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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LAB CHRONICLE

OrderID:	Q2520	**OrderDate:**	7/8/2025 11:18:03 AM
Client:	Safety Environmental Co. of NY, Inc.	**Project:**	Childrens Harbor Montessori School
Contact:	Francis Owoh	**Location:**	O23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2520-01	**A-1**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-02	**A-2**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-03	**A-3**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-04	**A-4**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/15/25	
Q2520-05	**A-5**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-06	**A-6**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/15/25	
Q2520-07	**A-7**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-08	**A-8**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-09	**A-9**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-10	**A-10**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-11	**A-11**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-12	**A-12**	**Water**			**06/26/25**			**07/08/25**

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LAB CHRONICLE

			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-13	**A-13**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-14	**A-14**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-15	**A-15**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-16	**A-16**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-17	**A-17**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-18	**A-18**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-19	**A-19**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-20	**A-20**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-21	**A-21**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-22	**A-22**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-23	**A-23**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/11/25	
Q2520-24	**A-24**	**Water**			**06/26/25**			**07/08/25**
			Metals Group3	200.7		07/09/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2520 **Order ID:** Q2520

Client: Safety Environmental Co. of NY, Inc. **Project ID:** Childrens Harbor Montessori School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : A-3								
Q2520-03	A-3	Water	Lead	1.63	J	1.21	6.00	ug/L
Client ID : A-4								
Q2520-04	A-4	Water	Lead	1.21	J	1.21	6.00	ug/L
Client ID : A-5								
Q2520-05	A-5	Water	Lead	1.86	J	1.21	6.00	ug/L
Client ID : A-7								
Q2520-07	A-7	Water	Lead	2.00	J	1.21	6.00	ug/L
Client ID : A-8								
Q2520-08	A-8	Water	Lead	1.22	J	1.21	6.00	ug/L
Client ID : A-12								
Q2520-12	A-12	Water	Lead	1.62	J	1.21	6.00	ug/L
Client ID : A-13								
Q2520-13	A-13	Water	Lead	1.23	J	1.21	6.00	ug/L
Client ID : A-17								
Q2520-17	A-17	Water	Lead	2.02	J	1.21	6.00	ug/L
Client ID : A-18								
Q2520-18	A-18	Water	Lead	1.31	J	1.21	6.00	ug/L
Client ID : A-19								
Q2520-19	A-19	Water	Lead	1.69	J	1.21	6.00	ug/L
Client ID : A-20								
Q2520-20	A-20	Water	Lead	1.31	J	1.21	6.00	ug/L
Client ID : A-21								
Q2520-21	A-21	Water	Lead	1.44	J	1.21	6.00	ug/L
Client ID : A-23								
Q2520-23	A-23	Water	Lead	2.13	J	1.21	6.00	ug/L
Client ID : A-24								
Q2520-24	A-24	Water	Lead	1.53	J	1.21	6.00	ug/L



SAMPLE DATA

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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-1	SDG No.:	Q2520
Lab Sample ID:	Q2520-01	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 03:56	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-2	SDG No.:	Q2520
Lab Sample ID:	Q2520-02	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:01	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-3	SDG No.:	Q2520
Lab Sample ID:	Q2520-03	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.
7439-92-1	Lead	1.63	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:05	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-4	SDG No.:	Q2520
Lab Sample ID:	Q2520-04	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.
7439-92-1	Lead	1.21	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/15/25 22:30	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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

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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-5	SDG No.:	Q2520
Lab Sample ID:	Q2520-05	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.
7439-92-1	Lead	1.86	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:31	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-6	SDG No.:	Q2520
Lab Sample ID:	Q2520-06	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/15/25 22:25	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-7	SDG No.:	Q2520
Lab Sample ID:	Q2520-07	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.
7439-92-1	Lead	2.00	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:40	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-8	SDG No.:	Q2520
Lab Sample ID:	Q2520-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	1.22	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:44	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-9	SDG No.:	Q2520
Lab Sample ID:	Q2520-09	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:49	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-10	SDG No.:	Q2520
Lab Sample ID:	Q2520-10	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:53	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-11	SDG No.:	Q2520
Lab Sample ID:	Q2520-11	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 04:58	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-12	SDG No.:	Q2520
Lab Sample ID:	Q2520-12	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.
7439-92-1	Lead	1.62	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:02	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-13	SDG No.:	Q2520
Lab Sample ID:	Q2520-13	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.
7439-92-1	Lead	1.23	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:06	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
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N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-14	SDG No.:	Q2520
Lab Sample ID:	Q2520-14	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:11	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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

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

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-15	SDG No.:	Q2520
Lab Sample ID:	Q2520-15	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:33	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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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Fax : 908 789 8922

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-16	SDG No.:	Q2520
Lab Sample ID:	Q2520-16	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:37	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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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Fax : 908 789 8922

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-17	SDG No.:	Q2520
Lab Sample ID:	Q2520-17	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.
7439-92-1	Lead	2.02	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:41	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-18	SDG No.:	Q2520
Lab Sample ID:	Q2520-18	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.
7439-92-1	Lead	1.31	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:46	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-19	SDG No.:	Q2520
Lab Sample ID:	Q2520-19	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.
7439-92-1	Lead	1.69	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:50	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-20	SDG No.:	Q2520
Lab Sample ID:	Q2520-20	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.
7439-92-1	Lead	1.31	J	1	1.21	6.00	ug/L	07/09/25 10:25	07/11/25 05:55	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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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Fax : 908 789 8922

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-21	SDG No.:	Q2520
Lab Sample ID:	Q2520-21	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.
7439-92-1	Lead	1.44	J	1	1.21	6.00	ug/L	07/09/25 10:16	07/11/25 03:34	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-22	SDG No.:	Q2520
Lab Sample ID:	Q2520-22	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.
7439-92-1	Lead	1.21	U	1	1.21	6.00	ug/L	07/09/25 10:16	07/11/25 03:39	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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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Fax : 908 789 8922

Report of Analysis

Client:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-23	SDG No.:	Q2520
Lab Sample ID:	Q2520-23	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.
7439-92-1	Lead	2.13	J	1	1.21	6.00	ug/L	07/09/25 10:16	07/11/25 03:43	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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:	Safety Environmental Co. of NY, Inc.	Date Collected:	06/26/25
Project:	Childrens Harbor Montessori School	Date Received:	07/08/25
Client Sample ID:	A-24	SDG No.:	Q2520
Lab Sample ID:	Q2520-24	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.
7439-92-1	Lead	1.53	J	1	1.21	6.00	ug/L	07/09/25 10:16	07/10/25 20:26	EPA 200.7	E200.7

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	4060	4000	101	95 - 105	P	07/10/2025	18:39	LB136434

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	13.2	12.0	110	80 - 120	P	07/10/2025	18:51	LB136434

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	4980	5000	100	90 - 110	P	07/10/2025	19:43	LB136434
CCV02	Lead	4710	5000	94	90 - 110	P	07/10/2025	20:59	LB136434
CCV03	Lead	4930	5000	99	90 - 110	P	07/10/2025	22:32	LB136434
CCV04	Lead	4690	5000	94	90 - 110	P	07/10/2025	23:29	LB136434
CCV05	Lead	4820	5000	96	90 - 110	P	07/11/2025	00:47	LB136434
CCV06	Lead	4820	5000	96	90 - 110	P	07/11/2025	01:47	LB136434
CCV07	Lead	4670	5000	93	90 - 110	P	07/11/2025	03:17	LB136434
CCV08	Lead	4820	5000	96	90 - 110	P	07/11/2025	04:18	LB136434
CCV09	Lead	4770	5000	96	90 - 110	P	07/11/2025	05:19	LB136434
CCV10	Lead	4800	5000	96	90 - 110	P	07/11/2025	06:16	LB136434
CCV11	Lead	4770	5000	95	90 - 110	P	07/11/2025	06:43	LB136434

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	3810	4000	95	95 - 105	P	07/15/2025	19:27	LB136488

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	11.7	12.0	98	80 - 120	P	07/15/2025	19:37	LB136488

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	4930	5000	99	90 - 110	P	07/15/2025	20:25	LB136488
CCV02	Lead	4840	5000	97	90 - 110	P	07/15/2025	22:12	LB136488
CCV03	Lead	4820	5000	96	90 - 110	P	07/15/2025	22:39	LB136488

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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	Lead	12.4	12.0	103	65 - 135	P	07/10/2025	19:01	LB136434
CRI01	Lead	10.6	12.0	88	65 - 135	P	07/15/2025	19:56	LB136488

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	2.30	+/-6	U	12.0	P	07/10/2025	18:55	LB136434

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	2.30	+/-6	U	12.0	P	07/10/2025	19:54	LB136434
CCB02	Lead	2.30	+/-6	U	12.0	P	07/10/2025	21:04	LB136434
CCB03	Lead	2.30	+/-6	U	12.0	P	07/10/2025	22:36	LB136434
CCB04	Lead	2.30	+/-6	U	12.0	P	07/10/2025	23:53	LB136434
CCB05	Lead	2.30	+/-6	U	12.0	P	07/11/2025	00:51	LB136434
CCB06	Lead	2.30	+/-6	U	12.0	P	07/11/2025	02:23	LB136434
CCB07	Lead	2.30	+/-6	U	12.0	P	07/11/2025	03:26	LB136434
CCB08	Lead	2.30	+/-6	U	12.0	P	07/11/2025	04:27	LB136434
CCB09	Lead	2.30	+/-6	U	12.0	P	07/11/2025	05:24	LB136434
CCB10	Lead	2.30	+/-6	U	12.0	P	07/11/2025	06:21	LB136434
CCB11	Lead	2.30	+/-6	U	12.0	P	07/11/2025	06:47	LB136434

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	2.30	+/-6	U	12.0	P	07/15/2025	19:42	LB136488

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	2.30	+/-6	U	12.0	P	07/15/2025	20:29	LB136488
CCB02	Lead	2.30	+/-6	U	12.0	P	07/15/2025	22:17	LB136488
CCB03	Lead	2.30	+/-6	U	12.0	P	07/15/2025	22:43	LB136488

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168771BL		**WATER**		**Batch Number:**	**PB168771**		**Prep Date:**	**07/09/2025**	
	Lead	1.21	<3	U	6.00	P	07/11/2025	03:48	LB136434

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168772BL		**WATER**		**Batch Number:**	**PB168772**		**Prep Date:**	**07/09/2025**	
	Lead	1.21	<3	U	6.00	P	07/15/2025	20:34	LB136488

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Fax : 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Lead	0.44			-12	12	07/10/2025	19:11	LB136434
ICSAB01	Lead	43.4	49.0	89	37	61	07/10/2025	19:15	LB136434
ICSA	Lead	41.5			-12	12	07/10/2025	19:20	LB136434
ICSAB	Lead	109	49.0	222	37	61	07/10/2025	19:24	LB136434
ICSA01	Lead	1.80			-12	12	07/15/2025	20:01	LB136488
ICSAB01	Lead	48.0	49.0	98	37	61	07/15/2025	20:05	LB136488
ICSA	Lead	32.2			-12	12	07/15/2025	20:10	LB136488
ICSAB	Lead	48.9	49.0	100	37	61	07/15/2025	20:20	LB136488

METAL
QC
DATA

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Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Safety Environmental Co. of NY, Inc. **level:** low **sdg no.:** Q2520

contract: SAFE04 **lab code:** ACE

matrix: Water **sample id:** Q2520-20 **client id:** A-20MS

Percent Solids for Sample: NA **Spiked ID:** Q2520-20MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	485		1.31	J	500	97		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Safety Environmental Co. of NY, Inc. **level:** low **sdg no.:** Q2520

contract: SAFE04 **lab code:** ACE

matrix: Water **sample id:** Q2520-20 **client id:** A-20MSD

Percent Solids for Sample: NA **Spiked ID:** Q2520-20MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	457		1.31	J	500	91		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Safety Environmental Co. of NY, Inc. **level:** low **sdg no.:** Q2520

contract: SAFE04 **lab code:** ACE

matrix: Water **sample id:** Q2520-24 **client id:** A-24MS

Percent Solids for Sample: NA **Spiked ID:** Q2520-24MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	484		1.53	J	500	97		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Safety Environmental Co. of NY, Inc. **level:** low **sdg no.:** Q2520

contract: SAFE04 **lab code:** ACE

matrix: Water **sample id:** Q2520-24 **client id:** A-24MSD

Percent Solids for Sample: NA **Spiked ID:** Q2520-24MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	470		1.53	J	500	94		P

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Metals
- 5b -

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **Level:** LOW **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2520-20 **Client ID:** A-20DUP

Percent Solids for Sample: NA **Duplicate ID** Q2520-20DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	1.31	J	2.06	J	45		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **Level:** LOW **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2520-20MS **Client ID:** A-20MSD

Percent Solids for Sample: NA **Duplicate ID** Q2520-20MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	485		457		6		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **Level:** LOW **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2520-24 **Client ID:** A-24DUP

Percent Solids for Sample: NA **Duplicate ID** Q2520-24DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	1.53	J	6.00	U	200.0		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **Level:** LOW **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2520-24MS **Client ID:** A-24MSD

Percent Solids for Sample: NA **Duplicate ID** Q2520-24MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	484		470		3		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168771BS							
Lead	ug/L	500	475		95	85 - 115	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168772BS							
Lead	ug/L	500	464		93	85 - 115	P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

A-20L

Lab Name: Alliance **Contract:** SAFE04

Lab Code: ACE **Lb No.:** lb136434 **Lab Sample ID :** Q2520-20L **SDG No.:** Q2520

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
Lead	1.31	J	30.0	U	100.0		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

A-24L

Lab Name: Alliance **Contract:** SAFE04

Lab Code: ACE **Lb No.:** lb136434 **Lab Sample ID :** Q2520-24L **SDG No.:** Q2520

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
Lead	1.53	J	30.0	U	100.0		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Safety Environmental Co. of NY, Inc.

SDG No.: Q2520

Contract: SAFE04

Lab Code: ACE

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168771**						
PB168771BL	PB168771BL	MB	WATER	07/09/2025	50.0	25.0	
PB168771BS	PB168771BS	LCS	WATER	07/09/2025	50.0	25.0	
Q2520-01	A-1	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-02	A-2	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-03	A-3	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-04	A-4	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-05	A-5	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-06	A-6	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-07	A-7	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-08	A-8	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-09	A-9	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-10	A-10	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-11	A-11	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-12	A-12	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-13	A-13	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-14	A-14	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-15	A-15	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-16	A-16	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-17	A-17	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-18	A-18	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-19	A-19	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-20	A-20	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-20DUP	A-20DUP	DUP	WATER	07/09/2025	50.0	25.0	
Q2520-20MS	A-20MS	MS	WATER	07/09/2025	50.0	25.0	
Q2520-20MSD	A-20MSD	MSD	WATER	07/09/2025	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Safety Environmental Co. of NY, Inc. **SDG No.:** Q2520

Contract: SAFE04 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168772**						
PB168772BL	PB168772BL	MB	WATER	07/09/2025	50.0	25.0	
PB168772BS	PB168772BS	LCS	WATER	07/09/2025	50.0	25.0	
Q2520-21	A-21	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-22	A-22	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-23	A-23	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-24	A-24	SAM	WATER	07/09/2025	50.0	25.0	
Q2520-24DUP	A-24DUP	DUP	WATER	07/09/2025	50.0	25.0	
Q2520-24MS	A-24MS	MS	WATER	07/09/2025	50.0	25.0	
Q2520-24MSD	A-24MSD	MSD	WATER	07/09/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: Safety Environmental Co. of NY, Inc. **Contract:** SAFE04

Lab code: ACE **Sdg no.:** Q2520

Instrument id number: **Method:** **Run number:** LB136434

Start date: 07/10/2025 **End date:** 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1646	Pb
S1	S1	1	1650	Pb
S2	S2	1	1655	Pb
S3	S3	1	1659	Pb
S4	S4	1	1703	Pb
S5	S5	1	1707	Pb
ICV01	ICV01	1	1839	Pb
LLICV01	LLICV01	1	1851	Pb
ICB01	ICB01	1	1855	Pb
CRI01	CRI01	1	1901	Pb
ICSA01	ICSA01	1	1911	Pb
ICSAB01	ICSAB01	1	1915	Pb
ICSA	ICSA	20	1920	Pb
ICSAB	ICSAB	20	1924	Pb
CCV01	CCV01	1	1943	Pb
CCB01	CCB01	1	1954	Pb
Q2520-24	A-24	1	2026	Pb
Q2520-24DUP	A-24DUP	1	2030	Pb
Q2520-24L	A-24L	5	2035	Pb
Q2520-24MS	A-24MS	1	2055	Pb
CCV02	CCV02	1	2059	Pb
CCB02	CCB02	1	2104	Pb
Q2520-24MSD	A-24MSD	1	2109	Pb
CCV03	CCV03	1	2232	Pb
CCB03	CCB03	1	2236	Pb
CCV04	CCV04	1	2329	Pb
CCB04	CCB04	1	2353	Pb
CCV05	CCV05	1	0047	Pb
CCB05	CCB05	1	0051	Pb
CCV06	CCV06	1	0147	Pb
CCB06	CCB06	1	0223	Pb
CCV07	CCV07	1	0317	Pb
CCB07	CCB07	1	0326	Pb
Q2520-21	A-21	1	0334	Pb
Q2520-22	A-22	1	0339	Pb
Q2520-23	A-23	1	0343	Pb
PB168771BL	PB168771BL	1	0348	Pb
PB168771BS	PB168771BS	1	0352	Pb
Q2520-01	A-1	1	0356	Pb
Q2520-02	A-2	1	0401	Pb
Q2520-03	A-3	1	0405	Pb

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metals
- 14 -
ANALYSIS RUN LOG

Client: Safety Environmental Co. of NY, Inc. **Contract:** SAFE04

Lab code: ACE **Sdg no.:** Q2520

Instrument id number: **Method:** **Run number:** LB136434

Start date: 07/10/2025 **End date:** 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV08	CCV08	1	0418	Pb
CCB08	CCB08	1	0427	Pb
Q2520-05	A-5	1	0431	Pb
Q2520-07	A-7	1	0440	Pb
Q2520-08	A-8	1	0444	Pb
Q2520-09	A-9	1	0449	Pb
Q2520-10	A-10	1	0453	Pb
Q2520-11	A-11	1	0458	Pb
Q2520-12	A-12	1	0502	Pb
Q2520-13	A-13	1	0506	Pb
Q2520-14	A-14	1	0511	Pb
CCV09	CCV09	1	0519	Pb
CCB09	CCB09	1	0524	Pb
Q2520-15	A-15	1	0533	Pb
Q2520-16	A-16	1	0537	Pb
Q2520-17	A-17	1	0541	Pb
Q2520-18	A-18	1	0546	Pb
Q2520-19	A-19	1	0550	Pb
Q2520-20	A-20	1	0555	Pb
Q2520-20DUP	A-20DUP	1	0559	Pb
Q2520-20L	A-20L	5	0603	Pb
Q2520-20MS	A-20MS	1	0608	Pb
CCV10	CCV10	1	0616	Pb
CCB10	CCB10	1	0621	Pb
Q2520-20MSD	A-20MSD	1	0630	Pb
CCV11	CCV11	1	0643	Pb
CCB11	CCB11	1	0647	Pb

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metals
- 14 -
ANALYSIS RUN LOG

Client: Safety Environmental Co. of NY, Inc. **Contract:** SAFE04

Lab code: ACE **Sdg no.:** Q2520

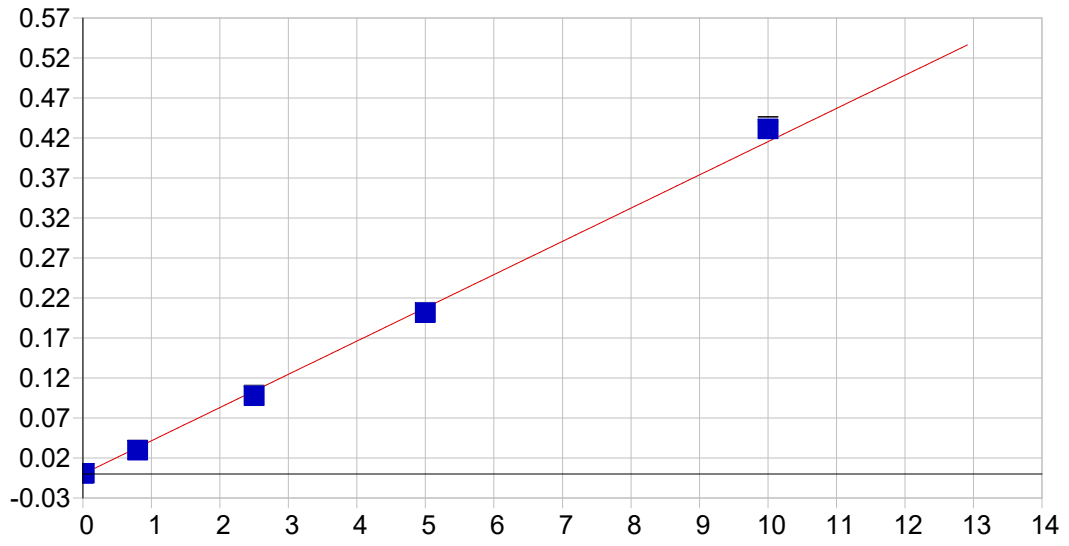
Instrument id number: **Method:** **Run number:** LB136488

Start date: 07/15/2025 **End date:** 07/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1901	Pb
S1	S1	1	1905	Pb
S2	S2	1	1910	Pb
S3	S3	1	1914	Pb
S4	S4	1	1918	Pb
S5	S5	1	1922	Pb
ICV01	ICV01	1	1927	Pb
LLICV01	LLICV01	1	1937	Pb
ICB01	ICB01	1	1942	Pb
CRI01	CRI01	1	1956	Pb
ICSA01	ICSA01	1	2001	Pb
ICSAB01	ICSAB01	1	2005	Pb
ICSA	ICSA	20	2010	Pb
ICSAB	ICSAB	20	2020	Pb
CCV01	CCV01	1	2025	Pb
CCB01	CCB01	1	2029	Pb
PB168772BL	PB168772BL	1	2034	Pb
PB168772BS	PB168772BS	1	2101	Pb
CCV02	CCV02	1	2212	Pb
CCB02	CCB02	1	2217	Pb
Q2520-06	A-6	1	2225	Pb
Q2520-04	A-4	1	2230	Pb
CCV03	CCV03	1	2239	Pb
CCB03	CCB03	1	2243	Pb

METAL
RAW DATA

Reviewed By:
On:
Inst Id :P5
LB :LB136434



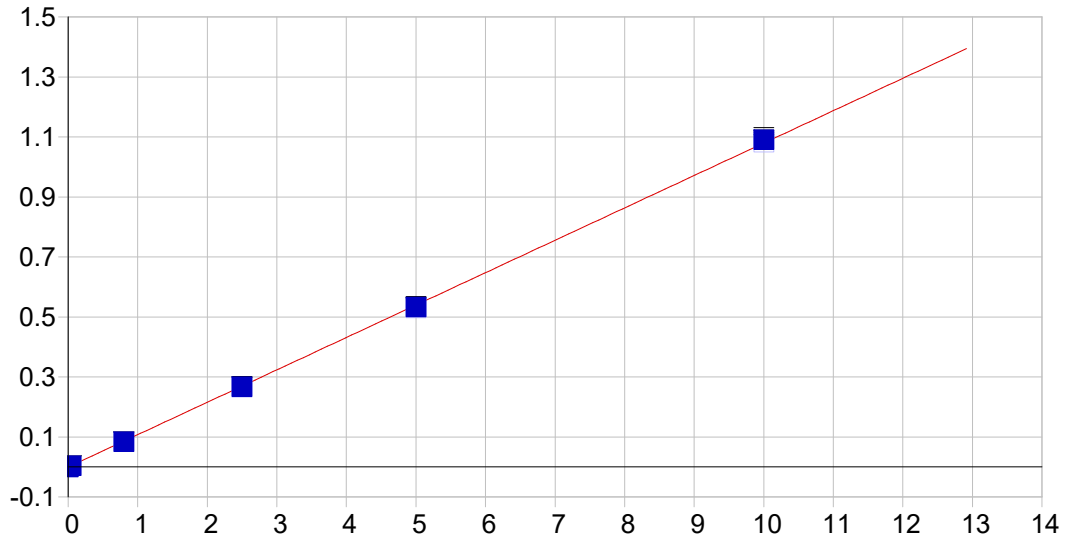
As 189.042 {479}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000091	Re-Slope:	1.000000
A1 (Gain):	0.041551	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998995	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.003214		
Predicted MQL:	0.010712		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.02000	.02028	.000	1.38	.00075	.000	1
S2	.80000	.71213	-.088	-11.0	.02949	.000	1
S3	2.5000	2.3534	-.147	-5.86	.09768	.001	1
S4	5.0000	4.8548	-.145	-2.90	.20160	.001	1
S5	10.000	10.379	.379	3.79	.43112	.003	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



