q2101-01MS	TP-1-MHEMS	MS	06/03/25 16:41		Jaswal	OK
33	Q2101-01MSD	TP-1-MHEMSD	MSD	06/03/25 16:45		Jaswal	OK
34	Q2101-01A	TP-1-MHEA	PS	06/03/25 16:49		Jaswal	OK
35	PB168236BL	PB168236BL	MB	06/03/25 16:53		Jaswal	OK
36	PB168236BS	PB168236BS	LCS	06/03/25 16:58		Jaswal	OK
37	Q2133-02DL	MW5DL	SAM	06/03/25 17:02	5x for Na	Jaswal	Confirms
38	CCV03	CCV03	CCV	06/03/25 17:06		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135993

Review By	jaswal	Review On	6/4/2025 11:10:08 AM
Supervise By	mohan	Supervise On	6/4/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

39	CCB03	CCB03	CCB	06/03/25 17:10		Jaswal	OK
40	Q2172-01	TP06-MHQ	SAM	06/03/25 17:15	DUP fail for many parameters	Jaswal	Not Ok
41	Q2172-01DUP	TP06-MHQDUP	DUP	06/03/25 17:19	DUP fail for many parameters	Jaswal	Not Ok
42	Q2172-01L	TP06-MHQL	SD	06/03/25 17:33	DUP fail for many parameters	Jaswal	Not Ok
43	Q2172-01MS	TP06-MHQMS	MS	06/03/25 17:37	DUP fail for many parameters	Jaswal	Not Ok
44	Q2172-01MSD	TP06-MHQMSD	MSD	06/03/25 17:41	DUP fail for many parameters	Jaswal	Not Ok
45	Q2172-01A	TP06-MHQA	PS	06/03/25 17:45	DUP fail for many parameters	Jaswal	Not Ok
46	Q2173-07	OR-400-CF-402B-CO	SAM	06/03/25 17:49		Jaswal	OK
47	Q2173-13	OR-400-CF-402B-CO	SAM	06/03/25 17:53		Jaswal	OK
48	Q2159-01	TP05-MHO-WC	SAM	06/03/25 17:57		Jaswal	OK
49	Q2173-01	OR-400-CF-402B-CO	SAM	06/03/25 18:01		Jaswal	OK
50	CCV04	CCV04	CCV	06/03/25 18:57		Jaswal	OK
51	CCB04	CCB04	CCB	06/03/25 19:01		Jaswal	OK
52	Q2159-04	TP05-MHO-WC	SAM	06/03/25 19:06		Jaswal	OK
53	Q2160-04	TP04-MHG-WC	SAM	06/03/25 19:10		Jaswal	OK
54	Q2160-08	TP05-MHH-WC	SAM	06/03/25 19:15		Jaswal	OK
55	Q2173-06	OR-400-CF-402B-CO	SAM	06/03/25 19:22		Jaswal	OK
56	Q2173-12	OR-400-CF-402B-CO	SAM	06/03/25 19:26		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135993

Review By	jaswal	Review On	6/4/2025 11:10:08 AM
Supervise By	mohan	Supervise On	6/4/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

57	Q2173-18	OR-400-CF-402B-CO	SAM	06/03/25 19:31		Jaswal	OK
58	CCV05	CCV05	CCV	06/03/25 19:35		Jaswal	OK
59	CCB05	CCB05	CCB	06/03/25 19:39		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2133

Test : Metals Group4

Prepbatch ID : PB168200,

Sequence ID/Qc Batch ID: LB135981,LB135981,LB135981,LB135993,LB135993,

Standard ID :
MP85156,MP85545,MP85546,MP85547,MP85548,MP85549,MP85551,MP85552,MP85553,MP85554,MP85555,MP85556,MP85557,MP85558,

Chemical ID :
M5429,M5466,M5467,M5470,M5471,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5815,M5816,M5817,M5820,M5875,M5942,M5959,M5962,M5970,M5985,M5997,M6007,M6016,M6021,M6023,M6028,M6030,M6032,M6058,M6076,M6077,M6127,M6128,M6137,M6138,M6142,M6144,M6145,M6146,M6150,M6151,M6152,M6155,M6158,M6159,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP85156	04/07/2025	08/18/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 04/07/2025

FROM 1250.00000ml of M6151 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP85545	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6158 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP85546	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 5.00000ml of M5466 + 5.00000ml of M5471 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M5997 + 5.00000ml of M6076 + 5.00000ml of M6146 + 455.00000ml of MP85545 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP85547	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 50.00000ml of MP85545 + 50.00000ml of MP85546 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP85548	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 25.00000ml of MP85546 + 75.00000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP85549	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 16.00000ml of MP85546 + 184.00000ml of MP85545 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP85551	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.05000ml of M6159 + 0.06000ml of M5747 + 0.10000ml of M5471 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6145 + 0.25000ml of M5466 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6138 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP85552	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 2.00000ml of MP85551 + 98.00000ml of MP85545 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP85553	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5467 + 0.25000ml of M5470 + 0.25000ml of M6058 + 10.00000ml of M6150 + 89.32500ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP85554	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP85545 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP85555	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5470 + 0.10000ml of M5970 + 0.10000ml of M6077 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.68000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP85556	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 50.00000ml of MP85545 + 50.00000ml of MP85546 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP85557	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6158 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP85558	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 200.00000ml of M6158 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	04/14/2025 / jaswal	03/16/2023 / jaswal	M5470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	04/14/2025 / jaswal	03/16/2023 / jaswal	M5471

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	12/21/2027	02/03/2025 / JANVI	02/22/2024 / kareem	M5997

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	05/27/2026	05/27/2025 / Janvi	05/14/2024 / Jaswal	M6007

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	10/30/2025	04/30/2025 / mohan	05/14/2024 / Jaswal	M6016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	01/01/2026	01/01/2025 / kareem	09/19/2024 / kareem	M6076

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	121824	12/18/2027	04/17/2025 / Janvi	01/13/2025 / Jaswal	M6138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

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)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	06/20/2025	02/10/2025 / kareem	02/09/2024 / kareem	M6155

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

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

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

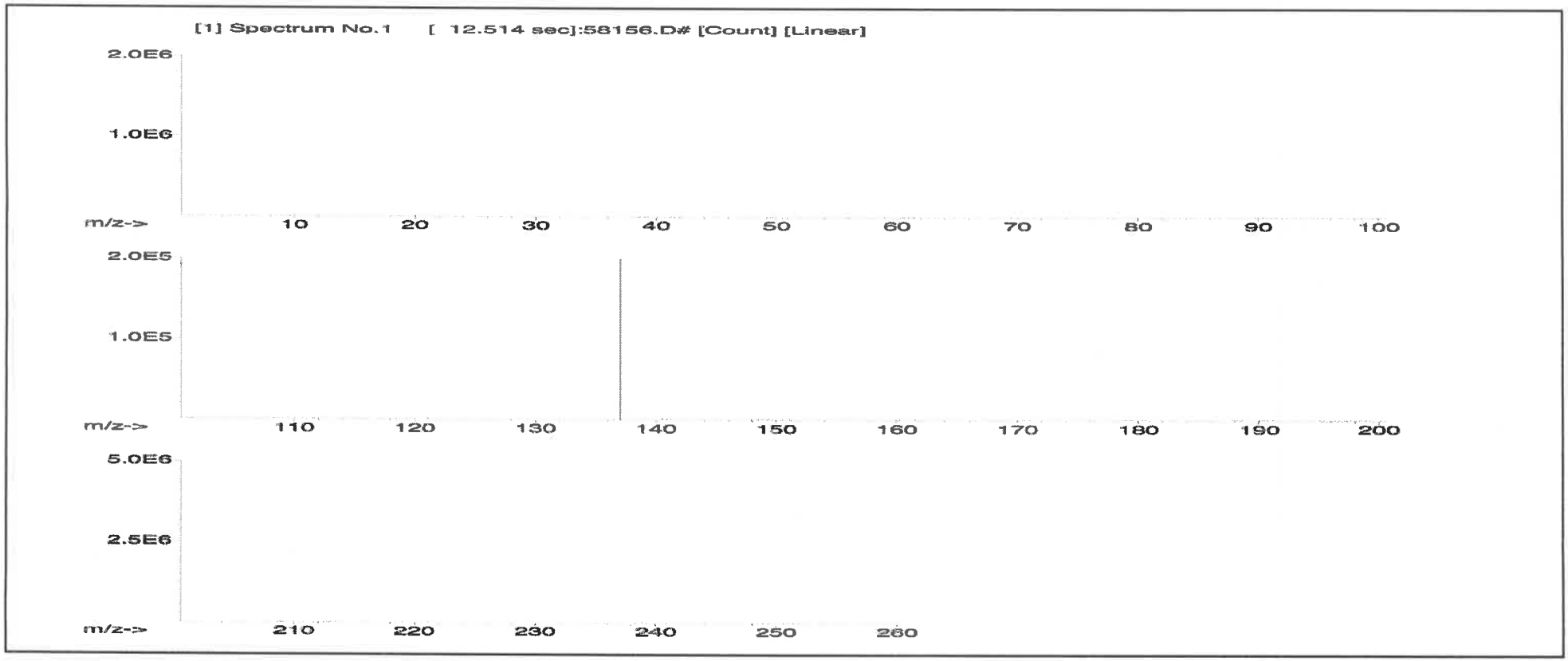
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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M6028

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https://Absolutestandards.com

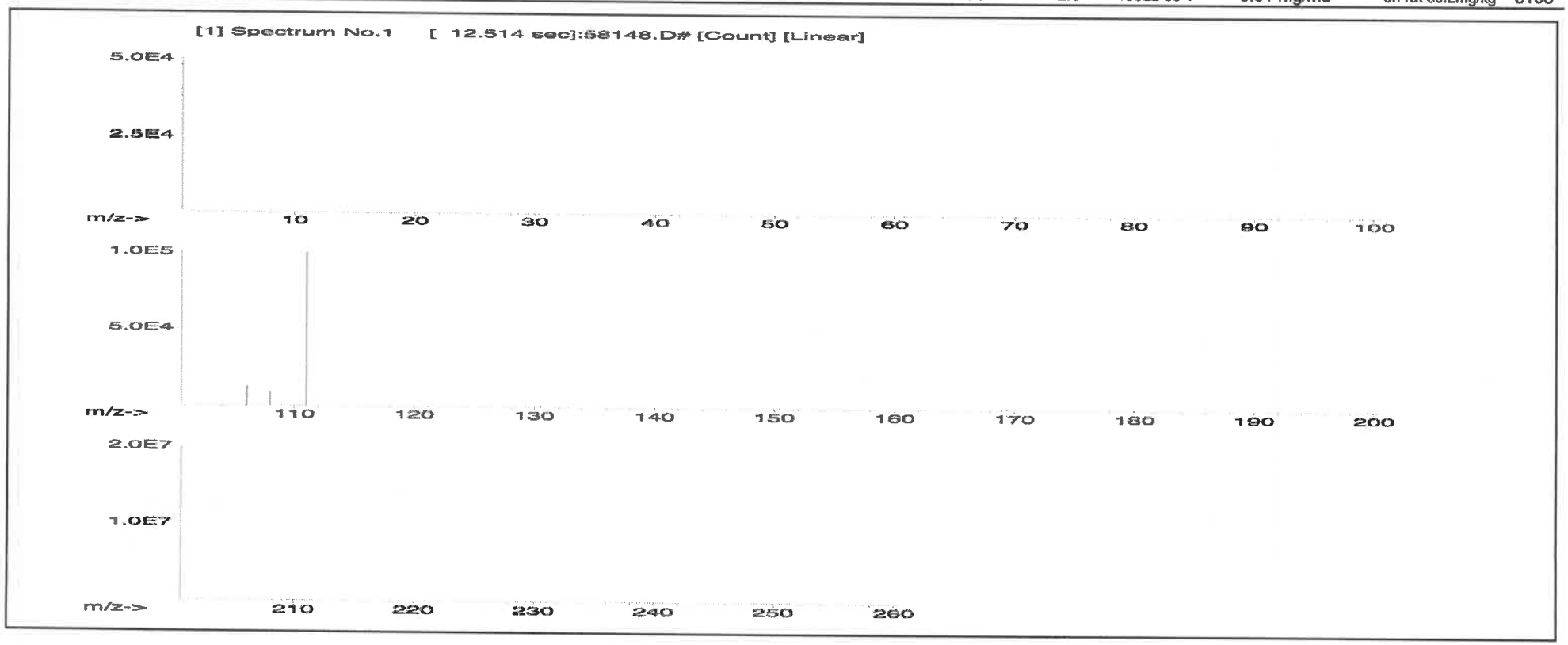
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

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

11.2 Lot Expiration Date

- **January 27, 2027**

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

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

11.3 Period of Validity

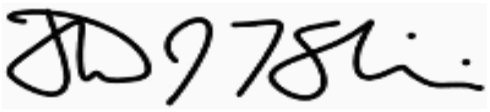
- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R : 01/03/24. M5810, M5811