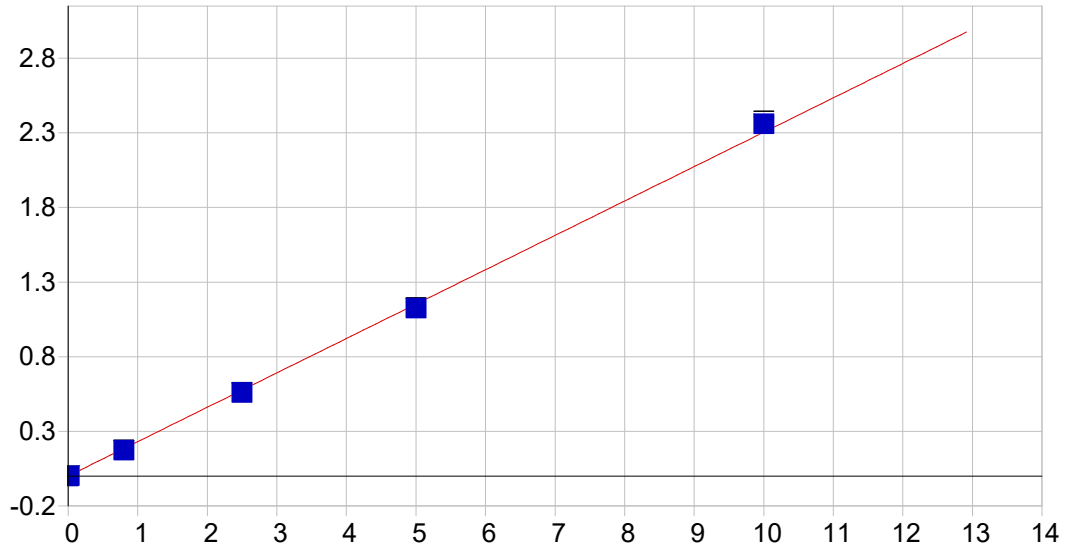
Tl 190.856 {477}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000531	Re-Slope:	1.000000
A1 (Gain):	0.107989	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.002010		
Predicted MQL:	0.006700		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00053	.000	1
S1	.04000	.03608	-.004	-9.79	.00327	.000	1
S2	.80000	.77955	-.020	-2.56	.08298	.000	1
S3	2.5000	2.4793	-.021	-.828	.26510	.001	1
S4	5.0000	4.9412	-.059	-1.18	.52884	.002	1
S5	10.000	10.104	.104	1.04	1.0821	.007	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



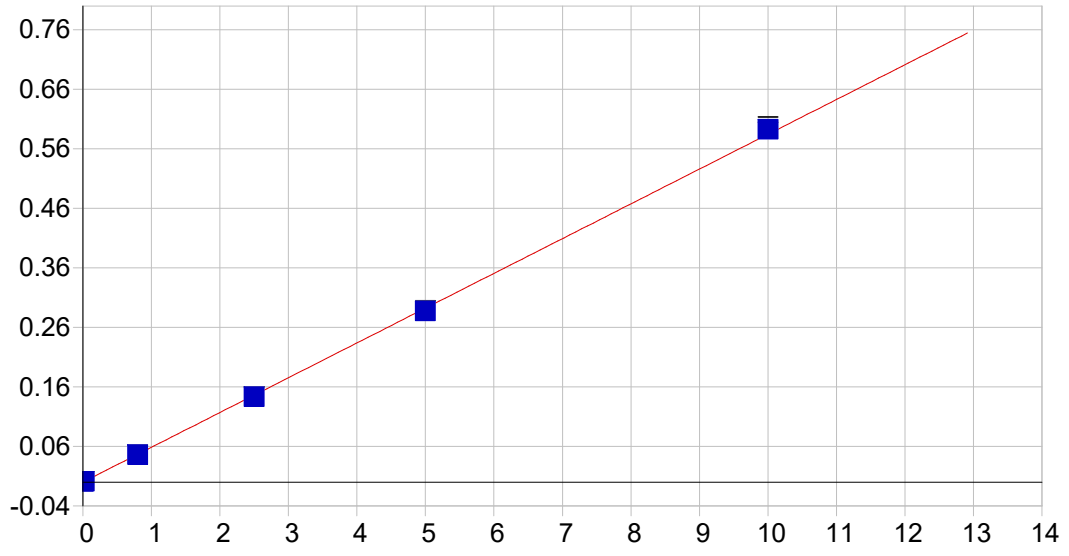
Pb 220.353 {453}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000370	Re-Slope:	1.000000
A1 (Gain):	0.230397	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999598	Status:	OK.
Std Error of Est:	0.000118		
Predicted MDL:	0.001896		
Predicted MQL:	0.006320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00037	.000	1
S1	.01200	.00949	-.003	-20.9	.00250	.000	1
S2	.80000	.74962	-.050	-6.30	.17290	.001	1
S3	2.5000	2.4254	-.075	-2.98	.55861	.001	1
S4	5.0000	4.8824	-.118	-2.35	1.1241	.002	1
S5	10.000	10.245	.245	2.45	2.3585	.019	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



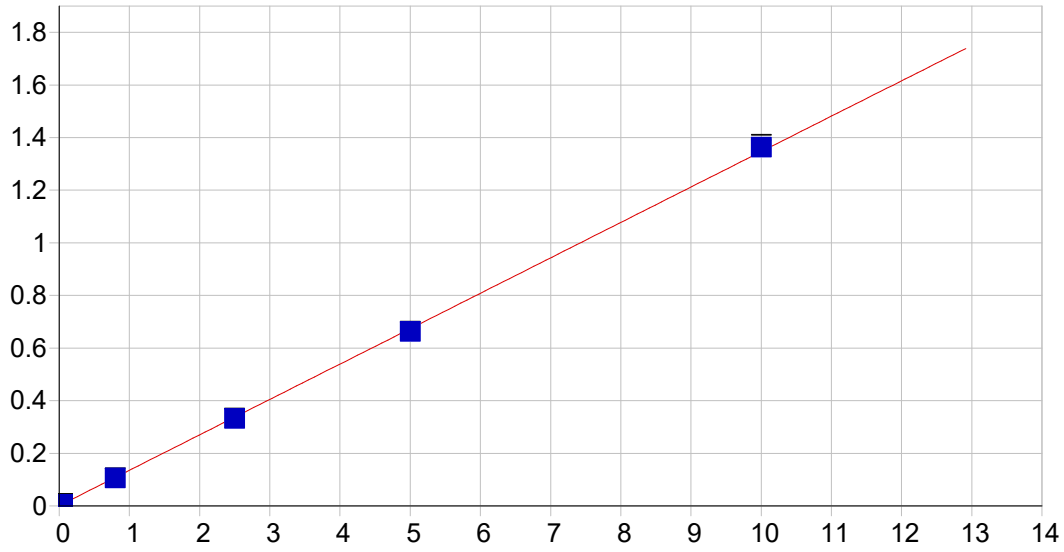
Se 196.090 {472}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000071	Re-Slope:	1.000000
A1 (Gain):	0.058442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.004666		
Predicted MQL:	0.015552		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.02000	.01862	-.001	-6.90	.00116	.000	1
S2	.80000	.78288	-.017	-2.14	.04580	.000	1
S3	2.5000	2.4542	-.046	-1.83	.14343	.001	1
S4	5.0000	4.9224	-.078	-1.55	.28760	.001	1
S5	10.000	10.142	.142	1.42	.59249	.004	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



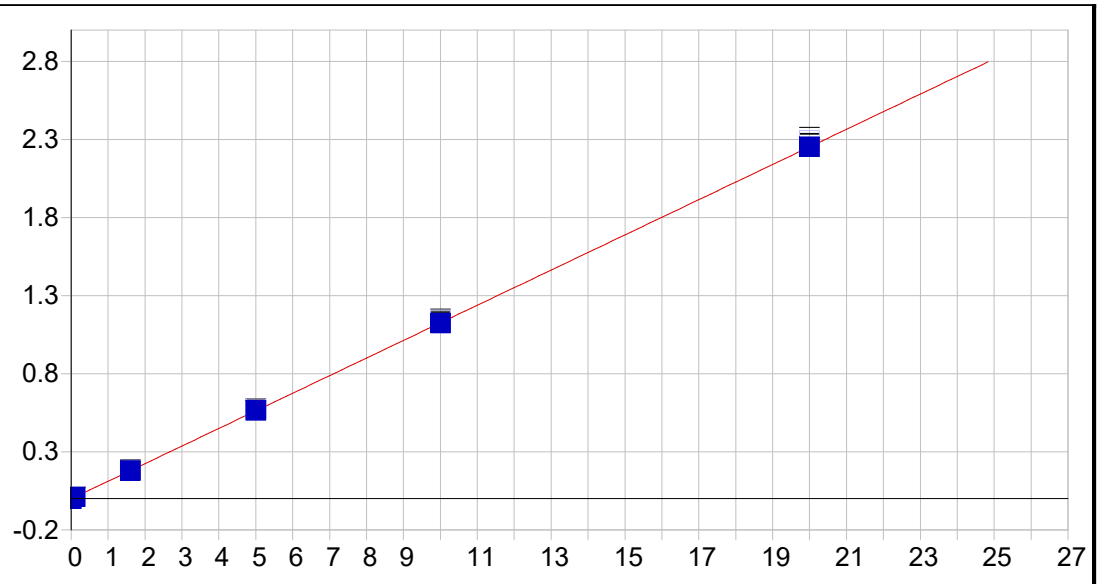
Sb 206.833 {463}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000803	Re-Slope:	1.000000
A1 (Gain):	0.134589	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999894	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.002823		
Predicted MQL:	0.009412		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00080	.000	1
S1	.05000	.05182	.002	3.63	.00771	.000	1
S2	.80000	.78168	-.018	-2.29	.10585	.000	1
S3	2.5000	2.4654	-.035	-1.38	.33211	.001	1
S4	5.0000	4.9216	-.078	-1.57	.66218	.001	1
S5	10.000	10.129	.129	1.29	1.3621	.010	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



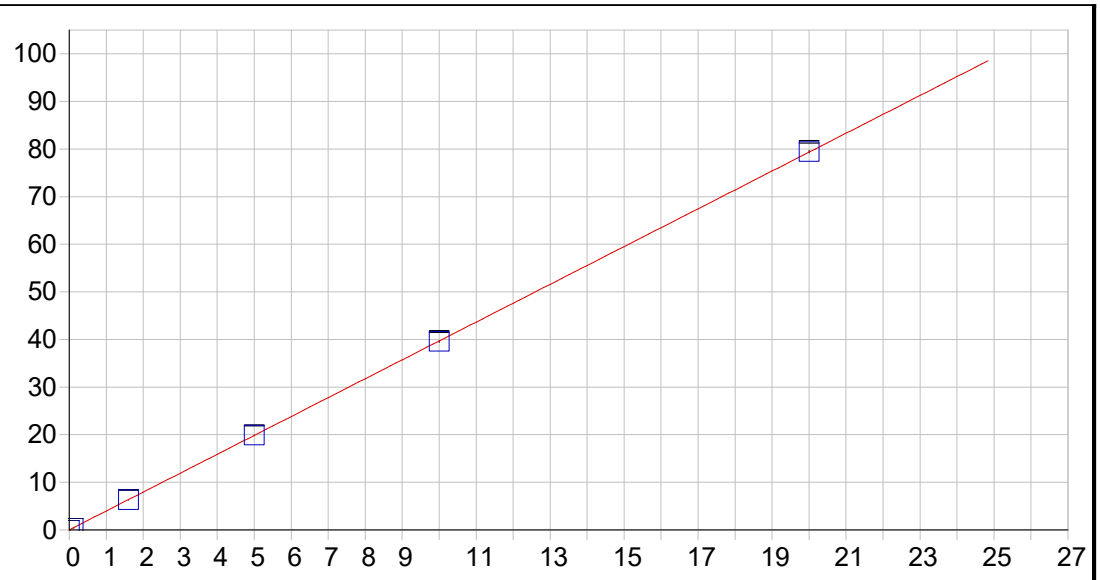
Al 396.152 { 85}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000971	Re-Slope:	1.000000
A1 (Gain):	0.112649	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.027046		
Predicted MQL:	0.090153		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00097	.003	1
S1	.10000	.10804	.008	8.04	.01204	.002	1
S2	1.6000	1.6018	.002	.112	.18283	.001	1
S3	5.0000	5.0155	.016	.311	.57451	.001	1
S4	10.000	9.9780	-.022	-.220	1.1440	.006	1
S5	20.000	19.996	-.004	-.019	2.2935	.019	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



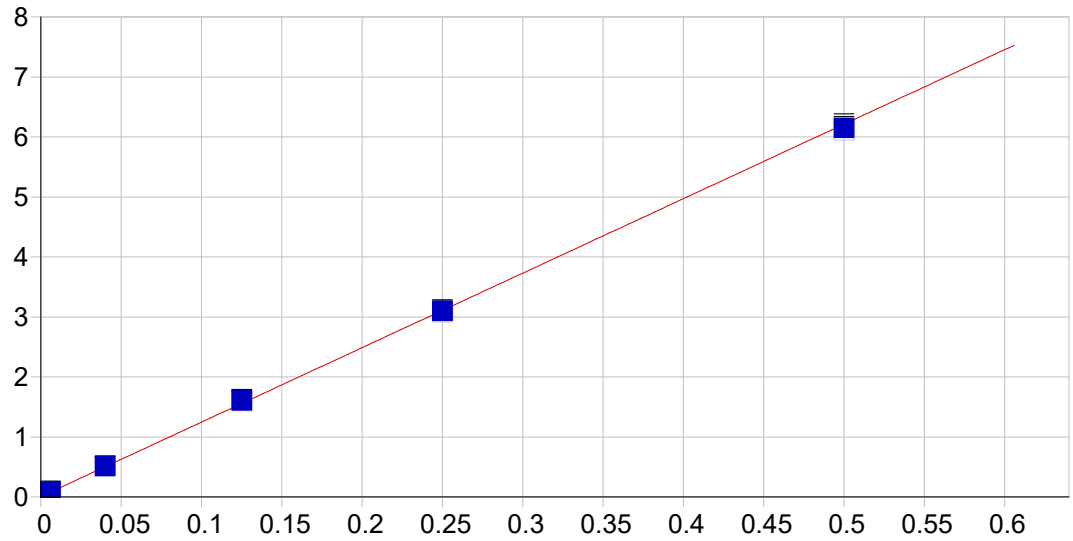
Ba 493.409 { 68}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016486	Re-Slope:	1.000000
A1 (Gain):	3.967012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000629		
Predicted MDL:	0.001210		
Predicted MQL:	0.004032		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01648	.003	1
S1	.10000	.10153	.002	1.53	.41925	.007	1
S2	1.6000	1.5900	-.010	-.627	6.3239	.042	1
S3	5.0000	5.0097	.010	.195	19.890	.103	1
S4	10.000	9.9792	-.021	-.208	39.604	.185	1
S5	20.000	20.020	.020	.098	79.434	.262	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



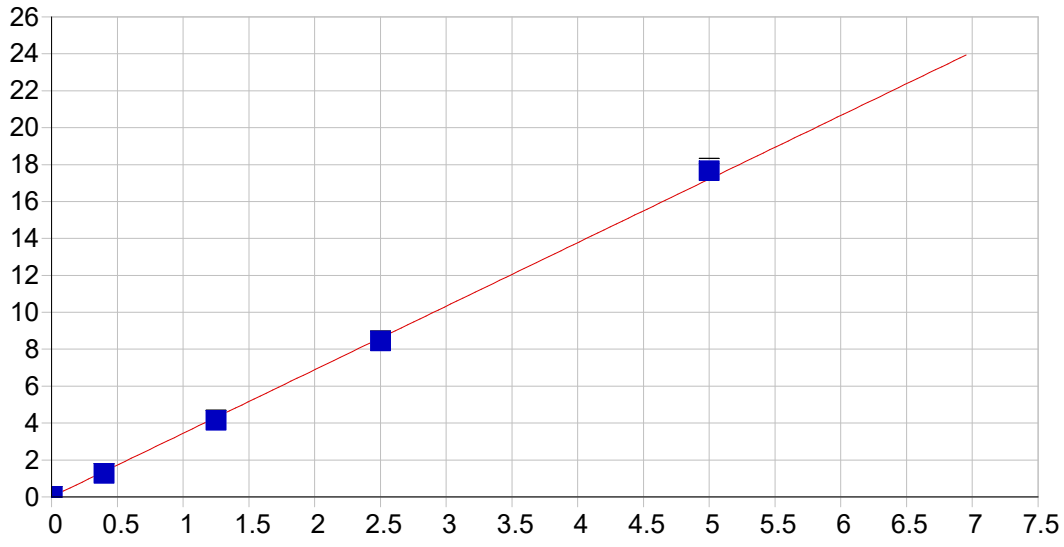
Be 234.861 {144}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005042	Re-Slope:	1.000000
A1 (Gain):	12.415382	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999778	Status:	OK.
Std Error of Est:	0.000749		
Predicted MDL:	0.000149		
Predicted MQL:	0.000496		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00502	.001	1
S1	.00600	.00712	.001	18.7	.09264	.001	1
S2	.04000	.04094	.001	2.34	.50996	.003	1
S3	.12500	.12883	.004	3.06	1.5941	.023	1
S4	.25000	.24934	-.001	-.264	3.0800	.017	1
S5	.50000	.49478	-.005	-1.04	6.1066	.071	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



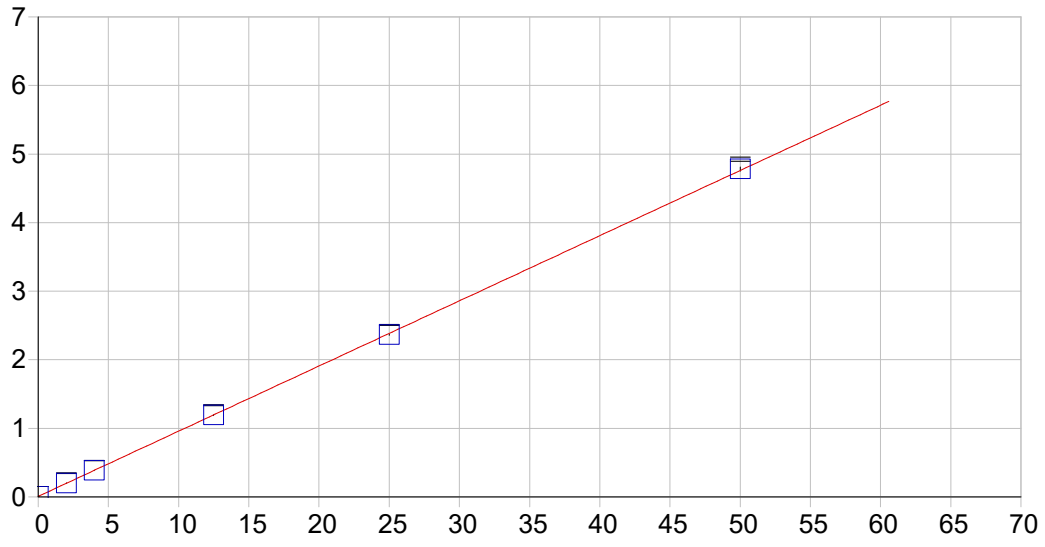
Cd 214.438 {457}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000628	Re-Slope:	1.000000
A1 (Gain):	3.443089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000947		
Predicted MDL:	0.000084		
Predicted MQL:	0.000279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00063	.000	1
S1	.00600	.00563	-.000	-6.12	.02004	.000	1
S2	.40000	.36873	-.031	-7.82	1.2703	.001	1
S3	1.2500	1.2042	-.046	-3.66	4.1471	.008	1
S4	2.5000	2.4497	-.050	-2.01	8.4360	.025	1
S5	5.0000	5.1277	.128	2.55	17.657	.140	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



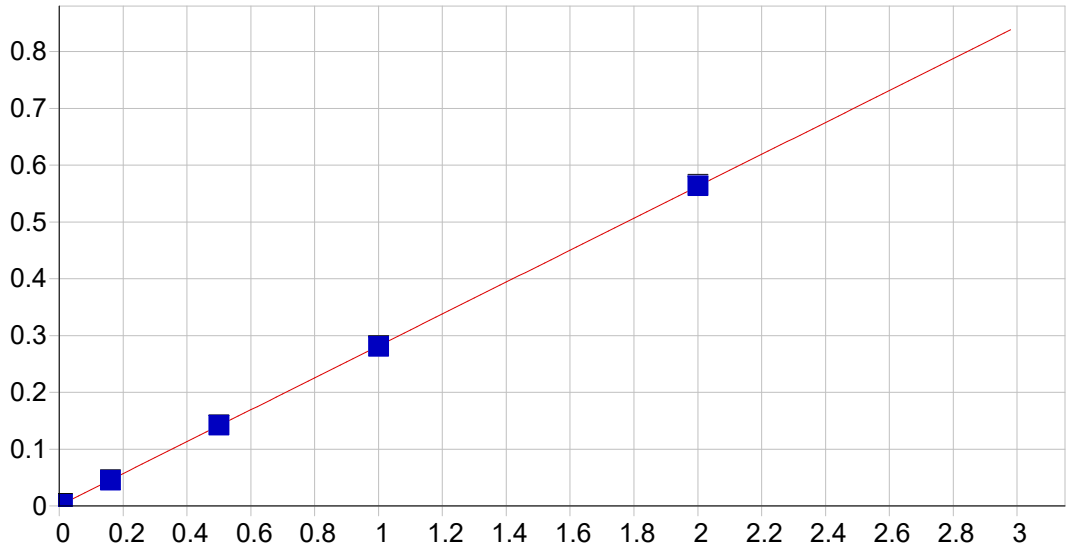
Ca 373.690 { 90}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008139	Re-Slope:	1.000000
A1 (Gain):	0.095045	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000334		
Predicted MDL:	0.025932		
Predicted MQL:	0.086440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00814	.001	1
S1	2.0000	2.0461	.046	2.31	.20261	.005	1
S2	4.0000	3.9726	-.027	-.685	.38571	.002	1
S3	12.500	12.461	-.039	-.309	1.1925	.007	1
S4	25.000	24.793	-.207	-.829	2.3646	.008	1
S5	50.000	50.227	.227	.455	4.7820	.031	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



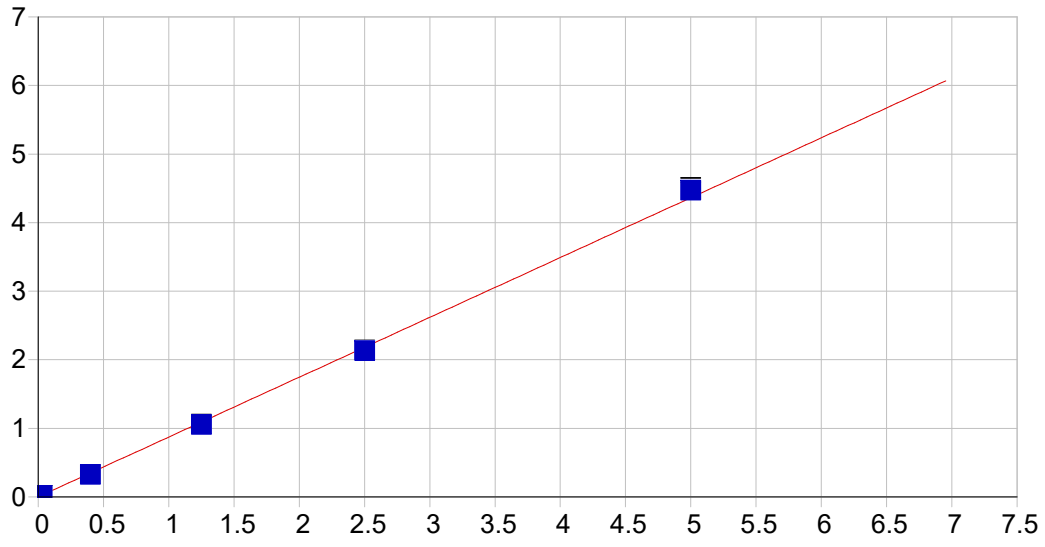
Cr 267.716 {126}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000692	Re-Slope:	1.000000
A1 (Gain):	0.281086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.000949		
Predicted MQL:	0.003164		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00069	.000	1
S1	.01000	.01050	.001	5.05	.00365	.000	1
S2	.16000	.15841	-.002	-.994	.04530	.000	1
S3	.50000	.50239	.002	.478	.14217	.000	1
S4	1.0000	.99600	-.004	-.400	.28119	.001	1
S5	2.0000	2.0027	.003	.135	.56469	.002	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



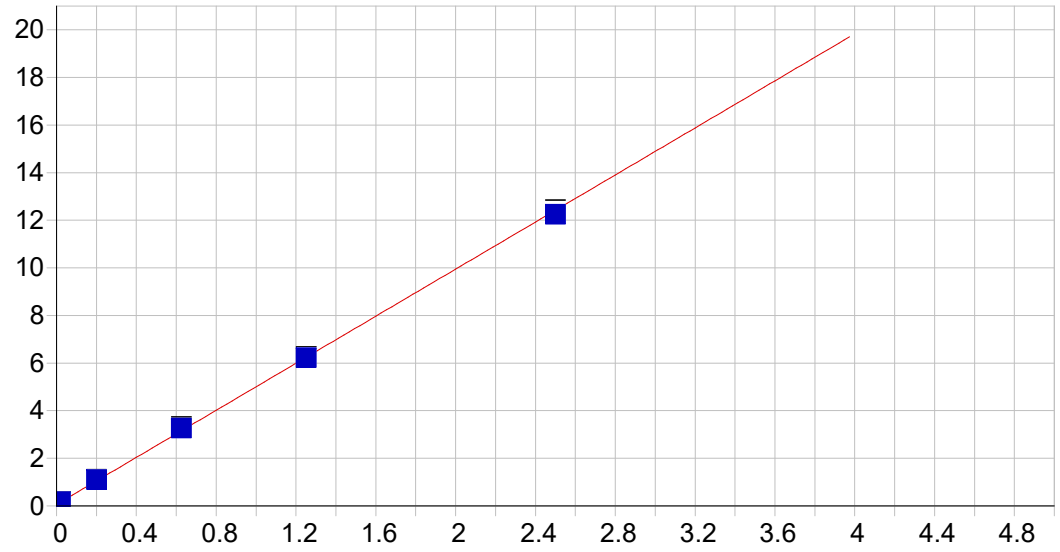
Co 228.616 {448}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000248	Re-Slope:	1.000000
A1 (Gain):	0.872710	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999595	Status:	OK.
Std Error of Est:	0.000505		
Predicted MDL:	0.000349		
Predicted MQL:	0.001162		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00025	.000	1
S1	.03000	.02936	-.001	-2.13	.02572	.000	1
S2	.40000	.37399	-.026	-6.50	.32706	.000	1
S3	1.2500	1.2083	-.042	-3.34	1.0561	.003	1
S4	2.5000	2.4438	-.056	-2.25	2.1356	.005	1
S5	5.0000	5.1246	.125	2.49	4.4778	.033	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



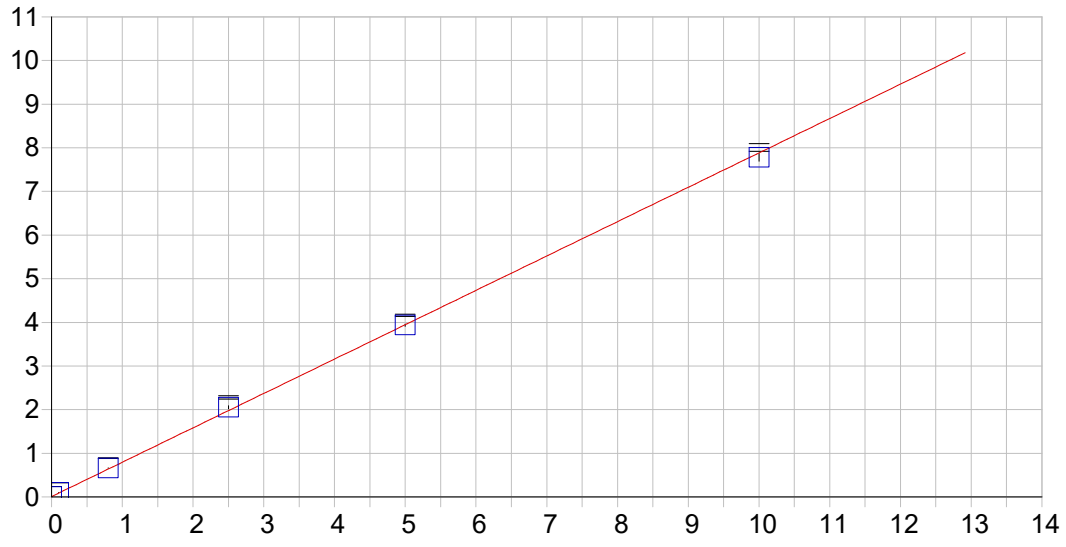
Cu 324.754 {104}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.061509	Re-Slope:	1.000000
A1 (Gain):	4.943588	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999773	Status:	OK.
Std Error of Est:	0.001236		
Predicted MDL:	0.000855		
Predicted MQL:	0.002849		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.06149	.007	1
S1	.02000	.02190	.002	9.52	.16984	.000	1
S2	.20000	.21005	.010	5.02	1.1004	.011	1
S3	.62500	.64914	.024	3.86	3.2721	.045	1
S4	1.2500	1.2479	-.002	-.166	6.2337	.033	1
S5	2.5000	2.4660	-.034	-1.36	12.258	.178	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



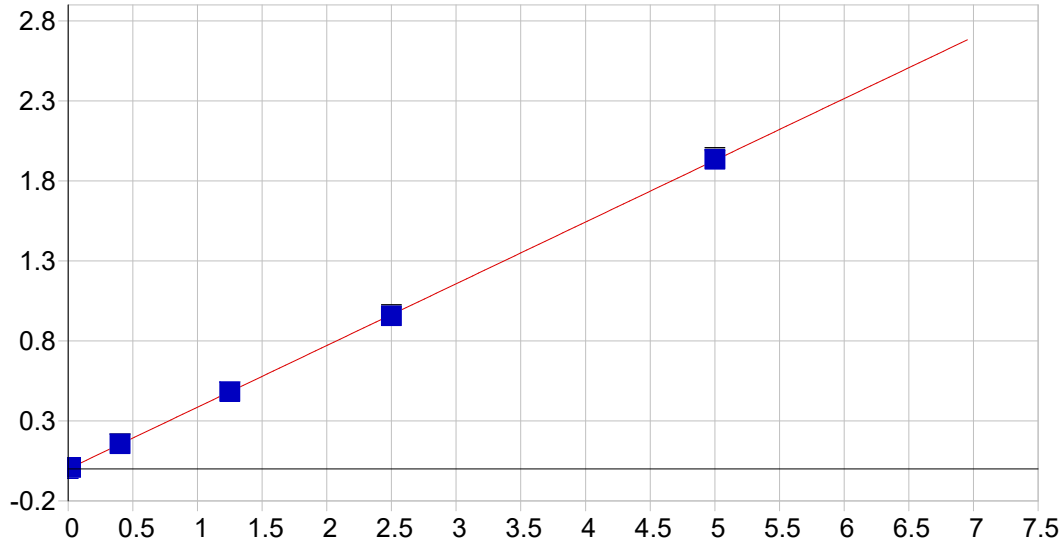
Fe 259.837 {130}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007559	Re-Slope:	1.000000
A1 (Gain):	0.787624	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999721	Status:	OK.
Std Error of Est:	0.000977		
Predicted MDL:	0.002684		
Predicted MQL:	0.008945		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00754	.003	1
S1	.10000	.11864	.019	18.6	.10100	.003	1
S2	.80000	.82641	.026	3.30	.65846	.006	1
S3	2.5000	2.6013	.101	4.05	2.0564	.037	1
S4	5.0000	4.9873	-.013	-.254	3.9357	.024	1
S5	10.000	9.8663	-.134	-1.34	7.7785	.088	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



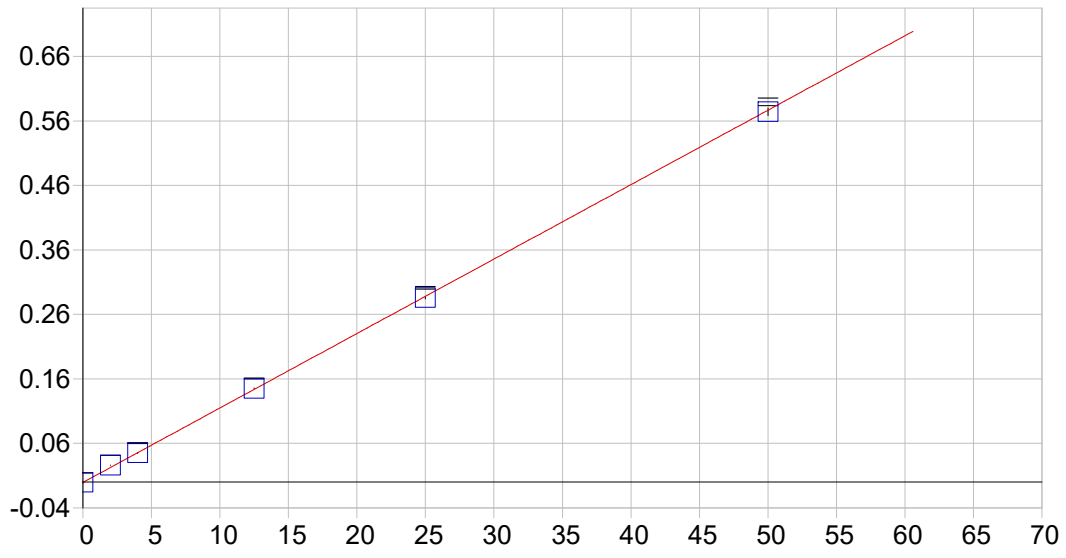
Mn 257.610 {131}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000312	Re-Slope:	1.000000
A1 (Gain):	0.385580	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.001870		
Predicted MQL:	0.006232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00031	.001	1
S1	.02000	.02056	.001	2.80	.00825	.001	1
S2	.40000	.40307	.003	.766	.15586	.002	1
S3	1.2500	1.2509	.001	.068	.48305	.002	1
S4	2.5000	2.4779	-.022	-.883	.95662	.007	1
S5	5.0000	5.0176	.018	.352	1.9367	.009	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



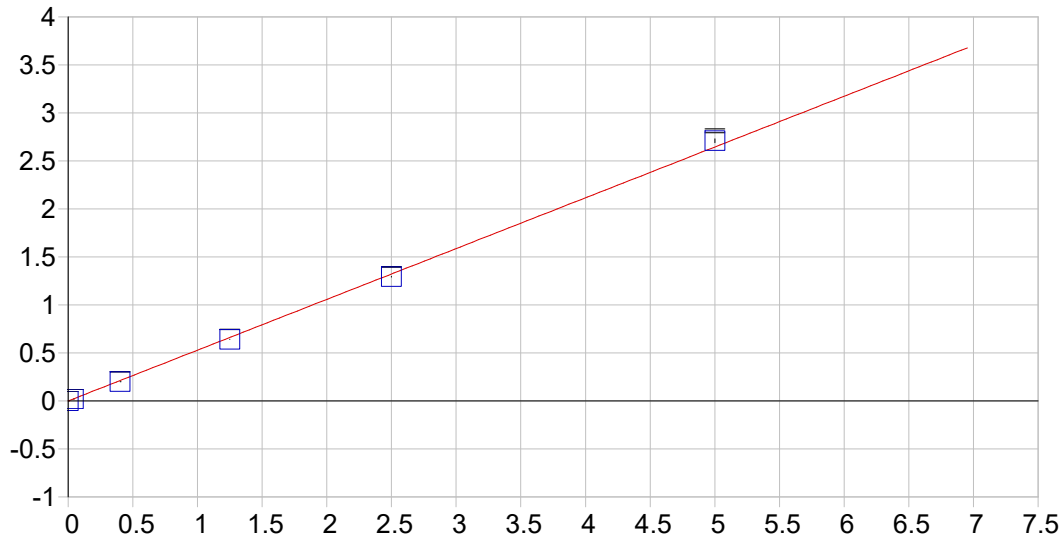
Mg 279.079 {121}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000502	Re-Slope:	1.000000
A1 (Gain):	0.011543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999727	Status:	OK.
Std Error of Est:	0.000143		
Predicted MDL:	0.076151		
Predicted MQL:	0.253837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00029	-.000	.000	-.00051	.001	1
S1	2.0000	2.3076	.308	15.4	.02613	.000	1
S2	4.0000	3.9634	-.037	-.914	.04525	.001	1
S3	12.500	12.618	.118	.947	.14516	.001	1
S4	25.000	24.818	-.182	-.727	.28598	.002	1
S5	50.000	49.792	-.208	-.415	.57427	.006	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



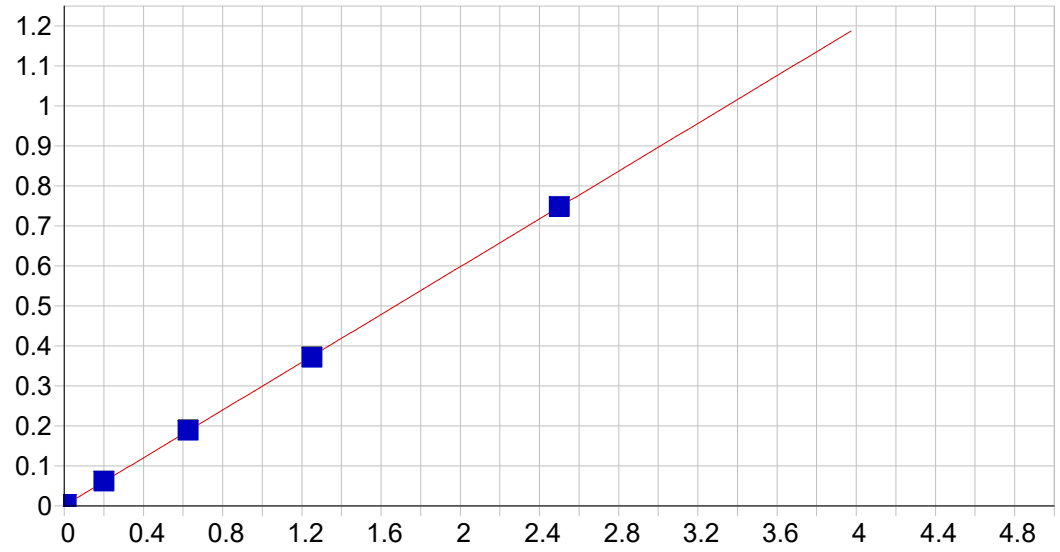
Ni 231.604 {446}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000155	Re-Slope:	1.000000
A1 (Gain):	0.528955	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999624	Status:	OK.
Std Error of Est:	0.000341		
Predicted MDL:	0.000606		
Predicted MQL:	0.002022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00015	.000	1
S1	.04000	.03864	-.001	-3.40	.02028	.000	1
S2	.40000	.37610	-.024	-5.97	.19879	.000	1
S3	1.2500	1.2112	-.039	-3.11	.64050	.002	1
S4	2.5000	2.4430	-.057	-2.28	1.2921	.003	1
S5	5.0000	5.1211	.121	2.42	2.7087	.020	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



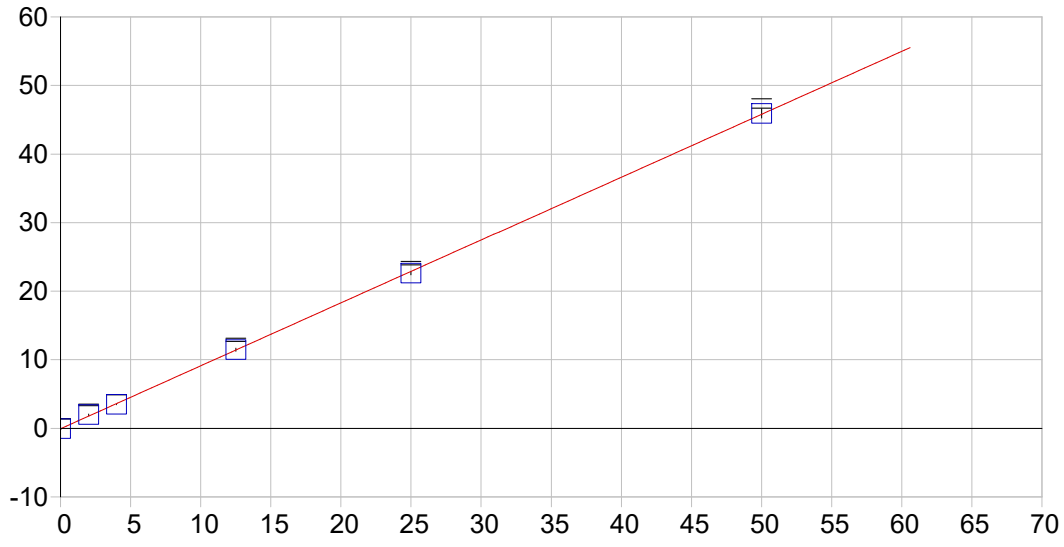
Ag 328.068 {103}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000865	Re-Slope:	1.000000
A1 (Gain):	0.298676	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.001113		
Predicted MQL:	0.003710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00086	.000	1
S1	.01000	.01123	.001	12.3	.00422	.000	1
S2	.20000	.20250	.003	1.25	.06135	.000	1
S3	.62500	.62957	.005	.731	.18890	.001	1
S4	1.2500	1.2407	-.009	-.743	.37144	.001	1
S5	2.5000	2.5010	.001	.040	.74785	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



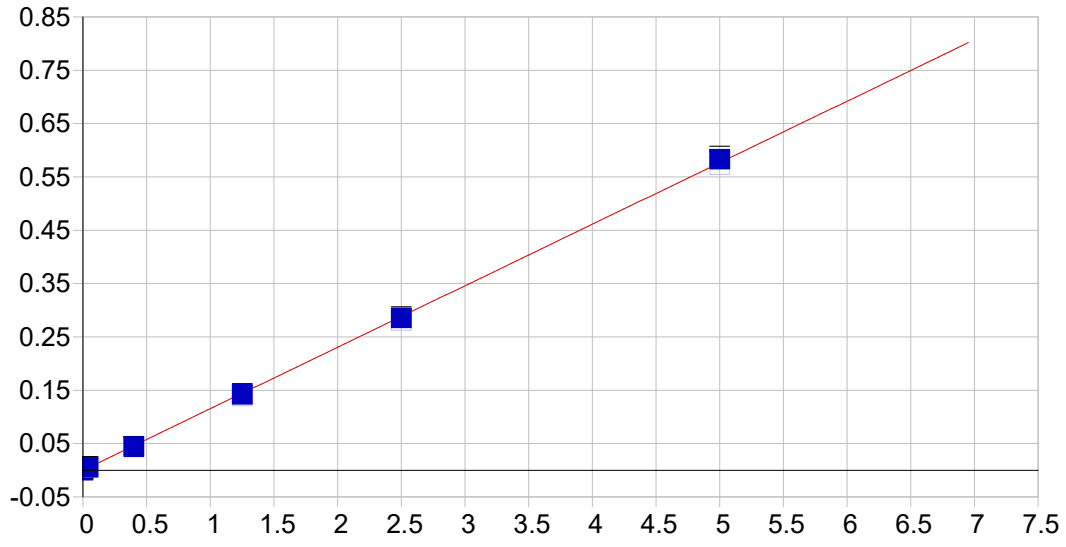
Na 818.326 { 41}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.058001	Re-Slope:	1.000000
A1 (Gain):	0.917215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.008798		
Predicted MDL:	0.014327		
Predicted MQL:	0.047757		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	-.05813	.008	1
S1	2.0000	2.2116	.212	10.6	1.9705	.103	1
S2	4.0000	3.8588	-.141	-3.53	3.4814	.023	1
S3	12.500	12.565	.065	.523	11.467	.231	1
S4	25.000	24.740	-.260	-1.04	22.634	.261	1
S5	50.000	50.124	.124	.248	45.916	.685	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



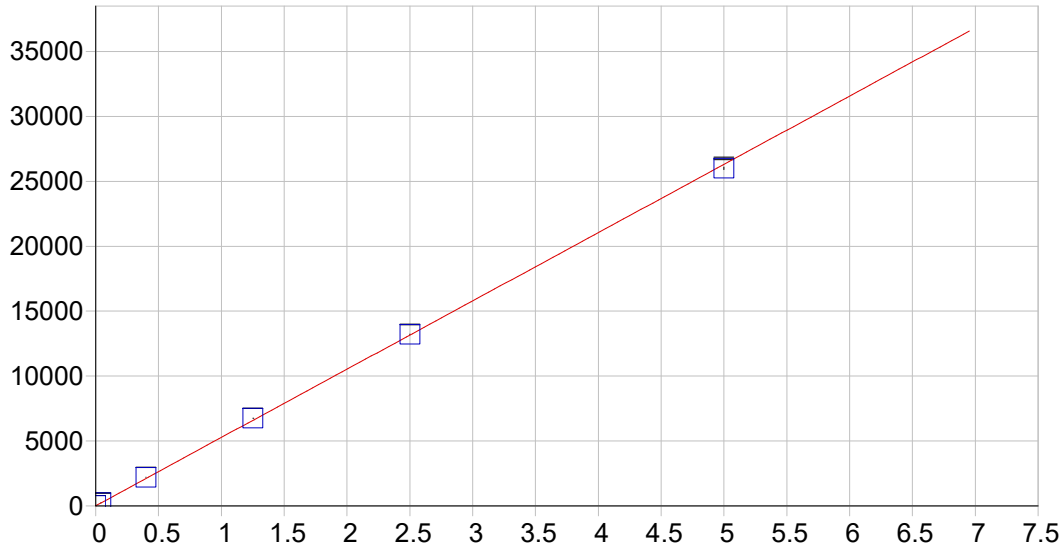
V 292.402 {115}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.115319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999811	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.009571		
Predicted MQL:	0.031904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.001	1
S1	.04000	.04701	.007	17.5	.00526	.001	1
S2	.40000	.38072	-.019	-4.82	.04312	.001	1
S3	1.2500	1.2295	-.020	-1.64	.13926	.002	1
S4	2.5000	2.4763	-.024	-.947	.28046	.002	1
S5	5.0000	5.0566	.057	1.13	.57287	.006	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



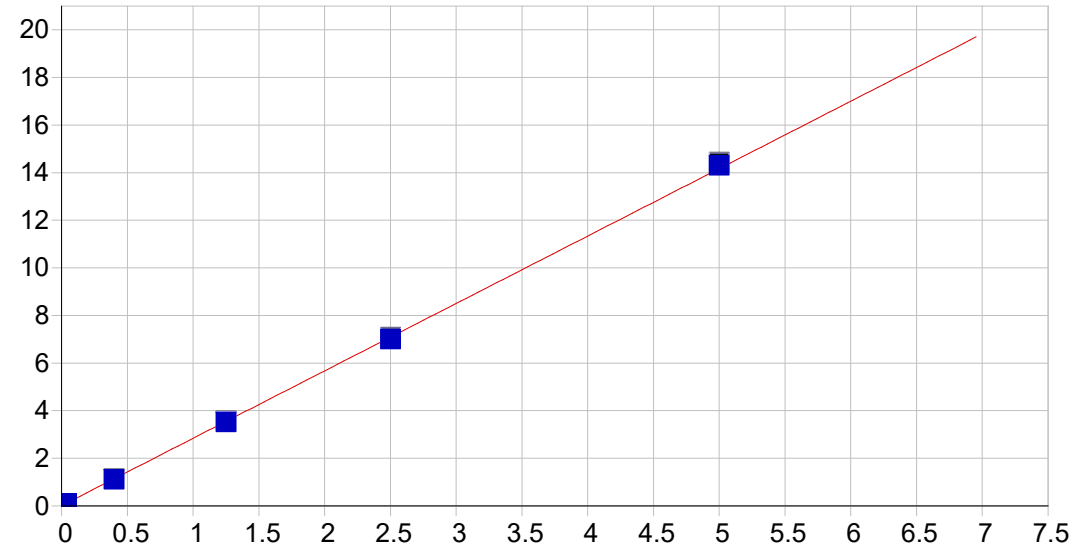
Zn 206.200 {464}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	13.321209	Re-Slope:	1.000000
A1 (Gain):	5258.952068	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	1.984374		
Predicted MDL:	0.000249		
Predicted MQL:	0.000830		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	13.296	.241	1
S1	.04000	.04251	.003	6.27	236.87	8.04	1
S2	.40000	.41653	.017	4.13	2203.8	2.50	1
S3	1.2500	1.2815	.032	2.52	6752.7	8.88	1
S4	2.5000	2.5090	.009	.359	13208.	26.0	1
S5	5.0000	4.9405	-.060	-1.19	25995.	102.	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



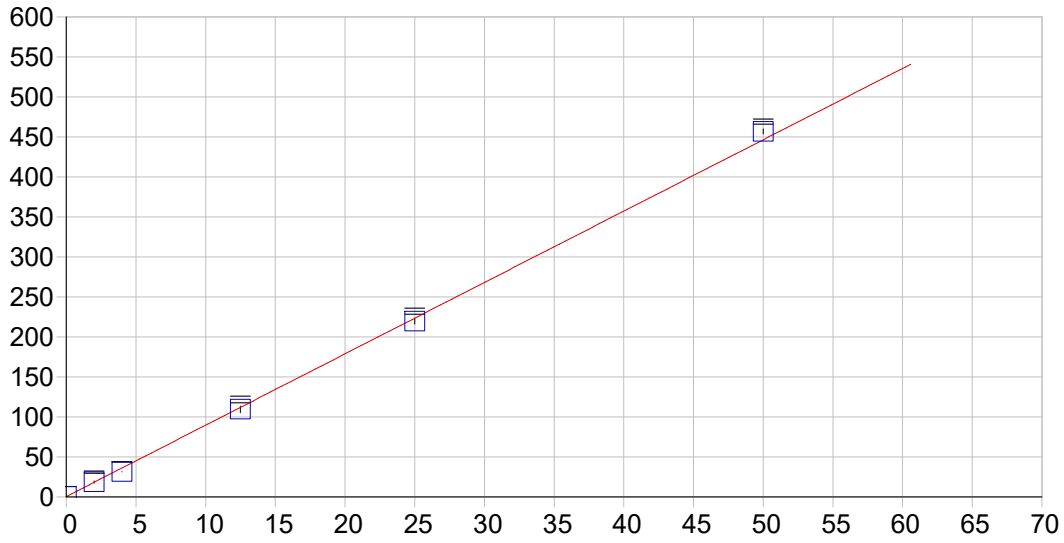
Zn 213.856 {158}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007682	Re-Slope:	1.000000
A1 (Gain):	2.832576	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000740		
Predicted MDL:	0.000460		
Predicted MQL:	0.001533		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00769	.001	1
S1	.04000	.03925	-.001	-1.87	.11970	.001	1
S2	.40000	.39027	-.010	-2.43	1.1214	.007	1
S3	1.2500	1.2408	-.009	-.738	3.5480	.011	1
S4	2.5000	2.4708	-.029	-1.17	7.0579	.031	1
S5	5.0000	5.0489	.049	.978	14.412	.030	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