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

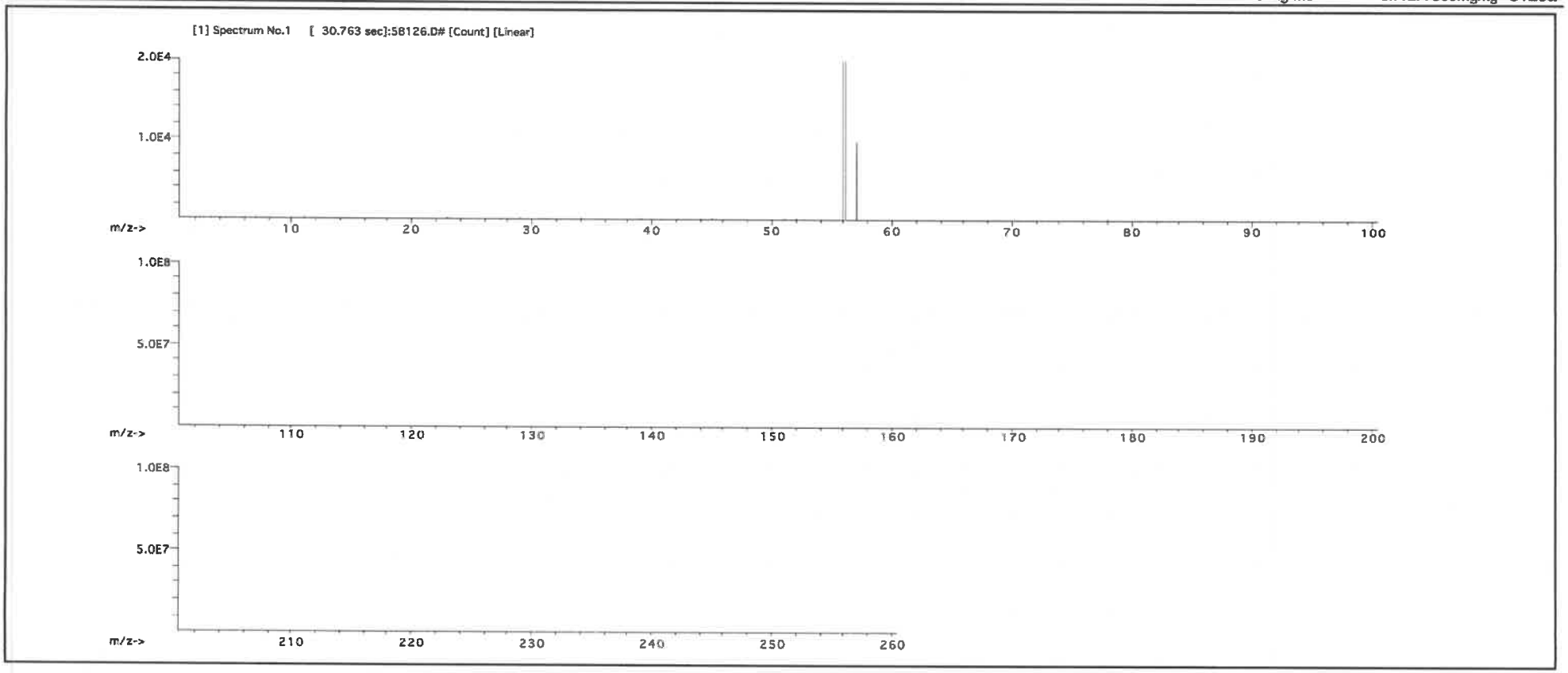
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™

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Certificate of Analysis

RD:05/14/2024

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

Assay Information:

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

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

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

11.2 Lot Expiration Date

- **August 30, 2026**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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RD:05/14/2024

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

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

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

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

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

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

11.2 Lot Expiration Date

- March 17, 2028

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

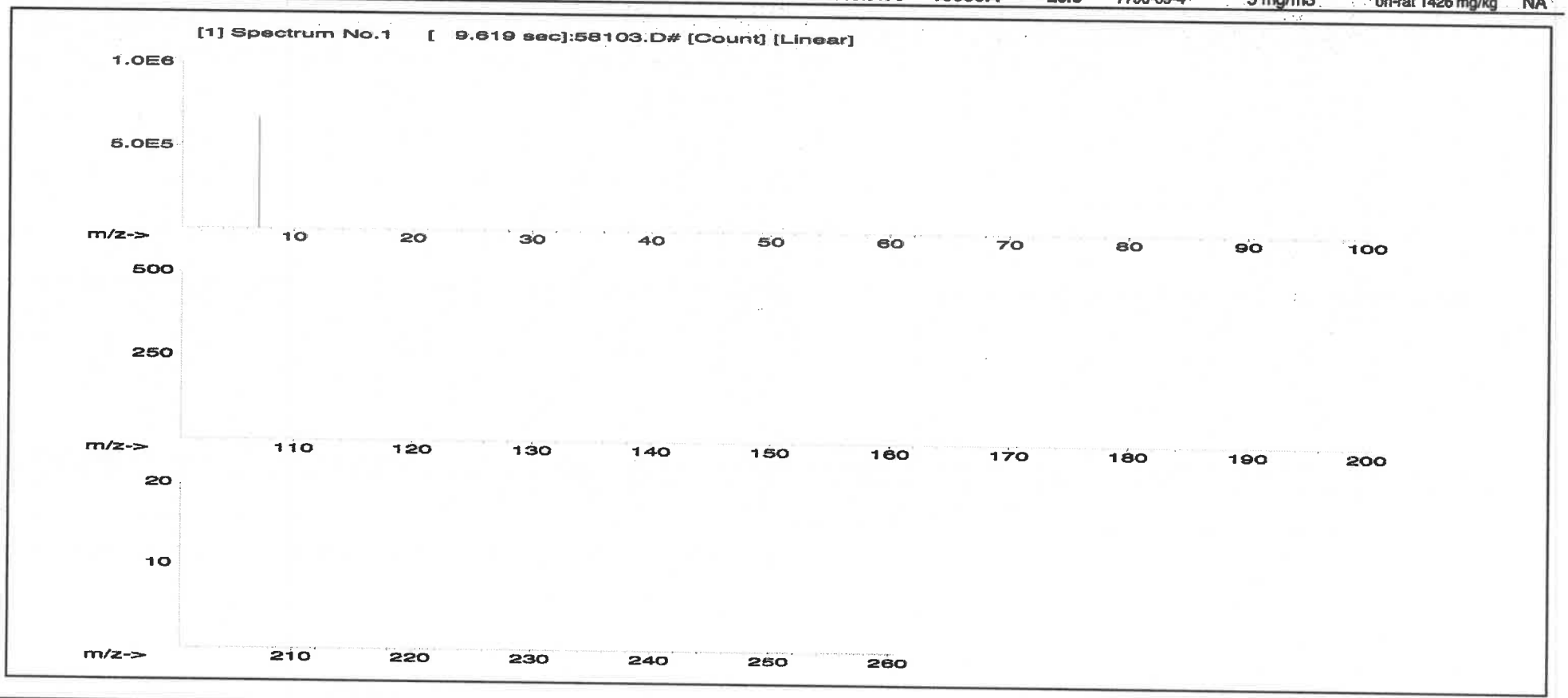
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

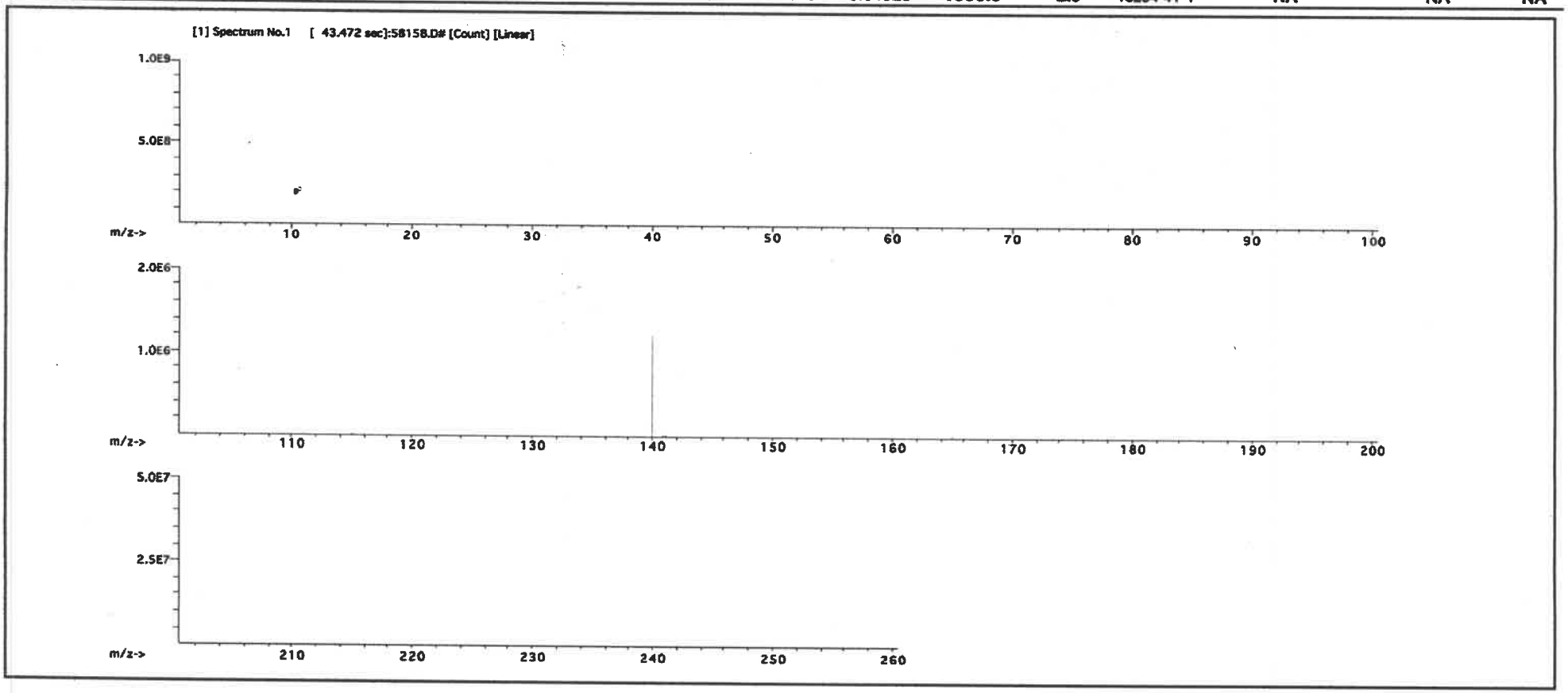
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	061322
Reviewed By:	Pedro L. Rentas	061322

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04923	1000.0	2.0	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

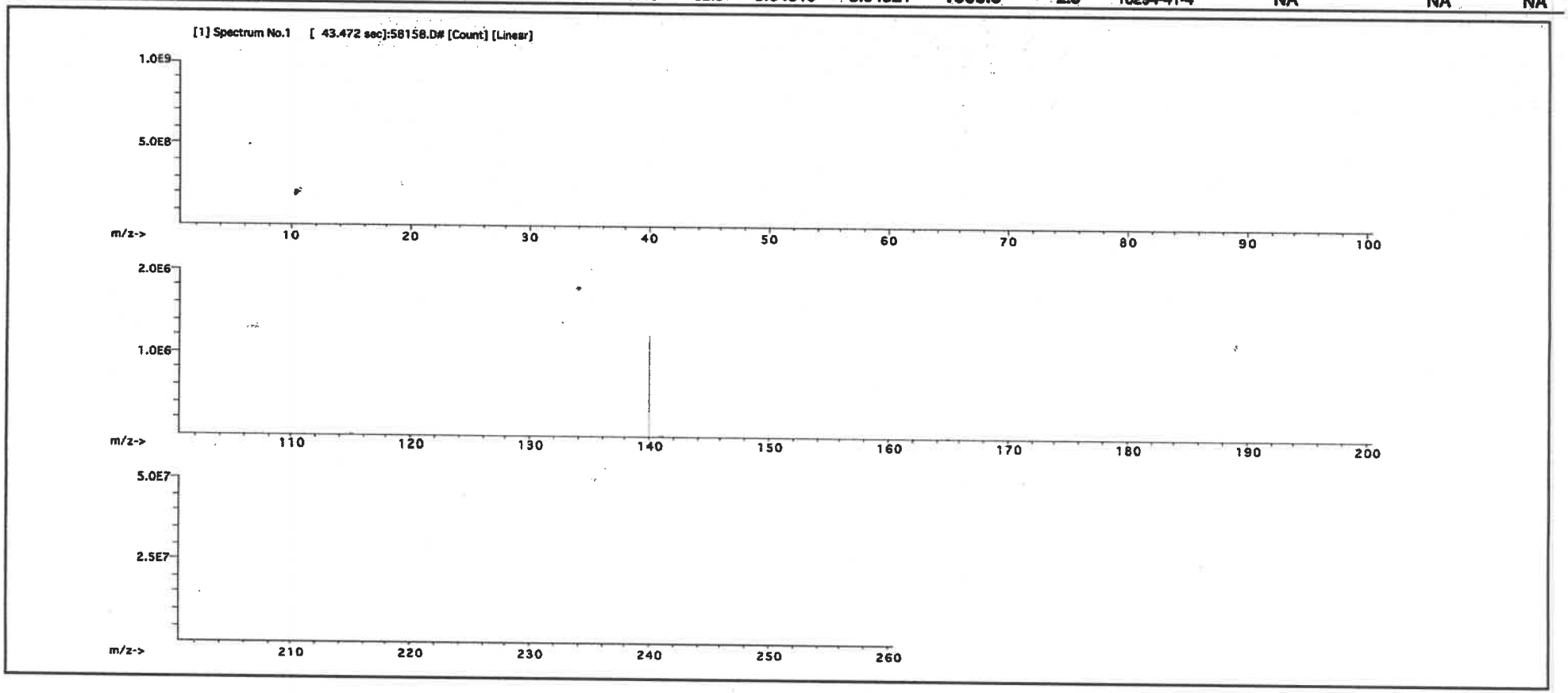
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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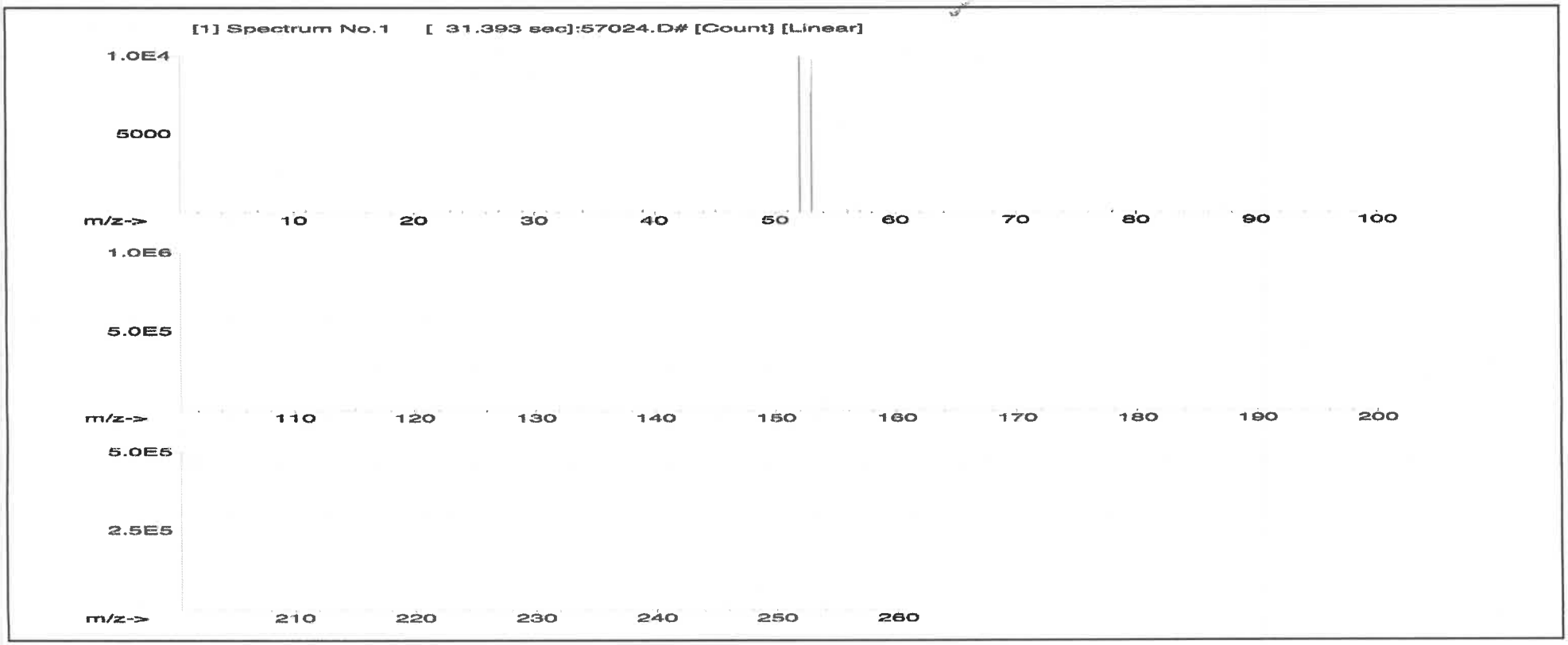
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

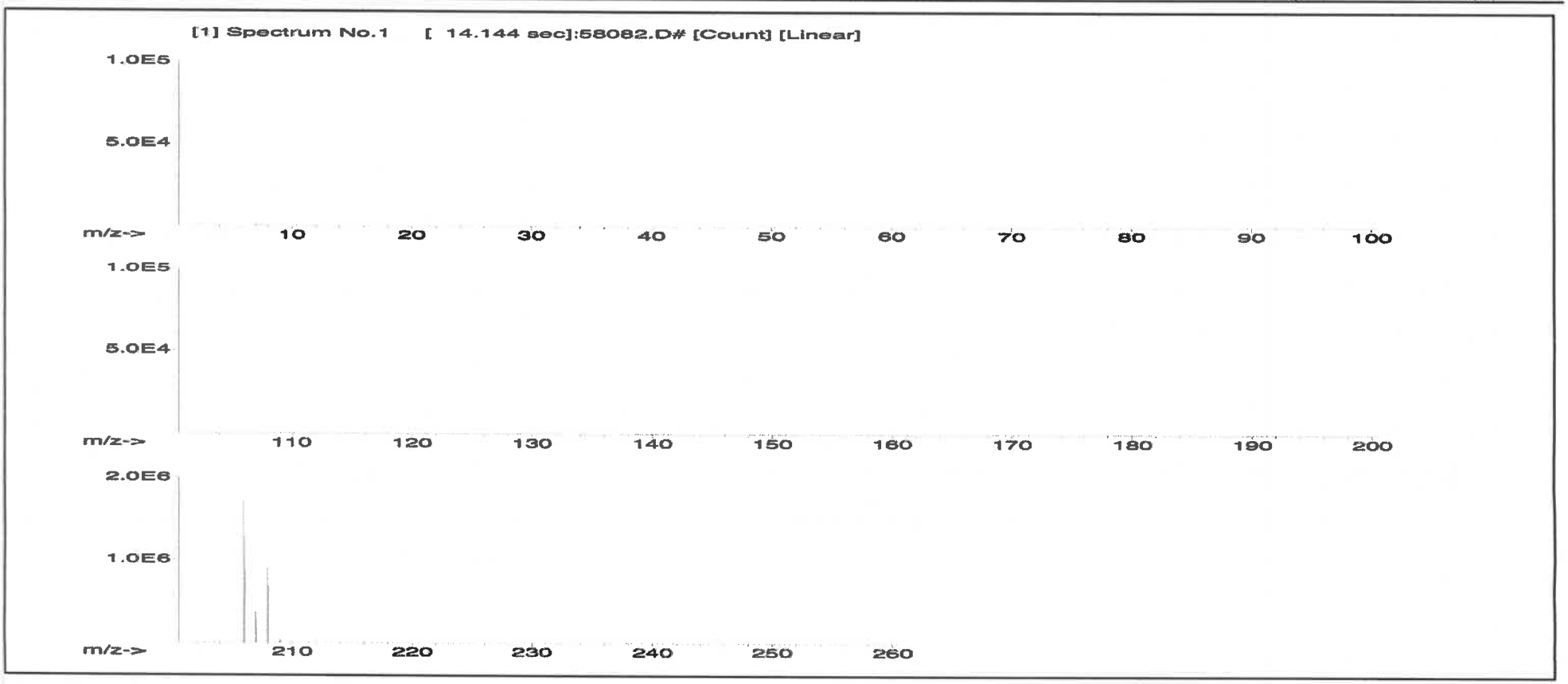
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 12/20/23 M5748

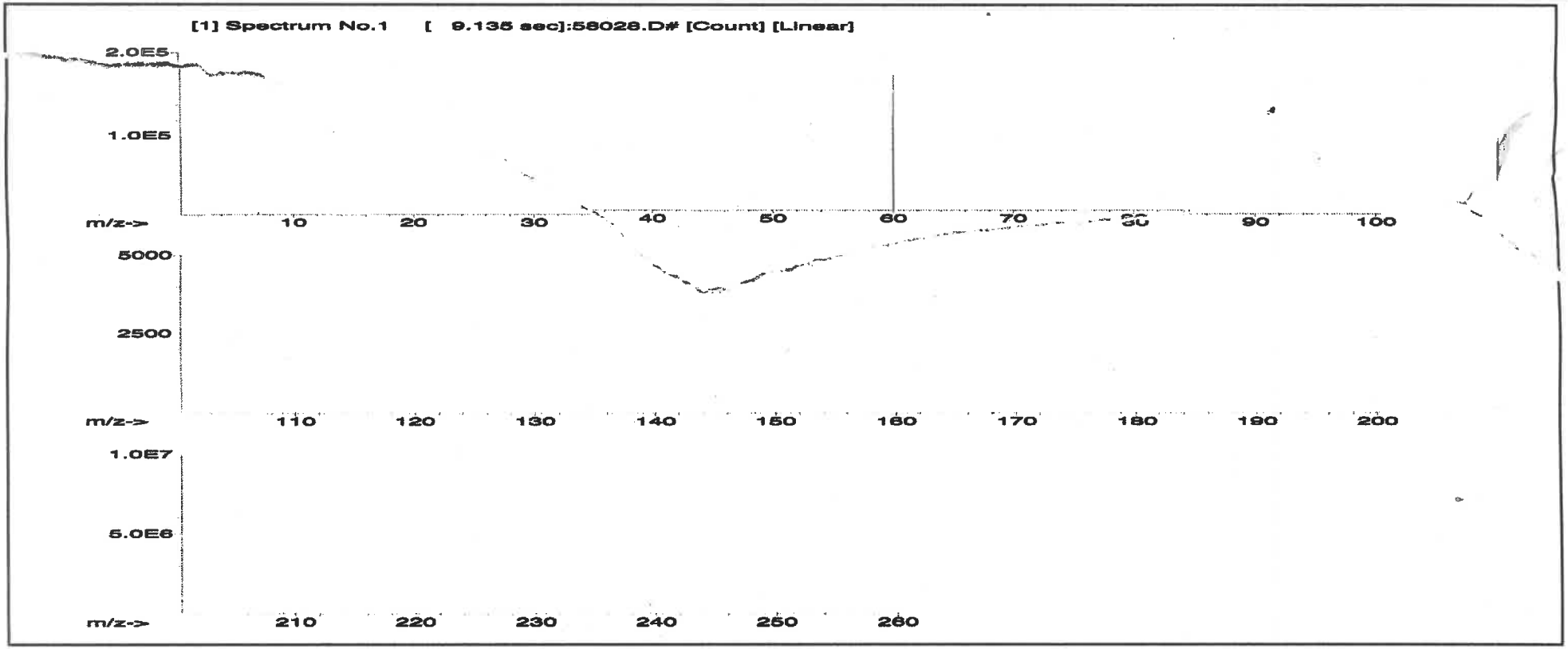
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/25/23 M5751

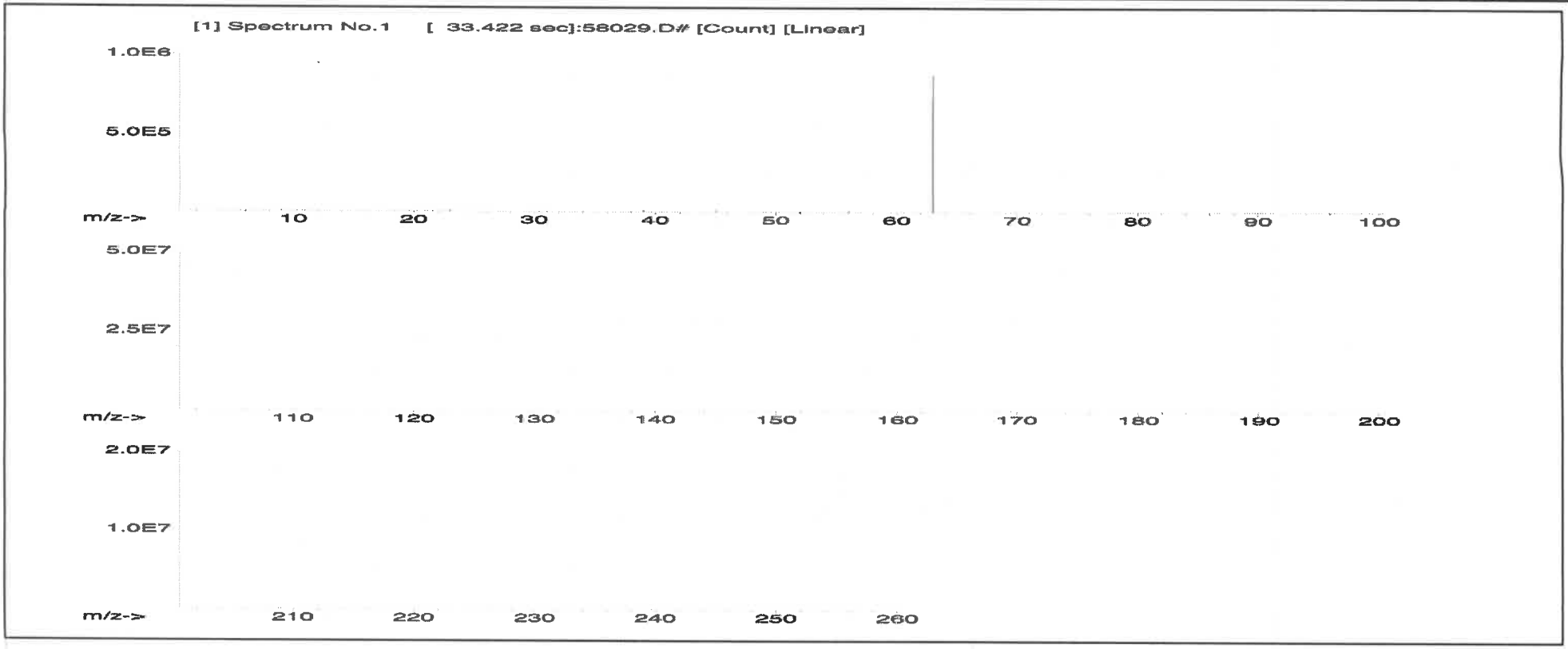
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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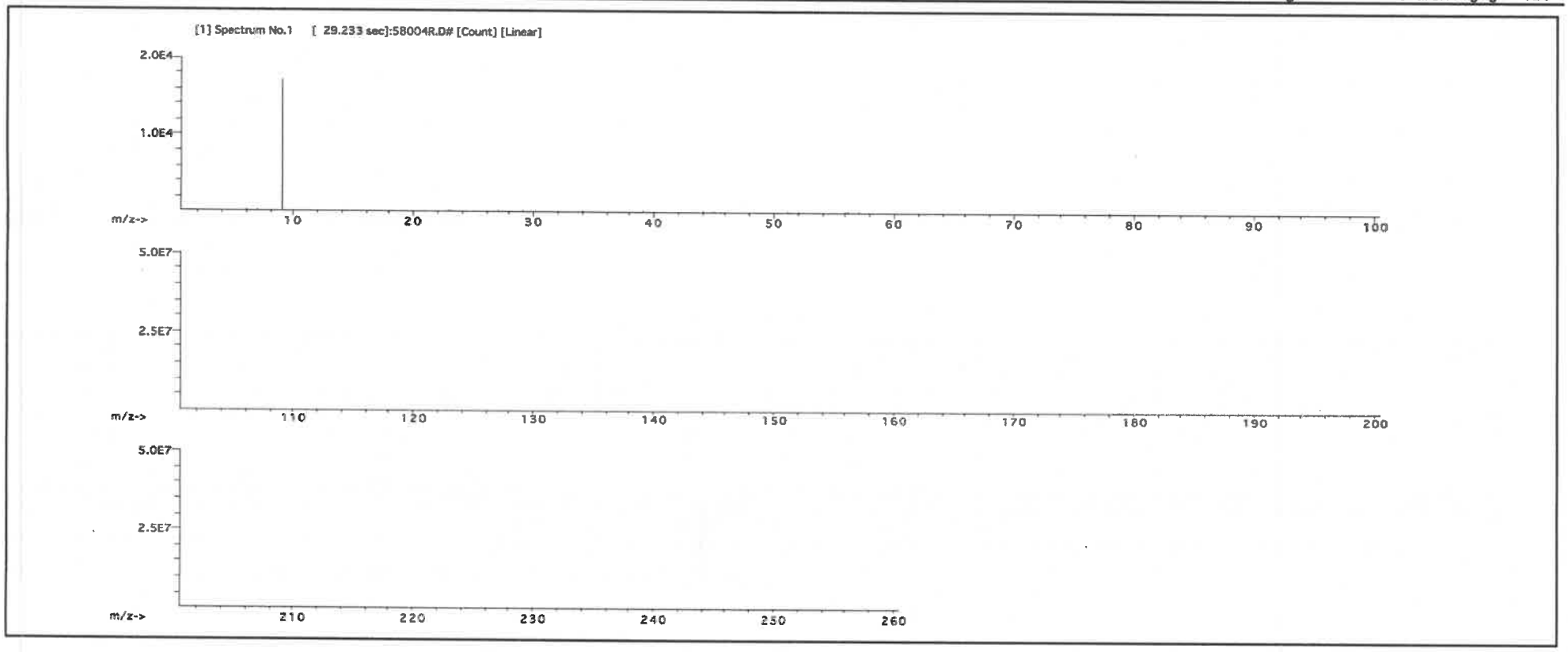
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