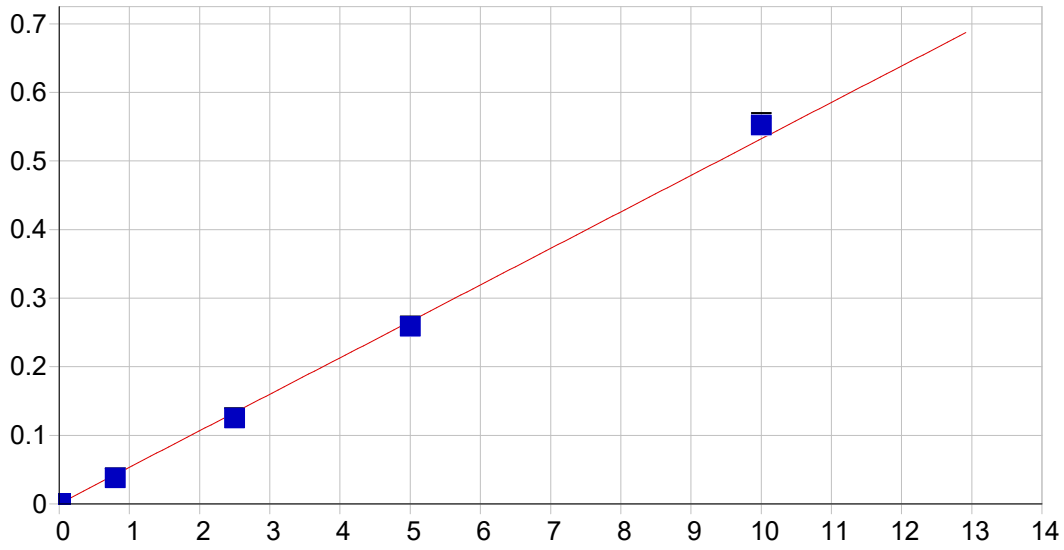
K 769.896 { 44}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.487713	Re-Slope:	1.000000
A1 (Gain):	8.918540	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999418	Status:	OK.
Std Error of Est:	0.160990		
Predicted MDL:	0.001313		
Predicted MQL:	0.004378		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00025	.000	.000	.48996	.038	1
S1	2.0000	2.0384	.038	1.92	18.667	1.42	1
S2	4.0000	3.4784	-.522	-13.0	31.510	.207	1
S3	12.500	12.226	-.274	-2.19	109.53	4.27	1
S4	25.000	24.589	-.411	-1.64	219.78	3.89	1
S5	50.000	51.168	1.17	2.34	456.83	3.34	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



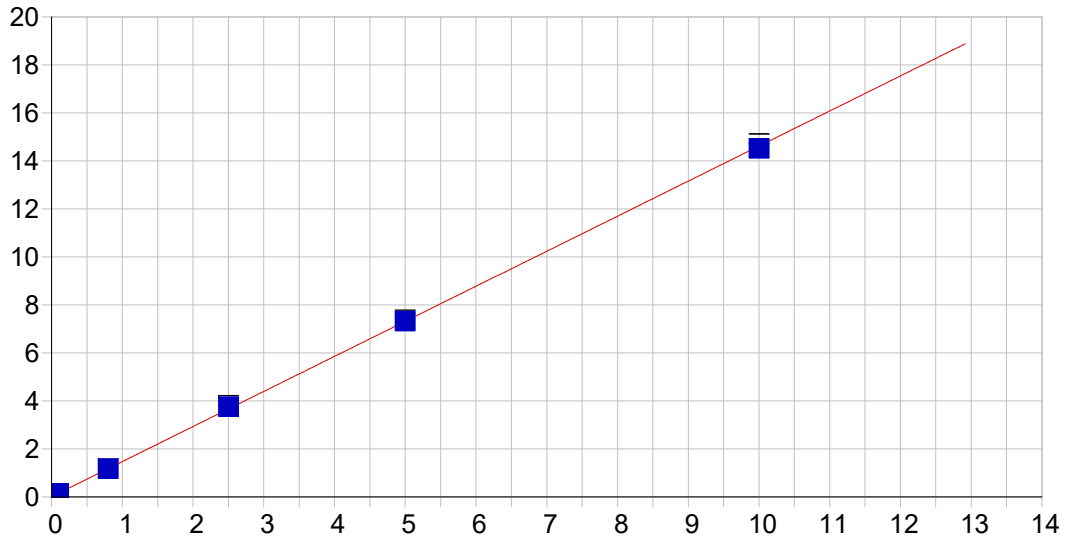
P 177.495 {490}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000233	Re-Slope:	1.000000
A1 (Gain):	0.053182	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998972	Status:	OK.
Std Error of Est:	0.000056		
Predicted MDL:	0.002775		
Predicted MQL:	0.009250		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.000	1
S1	.02000	.02105	.001	5.25	.00134	.000	1
S2	.80000	.70886	-.091	-11.4	.03783	.000	1
S3	2.5000	2.3510	-.149	-5.96	.12495	.001	1
S4	5.0000	4.8604	-.140	-2.79	.25811	.001	1
S5	10.000	10.379	.379	3.79	.55097	.004	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



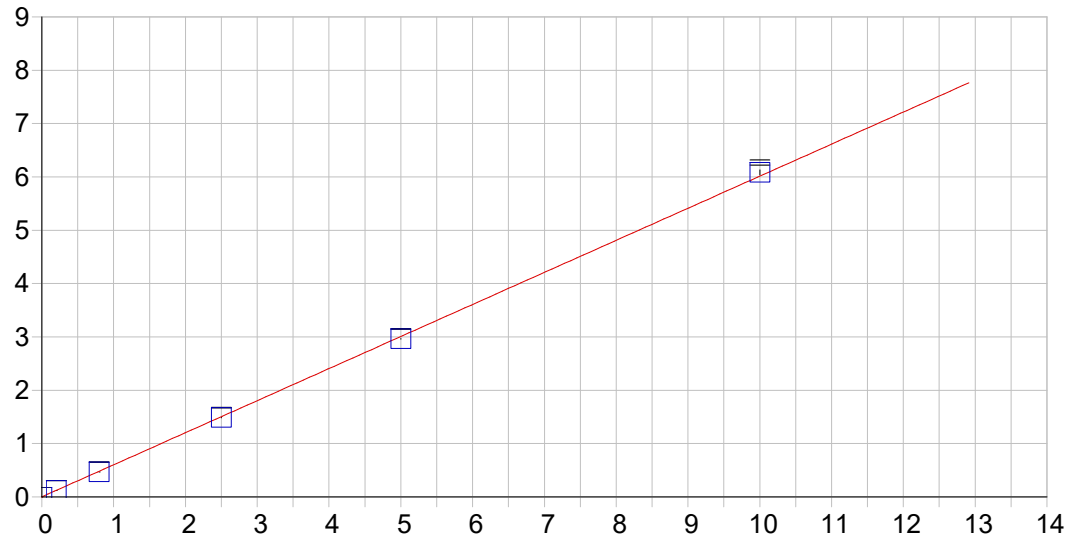
B 249.678 {135}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012349	Re-Slope:	1.000000
A1 (Gain):	1.460640	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000846		
Predicted MDL:	0.001606		
Predicted MQL:	0.005352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01234	.002	1
S1	.10000	.10493	.005	4.93	.16545	.000	1
S2	.80000	.79615	-.004	-.481	1.1744	.010	1
S3	2.5000	2.5614	.061	2.45	3.7508	.056	1
S4	5.0000	5.0056	.006	.112	7.3182	.048	1
S5	10.000	9.9320	-.068	-.680	14.508	.200	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



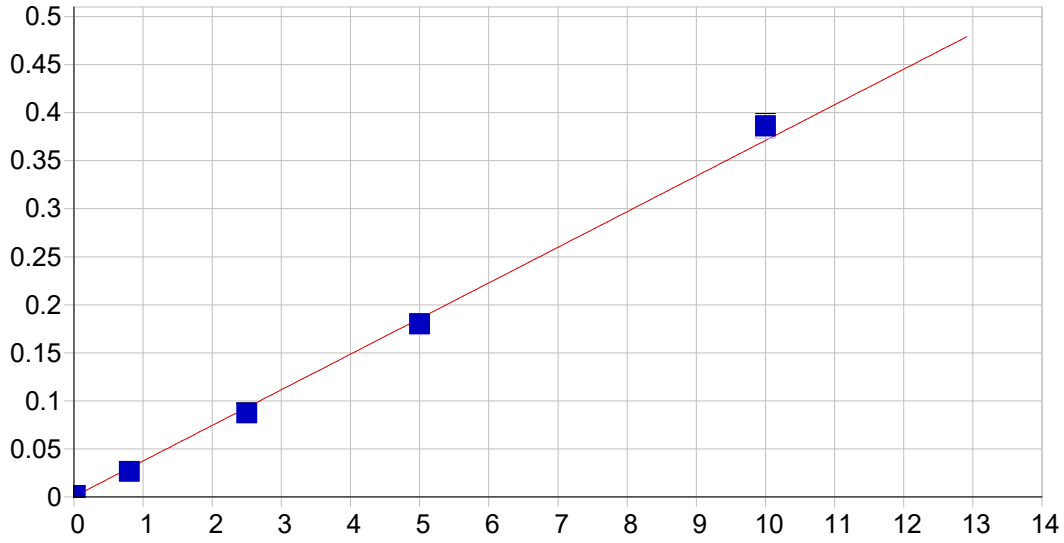
Mo 202.030 {467}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000911	Re-Slope:	1.000000
A1 (Gain):	0.601269	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.000605		
Predicted MDL:	0.000519		
Predicted MQL:	0.001731		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00092	.000	1
S1	.20000	.20066	.001	.332	.12156	.000	1
S2	.80000	.78095	-.019	-2.38	.47047	.000	1
S3	2.5000	2.4720	-.028	-1.12	1.4872	.006	1
S4	5.0000	4.9248	-.075	-1.50	2.9620	.006	1
S5	10.000	10.122	.122	1.22	6.0867	.048	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



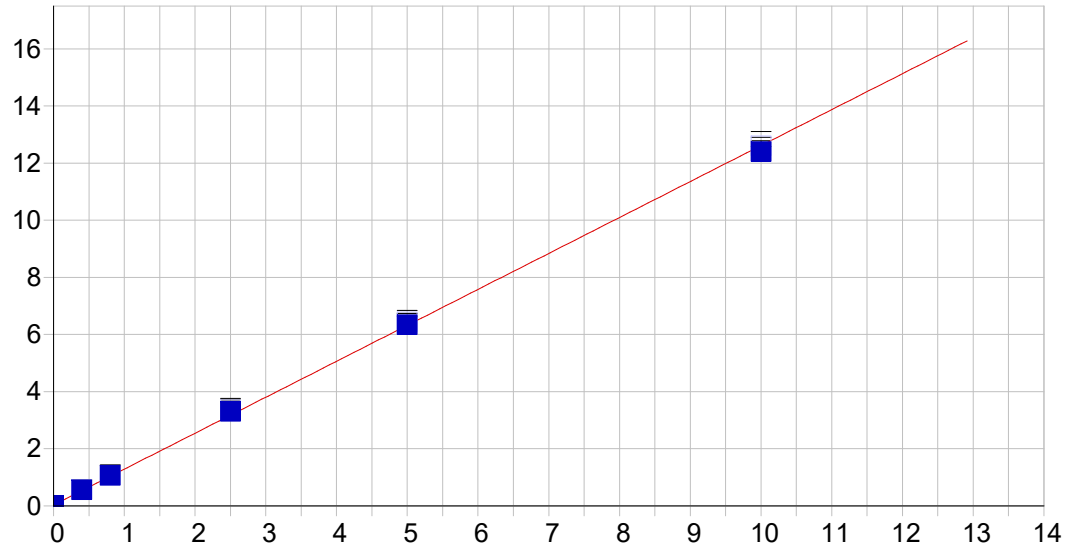
S 182.034 {485}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000338	Re-Slope:	1.000000
A1 (Gain):	0.037072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998791	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.003894		
Predicted MQL:	0.012979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.02000	.02582	.006	29.1	.00124	.000	1
S2	.80000	.70279	-.097	-12.2	.02619	.000	1
S3	2.5000	2.3453	-.155	-6.19	.08667	.000	1
S4	5.0000	4.8466	-.153	-3.07	.17878	.000	1
S5	10.000	10.400	.400	4.00	.38342	.003	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



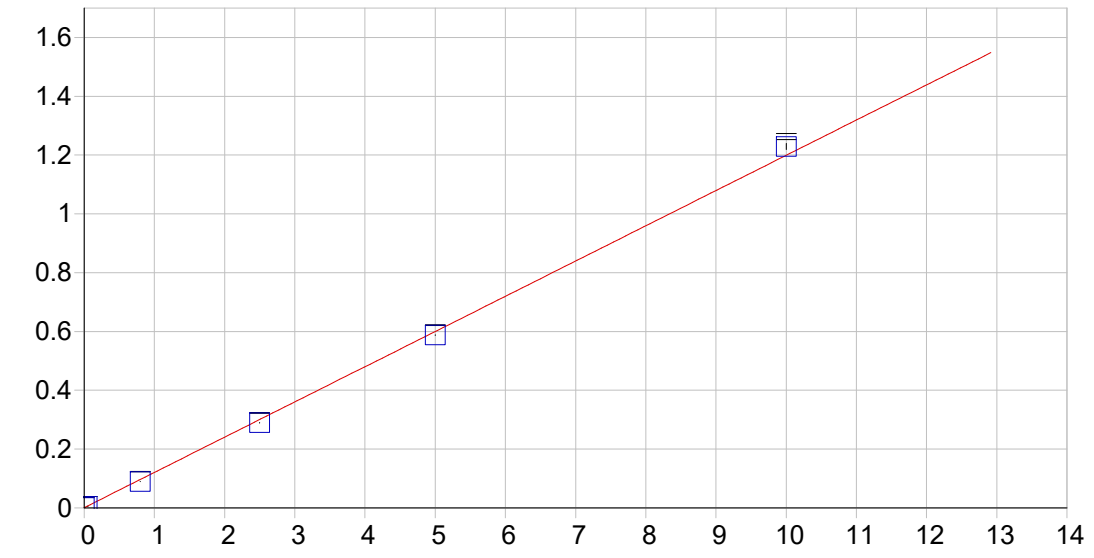
Si 251.611 {134}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.027927	Re-Slope:	1.000000
A1 (Gain):	1.258710	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999746	Status:	OK.
Std Error of Est:	0.003050		
Predicted MDL:	0.001693		
Predicted MQL:	0.005644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.02787	.004	1
S1	.40000	.42519	.025	6.30	.56604	.010	1
S2	.80000	.82373	.024	2.97	1.0810	.007	1
S3	2.5000	2.6062	.106	4.25	3.3593	.056	1
S4	5.0000	5.0166	.017	.331	6.4441	.059	1
S5	10.000	9.8285	-.171	-1.71	12.603	.161	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



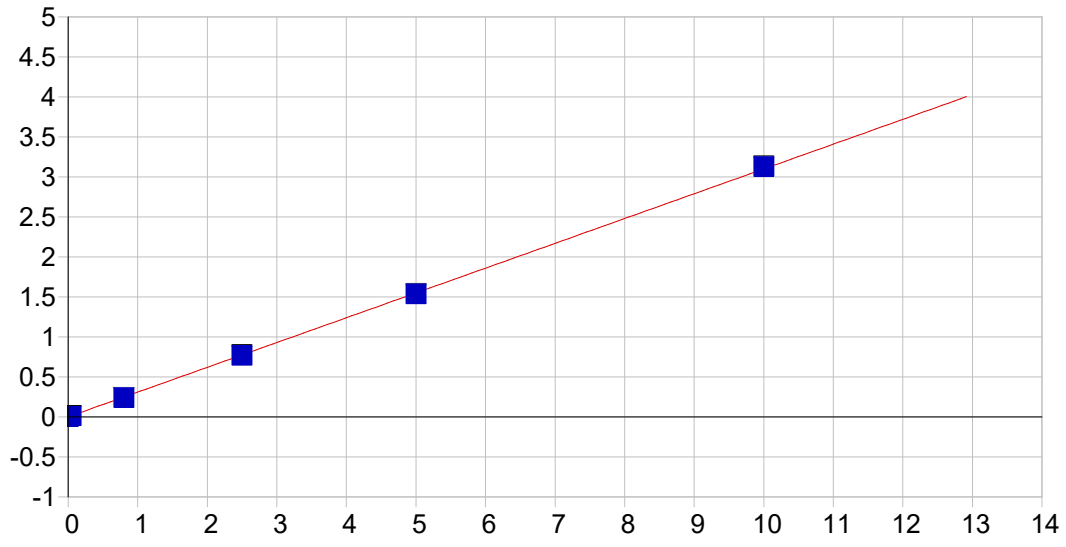
Sn 189.989 {478}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000896	Re-Slope:	1.000000
A1 (Gain):	0.119821	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999564	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.001138		
Predicted MQL:	0.003794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00090	.000	1
S1	.04000	.03956	-.000	-1.10	.00564	.000	1
S2	.80000	.74076	-.059	-7.40	.08965	.000	1
S3	2.5000	2.4095	-.090	-3.62	.28961	.001	1
S4	5.0000	4.8993	-.101	-2.01	.58794	.001	1
S5	10.000	10.251	.251	2.51	1.2292	.010	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



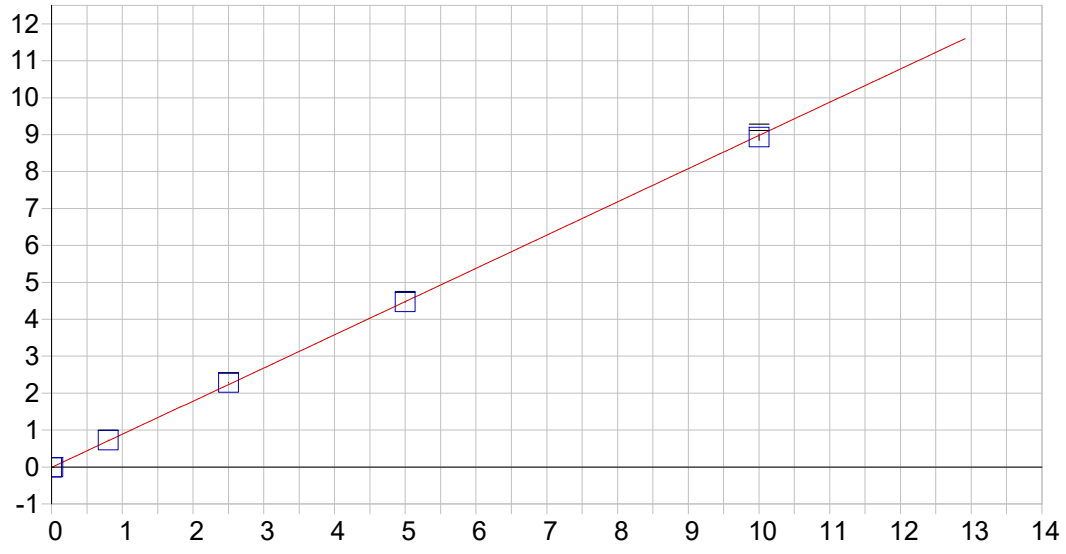
Ti 336.121 {100}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000231	Re-Slope:	1.000000
A1 (Gain):	0.309959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000107		
Predicted MDL:	0.005033		
Predicted MQL:	0.016777		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00023	.001	1
S1	.04000	.04149	.001	3.73	.01262	.001	1
S2	.80000	.77979	-.020	-2.53	.24135	.002	1
S3	2.5000	2.4763	-.024	-.949	.76693	.008	1
S4	5.0000	4.9545	-.045	-.910	1.5347	.007	1
S5	10.000	10.088	.088	.879	3.1251	.009	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434



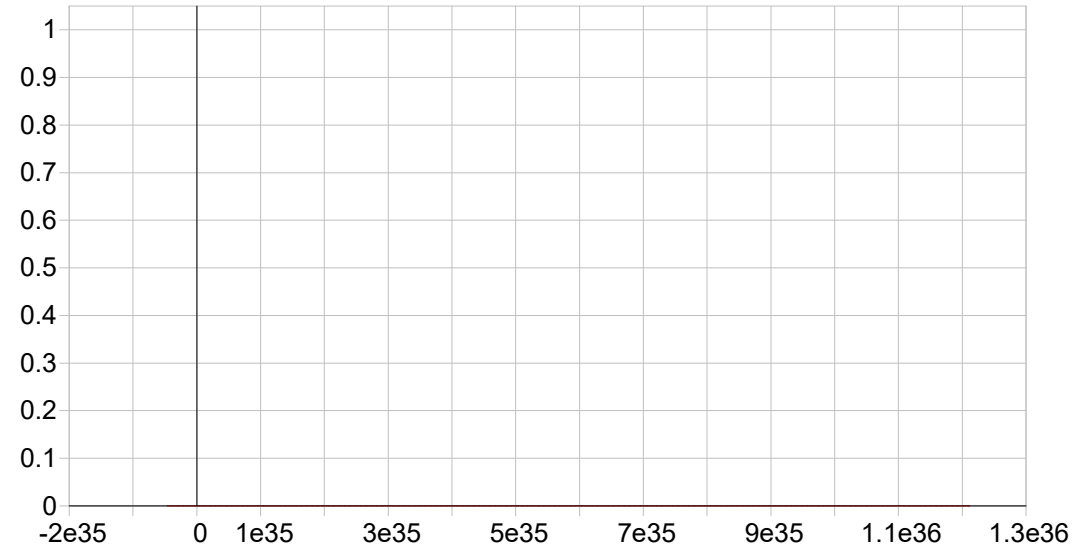
Li 670.784 { 50}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.015712	Re-Slope:	1.000000
A1 (Gain):	0.899381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.000367		
Predicted MDL:	0.007847		
Predicted MQL:	0.026158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.01571	.008	1
S5	10.000	9.9456	-.054	-.544	8.9292	.088	1
S4	5.0000	4.9882	-.012	-.236	4.4706	.016	1
S3	2.5000	2.5535	.053	2.14	2.2809	.005	1
S2	.80000	.82110	.021	2.64	.72277	.002	1
S1	.02000	.01159	-.008	-42.0	-.00529	.002	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434

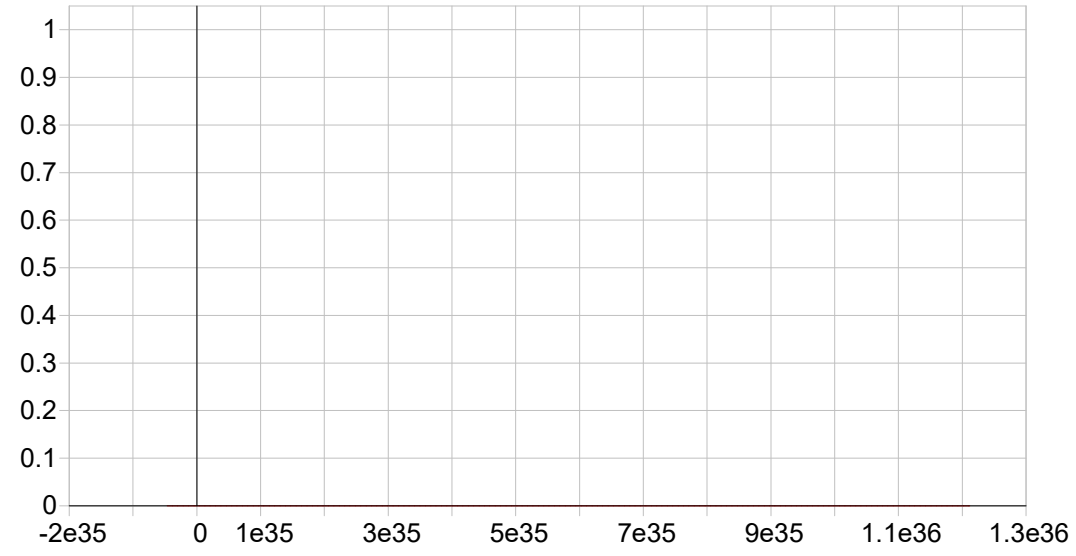


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

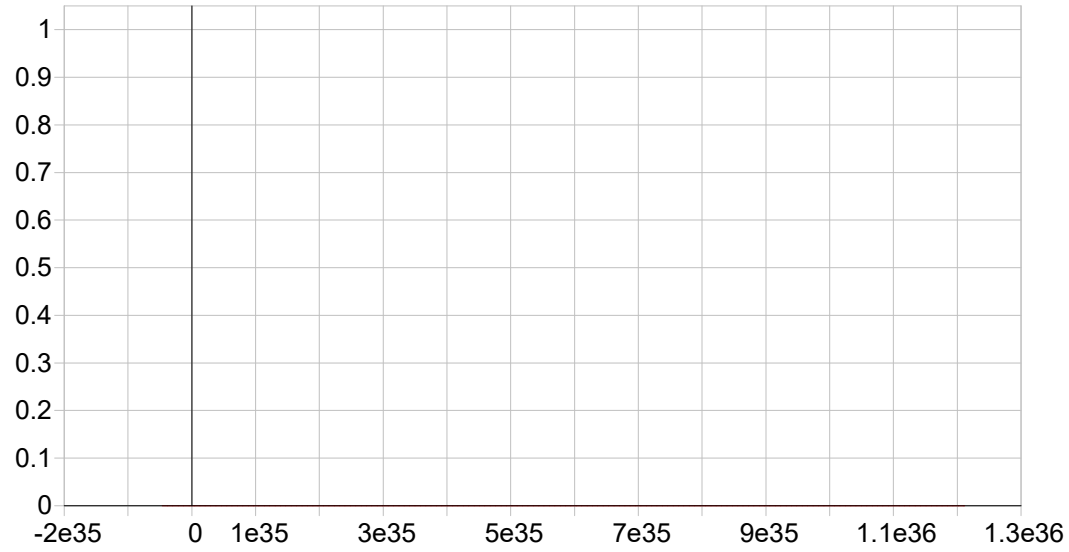
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P5
LB :LB136434