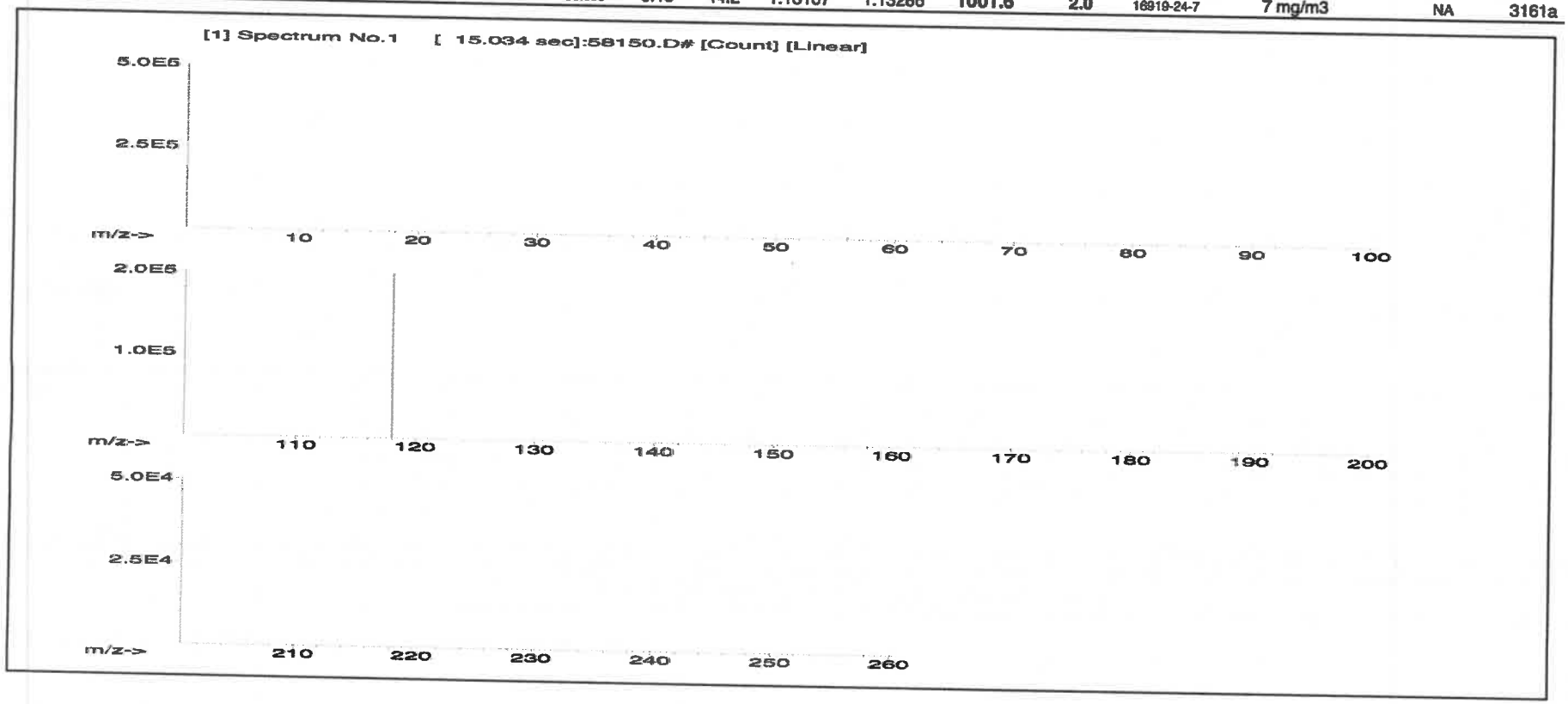
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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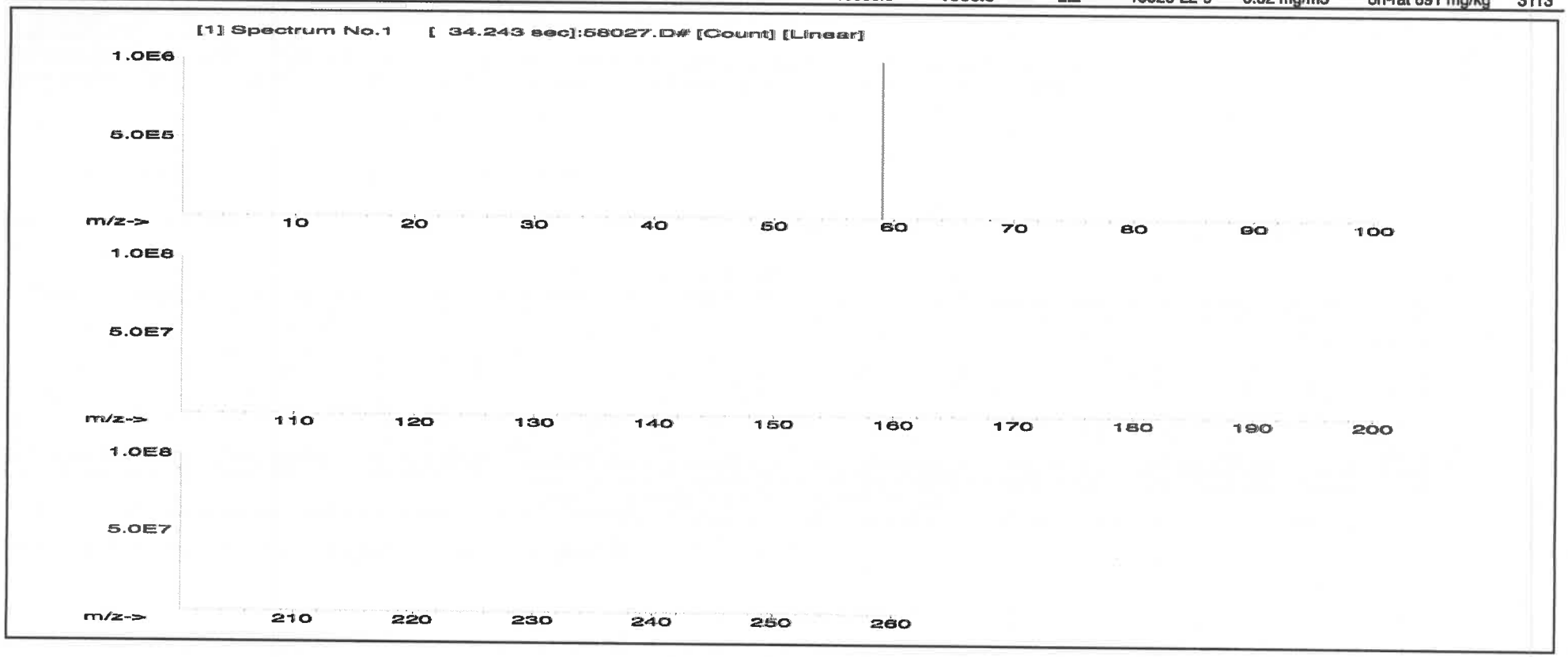
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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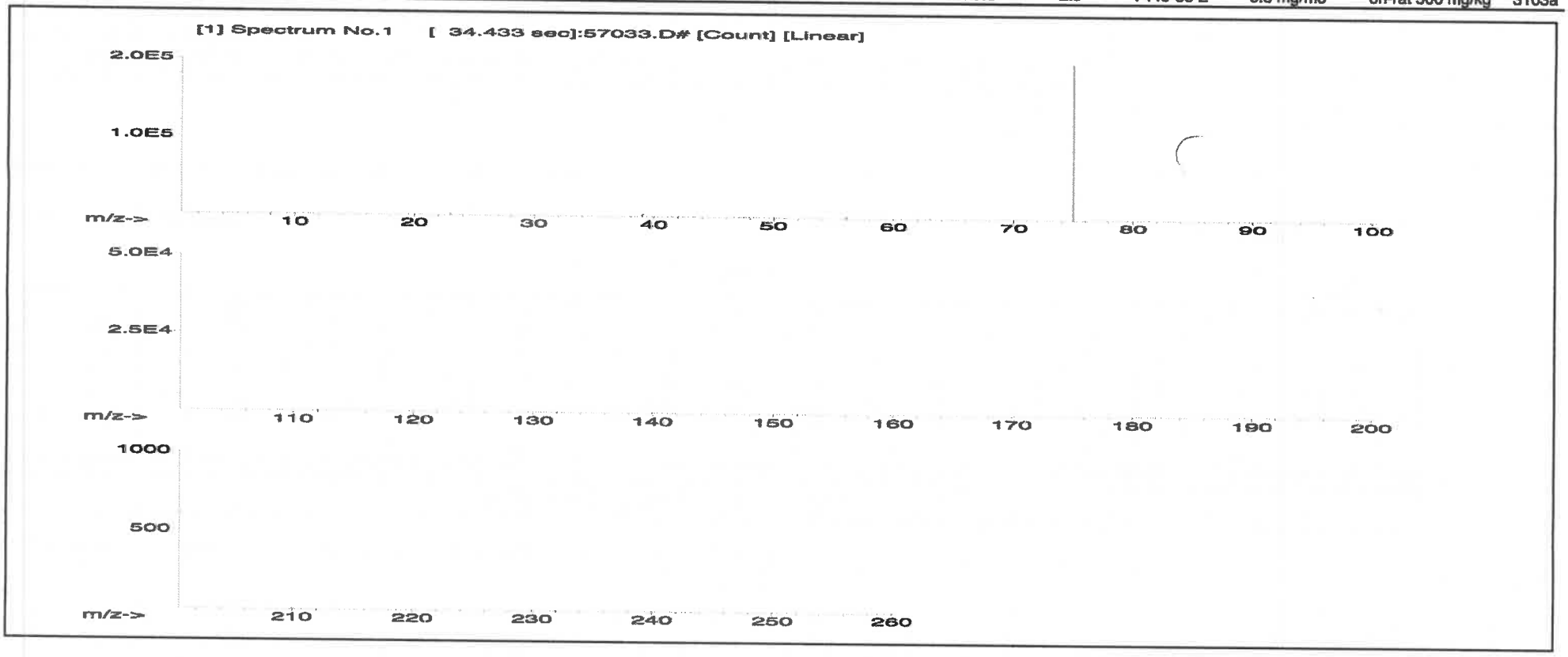
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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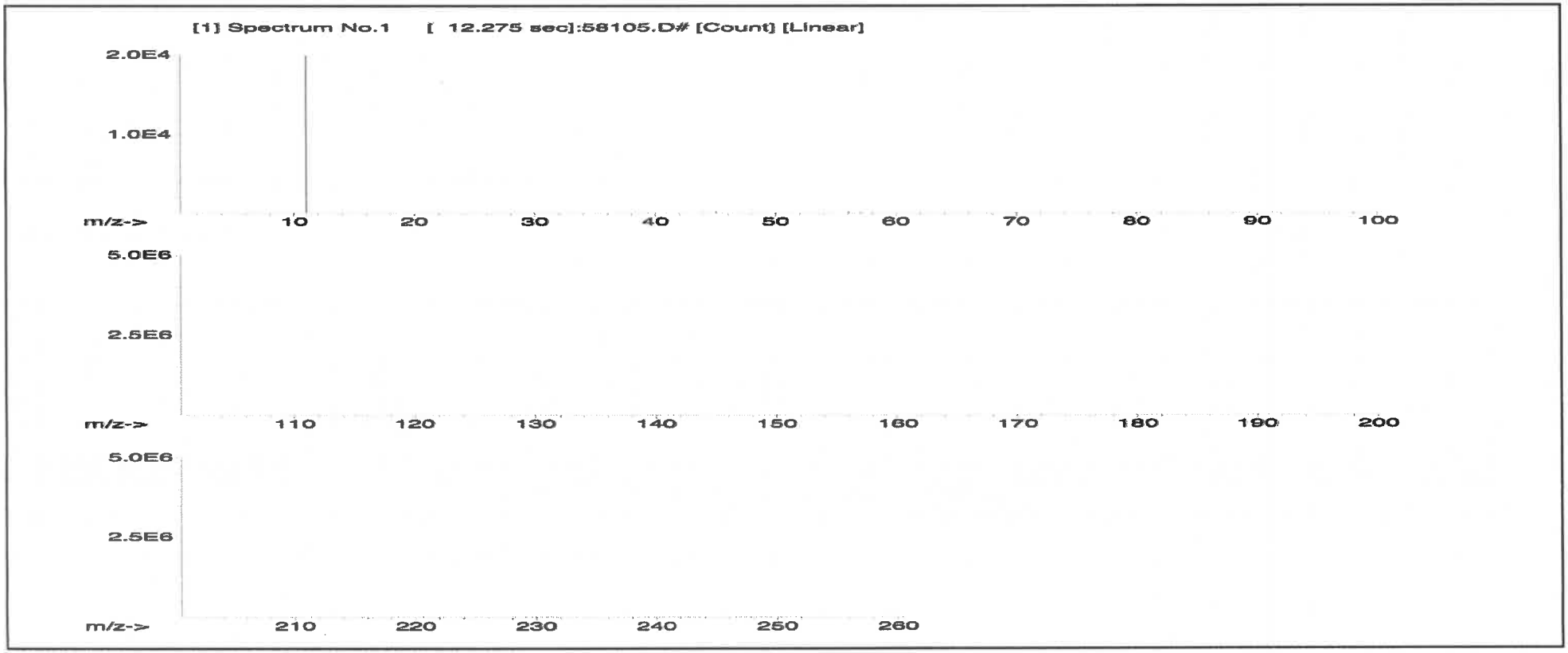
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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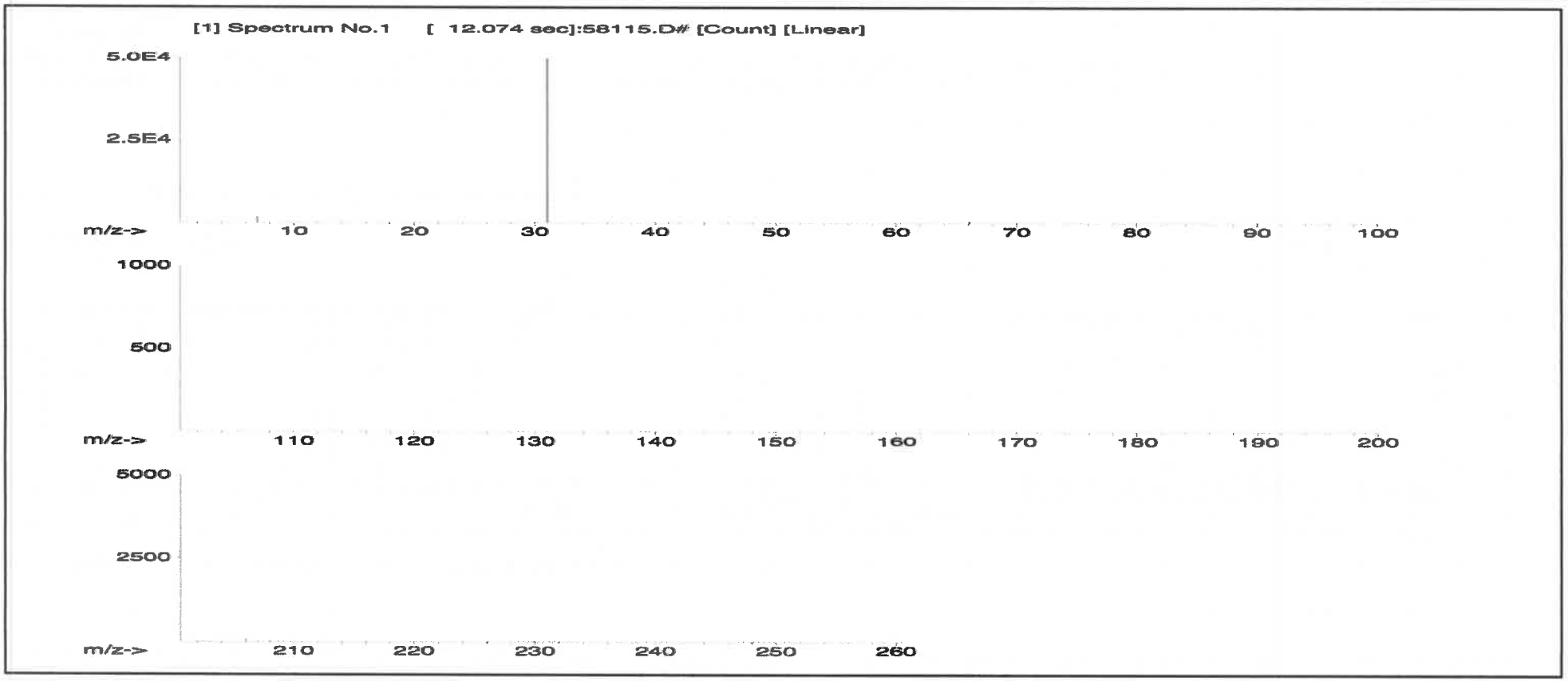
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5816

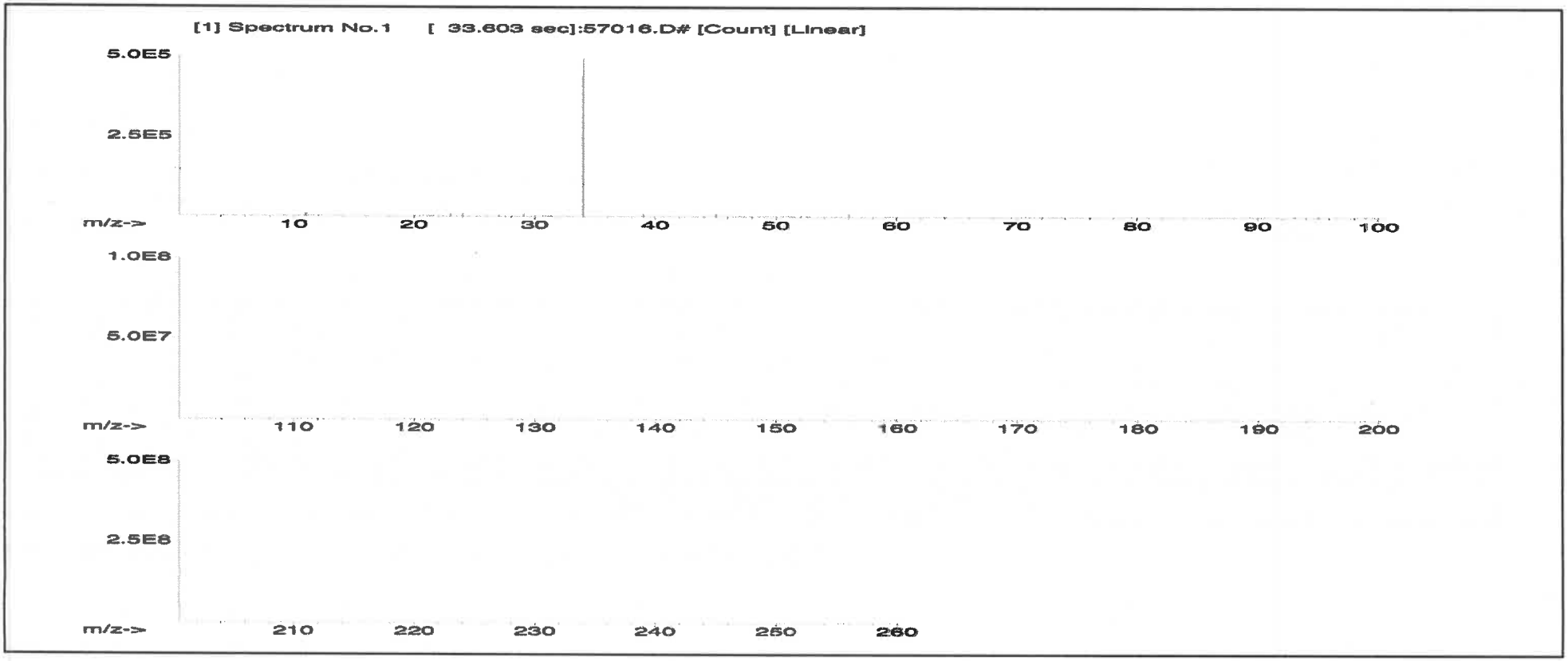
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5817

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

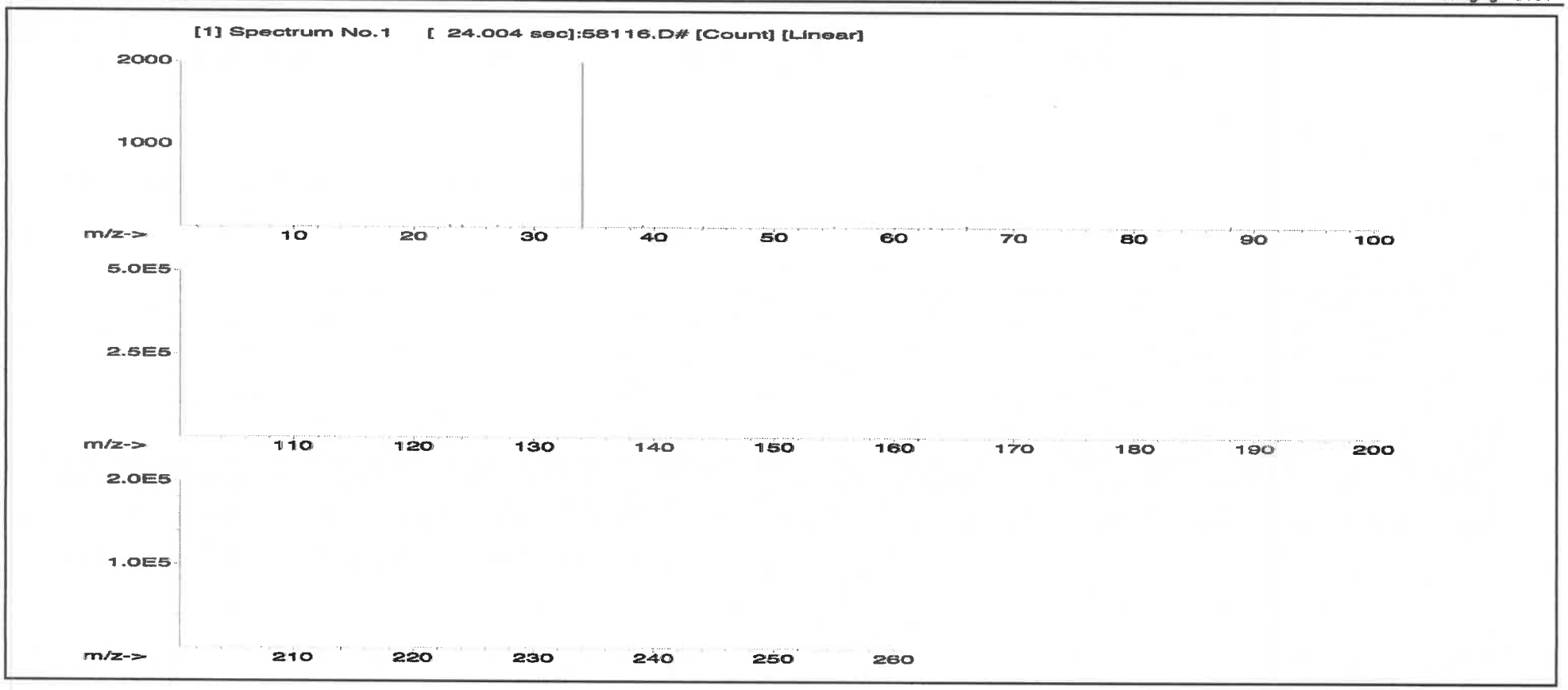
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Certified Reference Material CRM

R: 02/09/24 M5820

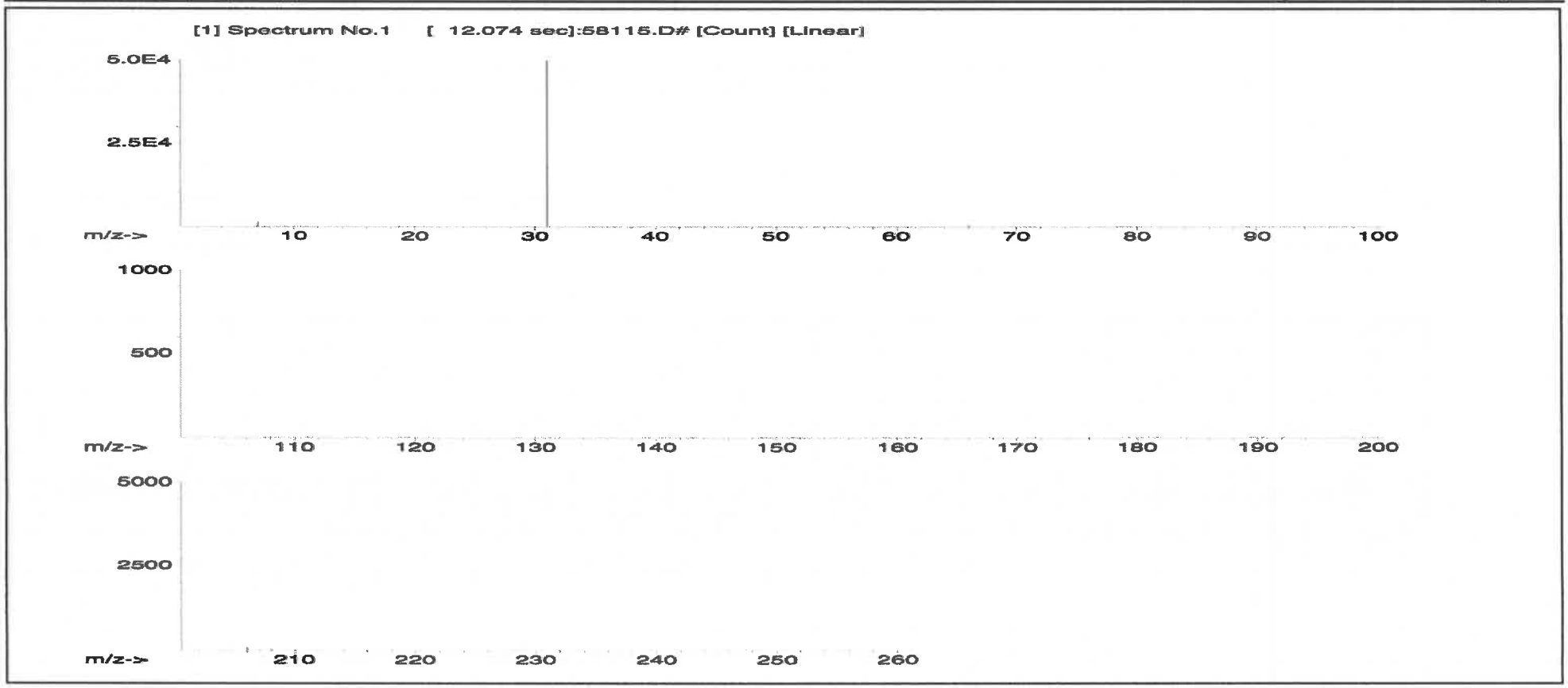
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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INORGANIC VENTURES™
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Certificate of Analysis