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

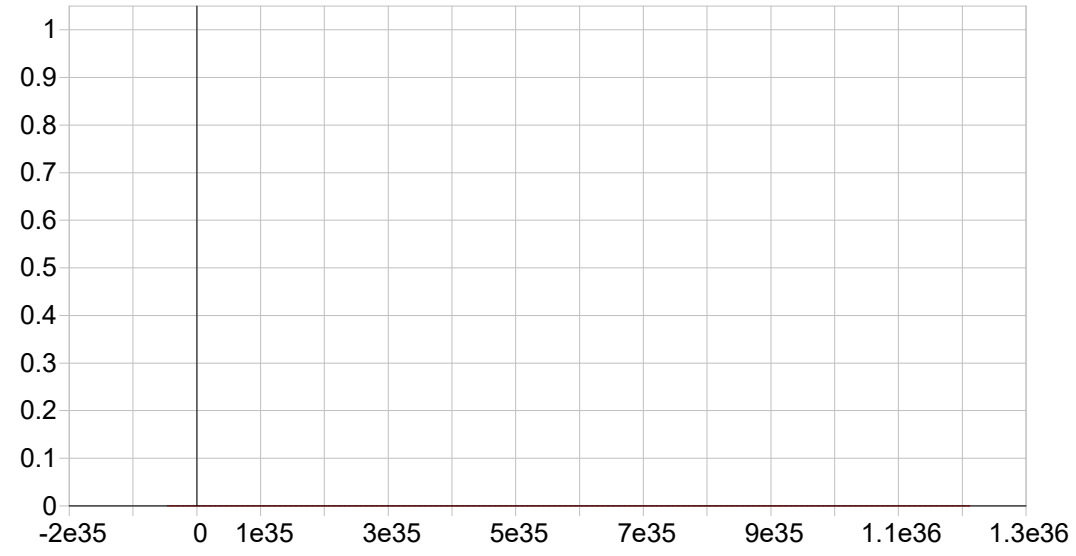


Y 371.030 { 91}*

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 :P5
LB :LB136434

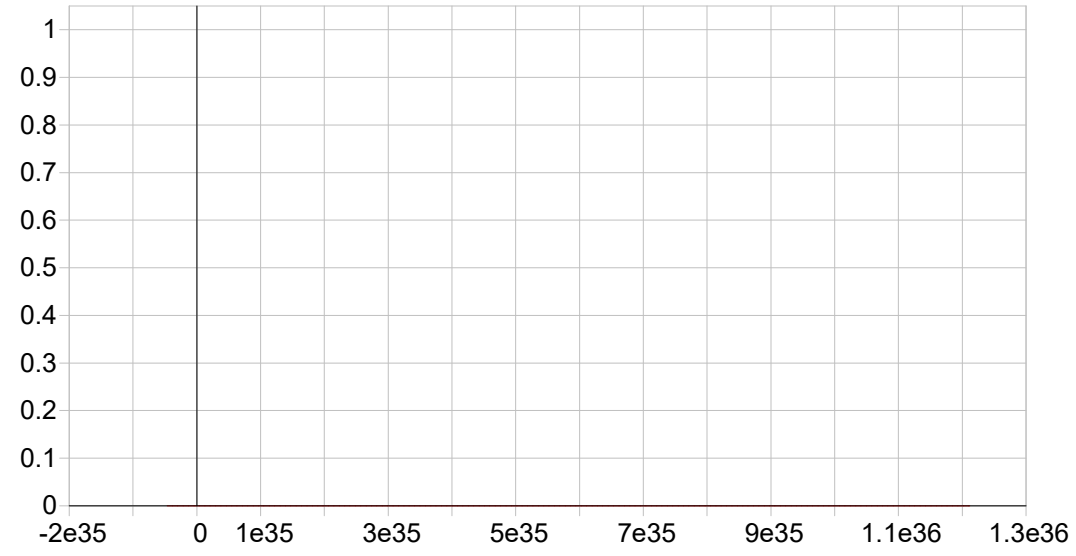


Y 224.306 {150}*

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}*

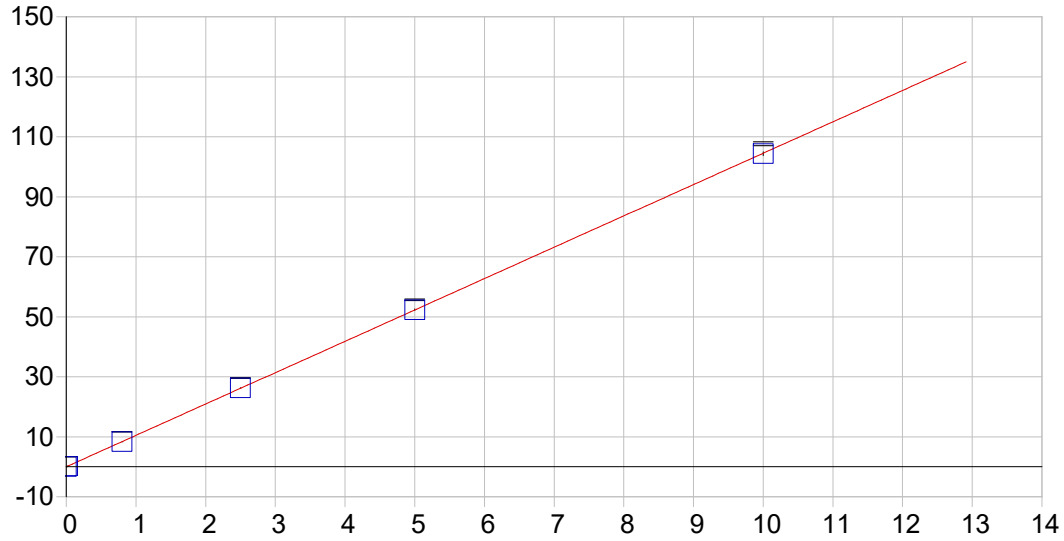
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P5
LB :LB136434

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

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



Sr 407.771 { 83}

Date of Fit:	7/10/2025 6:05:05	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002498	Re-Slope:	1.000000
A1 (Gain):	10.451318	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000577		
Predicted MDL:	0.000266		
Predicted MQL:	0.000887		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00249	.004	1
S1	.02000	.02035	.000	1.74	.21515	.001	1
S2	.80000	.79887	-.001	-.141	8.3517	.028	1
S3	2.5000	2.5125	.013	.501	26.262	.087	1
S4	5.0000	5.0047	.005	.093	52.308	.270	1
S5	10.000	9.9836	-.016	-.164	104.34	.612	1

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S0 Acquired: 7/10/2025 16:46:00 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**-.00009**	**-.00053**	**.00037**	**.00007**	**.00080**	**-.00097**	**.01648**	**.00502**
Stddev	.00007	.00006	.00042	.00032	.00007	.00329	.00301	.00098
%RSD	74.573	10.401	113.56	455.35	9.2343	338.50	18.256	19.448
#1	-.00004	-.00048	.00063	.00044	.00073	.00275	.01506	.00613
#2	-.00017	-.00052	-.00012	-.00007	.00088	-.00216	.01994	.00428
#3	-.00007	-.00059	.00060	-.00016	.00080	-.00350	.01445	.00466

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00063**	**.00814**	**.00069**	**.00025**	**.06149**	**.00754**	**.00031**	**-.00051**
Stddev	.00013	.00090	.00013	.00008	.00691	.00324	.00132	.00064
%RSD	20.704	11.002	18.128	33.228	11.229	42.982	423.56	127.01
#1	.00078	.00858	.00078	.00018	.06171	.01069	.00181	-.00053
#2	.00059	.00711	.00074	.00024	.06829	.00772	-.00070	.00015
#3	.00052	.00873	.00055	.00034	.05448	.00421	-.00017	-.00113

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00015**	**.00086**	**-.05813**	**.00004**	**.00769**	**.48996**	**.00023**	**.01234**
Stddev	.00035	.00022	.00816	.00112	.00110	.03825	.00012	.00246
%RSD	233.06	24.934	14.042	2950.0	14.370	7.8065	51.483	19.946
#1	.00015	.00111	-.05339	.00133	.00803	.53405	.00017	.01518
#2	-.00054	.00069	-.05343	-.00052	.00858	.47019	.00037	.01098
#3	-.00006	.00079	-.06755	-.00069	.00645	.46565	.00016	.01086

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00092**	**.00034**	**.02787**	**.00090**	**-.00023**	**-.01571**	**.00249**
Stddev	.00026	.00007	.00359	.00006	.00092	.00772	.00446
%RSD	28.194	20.965	12.894	6.3438	399.70	49.124	179.00
#1	.00064	.00026	.02880	.00085	-.00125	-.00787	.00624
#2	.00096	.00038	.02390	.00088	.00054	-.01595	-.00245
#3	.00115	.00037	.03090	.00096	.00002	-.02330	.00369

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S0 Acquired: 7/10/2025 16:46:00 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3674.6	36436.	2321.7	2253.6	5489.9
Stddev	11.7	67.	113.0	4.2	18.4
%RSD	.31968	.18462	4.8665	.18780	.33531
#1	3661.4	36478.	2197.3	2257.7	5468.7
#2	3683.8	36358.	2349.7	2249.3	5501.6
#3	3678.6	36471.	2418.0	2254.0	5499.3

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S1 Acquired: 7/10/2025 16:50:33 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.00075**	**.00327**	**.00250**	**.00116**	**.00771**	**.01204**	**.41925**	**.09264**
Stddev	.00017	.00023	.00050	.00010	.00047	.00194	.00651	.00142
%RSD	22.433	7.0959	19.935	8.9347	6.0426	16.106	1.5516	1.5355
#1	.00070	.00300	.00215	.00114	.00796	.01427	.42169	.09424
#2	.00062	.00338	.00228	.00106	.00799	.01109	.41188	.09151
#3	.00094	.00342	.00307	.00126	.00717	.01076	.42418	.09218

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02004**	**.20261**	**.00365**	**.02572**	**.16984**	**.10100**	**.00825**	**.02613**
Stddev	.00022	.00458	.00013	.00031	.00032	.00317	.00076	.00039
%RSD	1.0926	2.2589	3.5206	1.1870	.18651	3.1412	9.2522	1.4793
#1	.01990	.20177	.00368	.02551	.16948	.10379	.00893	.02576
#2	.01992	.19851	.00351	.02607	.17003	.09755	.00743	.02611
#3	.02029	.20755	.00377	.02558	.17001	.10166	.00840	.02653

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02028**	**.00422**	**1.9705**	**.00526**	**.11970**	**18.667**	**.00134**	**.16545**
Stddev	.00034	.00013	.1027	.00139	.00096	1.424	.00010	.00045
%RSD	1.6578	3.0673	5.2109	26.410	.80325	7.6294	7.1106	.27017
#1	.02002	.00432	2.0018	.00570	.11860	18.826	.00126	.16495
#2	.02066	.00407	1.8558	.00637	.12038	17.170	.00132	.16580
#3	.02017	.00426	2.0539	.00370	.12011	20.005	.00145	.16560

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12156**	**.00124**	**.56604**	**.00564**	**.01262**	**-.00529**	**.21515**
Stddev	.00022	.00006	.01002	.00002	.00140	.00237	.00074
%RSD	.18003	4.6345	1.7708	.44097	11.100	44.759	.34304
#1	.12160	.00130	.57433	.00561	.01407	-.00262	.21571
#2	.12133	.00122	.55490	.00565	.01128	-.00611	.21432
#3	.12177	.00119	.56891	.00565	.01250	-.00713	.21543

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S1 Acquired: 7/10/2025 16:50:33 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3565.5	36559.	2362.4	2324.4	5232.0
Stddev	151.5	137.	23.0	21.1	213.4
%RSD	4.2485	.37513	.97476	.90917	4.0786
#1	3411.9	36661.	2367.5	2332.7	5016.6
#2	3714.8	36612.	2382.4	2300.3	5443.3
#3	3569.7	36403.	2337.3	2340.1	5236.1

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S2 Acquired: 7/10/2025 16:55:00 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.02949**	**.08298**	**.17290**	**.04580**	**.10585**	**.18283**	**6.3239**	**.50996**
Stddev	.00015	.00044	.00060	.00033	.00020	.00137	.0424	.00320
%RSD	.49180	.52622	.34756	.72509	.18564	.75031	.67093	.62830
#1	.02943	.08339	.17225	.04603	.10594	.18427	6.2797	.51019
#2	.02939	.08252	.17343	.04542	.10562	.18154	6.3278	.50665
#3	.02966	.08302	.17301	.04595	.10597	.18267	6.3643	.51305

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2703**	**.38571**	**.04530**	**.32706**	**1.1004**	**.65846**	**.15586**	**.04525**
Stddev	.0013	.00196	.00021	.00005	.0107	.00631	.00194	.00077
%RSD	.10249	.50855	.46622	.01639	.97034	.95773	1.2470	1.6962
#1	1.2690	.38556	.04543	.32712	1.0940	.65401	.15367	.04594
#2	1.2704	.38383	.04542	.32701	1.0945	.65569	.15656	.04538
#3	1.2716	.38775	.04506	.32705	1.1127	.66567	.15737	.04442

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19879**	**.06135**	**3.4814**	**.04312**	**1.1214**	**31.510**	**.03783**	**1.1744**
Stddev	.00038	.00019	.0226	.00056	.0069	.207	.00003	.0103
%RSD	.19037	.30837	.64984	1.3026	.61181	.65585	.07660	.87645
#1	.19850	.06140	3.4969	.04303	1.1248	31.698	.03782	1.1651
#2	.19864	.06114	3.4554	.04261	1.1259	31.289	.03787	1.1725
#3	.19922	.06151	3.4918	.04372	1.1135	31.543	.03781	1.1854

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.47047**	**.02619**	**1.0810**	**.08965**	**.24135**	**.72277**	**8.3517**
Stddev	.00031	.00017	.0072	.00025	.00166	.00194	.0277
%RSD	.06526	.64930	.66985	.28433	.68946	.26852	.33121
#1	.47029	.02600	1.0782	.08958	.23991	.72191	8.3360
#2	.47082	.02631	1.0756	.08945	.24097	.72499	8.3355
#3	.47029	.02628	1.0893	.08994	.24317	.72140	8.3837

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S2 Acquired: 7/10/2025 16:55:00 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3696.9	36597.	2449.9	2270.3	5314.7
Stddev	8.4	72.	20.0	6.0	14.3
%RSD	.22746	.19727	.81786	.26465	.26825
#1	3703.7	36549.	2459.1	2267.3	5329.0
#2	3699.5	36562.	2463.6	2266.4	5314.8
#3	3687.5	36680.	2426.9	2277.2	5300.4

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S3 Acquired: 7/10/2025 16:59:16 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.09768**	**.26510**	**.55861**	**.14343**	**.33211**	**.57451**	**19.890**	**1.5941**
Stddev	.00053	.00051	.00147	.00066	.00082	.00078	.103	.0226
%RSD	.54624	.19343	.26348	.46249	.24592	.13630	.51702	1.4191
#1	.09731	.26450	.55763	.14412	.33175	.57520	19.887	1.6154
#2	.09829	.26543	.56031	.14336	.33305	.57468	19.994	1.5966
#3	.09743	.26535	.55791	.14280	.33154	.57366	19.789	1.5703

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.1471**	**1.1925**	**.14217**	**1.0561**	**3.2721**	**2.0564**	**.48305**	**.14516**
Stddev	.0075	.0075	.00035	.0028	.0449	.0369	.00171	.00074
%RSD	.18121	.62558	.24569	.26438	1.3710	1.7931	.35394	.51233
#1	4.1417	1.1963	.14191	1.0545	3.3167	2.0941	.48275	.14445
#2	4.1557	1.1974	.14257	1.0593	3.2726	2.0548	.48489	.14509
#3	4.1439	1.1839	.14204	1.0544	3.2270	2.0204	.48151	.14593

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.64050**	**.18890**	**11.467**	**.13926**	**3.5480**	**109.53**	**.12495**	**3.7508**
Stddev	.00172	.00093	.231	.00171	.0108	4.27	.00052	.0563
%RSD	.26811	.49055	2.0116	1.2256	.30495	3.8967	.41826	1.5005
#1	.63965	.18794	11.667	.13810	3.5406	114.34	.12460	3.7970
#2	.64248	.18979	11.520	.14122	3.5431	108.04	.12555	3.7673
#3	.63937	.18897	11.215	.13845	3.5605	106.21	.12471	3.6881

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4872**	**.08667**	**3.3593**	**.28961**	**.76693**	**2.2809**	**26.262**
Stddev	.0056	.00037	.0556	.00074	.00779	.0045	.086
%RSD	.37912	.42910	1.6554	.25546	1.0160	.19899	.32939
#1	1.4846	.08654	3.4010	.28899	.76121	2.2860	26.261
#2	1.4937	.08709	3.3807	.29043	.77580	2.2793	26.348
#3	1.4834	.08637	3.2962	.28941	.76377	2.2773	26.175

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S3 Acquired: 7/10/2025 16:59:16 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3609.7	35360.	2390.4	2204.3	5001.4
Stddev	8.3	92.	28.7	8.6	12.7
%RSD	.22918	.26119	1.2023	.38796	.25370
#1	3613.8	35444.	2364.1	2209.7	5008.9
#2	3600.2	35376.	2385.9	2208.7	4986.8
#3	3615.1	35261.	2421.1	2194.4	5008.6

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S4 Acquired: 7/10/2025 17:03:33 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.20160**	**.52884**	**1.1241**	**.28760**	**.66218**	**1.1440**	**39.604**	**3.0800**
Stddev	.00056	.00162	.0025	.00097	.00120	.0062	.185	.0170
%RSD	.27760	.30576	.21866	.33610	.18173	.54329	.46796	.55024
#1	.20147	.52707	1.1236	.28675	.66082	1.1411	39.566	3.0917
#2	.20112	.52919	1.1220	.28741	.66258	1.1512	39.806	3.0877
#3	.20221	.53025	1.1268	.28865	.66312	1.1398	39.441	3.0606

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.4360**	**2.3646**	**.28119**	**2.1356**	**6.2337**	**3.9357**	**.95662**	**.28598**
Stddev	.0252	.0076	.00095	.0051	.0330	.0244	.00701	.00192
%RSD	.29847	.32185	.33809	.24088	.53001	.62049	.73231	.67173
#1	8.4226	2.3597	.28194	2.1322	6.2624	3.9424	.95734	.28384
#2	8.4203	2.3733	.28150	2.1331	6.2411	3.9560	.96323	.28655
#3	8.4650	2.3606	.28012	2.1415	6.1976	3.9086	.94928	.28756

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2921**	**.37144**	**22.634**	**.28046**	**7.0579**	**219.78**	**.25811**	**7.3182**
Stddev	.0032	.00054	.261	.00210	.0311	3.89	.00081	.0479
%RSD	.24894	.14421	1.1538	.74959	.44010	1.7720	.31513	.65465
#1	1.2897	.37086	22.876	.27930	7.0462	223.54	.25786	7.3600
#2	1.2908	.37153	22.669	.28289	7.0344	220.04	.25744	7.3285
#3	1.2957	.37192	22.357	.27920	7.0931	215.76	.25901	7.2659

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.9620**	**.17878**	**6.4441**	**.58794**	**1.5347**	**4.4706**	**52.308**
Stddev	.0060	.00029	.0590	.00130	.0073	.0159	.270
%RSD	.20142	.15965	.91541	.22096	.47661	.35624	.51671
#1	2.9557	.17853	6.4901	.58708	1.5330	4.4543	52.146
#2	2.9628	.17872	6.4645	.58730	1.5427	4.4861	52.620
#3	2.9675	.17909	6.3776	.58943	1.5284	4.4713	52.158

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S4 Acquired: 7/10/2025 17:03:33 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**3560.1**	**35018.**	**2426.4**	**2172.6**	**4804.5**
Stddev	4.5	136.	16.8	11.7	9.6
%RSD	.12763	.38713	.69153	.54065	.19892
#1	3555.5	34867.	2414.8	2183.4	4798.3
#2	3564.6	35060.	2418.8	2174.2	4815.5
#3	3560.3	35128.	2445.7	2160.1	4799.6

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S5 Acquired: 7/10/2025 17:07:50 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	.43112	1.0821	2.3585	.59249	1.3621	2.2935	79.434	6.1066
Stddev	.00278	.0073	.0189	.00449	.0101	.0192	.262	.0708
%RSD	.64493	.67213	.80324	.75764	.73812	.83671	.32991	1.1594
#1	.42872	1.0764	2.3452	.58855	1.3534	2.2714	79.150	6.1553
#2	.43046	1.0797	2.3501	.59156	1.3598	2.3050	79.667	6.1390
#3	.43416	1.0903	2.3802	.59738	1.3731	2.3042	79.486	6.0253

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	17.657	4.7820	.56469	4.4778	12.258	7.7785	1.9367	.57427
Stddev	.140	.0311	.00184	.0326	.178	.0883	.0089	.00615
%RSD	.79265	.64963	.32546	.72889	1.4550	1.1359	.45768	1.0710
#1	17.555	4.7470	.56350	4.4505	12.367	7.8239	1.9324	.56745
#2	17.600	4.8063	.56377	4.4690	12.356	7.8349	1.9469	.57941
#3	17.817	4.7927	.56681	4.5140	12.053	7.6767	1.9308	.57594

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.7087	.74785	45.916	.57287	14.412	456.83	.55097	14.508
Stddev	.0199	.00125	.685	.00567	.030	3.34	.00376	.200
%RSD	.73417	.16697	1.4919	.99008	.20605	.73020	.68159	1.3768
#1	2.6936	.74777	46.404	.56676	14.382	459.86	.54764	14.633
#2	2.7013	.74665	46.212	.57797	14.413	457.37	.55023	14.614
#3	2.7312	.74914	45.133	.57387	14.441	453.26	.55504	14.278

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.0867	.38342	12.603	1.2292	3.1251	8.9292	104.34
Stddev	.0480	.00297	.161	.0101	.0094	.0880	.61
%RSD	.78911	.77380	1.2801	.82289	.30012	.98564	.58675
#1	6.0444	.38097	12.694	1.2221	3.1170	8.8299	103.64
#2	6.0768	.38257	12.698	1.2246	3.1354	8.9599	104.73
#3	6.1389	.38672	12.416	1.2408	3.1229	8.9977	104.67

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: S5 Acquired: 7/10/2025 17:07:50 Type: Cal
Method: METHOD 6010D, 200.7 M(v32) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**3410.9**	**34050.**	**2399.8**	**2093.4**	**4477.6**
Stddev	22.6	197.	22.2	11.4	31.6
%RSD	.66160	.57712	.92348	.54643	.70586
#1	3420.6	34131.	2383.4	2100.6	4486.1
#2	3427.0	34194.	2391.0	2099.3	4504.0
#3	3385.1	33826.	2425.0	2080.2	4442.5

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICV01 Acquired: 7/10/2025 18:39:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.954670**	**4.106180**	**4.056826**	**4.193109**	**4.020508**	**7.802831**
Stddev	.010690	.015214	.014026	.002587	.006209	.041418
%RSD	.2703081	.3705069	.3457395	.0616979	.1544405	.5308071
#1	3.966830	4.123709	4.072417	4.195984	4.027664	7.840794
#2	3.950426	4.096408	4.052827	4.192374	4.017304	7.758659
#3	3.946753	4.098424	4.045233	4.190969	4.016555	7.809039

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.857553**	**.2091446**	**2.052182**	**19.80611**	**.8003768**	**1.912002**
Stddev	.047177	.0004078	.007028	.12836	.0005609	.007890
%RSD	.6004015	.1949765	.3424497	.6480642	.0700855	.4126400
#1	7.872995	.2091502	2.060092	19.89706	.8009014	1.921024
#2	7.804591	.2087340	2.049795	19.65929	.8004435	1.906392
#3	7.895074	.2095495	2.046658	19.86198	.7997855	1.908592

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.036779**	**4.104919**	**1.975891**	**20.30402**	**1.987820**	**.9105796**
Stddev	.001700	.002723	.010940	.20529	.008954	.0032411
%RSD	.1639559	.0663400	.5536672	1.011086	.4504248	.3559364
#1	1.038544	4.103727	1.980337	20.53659	1.998157	.9122984
#2	1.036640	4.108035	1.963429	20.22743	1.982796	.9125993
#3	1.035152	4.102994	1.983908	20.14804	1.982507	.9068412

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.20357**	**2.000074**	**1.992915**	**18.58945**	F **.0171286**	F **-.004785**
Stddev	.05277	.015881	.007513	.04901	.0008887	.002624
%RSD	.2747779	.7940084	.3769673	.2636328	5.188306	54.83540
#1	19.24631	2.015816	2.000055	18.55174	.0162800	-.003886
#2	19.21981	1.984058	1.985078	18.64485	.0180526	-.002729
#3	19.14459	2.000346	1.993611	18.57178	.0170532	-.007740

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICV01 Acquired: 7/10/2025 18:39:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.005046	F .0141008	F -.004348	F -.005595	F -.008319	F -.024260
Stddev	.000452	.0035564	.001965	.000448	.000719	.006002
%RSD	8.954629	25.22146	45.20071	8.010913	8.648005	24.73977
#1	-.005195	.0168436	-.004013	-.005271	-.009134	-.030523
#2	-.005405	.0153763	-.006459	-.005408	-.008051	-.023698
#3	-.004539	.0100825	-.002572	-.006107	-.007772	-.018558

Elem	Sr4077
Units	ppm
Avg	F .0002471
Stddev	.0001076
%RSD	43.55224
#1	.0003043
#2	.0003140
#3	.0001230

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3542.309	35151.25	2432.820	2185.494	4907.489
Stddev	14.689	48.37	3.521	4.710	21.269
%RSD	.4146605	.1376055	.1447323	.2155250	.4334006
#1	3530.945	35112.76	2428.774	2181.228	4887.896
#2	3537.086	35135.46	2435.187	2190.549	4904.460
#3	3558.895	35205.55	2434.500	2184.707	4930.109

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: LLICV01 Acquired: 7/10/2025 18:51:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212478**	**.0402085**	**.0132458**	**.0206328**	**.0544253**	**.0971753**
Stddev	.0009066	.0015207	.0014935	.0072189	.0018816	.0351924
%RSD	4.266900	3.781974	11.27520	34.98742	3.457217	36.21534
#1	.0204103	.0396198	.0122137	.0288900	.0553782	.1316448
#2	.0222105	.0390702	.0149584	.0155157	.0522579	.0613020
#3	.0211227	.0419355	.0125653	.0174928	.0556399	.0985792

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0986409**	**.0064357**	**.0056068**	**2.141067**	**.0105197**	**.0293578**
Stddev	.0024144	.0000561	.0000504	.032206	.0005059	.0005481
%RSD	2.447710	.8723488	.8983395	1.504198	4.809358	1.866829
#1	.0960760	.0064976	.0055917	2.109352	.0103673	.0289715
#2	.1008697	.0064211	.0055657	2.140106	.0101075	.0291169
#3	.0989768	.0063882	.0056629	2.173742	.0110843	.0299851

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0215721**	**.1184334**	**.0228538**	**2.262054**	**.0396000**	**.0109466**
Stddev	.0006266	.0027698	.0020013	.033750	.0008659	.0003230
%RSD	2.904692	2.338654	8.756783	1.492028	2.186535	2.950694
#1	.0209141	.1155867	.0220772	2.233429	.0393175	.0109411
#2	.0216406	.1211191	.0213573	2.253462	.0389106	.0112723
#3	.0221617	.1185945	.0251270	2.299269	.0405718	.0106264

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.806270**	**.0380654**	**.0460664**	**1.813374**	**.0183830**	**.0945049**
Stddev	.011513	.0029819	.0009914	.030190	.0019364	.0024865
%RSD	.6374093	7.833721	2.152186	1.664850	10.53366	2.631077
#1	1.805755	.0351183	.0460964	1.778514	.0161975	.0921261
#2	1.795023	.0410810	.0470425	1.830787	.0190665	.0943020
#3	1.818032	.0379968	.0450603	1.830822	.0198849	.0970866

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: LLICV01 Acquired: 7/10/2025 18:51:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2094547**	**.0184338**	**.3943925**	**.0462703**	**.0399979**	F **-.004869**
Stddev	.0011706	.0041908	.0060386	.0006101	.0013137	.008620
%RSD	.5588881	22.73418	1.531102	1.318577	3.284470	177.0217
#1	.2093115	.0193529	.3878113	.0458326	.0384983	-.007678
#2	.2083622	.0138598	.3996782	.0460112	.0409457	.004805
#3	.2106903	.0220888	.3956880	.0469673	.0405497	-.011735

Elem	Sr4077
Units	ppm
Avg	**.0203877**
Stddev	.0005069
%RSD	2.486512
#1	.0198507
#2	.0204544
#3	.0208580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.992**	**36486.04**	**2488.888**	**2250.216**	**5309.513**
Stddev	18.341	215.94	34.765	13.747	33.299
%RSD	.5117447	.5918329	1.396801	.6109018	.6271559
#1	3597.564	36390.37	2528.964	2260.796	5333.145
#2	3591.286	36334.47	2466.839	2234.678	5323.965
#3	3563.126	36733.29	2470.861	2255.174	5271.430

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICB01 Acquired: 7/10/2025 18:55:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017250	.0002712	-.000028	.0009021	.0006937	-.030236
Stddev	.0018810	.0005544	.000750	.0016809	.0040687	.028788
%RSD	109.0394	204.4324	2641.349	186.3316	586.5462	95.21039
#1	-.000415	.0003784	.000775	.0020283	.0052101	-.005457
#2	.002473	-.000329	-.000711	-.001030	-.002685	-.061816
#3	.003117	.000764	-.000149	.001708	-.000444	-.023436

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002535	-.000040	-.000131	.0270802	-.000773	.0000541
Stddev	.002137	.000180	.000020	.0066435	.000517	.0003639
%RSD	84.30793	453.5057	15.26835	24.53253	66.88488	672.7851
#1	-.000817	.000165	-.000134	.0323865	-.000623	.0002200
#2	-.004929	-.000111	-.000109	.0292248	-.000347	.0003055
#3	-.001860	-.000173	-.000149	.0196294	-.001348	-.000363

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001756	-.005856	.0002407	-.033873	.0000631	.0004594
Stddev	.000308	.000277	.0010917	.047729	.0001917	.0007783
%RSD	17.52168	4.736846	453.4876	140.9073	303.7913	169.4099
#1	-.001989	-.005580	.0011710	-.047624	-.000009	.0013264
#2	-.001873	-.005853	-.000961	-.073217	.000280	-.000179
#3	-.001407	-.006134	.000512	.019223	-.000082	.000231

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009291	-.009451	-.001105	-.003396	-.000739	-.009355
Stddev	.002880	.001869	.000158	.002219	.000537	.000639
%RSD	31.00011	19.77581	14.27129	65.34255	72.71844	6.835209
#1	-.011054	-.011192	-.000925	-.000834	-.000165	-.009467
#2	-.010850	-.009684	-.001218	-.004672	-.000822	-.009931
#3	-.005967	-.007476	-.001172	-.004681	-.001230	-.008667

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICB01 Acquired: 7/10/2025 18:55:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000078	-.004847	-.003907	-.002361	.0006113	F -.030248
Stddev	.000353	.003996	.000867	.000910	.0023444	.004428
%RSD	454.4001	82.44348	22.17897	38.52731	383.5046	14.63819
#1	-.000220	-.001610	-.004643	-.001361	-.001210	-.025215
#2	-.000338	-.009313	-.002952	-.003140	-.000213	-.031987
#3	.000325	-.003617	-.004127	-.002582	.003257	-.033543

Elem	Sr4077
Units	ppm
Avg	-.000165
Stddev	.000113
%RSD	68.39259
#1	-.000151
#2	-.000060
#3	-.000284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.273	37701.16	2521.688	2316.626	5596.039
Stddev	13.268	49.40	45.685	8.157	22.021
%RSD	.3565431	.1310248	1.811674	.3520897	.3935099
#1	3727.334	37655.18	2469.379	2307.719	5609.902
#2	3730.428	37753.38	2541.933	2323.731	5607.567
#3	3706.057	37694.93	2553.751	2318.429	5570.647

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CRI01 Acquired: 7/10/2025 19:01:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206315	.0376603	.0124138	.0167394	.0512289	.0855986
Stddev	.0013811	.0011190	.0011207	.0007819	.0012134	.0159684
%RSD	6.694074	2.971392	9.027883	4.671194	2.368663	18.65501
#1	.0190382	.0387314	.0130682	.0160203	.0502868	.0861353
#2	.0213699	.0364988	.0111197	.0175718	.0525981	.1012920
#3	.0214865	.0377507	.0130534	.0166261	.0508016	.0693686

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0962776	.0063077	.0053314	2.070092	.0104678	.0283501
Stddev	.0005506	.0001642	.0000548	.012296	.0005873	.0002473
%RSD	.5718350	2.603217	1.027699	.5939641	5.610158	.8724557
#1	.0967782	.0064475	.0053486	2.082086	.0105629	.0285510
#2	.0963665	.0063486	.0053755	2.070675	.0110017	.0280739
#3	.0956879	.0061269	.0052701	2.057515	.0098388	.0284255

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205644	.1155758	.0218954	2.138168	.0371160	.0104562
Stddev	.0000945	.0016621	.0003890	.065136	.0005222	.0017967
%RSD	.4592944	1.438111	1.776553	3.046342	1.406872	17.18342
#1	.0206655	.1170357	.0223382	2.202118	.0365516	.0096540
#2	.0204783	.1137669	.0217386	2.140479	.0372145	.0092003
#3	.0205495	.1159247	.0216092	2.071907	.0375819	.0125143

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.780334	.0282545	.0445838	1.772354	.0180430	.0923626
Stddev	.008058	.0122646	.0005353	.025682	.0015308	.0025833
%RSD	.4525973	43.40753	1.200546	1.449016	8.484194	2.796883
#1	1.776177	.0238679	.0441231	1.791654	.0197930	.0946103
#2	1.789621	.0421092	.0451710	1.782201	.0169522	.0929370
#3	1.775203	.0187864	.0444574	1.743205	.0173839	.0895405

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CRI01 Acquired: 7/10/2025 19:01:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1995938	.0172203	.3856157	.0441115	.0373915	F -.000828
Stddev	.0005386	.0033700	.0055003	.0005642	.0035959	.013007
%RSD	.2698562	19.56978	1.426365	1.279113	9.616835	1571.820
#1	.1989987	.0199864	.3880097	.0435858	.0340272	-.006196
#2	.2000480	.0134670	.3895133	.0440411	.0369662	.014004
#3	.1997346	.0182075	.3793242	.0447077	.0411812	-.010290

Elem	Sr4077
Units	ppm
Avg	.0200144
Stddev	.0002298
%RSD	1.147978
#1	.0201617
#2	.0197496
#3	.0201317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3714.472	37226.18	2514.735	2299.258	5513.887
Stddev	6.775	158.44	21.292	8.487	8.606
%RSD	.1824059	.4256093	.8466958	.3690999	.1560850
#1	3722.291	37286.89	2502.530	2304.803	5523.781
#2	3710.800	37345.29	2502.355	2303.482	5509.741
#3	3710.325	37046.36	2539.321	2289.488	5508.138

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSA01 Acquired: 7/10/2025 19:11:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021016**	**.0178237**	**.0004381**	**.0046611**	**.0214670**	**247.1930**
Stddev	.0070482	.0026618	.0021525	.0045334	.0021758	.9468
%RSD	335.3812	14.93387	491.3322	97.26104	10.13539	.3830210
#1	.0007679	.0208863	-.002045	.0089769	.0193932	248.0794
#2	.0097213	.0165157	.001576	.0050688	.0237321	247.3040
#3	-.004185	.0160689	.001783	-.000062	.0212758	246.1956

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058115**	**.0011540**	**-.000491**	**242.4229**	**.0488829**	**.0249517**
Stddev	.0004215	.0000526	.000174	1.2312	.0013716	.0002625
%RSD	7.252747	4.554279	35.37227	.5078589	2.805842	1.052051
#1	.0053495	.0011902	-.000553	242.8386	.0483313	.0249608
#2	.0061750	.0010937	-.000624	243.3924	.0478730	.0252095
#3	.0059099	.0011781	-.000294	241.0377	.0504444	.0246847

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009614**	**103.6734**	**.0028882**	**252.3727**	**.0164114**	**-.001129**
Stddev	.000227	2.7871	.0002560	1.5200	.0000527	.000769
%RSD	2.362319	2.688351	8.863470	.6022910	.3212199	68.05334
#1	-.009420	103.6469	.0031559	252.8586	.0163577	-.002010
#2	-.009864	106.4737	.0028629	253.5903	.0164135	-.000594
#3	-.009557	100.8997	.0026458	250.6691	.0164631	-.000784

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1004406**	**.0049170**	**.0110325**	**.0052829**	**.0127723**	**.0292640**
Stddev	.0106952	.0018006	.0003070	.0025987	.0008110	.0010692
%RSD	10.64826	36.61912	2.782210	49.19037	6.349348	3.653782
#1	.0989418	.0031820	.0111185	.0058511	.0130477	.0292658
#2	.0905738	.0067767	.0112873	.0075504	.0134097	.0303323
#3	.1118061	.0047923	.0106918	.0024471	.0118595	.0281939

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSA01 Acquired: 7/10/2025 19:11:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008796	F .0235049	-.009847	-.000293	-.000658	-.016037
Stddev	.000815	.0020588	.003932	.000630	.008220	.005597
%RSD	9.263815	8.759094	39.93300	215.4052	1250.103	34.89705
#1	-.007906	.0212567	-.013708	.000434	.005367	-.011455
#2	-.009505	.0239597	-.009986	-.000692	-.010021	-.014383
#3	-.008979	.0252983	-.005847	-.000620	.002682	-.022275

Elem	Sr4077
Units	ppm
Avg	F .1005386
Stddev	.0004261
%RSD	.4238423
#1	.1010250
#2	.1003595
#3	.1002312

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3344.800	32335.47	2307.151	2055.045	4326.189
Stddev	6.407	121.54	57.653	7.699	9.247
%RSD	.1915440	.3758821	2.498884	.3746154	.2137460
#1	3339.254	32441.54	2306.376	2056.691	4319.043
#2	3351.813	32202.85	2249.890	2046.657	4336.633
#3	3343.331	32362.03	2365.188	2061.788	4322.891

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSAB01 Acquired: 7/10/2025 19:15:37 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0921043**	**.0991583**	**.0433873**	**.0523411**	**.6121197**	**243.9597**
Stddev	.0051721	.0021852	.0031036	.0088756	.0054414	.4949
%RSD	5.615528	2.203787	7.153254	16.95724	.8889469	.2028745
#1	.0915022	.0974097	.0431810	.0568342	.6163662	243.3904
#2	.0975511	.1016080	.0403920	.0421174	.6059859	244.2003
#3	.0872596	.0984572	.0465890	.0580717	.6140070	244.2883

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5045992**	**.5050749**	**.9717492**	**239.4375**	**.5479669**	**.4966192**
Stddev	.0030160	.0018585	.0016836	.7240	.0013146	.0010522
%RSD	.5977035	.3679591	.1732496	.3023680	.2398991	.2118714
#1	.5011181	.5030010	.9701027	238.8669	.5491369	.4954625
#2	.5062520	.5065895	.9716775	240.2519	.5465444	.4975196
#3	.5064275	.5056342	.9734675	239.1938	.5482196	.4968754

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4675218**	**98.71138**	**.4913123**	**248.8057**	**.9711565**	**.2170428**
Stddev	.0014729	1.16546	.0034757	.9502	.0018653	.0012886
%RSD	.3150369	1.180673	.7074407	.3819109	.1920736	.5937218
#1	.4658214	97.36751	.4874079	247.7195	.9690032	.2157615
#2	.4684009	99.32163	.4924597	249.2146	.9721880	.2183386
#3	.4683431	99.44499	.4940692	249.4830	.9722783	.2170282

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0881116**	**.4881687**	**.9830175**	**.0009564**	F **.0203514**	F **.0257429**
Stddev	.0049731	.0027244	.0010323	.0013260	.0043639	.0019524
%RSD	5.644042	.5580956	.1050112	138.6383	21.44250	7.584191
#1	.0923562	.4854515	.9834441	.0000406	.0174140	.0254925
#2	.0826399	.4881542	.9818403	.0003518	.0182745	.0278084
#3	.0893388	.4909004	.9837681	.0024769	.0253658	.0239278

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSAB01 Acquired: 7/10/2025 19:15:37 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.009061	F .0250013	F -.011214	F .0041310	F -.003375	F -.012779
Stddev	.000582	.0034583	.001458	.0001341	.002776	.013188
%RSD	6.420226	13.83256	13.00517	3.246089	82.23087	103.2037
#1	-.009717	.0212838	-.011707	.0039764	-.004600	-.016637
#2	-.008607	.0281231	-.012361	.0042166	-.000198	-.023608
#3	-.008860	.0255971	-.009573	.0041999	-.005328	.001908

Elem	Sr4077
Units	ppm
Avg	F .0996894
Stddev	.0007603
%RSD	.7626483
#1	.0989258
#2	.1004463
#3	.0996962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3306.372	32106.50	2390.259	2038.310	4300.669
Stddev	5.855	88.72	19.268	5.933	9.557
%RSD	.1770760	.2763153	.8060863	.2910807	.2222227
#1	3313.078	32208.68	2412.265	2045.144	4311.651
#2	3303.763	32049.07	2376.423	2034.481	4294.238
#3	3302.276	32061.76	2382.088	2035.304	4296.118

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSADLX20 Acquired: 7/10/2025 19:20:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**-.000555**	**.0015118**	**.0020737**	**-.000258**	**-.000047**	**12.15186**	**-.002247**
Stddev	.001023	.0016723	.0022972	.003547	.002881	.09192	.001245
%RSD	184.2092	110.6192	110.7808	1372.109	6150.695	.7564651	55.40736
#1	-.000165	.0032982	.0000555	-.004352	.000430	12.25635	-.001428
#2	-.001716	-.000016	.0045736	.001893	.002566	12.08345	-.003679
#3	.000215	.001254	.0015920	.001684	-.003136	12.11576	-.001633

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001809**	**-.000179**	**12.13201**	**.0023139**	**.0052539**	**-.000948**	**5.596096**
Stddev	.0001289	.000112	.08715	.0011868	.0001401	.000840	.116194
%RSD	71.27178	62.79399	.7183084	51.28963	2.666061	88.54960	2.076345
#1	.0002901	-.000117	12.22634	.0009557	.0053815	-.000288	5.726399
#2	.0000387	-.000308	12.11521	.0028355	.0051041	-.000664	5.558636
#3	.0002139	-.000110	12.05449	.0031507	.0052762	-.001893	5.503251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014770**	**12.86835**	**.0002041**	**-.001181**	**-.014255**	**-.005385**	**-.000646**
Stddev	.0031572	.15290	.0003350	.000847	.003959	.005134	.000620
%RSD	213.7591	1.188217	164.1335	71.74920	27.77308	95.33275	95.87590
#1	.0042999	12.97020	.0001060	-.002094	-.011113	-.003443	-.000782
#2	-.001932	12.94234	-.000071	-.001030	-.018701	-.001505	-.001186
#3	.002063	12.69253	.000577	-.000420	-.012950	-.011206	.000030

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002838**	**-.000126**	**-.007347**	**-.002424**	**.0002161**	**-.007389**	**-.000967**
Stddev	.001470	.001231	.001474	.000182	.0029157	.000725	.000516
%RSD	51.77314	979.2542	20.06489	7.528740	1349.137	9.810267	53.38231
#1	-.001265	-.000207	-.008936	-.002445	.0026314	-.006552	-.000459
#2	-.003075	.001144	-.007082	-.002231	.0010398	-.007837	-.001491
#3	-.004175	-.001314	-.006024	-.002594	-.003023	-.007777	-.000951

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSADLX20 Acquired: 7/10/2025 19:20:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006112	-.033861	.0049038
Stddev	.0016907	.008431	.0001328
%RSD	276.6179	24.89850	2.708766
#1	-.000668	-.039594	.0048808
#2	-.000027	-.037810	.0050466
#3	.002528	-.024181	.0047839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.679	35912.19	2394.332	2241.855	5228.352
Stddev	5.191	38.36	42.574	6.762	5.998
%RSD	.1429494	.1068292	1.778114	.3016335	.1147290
#1	3630.314	35954.87	2347.261	2248.502	5227.838
#2	3637.416	35901.13	2405.591	2234.983	5234.591
#3	3627.305	35880.57	2430.146	2242.080	5222.627

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSABDLX20 Acquired: 7/10/2025 19:24:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	.0009602	.0065712	.0054640	.0008672	.0364604	12.40797	.0229831
Stddev	.0005730	.0005489	.0033744	.0017125	.0015990	.11679	.0006949
%RSD	59.67160	8.353028	61.75666	197.4820	4.385507	.9412628	3.023387
#1	.0013579	.0068234	.0015920	.0015080	.0350199	12.53500	.0235522
#2	.0012194	.0059416	.0070231	-.001073	.0361805	12.38368	.0231884
#3	.0003034	.0069488	.0077769	.002167	.0381809	12.30524	.0222087

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265593	.0462253	12.37839	.0276894	.0282465	.0237271	5.564978
Stddev	.0003339	.0001072	.02683	.0011715	.0001641	.0014662	.034633
%RSD	1.257176	.2318780	.2167130	4.230877	.5807849	6.179329	.6223472
#1	.0269089	.0461023	12.38212	.0267411	.0284329	.0221485	5.596116
#2	.0262438	.0462987	12.34989	.0273280	.0281242	.0250462	5.527677
#3	.0265251	.0462750	12.40316	.0289990	.0281824	.0239866	5.571141

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265407	13.13993	.0466373	.0103384	-.022406	.0222111	.0487308
Stddev	.0017898	.05854	.0003718	.0004121	.012976	.0096186	.0007991
%RSD	6.743395	.4455349	.7972704	3.986040	57.91327	43.30505	1.639841
#1	.0270317	13.18795	.0468533	.0102765	-.030842	.0111229	.0488664
#2	.0245568	13.07472	.0462079	.0099607	-.028913	.0272042	.0494534
#3	.0280338	13.15713	.0468506	.0107779	-.007464	.0283064	.0478725

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003625	-.000561	-.007439	-.002738	.0002848	-.006315	-.001284
Stddev	.000945	.003692	.000834	.000567	.0012652	.001306	.000233
%RSD	26.05958	658.4926	11.20842	20.71214	444.2647	20.67710	18.13190
#1	-.002538	.003698	-.007634	-.003080	-.001123	-.004860	-.001547
#2	-.004092	-.002859	-.006525	-.002084	.001326	-.006699	-.001104
#3	-.004245	-.002521	-.008158	-.003051	.000652	-.007385	-.001201

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: ICSABDLX20 Acquired: 7/10/2025 19:24:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002800	-.032262	.0050416
Stddev	.0054183	.001919	.0001810
%RSD	1935.050	5.948873	3.590978
#1	-.003825	-.031597	.0048423
#2	-.001756	-.034425	.0051960
#3	.006421	-.030764	.0050863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.663	35417.14	2424.690	2196.314	5157.111
Stddev	6.100	245.59	24.952	14.572	6.684
%RSD	.1700335	.6934203	1.029075	.6634679	.1296049
#1	3591.384	35138.51	2396.709	2181.669	5164.669
#2	3590.981	35510.74	2444.630	2196.461	5154.689
#3	3580.623	35602.16	2432.730	2210.811	5151.976

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV01 Acquired: 7/10/2025 19:43:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.910507**	**5.092545**	**4.981423**	**5.064704**	**5.012703**	**9.938412**	**10.19996**
Stddev	.039480	.040941	.038158	.047697	.044553	.007605	.03832
%RSD	.8039842	.8039308	.7660152	.9417556	.8888109	.0765215	.3757138
#1	4.888282	5.065037	4.957849	5.028128	4.986974	9.946953	10.18171
#2	4.887150	5.073003	4.960972	5.047331	4.986987	9.932375	10.17418
#3	4.956090	5.139595	5.025448	5.118652	5.064149	9.935906	10.24400