R: 02/22/24 M5942

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- **June 17, 2027**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5959 R: 6/14/24.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

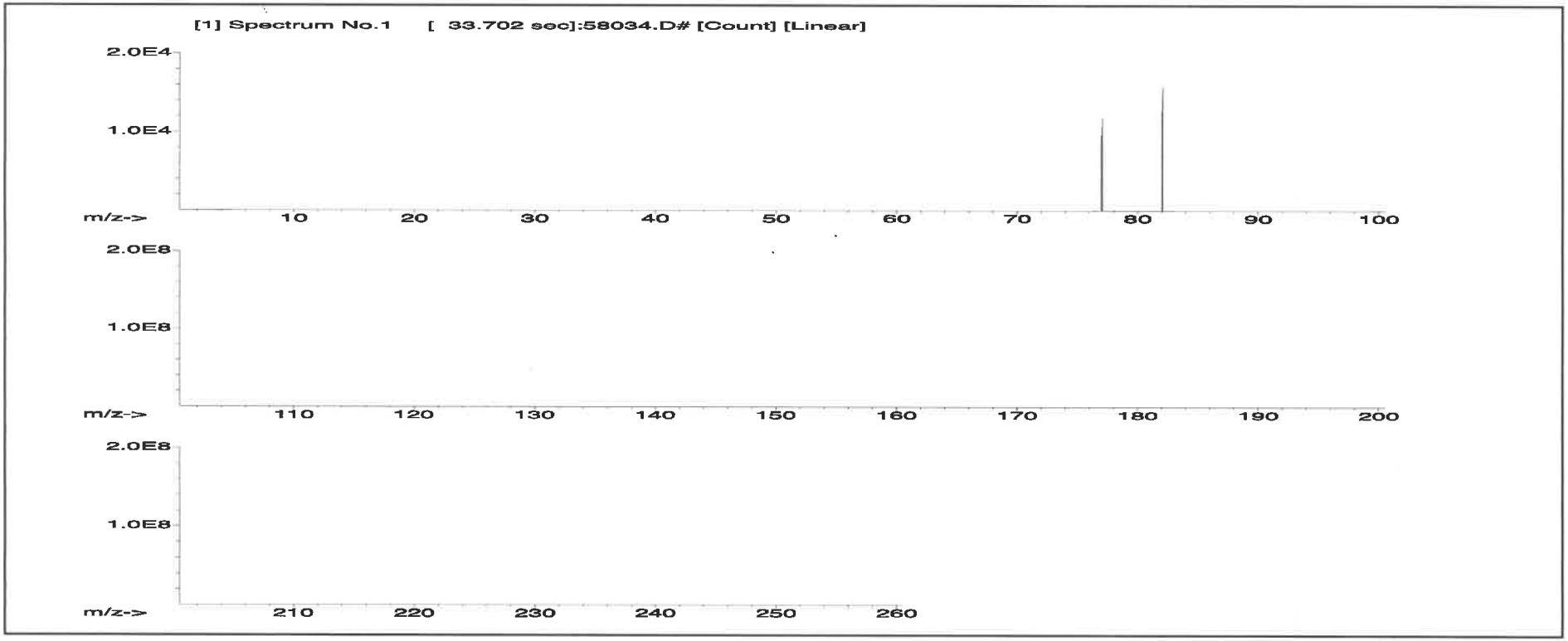
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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AR-1539 Certificate Number
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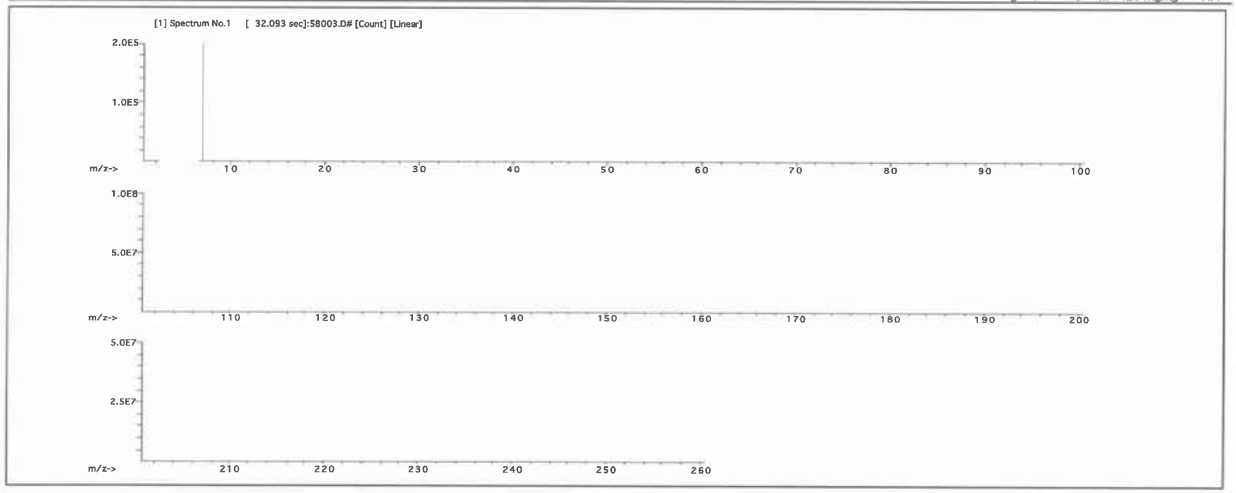
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

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

11.2 Lot Expiration Date

- February 21, 2028

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

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R: 2/22/24
MS-997

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB727800
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 7 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.2 µg/mL**
Lead, Pb	**1 000 ± 4 µg/mL**	**Selenium, Se**	**1 000 ± 6 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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**

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 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

- December 21, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

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

11.2 Lot Expiration Date

- August 12, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 5 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

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

11.2 Lot Expiration Date

- September 06, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

M6074
M6075
M6076
M6077

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Christiansburg, VA 24073 USA
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P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 5 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

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12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

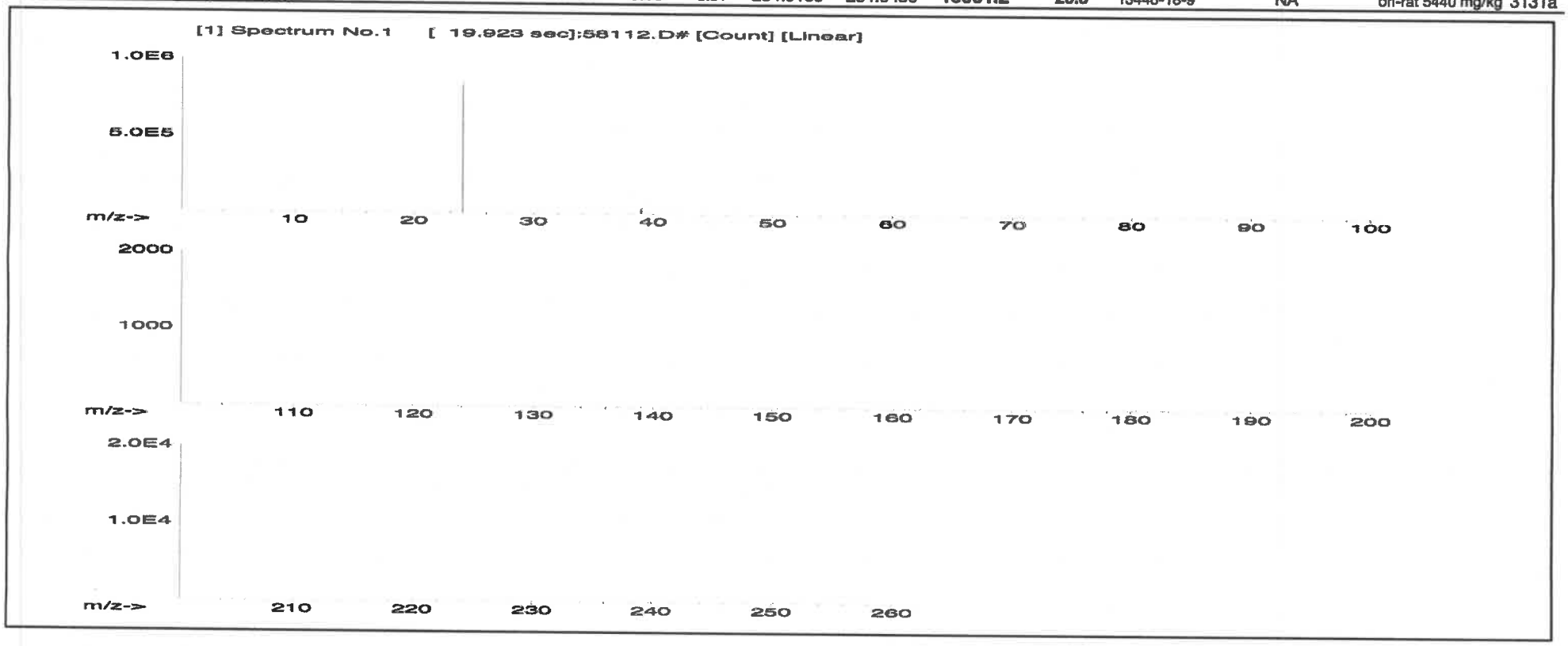
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

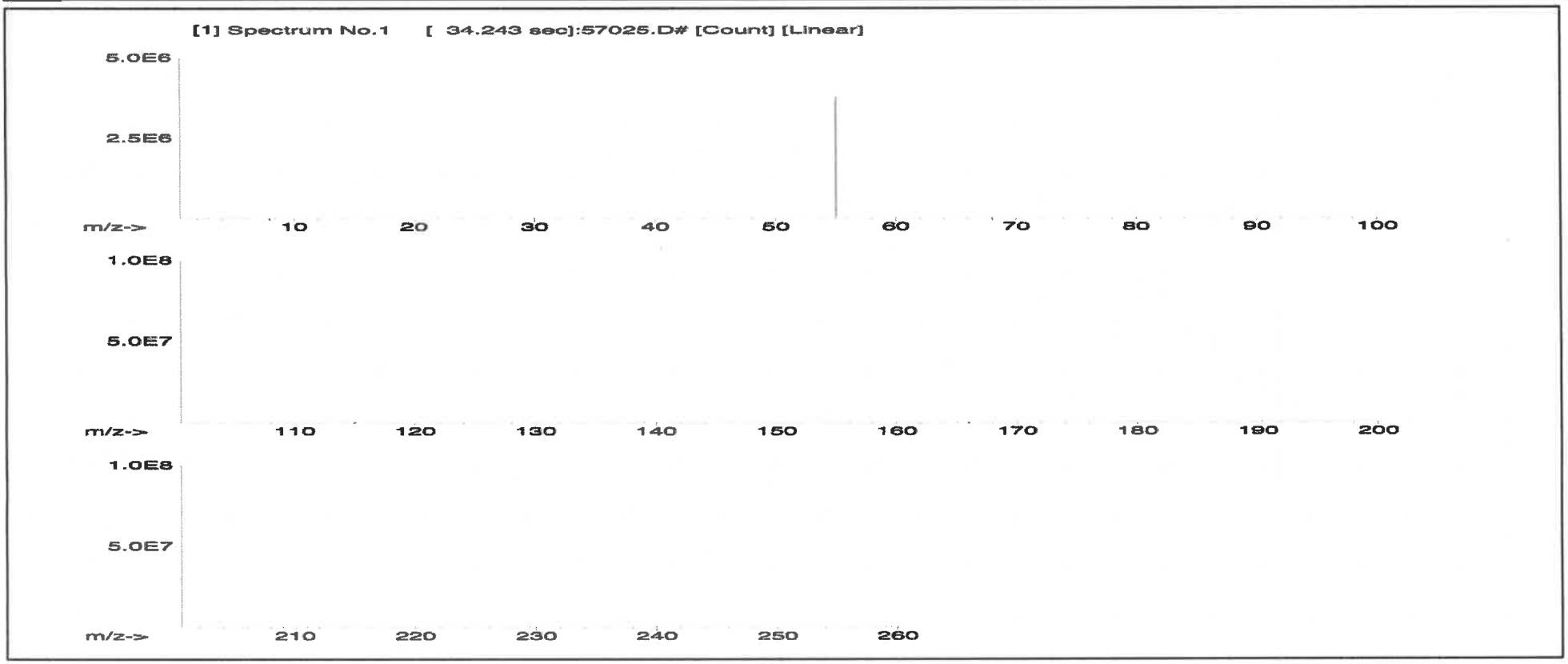
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

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4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

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

11.2 Lot Expiration Date

- **July 10, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M6138
R->1/13/25

CERTIFIED WEIGHT REPORT:

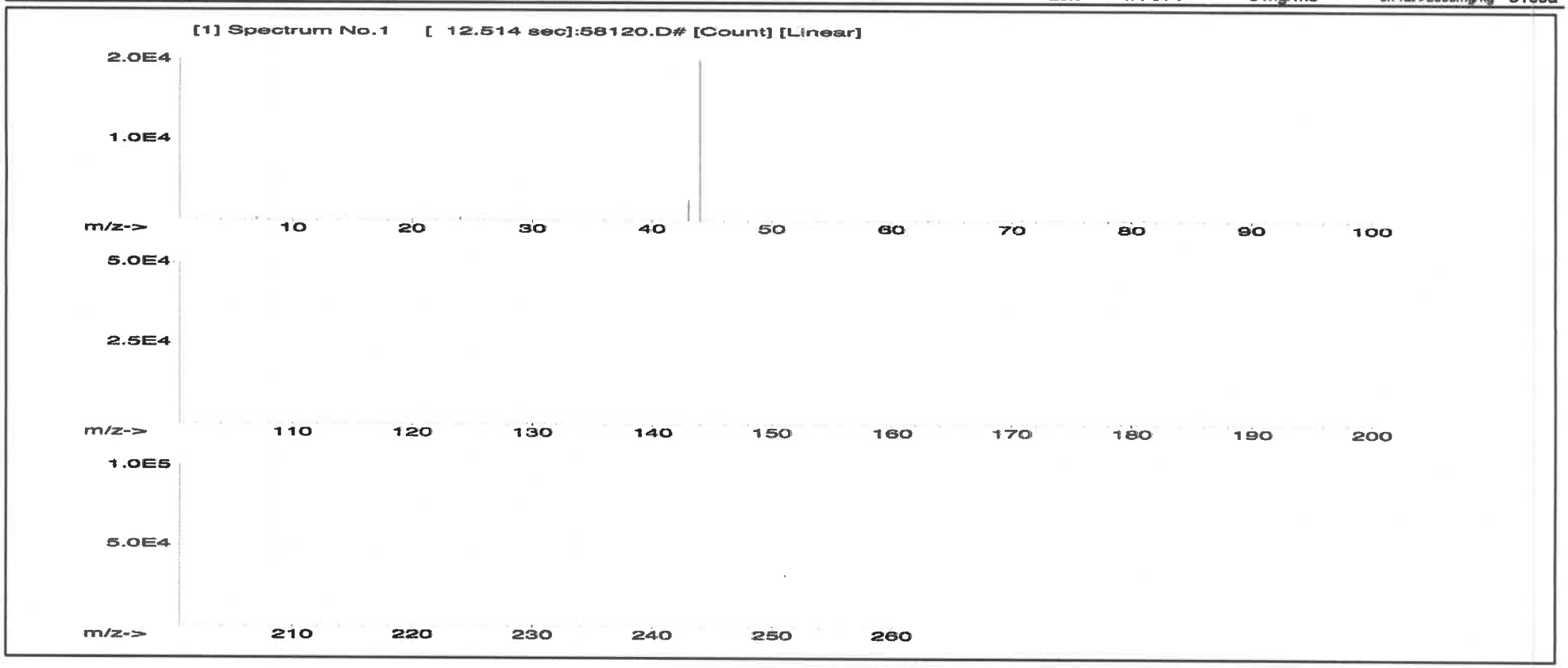
Part Number: 58120
Lot Number: 121824
Description: Calcium (Ca)
Expiration Date: 121827
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.1

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.15	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	121824
Reviewed By:	Pedro L. Rentas	121824

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2677	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

M6141
M6142
M6143

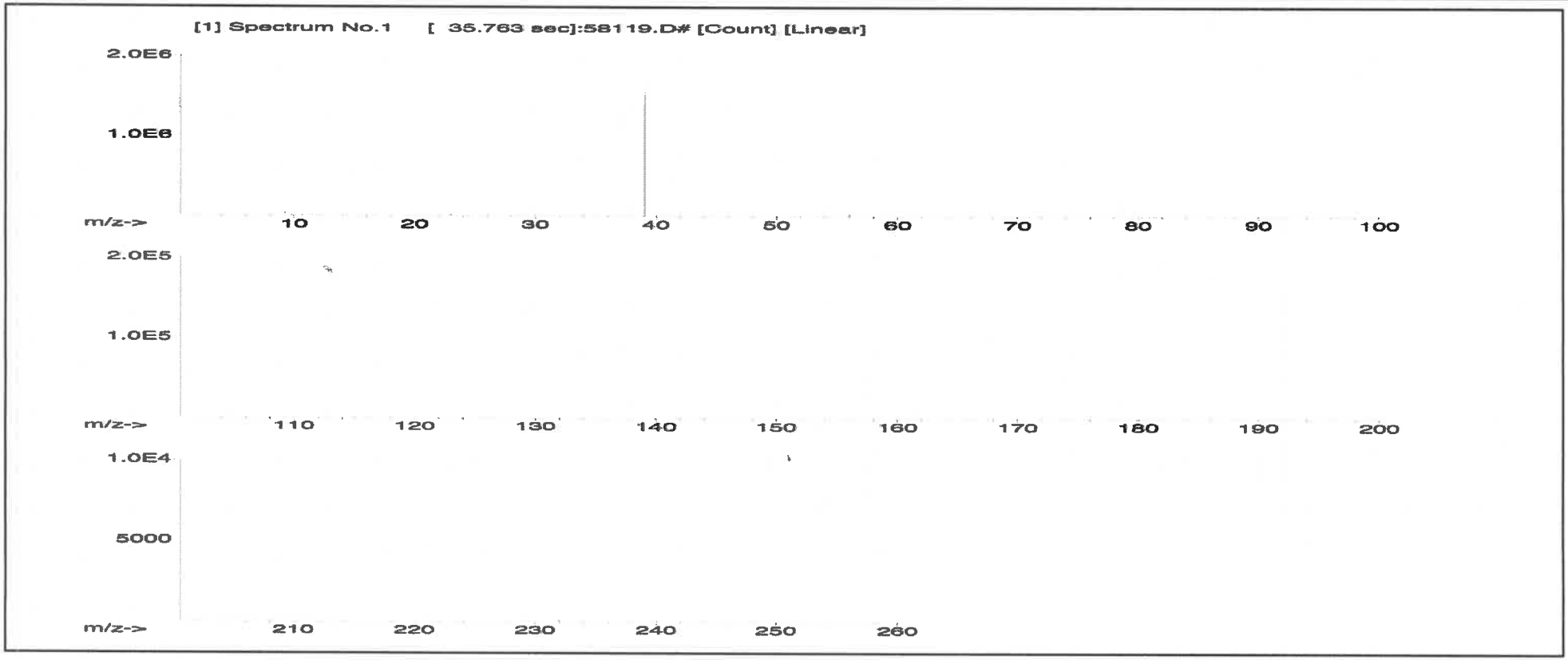
Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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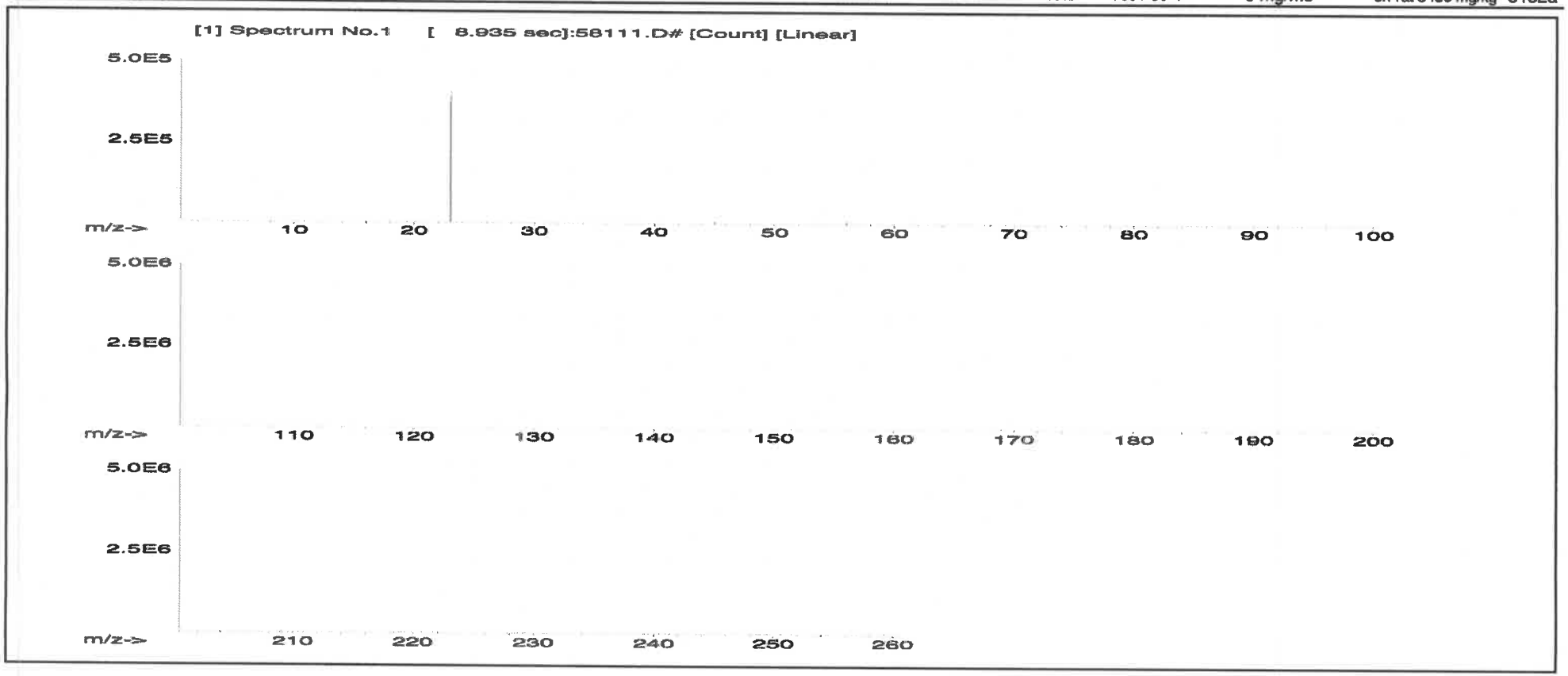
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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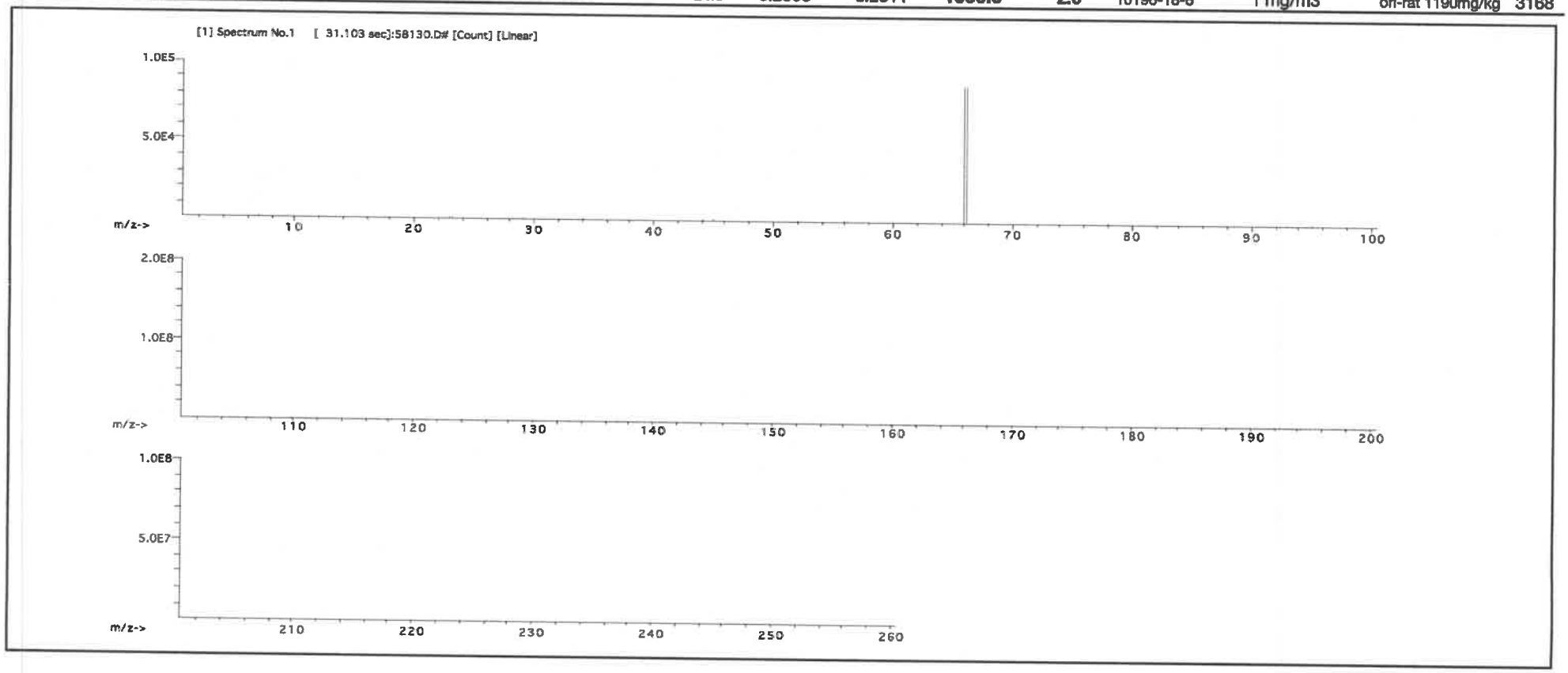
CERTIFIED WEIGHT REPORT:

Part Number:	**58030**	R → 1/13/25	**Solvent:**	**Lot #** 24012496	Nitric Acid
Lot Number:	**121724**				
Description:	**Zinc (Zn)**	M6145	2%	40.0 (mL)	Nitric Acid
Expiration Date:	121727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.1	0.10 Flask Uncertainty			