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2570741**	**2.507209**	**25.45504**	**1.009730**	**2.466112**	**1.269977**	**5.144670**
Stddev	.0013131	.019603	.10587	.003281	.020516	.006749	.022721
%RSD	.5108067	.7818498	.4158994	.3249371	.8319030	.5314529	.4416462
#1	.2562602	2.495499	25.38300	1.010639	2.455111	1.267645	5.138386
#2	.2563730	2.496289	25.40552	1.006090	2.453444	1.264702	5.125752
#3	.2585889	2.529840	25.57659	1.012461	2.489782	1.277583	5.169872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.545208**	**25.37298**	**2.489076**	**1.282719**	**25.01136**	**2.537615**	**2.501389**
Stddev	.008660	.08354	.020132	.002589	.08258	.017268	.010322
%RSD	.3402648	.3292447	.8088132	.2018742	.3301886	.6804629	.4126591
#1	2.535700	25.41176	2.477576	1.283517	25.02397	2.531880	2.511041
#2	2.547279	25.43009	2.477329	1.279825	24.92319	2.523945	2.490507
#3	2.552645	25.27710	2.512322	1.284816	25.08691	2.557021	2.502618

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.63987**	**5.005916**	**5.143644**	**5.079832**	**4.903251**	**5.075079**	**5.026347**
Stddev	.01894	.046888	.024728	.043515	.030867	.027485	.035883
%RSD	.0738880	.9366607	.4807501	.8566310	.6295160	.5415674	.7139067
#1	25.66096	4.981551	5.150156	5.054573	4.878874	5.067296	5.005643
#2	25.63434	4.976227	5.116312	5.054845	4.892922	5.052324	5.005616
#3	25.62430	5.059971	5.164464	5.130079	4.937958	5.105616	5.067781

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV01 Acquired: 7/10/2025 19:43:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.066301	5.108987	5.135477
Stddev	.020383	.013420	.016987
%RSD	.4023170	.2626772	.3307772
#1	5.043916	5.116334	5.122013
#2	5.071195	5.093498	5.129857
#3	5.083790	5.117130	5.154562

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.816	34102.81	2369.945	2116.638	4652.553
Stddev	20.407	39.74	8.768	6.965	24.569
%RSD	.5937861	.1165195	.3699770	.3290618	.5280733
#1	3441.568	34081.71	2375.291	2120.411	4653.413
#2	3454.427	34148.65	2374.718	2120.902	4676.680
#3	3414.451	34078.08	2359.826	2108.600	4627.565

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB01 Acquired: 7/10/2025 19:54:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030020	-.001948	.0001607	.0030738	-.002059	-.024134
Stddev	.0038846	.002895	.0015929	.0063263	.001772	.030484
%RSD	129.4018	148.5692	991.0980	205.8121	86.06634	126.3102
#1	-.001062	-.005276	.0008274	.0013402	-.000391	-.036893
#2	.006679	-.000554	-.001657	-.002205	-.001867	-.046165
#3	.003389	-.000015	.001312	.010086	-.003920	.010656

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001759	-.000032	-.000090	-.000870	-.000934	-.000103
Stddev	.001238	.000137	.000069	.013708	.000616	.000272
%RSD	70.41048	433.1359	76.72115	1576.428	65.97451	264.0473
#1	-.000559	-.000187	-.000038	-.015617	-.001642	.000160
#2	-.001685	.000074	-.000063	.001526	-.000528	-.000383
#3	-.003032	.000017	-.000169	.011482	-.000630	-.000085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001446	-.004552	.0007615	-.018752	.0001083	.0002226
Stddev	.000651	.002401	.0015879	.053950	.0004774	.0007018
%RSD	45.04899	52.74285	208.5163	287.6987	440.9476	315.2690
#1	-.000857	-.001930	-.001009	-.055691	.0006023	-.000408
#2	-.002146	-.006642	.001233	-.043724	-.000350	.000979
#3	-.001336	-.005083	.002060	.043159	.000073	.000097

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.022768	-.000730	-.001588	-.002883	.0014628	-.002405
Stddev	.020617	.005336	.000393	.002682	.0025491	.001499
%RSD	90.55136	730.7128	24.72997	93.04961	174.2600	62.32503
#1	-.042535	-.002125	-.001870	.000031	.0043511	-.003672
#2	-.024373	.005165	-.001755	-.003429	.0005096	-.000750
#3	-.001396	-.005231	-.001140	-.005250	-.000472	-.002794

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB01 Acquired: 7/10/2025 19:54:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000483	-.002741	-.005561	.0000599	-.001038	F -.024879
Stddev	.000507	.003744	.000672	.0006939	.009269	.005906
%RSD	104.8375	136.6248	12.07756	1158.855	892.5291	23.73958
#1	-.001015	-.006074	-.004870	-.000739	.006689	-.026328
#2	-.000429	.001311	-.006211	.000517	.001510	-.029925
#3	-.000006	-.003458	-.005603	.000401	-.011315	-.018383

Elem	Sr4077
Units	ppm
Avg	-.000161
Stddev	.000257
%RSD	159.9099
#1	-.000448
#2	-.000087
#3	.000051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.544	36219.67	2363.085	2233.812	5463.061
Stddev	7.280	140.19	114.331	8.999	16.206
%RSD	.2003618	.3870418	4.838199	.4028516	.2966416
#1	3640.364	36163.06	2231.445	2231.533	5477.856
#2	3625.877	36116.65	2420.255	2226.171	5445.741
#3	3634.390	36379.31	2437.555	2243.731	5465.585

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2532-01 Acquired: 7/10/2025 19:58:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163868	.0066319	.5654609	.0043310	.0261310	36.65686
Stddev	.0033641	.0021375	.0025876	.0015478	.0033766	.20635
%RSD	20.52920	32.22994	.4576058	35.73640	12.92180	.5629252
#1	.0174548	.0052475	.5636432	.0044382	.0239675	36.79857
#2	.0190872	.0055546	.5643161	.0027325	.0244036	36.42011
#3	.0126184	.0090937	.5684234	.0058224	.0300218	36.75189

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6621286	.0022843	.0030081	155.4330	.0920691	.0505808
Stddev	.0042559	.0000777	.0001223	.5130	.0008342	.0003362
%RSD	.6427654	3.403260	4.064738	.3300287	.9060894	.6647382
#1	.6626627	.0023508	.0028728	155.9648	.0912243	.0508461
#2	.6576308	.0023031	.0031108	154.9412	.0928923	.0506935
#3	.6660923	.0021988	.0030407	155.3931	.0920908	.0502026

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5626737	78.79443	.8173839	63.42235	.0838359	.0025094
Stddev	.0128083	1.79335	.0022107	.08328	.0004128	.0004970
%RSD	2.276322	2.275990	.2704653	.1313108	.4924173	19.80392
#1	.5758047	80.82712	.8168055	63.50321	.0838841	.0019418
#2	.5620018	77.43567	.8155198	63.42700	.0834011	.0027205
#3	.5502146	78.12051	.8198263	63.33684	.0842225	.0028660

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	120.3508	.0988371	2.961955	18.76494	8.286638	.1135776
Stddev	1.5907	.0070178	.026376	.38374	.044903	.0040182
%RSD	1.321752	7.100336	.8905008	2.044989	.5418700	3.537821
#1	122.1177	.0907540	2.936025	19.16038	8.237991	.1176811
#2	119.9021	.1033749	2.961086	18.39408	8.295425	.1134009
#3	119.0326	.1023824	2.988755	18.74037	8.326497	.1096506

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2532-01 Acquired: 7/10/2025 19:58:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 11 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109246	20.09138	F 69.28037	.0090592	1.644678	-.000402
Stddev	.0008833	.10240	1.51317	.0011918	.014677	.007892
%RSD	8.085063	.5096750	2.184120	13.15564	.8924227	1965.430
#1	.0099791	19.98057	70.77350	.0077699	1.650974	-.004002
#2	.0117285	20.11107	69.31966	.0092871	1.627903	-.005852
#3	.0110661	20.18251	67.74793	.0101205	1.655158	.008649

Elem	Sr4077
Units	ppm
Avg	.4231283
Stddev	.0024966
%RSD	.5900228
#1	.4248036
#2	.4202589
#3	.4243223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.467	35388.70	2435.061	2270.049	4625.555
Stddev	4.908	226.60	54.043	17.019	13.135
%RSD	.1328725	.6403119	2.219380	.7496993	.2839562
#1	3698.088	35399.85	2377.414	2280.033	4637.169
#2	3693.997	35609.52	2443.189	2279.716	4628.195
#3	3688.316	35156.73	2484.580	2250.399	4611.301

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2532-02 Acquired: 7/10/2025 20:03:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000310**	**.0089625**	**.2368515**	**-.001966**	**.0194716**	**18.57385**
Stddev	.002886	.0032913	.0033413	.002757	.0030897	.06402
%RSD	930.0032	36.72250	1.410736	140.2338	15.86770	.3446664
#1	.001307	.0053791	.2407036	-.001777	.0198574	18.55921
#2	.001405	.0096579	.2351139	.000692	.0223503	18.51841
#3	-.003643	.0118505	.2347370	-.004814	.0162072	18.64392

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3213254**	**.0009208**	**.0010644**	**102.3571**	**.0397288**	**.0319763**
Stddev	.0011286	.0000544	.0001653	.3540	.0007797	.0004113
%RSD	.3512360	5.910874	15.52748	.3458804	1.962584	1.286379
#1	.3200726	.0009223	.0011112	102.4602	.0396145	.0323314
#2	.3216409	.0009745	.0012012	101.9630	.0405593	.0320720
#3	.3222627	.0008657	.0008808	102.6482	.0390125	.0315256

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5913800**	**36.46494**	**.4181369**	**39.57853**	**.0371121**	**.0013842**
Stddev	.0016665	.08681	.0018242	.25889	.0025445	.0012280
%RSD	.2817999	.2380776	.4362625	.6541266	6.856350	88.72075
#1	.5931169	36.49844	.4199351	39.37072	.0400431	.0009397
#2	.5897942	36.36636	.4181878	39.86854	.0358250	.0027726
#3	.5912289	36.53001	.4162878	39.49632	.0354683	.0004402

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**153.5855**	**.0411015**	**1.367507**	**13.92153**	**3.855909**	**.0944599**
Stddev	2.0765	.0137725	.006073	.11151	.003713	.0021749
%RSD	1.352008	33.50861	.4440678	.8010254	.0962937	2.302448
#1	155.4185	.0268662	1.361287	14.05028	3.859502	.0969358
#2	151.3304	.0420790	1.373420	13.85565	3.852086	.0928578
#3	154.0077	.0543592	1.367813	13.85864	3.856137	.0935862

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2532-02 Acquired: 7/10/2025 20:03:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 12 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002812	11.16669	F 43.69984	.0072159	.7396265	-.020850
Stddev	.0002811	.02168	.02432	.0007302	.0005276	.006971
%RSD	99.96074	.1941169	.0556605	10.11886	.0713275	33.43528
#1	.0004218	11.16491	43.70448	.0070557	.7392770	-.022715
#2	.0004644	11.14596	43.67352	.0065792	.7402333	-.013136
#3	-.000042	11.18920	43.72150	.0080129	.7393692	-.026699

Elem	Sr4077
Units	ppm
Avg	.3411685
Stddev	.0011993
%RSD	.3515348
#1	.3417825
#2	.3397865
#3	.3419364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3569.781	34366.92	2394.230	2188.845	4623.602
Stddev	6.785	202.94	12.320	1.008	8.295
%RSD	.1900678	.5904965	.5145542	.0460714	.1794109
#1	3570.352	34294.64	2390.864	2190.000	4620.527
#2	3576.263	34596.10	2407.883	2188.137	4632.995
#3	3562.729	34210.02	2383.943	2188.400	4617.283

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2533-01 Acquired: 7/10/2025 20:08:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165527	.0081857	.5101801	.0016733	.0261146	34.14365
Stddev	.0017234	.0007802	.0036129	.0054277	.0014954	.13229
%RSD	10.41171	9.530848	.7081661	324.3710	5.726395	.3874523
#1	.0171263	.0084808	.5097795	-.004577	.0274663	34.00342
#2	.0146156	.0073010	.5067841	.004403	.0245082	34.16131
#3	.0179162	.0087753	.5139766	.005194	.0263694	34.26622

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6248221	.0023562	.0028018	157.6610	.0849827	.0480739
Stddev	.0023823	.0001435	.0000786	.2076	.0021772	.0000877
%RSD	.3812760	6.090531	2.806167	.1316460	2.561936	.1824121
#1	.6274654	.0022981	.0028649	157.4945	.0838303	.0481218
#2	.6228410	.0022508	.0027137	157.5949	.0836238	.0479727
#3	.6241599	.0025196	.0028269	157.8935	.0874938	.0481272

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4864414	74.79017	.8287223	60.20393	.0780560	.0013842
Stddev	.0029229	.31904	.0066107	.23614	.0007754	.0002753
%RSD	.6008691	.4265737	.7976965	.3922364	.9933739	19.89048
#1	.4895010	75.10891	.8347816	59.95451	.0773549	.0011320
#2	.4861454	74.79077	.8297132	60.23320	.0788888	.0016780
#3	.4836778	74.47084	.8216721	60.42407	.0779242	.0013427

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	114.1560	.0931191	2.827231	19.86610	8.076298	.1060007
Stddev	.4358	.0073333	.017126	.09862	.044063	.0004276
%RSD	.3817867	7.875125	.6057442	.4964116	.5455882	.4034189
#1	113.7668	.0908725	2.844088	19.96990	8.069276	.1060993
#2	114.6269	.1013128	2.809849	19.77364	8.036168	.1055324
#3	114.0742	.0871719	2.827756	19.85476	8.123451	.1063704

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2533-01 Acquired: 7/10/2025 20:08:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 13 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097686	20.12385	F 67.24058	.0061727	1.513675	-.006442
Stddev	.0009974	.13255	.21908	.0004951	.007389	.003172
%RSD	10.21031	.6586941	.3258178	8.020555	.4881725	49.24498
#1	.0086699	20.11774	67.44385	.0057802	1.521637	-.003740
#2	.0100186	19.99446	67.26937	.0067289	1.507037	-.005651
#3	.0106172	20.25935	67.00853	.0060088	1.512351	-.009934

Elem	Sr4077
Units	ppm
Avg	.4388966
Stddev	.0008381
%RSD	.1909504
#1	.4379294
#2	.4393531
#3	.4394073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3687.188	35005.56	2470.660	2245.018	4654.954
Stddev	9.179	51.81	13.297	9.832	7.464
%RSD	.2489312	.1480163	.5381867	.4379312	.1603431
#1	3697.666	35031.23	2468.226	2233.705	4663.054
#2	3680.569	34945.92	2458.749	2251.499	4648.353
#3	3683.329	35039.53	2485.006	2249.850	4653.455

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2533-02 Acquired: 7/10/2025 20:12:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159846	.0090854	.5127277	.0000659	.0249457	33.93106
Stddev	.0020772	.0007623	.0031540	.0038729	.0014113	.15150
%RSD	12.99505	8.390769	.6151437	5872.928	5.657442	.4464877
#1	.0139420	.0083349	.5125566	-.001388	.0256014	33.96280
#2	.0159170	.0098590	.5096627	.004455	.0233259	33.76620
#3	.0180947	.0090623	.5159637	-.002869	.0259099	34.06417

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6323248	.0022053	.0029071	152.5172	.0876349	.0482303
Stddev	.0073989	.0001336	.0001510	.8867	.0009563	.0000947
%RSD	1.170113	6.057686	5.194412	.5813685	1.091239	.1962852
#1	.6403309	.0022690	.0027330	153.0157	.0867216	.0481225
#2	.6257390	.0020518	.0029865	151.4934	.0886291	.0482685
#3	.6309044	.0022950	.0030020	153.0424	.0875539	.0483000

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5597084	72.99568	.7846546	60.97092	.0790146	.0014368
Stddev	.0059078	.81247	.0067654	.07720	.0003969	.0006369
%RSD	1.055511	1.113033	.8622096	.1266132	.5023229	44.32910
#1	.5660530	73.92536	.7920263	60.99667	.0794470	.0018770
#2	.5543656	72.42188	.7787296	60.88413	.0786668	.0017270
#3	.5587066	72.63981	.7832078	61.03194	.0789299	.0007065

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	117.0434	.0946742	2.915321	17.89865	7.895089	.1068003
Stddev	1.6804	.0080935	.027223	.06116	.031959	.0029376
%RSD	1.435718	8.548820	.9337919	.3416770	.4047937	2.750571
#1	117.8713	.1010719	2.883934	17.91492	7.871693	.1101550
#2	118.1493	.0855756	2.929516	17.95003	7.882072	.1055576
#3	115.1097	.0973751	2.932511	17.83101	7.931502	.1046882

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2533-02 Acquired: 7/10/2025 20:12:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 14 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088759	19.96784	F 66.33260	.0090058	1.489736	-.013103
Stddev	.0002781	.05024	.63619	.0007568	.009218	.006940
%RSD	3.133446	.2516168	.9590957	8.403681	.6187517	52.96335
#1	.0085625	19.92574	67.02650	.0094479	1.498913	-.020853
#2	.0089719	19.95431	65.77679	.0081319	1.480478	-.010995
#3	.0090933	20.02345	66.19451	.0094375	1.489817	-.007462

Elem	Sr4077
Units	ppm
Avg	.4232975
Stddev	.0040317
%RSD	.9524532
#1	.4273193
#2	.4192559
#3	.4233174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3640.779	34767.45	2492.154	2220.957	4586.291
Stddev	14.020	390.70	16.814	22.280	9.234
%RSD	.3850775	1.123741	.6746706	1.003151	.2013482
#1	3646.658	35212.75	2473.789	2246.606	4593.037
#2	3650.902	34482.16	2506.791	2206.409	4590.070
#3	3624.777	34607.44	2495.884	2209.856	4575.767

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2509-01 Acquired: 7/10/2025 20:17:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0909733**	**.0063861**	**.4873353**	**.0215351**	**.0133060**	**15.84396**
Stddev	.0053007	.0006802	.0062297	.0058541	.0014068	.13822
%RSD	5.826692	10.65050	1.278310	27.18387	10.57237	.8724035
#1	.0888071	.0060034	.4844268	.0178605	.0119290	15.88633
#2	.0870987	.0059836	.4830918	.0184588	.0132484	15.95604
#3	.0970141	.0071714	.4944873	.0282860	.0147407	15.68951

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1714372**	**.0016904**	**-.000229**	**49.69177**	**.0180211**	**.0382383**
Stddev	.0012228	.0001361	.000153	.32865	.0015769	.0003618
%RSD	.7132838	8.053402	66.77338	.6613770	8.750290	.9460733
#1	.1720932	.0018214	-.000405	49.97741	.0164686	.0380616
#2	.1721921	.0015496	-.000133	49.76533	.0179734	.0379989
#3	.1700263	.0017001	-.000148	49.33258	.0196213	.0386545

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0783930**	**89.37238**	**.8796038**	**8.673099**	**.0445472**	**-.000747**
Stddev	.0046391	3.28936	.0037238	.008303	.0005379	.000815
%RSD	5.917787	3.680509	.4233444	.0957350	1.207403	109.1348
#1	.0836506	92.69555	.8813007	8.663634	.0442245	-.000445
#2	.0748756	86.11791	.8821768	8.676511	.0442491	-.000125
#3	.0766527	89.30368	.8753338	8.679153	.0451682	-.001670

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**204.7293**	**.0441258**	**.5499454**	**18.37894**	**1.236331**	**1.331499**
Stddev	12.0005	.0124057	.0015558	2.49121	.015012	.057042
%RSD	5.861661	28.11427	.2828984	13.55471	1.214263	4.284067
#1	218.5142	.0532905	.5517137	21.21196	1.229041	1.394887
#2	196.6141	.0490780	.5493354	17.39442	1.226355	1.284303
#3	199.0595	.0300090	.5487870	16.53043	1.253596	1.315307

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2509-01 Acquired: 7/10/2025 20:17:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 15 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001563	F 33.69616	F 29.04313	.0037048	.3051336	-.022872
Stddev	.000818	.41387	1.17225	.0008118	.0030371	.005060
%RSD	52.32017	1.228244	4.036245	21.91293	.9953390	22.12333
#1	-.001424	33.47131	30.35985	.0046393	.3075545	-.019568
#2	-.000824	33.44339	28.11301	.0033025	.3061206	-.020351
#3	-.002442	34.17379	28.65652	.0031727	.3017258	-.028698

Elem	Sr4077
Units	ppm
Avg	.4532136
Stddev	.0033542
%RSD	.7400911
#1	.4553188
#2	.4549764
#3	.4493455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3461.267	33991.22	2250.859	2144.768	4537.881
Stddev	15.115	80.95	102.887	20.684	29.548
%RSD	.4366792	.2381405	4.571011	.9643919	.6511330
#1	3476.730	33907.79	2138.391	2125.625	4565.855
#2	3460.545	34069.43	2340.243	2166.708	4540.809
#3	3446.526	33996.44	2273.944	2141.972	4506.978

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01 Acquired: 7/10/2025 20:21:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005987**	**-.003776**	**-.002066**	**-.001255**	**.0074005**	**22.37501**
Stddev	.002616	.000431	.000402	.002568	.0009914	.07411
%RSD	43.69579	11.41143	19.44887	204.6435	13.39616	.3312004
#1	-.004498	-.003834	-.002372	-.004059	.0067972	22.38535
#2	-.004456	-.003319	-.002215	-.000689	.0085446	22.44340
#3	-.009008	-.004176	-.001611	.000983	.0068595	22.29627

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017981**	**-.000076**	**-.000142**	**13.02696**	**.2761685**	**.0073163**
Stddev	.0017757	.000260	.000115	.03658	.0017932	.0001679
%RSD	98.75582	341.0859	80.92171	.2808050	.6493019	2.295115
#1	.0004712	-.000206	-.000022	13.01113	.2764343	.0072618
#2	.0038153	-.000245	-.000251	13.06879	.2778140	.0071824
#3	.0011077	.000223	-.000153	13.00096	.2742573	.0075047

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0164299**	**.3712091**	**.0210861**	**2.533469**	**.0775019**	**-.000236**
Stddev	.0009989	.0066766	.0023242	.022978	.0008786	.000831
%RSD	6.079986	1.798617	11.02250	.9069786	1.133624	352.6526
#1	.0161169	.3723773	.0196006	2.533296	.0781733	-.000920
#2	.0175479	.3772246	.0198931	2.510578	.0778249	-.000476
#3	.0156250	.3640255	.0237645	2.556533	.0765075	.000689

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1471.313**	**.0024157**	**.6370259**	**^ *****	**7.380145**	**6.022782**
Stddev	8.595	.0041121	.0016736	-----	.023471	.090729
%RSD	.5841404	170.2260	.2627199	-----	.3180357	1.506432
#1	1467.458	-.002276	.6386806	^ -----	7.388380	5.995752
#2	1481.161	.004131	.6370629	^ -----	7.398389	6.123954
#3	1465.322	.005393	.6353341	^ -----	7.353666	5.948639

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01 Acquired: 7/10/2025 20:21:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 16 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205835	F 1209.594	1.073458	.0056564	.0002393	-.030870
Stddev	.0003000	4.692	.013631	.0010393	.0011268	.008127
%RSD	1.457356	.3878627	1.269858	18.37428	470.8696	26.32519
#1	.0205280	1212.581	1.068043	.0055059	.0014958	-.029945
#2	.0203151	1212.016	1.088964	.0067627	-.000682	-.039419
#3	.0209073	1204.187	1.063366	.0047005	-.000096	-.023245

Elem	Sr4077
Units	ppm
Avg	.0552008
Stddev	.0003946
%RSD	.7148648
#1	.0556328
#2	.0548595
#3	.0551099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3173.059	29895.66	2230.789	1957.338	3947.809
Stddev	11.623	53.27	32.185	4.546	7.124
%RSD	.3663030	.1781763	1.442775	.2322309	.1804421
#1	3181.499	29892.82	2243.361	1961.700	3954.758
#2	3177.877	29843.86	2194.215	1957.685	3948.146
#3	3159.802	29950.28	2254.791	1952.628	3940.523

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04 Acquired: 7/10/2025 20:26:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002288**	**-.000036**	**.0030564**	**-.002415**	**.0018767**	**.0131518**	**.0291492**
Stddev	.004980	.000449	.0024664	.005286	.0019863	.0168587	.0009058
%RSD	217.7211	1252.456	80.69439	218.8401	105.8392	128.1857	3.107515
#1	-.008016	.000459	.0002266	-.006324	.0037382	.0312098	.0294105
#2	.000132	-.000417	.0047485	.003599	.0021063	.0104191	.0281415
#3	.001021	-.000150	.0041941	-.004521	-.000214	-.002174	.0298956

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000596**	**-.000089**	**14.27744**	**-.000231**	**.0062295**	**.2471134**	**.0709942**
Stddev	.0000656	.000054	.04748	.000843	.0005504	.0030501	.0023619
%RSD	110.0720	60.42137	.3325268	364.8902	8.834913	1.234294	3.326957
#1	.0001127	-.000035	14.25926	.000494	.0060891	.2438692	.0702865
#2	.0000798	-.000143	14.24174	-.000031	.0068365	.2475484	.0690670
#3	-.000014	-.000089	14.33132	-.001157	.0057629	.2499227	.0736291