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

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

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

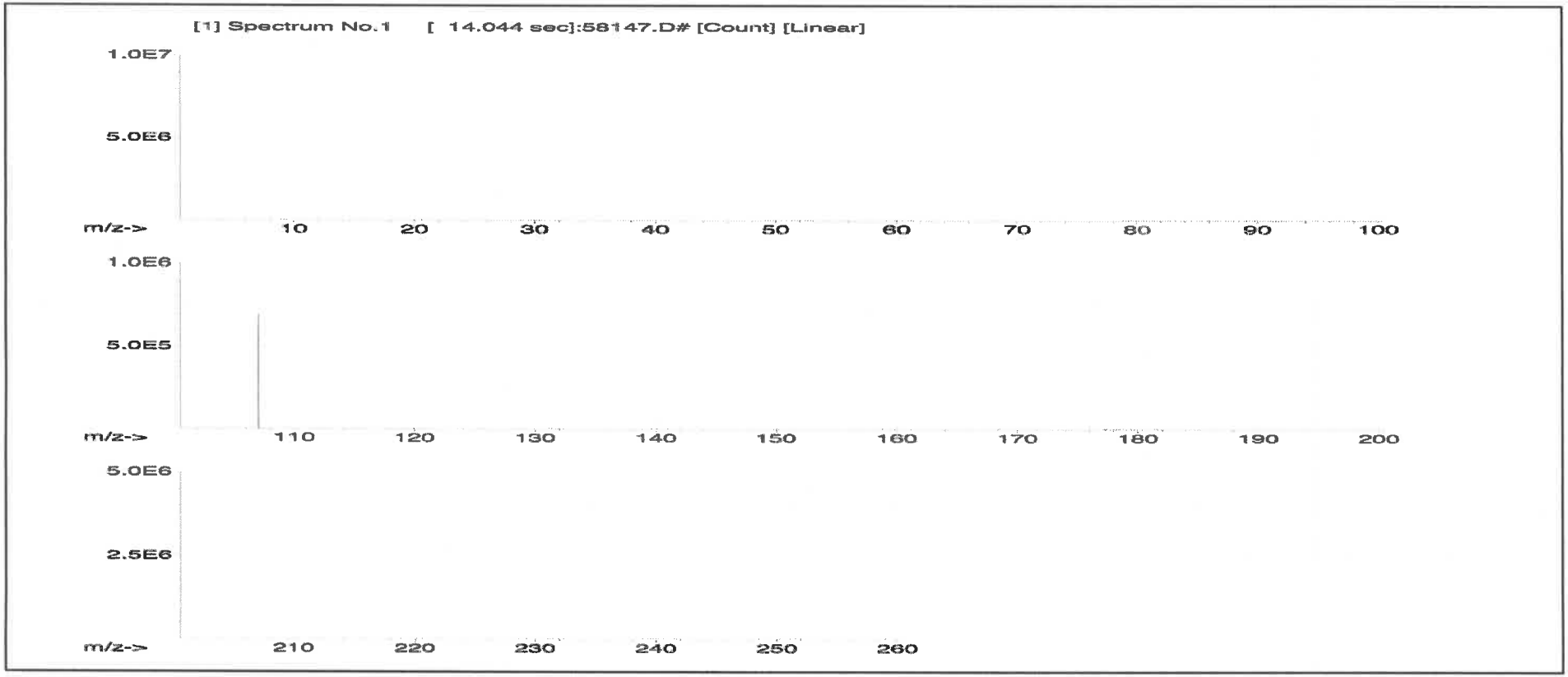
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.26	0.058	Flask Uncertainty	

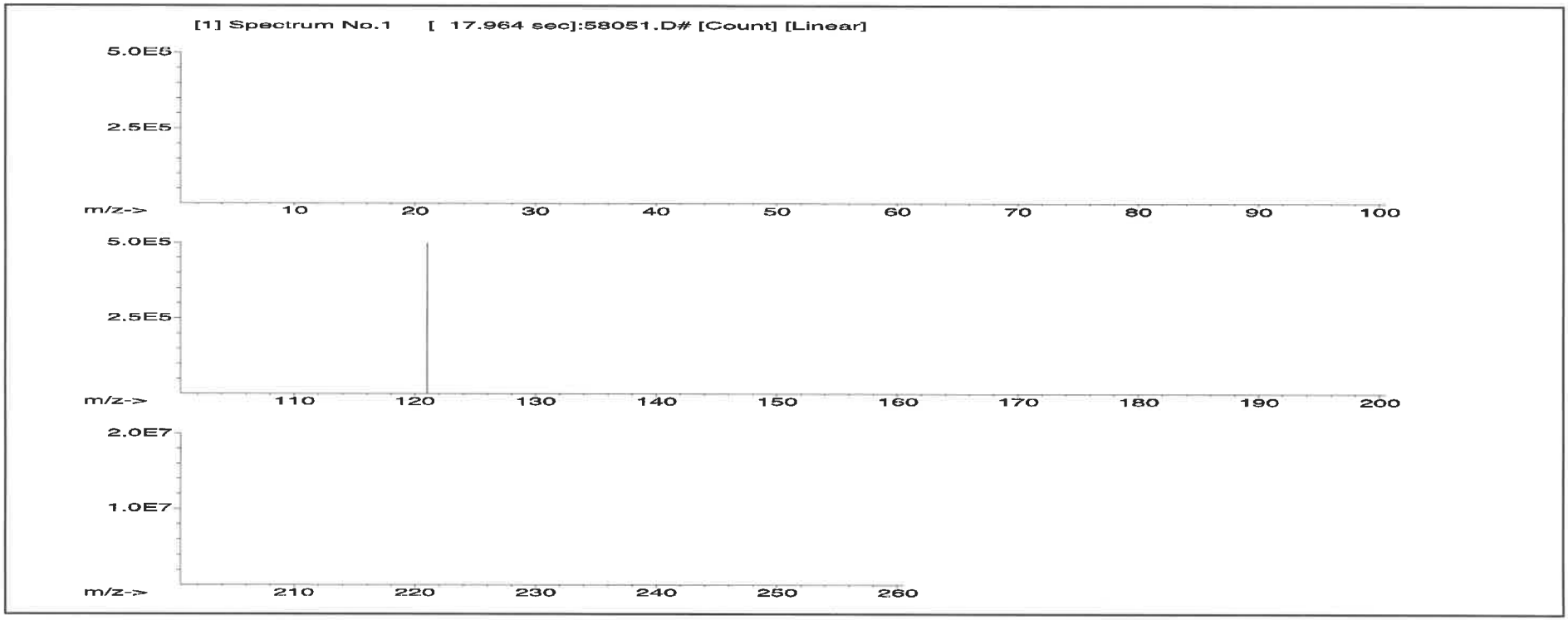
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

APTIM

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6152

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

APTIM

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6155

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
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Certificate of Analysis

R: 8/5/24 M6019

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 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 03, 2028**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 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 03, 2028**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

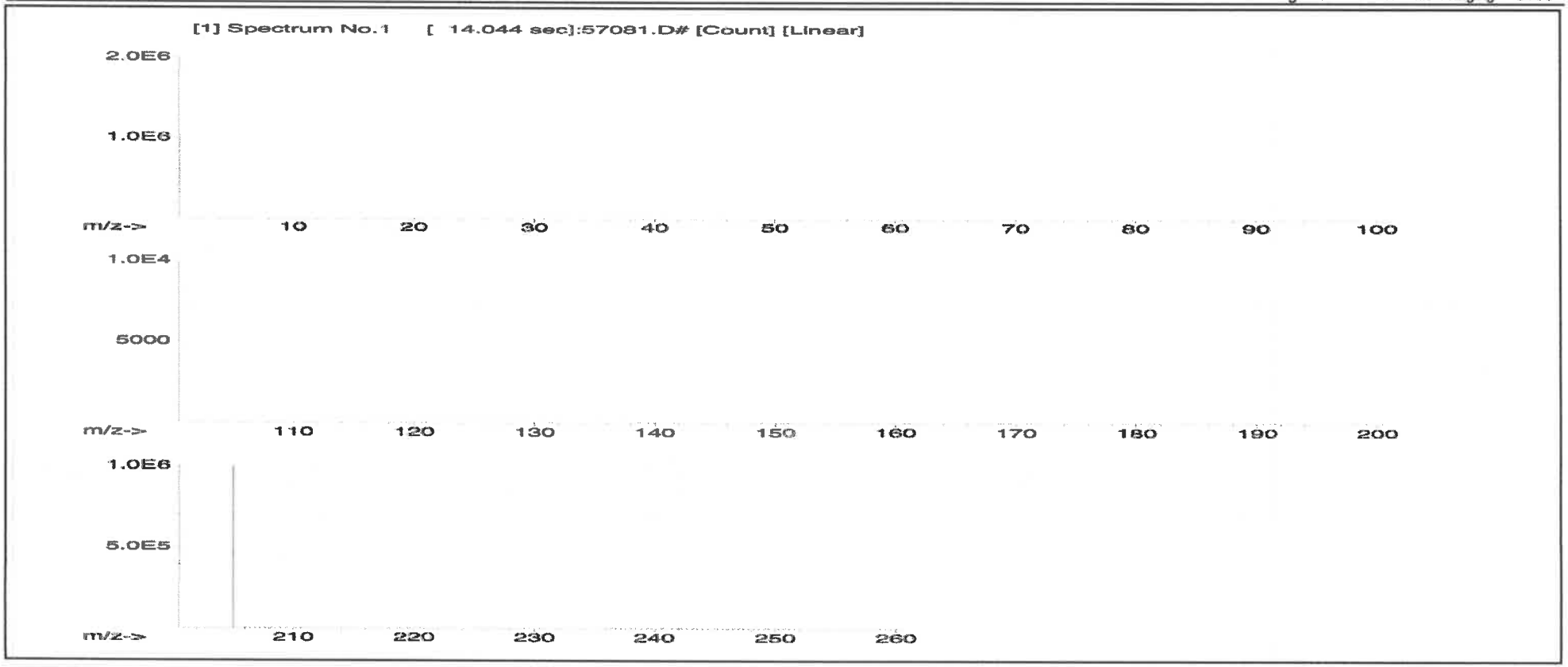
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

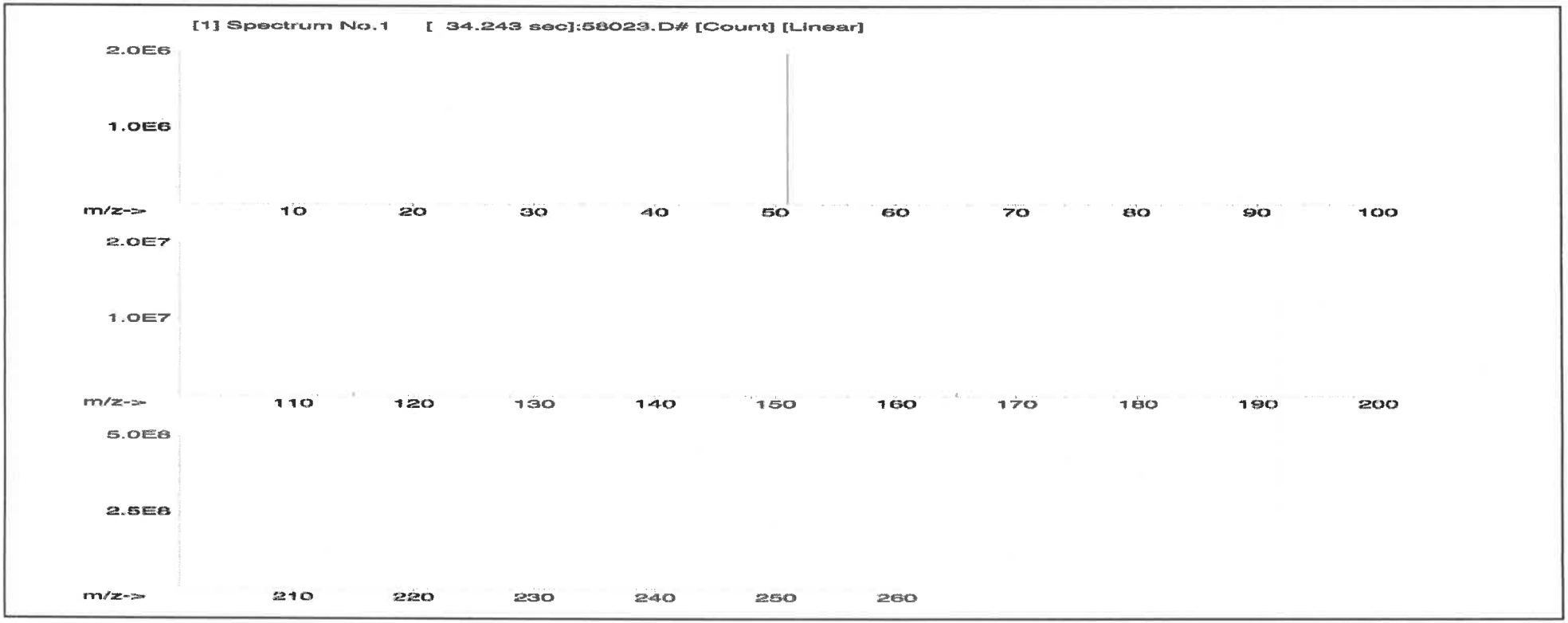
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2133
COC Number 2047145

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: G Environmental
ADDRESS: 8 CARRIAG
CITY Successunna STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: BANKER
PROJECT NO.: LOCATION:
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G Environmental P.O.#:
ADDRESS: 8 CARRIAG
CITY Successunna STATE: NJ ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STANDARD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT haszstk edd

ANALYSIS

1 & Sodium Chloride | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW1	GW		X	5/27/25	1000	2	X	X								
2.	MW5	GW		X	5/27/25	1130	2	X	X								
3.	Supply	GW		X	5/27/25	1209	2	X	X								
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	5/28/25 9:37	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2-1 °C
Comments: IR-Gun #1

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

QA Control Code: A2070148