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0501146**	**2.697482**	**.0100435**	**-.000688**	**23.80163**	**-.002438**	**.0206714**
Stddev	.0010485	.017842	.0004219	.001182	.10162	.009128	.0006866
%RSD	2.092126	.6614140	4.200580	171.8570	.4269533	374.3297	3.321359
#1	.0510593	2.717395	.0095963	-.001014	23.68522	.004268	.0214373
#2	.0489866	2.692100	.0104345	.000623	23.87260	.001251	.0204658
#3	.0502978	2.682952	.0100997	-.001673	23.84707	-.012834	.0201111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.300866**	**1.466579**	**.0221786**	**-.002109**	**2.566841**	**2.069681**	**-.006518**
Stddev	.006211	.055694	.0012582	.000657	.113771	.019595	.000883
%RSD	.4774383	3.797575	5.673205	31.16548	4.432333	.9467727	13.55324
#1	1.293698	1.420649	.0236188	-.002865	2.465778	2.047358	-.007483
#2	1.304644	1.528527	.0212930	-.001784	2.690061	2.077643	-.006320
#3	1.304256	1.450559	.0216239	-.001677	2.544683	2.084042	-.005750

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04 Acquired: 7/10/2025 20:26:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0014224	-.045189	.0530985
Stddev	.0036276	.006641	.0002309
%RSD	255.0402	14.69612	.4349087
#1	.0053940	-.042229	.0528858
#2	-.001716	-.052795	.0530657
#3	.000589	-.040543	.0533441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.266	34516.69	2283.306	2130.219	4924.726
Stddev	136.724	96.95	16.765	6.542	212.364
%RSD	4.037604	.2808715	.7342577	.3070975	4.312191
#1	3461.366	34418.74	2300.770	2125.499	5058.593
#2	3228.452	34612.61	2281.809	2137.687	4679.865
#3	3468.980	34518.71	2267.339	2127.472	5035.719

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04DUP Acquired: 7/10/2025 20:30:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002271**	**-.001744**	**.0023708**	**-.002558**	**.0034377**	**.0353141**	**.0261365**
Stddev	.002182	.000871	.0010984	.005178	.0027962	.0203493	.0014607
%RSD	96.07694	49.95021	46.33125	202.4498	81.33804	57.62361	5.588833
#1	-.004187	-.001539	.0036373	.002676	.0011828	.0272936	.0274277
#2	-.002731	-.002699	.0016784	-.007679	.0065665	.0201972	.0245510
#3	.000104	-.000993	.0017967	-.002671	.0025640	.0584514	.0264309

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001567**	**-.000133**	**13.73699**	**.0018526**	**.0058120**	**.2412622**	**.0964067**
Stddev	.0003122	.000039	.02693	.0024621	.0001108	.0354404	.0200259
%RSD	199.2285	28.98408	.1960065	132.9026	1.907143	14.68956	20.77235
#1	-.000034	-.000134	13.76742	.0005881	.0057745	.2629050	.1109282
#2	.000517	-.000095	13.72726	.0046900	.0057248	.2003624	.0735613
#3	-.000012	-.000172	13.71628	.0002796	.0059367	.2605191	.1047307

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0425825**	**2.573503**	**.0107636**	**-.001029**	**24.07663**	**.0016350**	**.0236055**
Stddev	.0016959	.046258	.0005745	.002072	3.46786	.0087498	.0022043
%RSD	3.982605	1.797461	5.337440	201.3114	14.40344	535.1507	9.338008
#1	.0406707	2.612878	.0111378	-.002495	25.34093	.0043537	.0221158
#2	.0431708	2.522559	.0110508	.001341	20.15401	-.008151	.0261377
#3	.0439058	2.585072	.0101021	-.001934	26.73496	.008703	.0225631

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**^ *****	**1.426356**	**.0074897**	**-.002434**	**2.351748**	**1.944987**	**-.006074**
Stddev	-----	.019258	.0022465	.000367	.036550	.235141	.000562
%RSD	-----	1.350162	29.99467	15.08453	1.554155	12.08958	9.251148
#1	1.450185	1.404226	.0090571	-.002075	2.309581	2.076013	-.006722
#2	^ -----	1.439308	.0049160	-.002809	2.374362	1.673524	-.005781
#3	^ -----	1.435535	.0084961	-.002419	2.371302	2.085424	-.005719

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04DUP Acquired: 7/10/2025 20:30:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005631	-.045347	.0512225
Stddev	.0074448	.002437	.0004800
%RSD	1322.143	5.374381	.9370807
#1	-.007684	-.048092	.0515731
#2	.002584	-.044511	.0514191
#3	.006789	-.043437	.0506755

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3543.902	32249.72	2362.222	2067.460	5148.066
Stddev	67.573	5806.15	23.266	335.664	98.917
%RSD	1.906727	18.00371	.9849287	16.23557	1.921442
#1	3620.706	35995.80	2373.721	2270.326	5262.241
#2	3517.413	25561.45	2377.500	1680.013	5093.771
#3	3493.587	35191.93	2335.445	2252.042	5088.187

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04LX5 Acquired: 7/10/2025 20:35:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003120	-.000492	.0006132	.0013760	-.000334	-.014379	.0043002
Stddev	.0054203	.002612	.0014017	.0031577	.002815	.005066	.0006063
%RSD	1737.417	530.7209	228.6045	229.4919	842.5096	35.23347	14.09904
#1	.0028844	.002002	.0004602	.0016057	.002825	-.008749	.0049694
#2	-.005916	-.000271	.0020851	-.001890	-.002576	-.015819	.0037875
#3	.003967	-.003208	-.000706	.004413	-.001250	-.018569	.0041437

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000039	-.000148	2.789259	-.000071	.0013874	.0467869	.0144060
Stddev	.000222	.000039	.023275	.000711	.0001432	.0018115	.0007603
%RSD	561.1100	26.09009	.8344536	999.2552	10.32392	3.871786	5.277507
#1	-.000289	-.000126	2.814041	-.000114	.0015353	.0481393	.0152768
#2	.000133	-.000125	2.767861	-.000759	.0012493	.0474926	.0140673
#3	.000038	-.000192	2.785874	.000660	.0013776	.0447287	.0138739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108549	.5166902	.0014403	-.001711	4.220684	-.009016	.0039550
Stddev	.0002661	.0139387	.0006161	.000457	.116260	.006932	.0003747
%RSD	2.451495	2.697685	42.77775	26.73959	2.754521	76.88733	9.474480
#1	.0108805	.5036141	.0008329	-.002094	4.347321	-.001722	.0041136
#2	.0105770	.5313552	.0014232	-.001204	4.195947	-.015519	.0035271
#3	.0111074	.5151013	.0020648	-.001834	4.118783	-.009808	.0042243

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2012243	.2720972	-.001066	-.000855	.5147306	.4061965	-.003036
Stddev	.0068868	.0037978	.001964	.000525	.0050033	.0117661	.001034
%RSD	3.422429	1.395738	184.1943	61.42188	.9720173	2.896653	34.04727
#1	.2089400	.2684541	.000494	-.001250	.5166143	.4186736	-.001871
#2	.1990332	.2718048	-.000422	-.001056	.5185185	.4046144	-.003397
#3	.1956997	.2760327	-.003272	-.000259	.5090588	.3953015	-.003842

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04LX5 Acquired: 7/10/2025 20:35:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000181	.0420914	.0099951
Stddev	.005318	.0109378	.0001113
%RSD	2941.015	25.98582	1.113212
#1	-.005524	.0483549	.0099946
#2	-.000130	.0484578	.0098841
#3	.005111	.0294617	.0101066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3594.256	35478.85	2360.994	2183.609	5351.962
Stddev	29.862	84.26	50.362	10.685	39.848
%RSD	.8308147	.2374995	2.133086	.4893305	.7445527
#1	3561.544	35561.11	2310.049	2192.398	5307.498
#2	3601.172	35392.72	2362.182	2186.714	5363.940
#3	3620.053	35482.72	2410.751	2171.716	5384.447

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04MS Acquired: 7/10/2025 20:55:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7300245**	**1.973692**	**.9680931**	**1.927126**	**.7870976**	**1.974126**	**.2271761**
Stddev	.0083536	.014780	.0114273	.026368	.0038391	.018451	.0031076
%RSD	1.144290	.7488524	1.180391	1.368269	.4877522	.9346365	1.367913
#1	.7362621	1.962496	.9588917	1.952171	.7887352	1.979924	.2238751
#2	.7332777	1.990445	.9808842	1.929599	.7898463	1.953472	.2276081
#3	.7205338	1.968136	.9645034	1.899609	.7827112	1.988981	.2300451

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2047850**	**.1942139**	**14.77157**	**.4053832**	**.1979158**	**.5949569**	**3.587401**
Stddev	.0012279	.0021562	.10334	.0024228	.0013655	.0036261	.017889
%RSD	.5995970	1.110213	.6995802	.5976695	.6899260	.6094768	.4986570
#1	.2058153	.1925782	14.69050	.4048690	.1963757	.5978596	3.603393
#2	.2034263	.1966573	14.73628	.4032588	.1989784	.5908922	3.568083
#3	.2051134	.1934062	14.88793	.4080219	.1983932	.5961190	3.590727

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2394177**	**4.674768**	**.4984308**	**.0658503**	**26.84061**	**.3044667**	**.2106812**
Stddev	.0032192	.087706	.0026336	.0001820	1.29535	.0050171	.0010838
%RSD	1.344588	1.876159	.5283863	.2764188	4.826064	1.647830	.5144249
#1	.2361365	4.584244	.4961907	.0657506	26.56536	.3025699	.2094359
#2	.2395456	4.759354	.5013320	.0657399	25.70501	.3006744	.2114113
#3	.2425710	4.680708	.4977697	.0660604	28.25146	.3101556	.2111963

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.85327**	**7.239329**	**.2881794**	**.4114150**	**2.198513**	**3.064998**	**.7031738**
Stddev	.16233	.086547	.0009791	.0008777	.033100	.027087	.0098130
%RSD	1.369514	1.195517	.3397450	.2133418	1.505576	.8837643	1.395534
#1	12.03841	7.297461	.2874198	.4109996	2.231941	3.077992	.6964519
#2	11.78608	7.280662	.2878341	.4108220	2.197847	3.033862	.7144346
#3	11.73532	7.139865	.2892844	.4124233	2.165750	3.083141	.6986349

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04MS Acquired: 7/10/2025 20:55:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1971502	.1671123	.2502164
Stddev	.0018291	.0052086	.0014828
%RSD	.9277876	3.116836	.5925926
#1	.1985031	.1730727	.2485205
#2	.1950691	.1634357	.2508604
#3	.1978784	.1648286	.2512682

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.199	36147.59	2393.507	2259.531	5018.953
Stddev	127.821	73.81	12.349	16.485	173.034
%RSD	3.626956	.2042015	.5159173	.7295868	3.447620
#1	3376.894	36070.20	2380.206	2256.069	4821.322
#2	3589.845	36217.22	2404.608	2245.052	5092.329
#3	3605.859	36155.36	2395.705	2277.473	5143.209

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV02 Acquired: 7/10/2025 20:59:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.640801**	**4.835631**	**4.714856**	**4.803538**	**4.762817**	**9.358451**	**9.764032**
Stddev	.009349	.008455	.007234	.013042	.012291	.048038	.041266
%RSD	.2014587	.1748469	.1534369	.2715111	.2580524	.5133156	.4226286
#1	4.638066	4.837995	4.716535	4.801835	4.750548	9.379650	9.786385
#2	4.633124	4.826245	4.706930	4.791431	4.762775	9.303459	9.716413
#3	4.651213	4.842652	4.721104	4.817348	4.775129	9.392243	9.789300

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2513457**	**2.375374**	**24.28654**	**.9615328**	**2.324714**	**1.233379**	**5.013089**
Stddev	.0022136	.005175	.13082	.0030461	.004559	.012286	.042775
%RSD	.8806888	.2178785	.5386686	.3167961	.1961291	.9961563	.8532701
#1	.2526341	2.373358	24.41102	.9617020	2.321333	1.240448	5.044048
#2	.2487897	2.371509	24.15018	.9644909	2.322908	1.219192	4.964280
#3	.2526133	2.381254	24.29842	.9584057	2.329899	1.240498	5.030940

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.442097**	**24.32975**	**2.351955**	**1.215397**	**24.95368**	**2.425770**	**2.372288**
Stddev	.019389	.19952	.007151	.001860	.46017	.004166	.012167
%RSD	.7939659	.8200790	.3040475	.1530738	1.844110	.1717251	.5128692
#1	2.452892	24.46970	2.347917	1.213732	25.48273	2.424160	2.368251
#2	2.419713	24.10128	2.347737	1.215054	24.73203	2.422651	2.385960
#3	2.453687	24.41828	2.360212	1.217405	24.64627	2.430501	2.362653

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.90116**	**4.756097**	**4.986909**	**4.832867**	**4.675897**	**4.941879**	**4.778636**
Stddev	.57443	.020233	.046873	.013953	.008597	.038729	.013009
%RSD	2.217789	.4254137	.9399244	.2887207	.1838550	.7836945	.2722317
#1	26.46957	4.734298	5.011337	4.822944	4.665993	4.968876	4.771925
#2	25.91302	4.759717	4.932867	4.826836	4.680267	4.897505	4.770353
#3	25.32089	4.774276	5.016522	4.848822	4.681431	4.959257	4.793630

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV02 Acquired: 7/10/2025 20:59:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.841608**	**4.949976**	**4.906626**
Stddev	.036905	.026105	.022180
%RSD	.7622561	.5273669	.4520520
#1	4.873347	4.971225	4.925008
#2	4.801112	4.920836	4.881990
#3	4.850365	4.957867	4.912882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3607.327**	**35597.43**	**2418.401**	**2218.097**	**4891.428**
Stddev	9.323	252.40	12.535	19.027	13.223
%RSD	.2584538	.7090520	.5183347	.8578192	.2703358
#1	3608.905	35579.49	2404.074	2222.591	4890.084
#2	3615.760	35354.47	2427.349	2197.225	4905.272
#3	3597.315	35858.32	2423.780	2234.475	4878.928

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB02 Acquired: 7/10/2025 21:04:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**.0005436**	**.0008875**	**.0012845**	**.0038133**	**.0016452**	**-.016501**	**-.001422**
Stddev	.0023199	.0022063	.0017235	.0025562	.0012553	.037244	.001011
%RSD	426.7731	248.5955	134.1773	67.03483	76.29727	225.7147	71.07771
#1	.0024583	.0032266	-.000595	.0008868	.0005106	-.018523	-.000728
#2	.0012086	-.001156	.002792	.0049432	.0029937	-.052692	-.002581
#3	-.002036	.000592	.001656	.0056099	.0014314	.021714	-.000956

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001794**	**-.000062**	**-.017466**	**-.000297**	**-.000121**	**-.001255**	**-.004287**
Stddev	.0000657	.000068	.013817	.000726	.000184	.000704	.002855
%RSD	36.59888	109.8913	79.10998	243.9673	152.3465	56.05460	66.58456
#1	.0002551	.000000	-.021041	.000411	-.000084	-.000467	-.001613
#2	.0001453	-.000052	-.029144	-.001039	.000042	-.001820	-.007293
#3	.0001378	-.000135	-.002212	-.000265	-.000321	-.001479	-.003955

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000114**	**-.094027**	**-.000542**	**.0000071**	**-.002262**	**-.004204**	**-.001267**
Stddev	.001576	.082938	.000405	.0003759	.014870	.001948	.000250
%RSD	1379.547	88.20607	74.81003	5322.783	657.3908	46.33027	19.75249
#1	-.001395	-.173933	-.000376	-.000425	-.017597	-.002017	-.001139
#2	-.000594	-.008358	-.000245	.000192	-.001284	-.005752	-.001555
#3	.001646	-.099791	-.001004	.000255	.012095	-.004842	-.001107

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000083**	**-.001069**	**.0091380**	**-.000403**	**.0183273**	**-.002986**	**-.000441**
Stddev	.000242	.003125	.0009457	.000281	.0017919	.002501	.000596
%RSD	291.9683	292.4667	10.34958	69.77177	9.777398	83.76196	135.2157
#1	-.000322	-.004117	.0082566	-.000672	.0200760	-.005458	-.000715
#2	.000162	.002129	.0101371	-.000428	.0184108	-.003041	-.000851
#3	-.000088	-.001218	.0090203	-.000110	.0164951	-.000458	.000243

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB02 Acquired: 7/10/2025 21:04:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0023415	-.002316	-.000071
Stddev	.0087329	.003073	.000352
%RSD	372.9593	132.6656	494.4169
#1	-.001847	-.004847	.000185
#2	-.003508	.001103	-.000473
#3	.012380	-.003205	.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3668.130	36837.09	2476.832	2267.077	5523.744
Stddev	12.561	58.62	14.993	2.791	7.273
%RSD	.3424324	.1591239	.6053305	.1231302	.1316646
#1	3660.272	36856.03	2459.552	2267.683	5518.498
#2	3661.502	36883.89	2486.379	2264.033	5520.688
#3	3682.617	36771.34	2484.567	2269.517	5532.047

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04MSD Acquired: 7/10/2025 21:09:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 23 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7071032**	**1.931553**	**.9390373**	**1.851267**	**.7756303**	**2.000880**	**.2324004**
Stddev	.0021417	.007614	.0029754	.008500	.0043348	.016102	.0019329
%RSD	.3028805	.3941762	.3168600	.4591393	.5588744	.8047247	.8317284
#1	.7089461	1.926437	.9358380	1.848550	.7745818	1.983835	.2313146
#2	.7047536	1.927919	.9395524	1.860794	.7719159	2.002971	.2312544
#3	.7076098	1.940303	.9417216	1.844459	.7803932	2.015834	.2346321

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2129703**	**.1882027**	**15.13045**	**.4087182**	**.1952443**	**.6155505**	**3.718451**
Stddev	.0036898	.0004686	.07277	.0025309	.0007219	.0093549	.063244
%RSD	1.732531	.2489705	.4809297	.6192378	.3697295	1.519763	1.700814
#1	.2168903	.1879282	15.08674	.4112316	.1959103	.6256213	3.783315
#2	.2095648	.1879361	15.09016	.4087529	.1944772	.6071315	3.656963
#3	.2124559	.1887437	15.21445	.4061701	.1953454	.6138988	3.715074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2490033**	**4.714455**	**.4901980**	**.0666376**	**27.48774**	**.3091254**	**.2130608**
Stddev	.0018318	.055437	.0008751	.0016626	.64340	.0052407	.0010965
%RSD	.7356618	1.175902	.1785128	2.494986	2.340674	1.695327	.5146453
#1	.2504923	4.722796	.4899022	.0676947	28.19128	.3151463	.2134176
#2	.2469577	4.765250	.4895092	.0647212	26.92924	.3066402	.2139346
#3	.2495599	4.655320	.4911827	.0674969	27.34272	.3055896	.2118304

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.53914**	**6.955423**	**.3026009**	**.4080896**	**2.115264**	**3.179225**	**.6807512**
Stddev	.42287	.009449	.0046630	.0007004	.008562	.052953	.0026312
%RSD	3.372400	.1358528	1.540969	.1716346	.4047584	1.665586	.3865148
#1	13.00113	6.944605	.3079845	.4072809	2.107322	3.238928	.6778152
#2	12.17124	6.959600	.2999874	.4085041	2.114138	3.137942	.6815424
#3	12.44505	6.962064	.2998307	.4084837	2.124334	3.160806	.6828961

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04MSD Acquired: 7/10/2025 21:09:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 23 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2075857	.1555334	.2559536
Stddev	.0014681	.0116701	.0019466
%RSD	.7072364	7.503284	.7605449
#1	.2061125	.1473595	.2550478
#2	.2090487	.1688984	.2546249
#3	.2075959	.1503423	.2581881

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3618.050	36048.83	2326.447	2244.586	5178.759
Stddev	10.477	255.57	48.375	9.245	8.262
%RSD	.2895788	.7089548	2.079367	.4118946	.1595430
#1	3616.642	35754.86	2273.334	2235.506	5171.171
#2	3608.347	36218.21	2367.985	2253.988	5177.545
#3	3629.159	36173.41	2338.021	2244.264	5187.561

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04A Acquired: 7/10/2025 21:14:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 24 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6542037**	**1.797785**	**.8766735**	**1.734470**	**.7330134**	**1.890801**	**.2139904**
Stddev	.0028240	.004154	.0019192	.007137	.0021509	.018642	.0014132
%RSD	.4316739	.2310742	.2189201	.4114835	.2934277	.9859557	.6603868
#1	.6516410	1.793026	.8770823	1.729040	.7306191	1.881180	.2124077
#2	.6537388	1.800683	.8783553	1.731816	.7336391	1.878934	.2144377
#3	.6572314	1.799646	.8745828	1.742554	.7347821	1.912288	.2151258

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920790**	**.1749234**	**14.28291**	**.3814901**	**.1818894**	**.5437586**	**3.344942**
Stddev	.0016584	.0004222	.06375	.0017900	.0004842	.0067252	.034764
%RSD	.8633938	.2413400	.4463450	.4692164	.2661948	1.236794	1.039303
#1	.1902277	.1744587	14.22964	.3835431	.1813571	.5359932	3.305407
#2	.1925805	.1752833	14.26555	.3806703	.1820075	.5476057	3.358687
#3	.1934288	.1750281	14.35354	.3802567	.1823036	.5476770	3.370732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2335158**	**4.486476**	**.4560944**	**.0592715**	**24.86300**	**.2911371**	**.2038542**
Stddev	.0024764	.020238	.0013790	.0011327	.19380	.0065597	.0005450
%RSD	1.060469	.4510961	.3023516	1.910981	.7794572	2.253141	.2673529
#1	.2315126	4.465311	.4545141	.0587620	24.64455	.2950791	.2042506
#2	.2327502	4.488478	.4567156	.0584831	25.01427	.2947675	.2032327
#3	.2362845	4.505639	.4570536	.0605694	24.93019	.2835647	.2040792

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.27481**	**6.465147**	**.2732800**	**.3865615**	**2.089681**	**2.871032**	**.6410486**
Stddev	.07631	.003911	.0031148	.0005725	.004147	.023268	.0014422
%RSD	.6767920	.0604917	1.139771	.1481094	.1984720	.8104348	.2249742
#1	11.18945	6.463429	.2697118	.3861131	2.088948	2.844171	.6406701
#2	11.29855	6.469623	.2746729	.3863650	2.094145	2.884953	.6426423
#3	11.33642	6.462389	.2754552	.3872064	2.085948	2.883973	.6398333

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04A Acquired: 7/10/2025 21:14:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 24 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1900264	.1560353	.2394011
Stddev	.0023833	.0058486	.0008177
%RSD	1.254199	3.748276	.3415554
#1	.1892183	.1503580	.2385143
#2	.1881521	.1557064	.2401252
#3	.1927086	.1620414	.2395639

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3696.929	36674.23	2442.228	2286.333	5314.957
Stddev	13.712	223.07	19.906	9.344	23.027
%RSD	.3709072	.6082437	.8150562	.4086987	.4332437
#1	3711.558	36441.65	2465.203	2275.649	5335.608
#2	3684.369	36694.67	2430.149	2290.368	5290.127
#3	3694.858	36886.38	2431.333	2292.982	5319.136

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168772BL Acquired: 7/10/2025 21:18:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026452**	**-.002456**	**.0011365**	**-.000391**	**-.000225**	**-.013852**	**-.000768**
Stddev	.0033077	.001535	.0011709	.003226	.001935	.031212	.001805
%RSD	125.0453	62.49556	103.0275	824.8666	861.9146	225.3152	235.0092
#1	-.001159	-.003412	.0009988	-.003926	.001997	.009889	-.002851
#2	.004842	-.003270	.0000405	.000356	-.001121	-.049206	.000200
#3	.004253	-.000685	.0023702	.002396	-.001549	-.002240	.000346

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001355**	**-.000059**	**.0164345**	**-.000669**	**-.000044**	**-.001045**	**-.005102**
Stddev	.0000405	.000021	.0108687	.000451	.000149	.001054	.003531
%RSD	29.88563	35.52738	66.13344	67.40436	340.9406	100.9118	69.20924
#1	.0001743	-.000082	.0282930	-.000922	.000032	-.001098	-.008907
#2	.0001387	-.000040	.0140635	-.000938	.000053	.000035	-.004466
#3	.0000935	-.000055	.0069471	-.000148	-.000215	-.002072	-.001932

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000851**	**-.007988**	**-.000541**	**-.000993**	**-.030849**	**.0054589**	**-.001195**
Stddev	.002964	.050695	.000688	.001018	.016585	.0063070	.000652
%RSD	348.2245	634.6756	127.0476	102.5731	53.76074	115.5370	54.53679
#1	.001226	.050534	.000078	-.000009	-.018906	.0119201	-.000710
#2	.000467	-.036054	-.001281	-.002042	-.049785	-.000682	-.000940
#3	-.004246	-.038443	-.000421	-.000927	-.023857	.005138	-.001936

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023378**	**.0024876**	**-.003960**	**.0000291**	**.0185679**	**-.003455**	**-.006842**
Stddev	.0008747	.0014763	.001026	.0004062	.0006478	.001180	.000752
%RSD	37.41571	59.34545	25.90946	1397.636	3.488544	34.13841	10.99718
#1	.0031031	.0035457	-.003626	.0004837	.0187715	-.002662	-.007092
#2	.0013843	.0008011	-.003143	-.000298	.0178428	-.004811	-.007437
#3	.0025259	.0031160	-.005111	-.000098	.0190893	-.002892	-.005996

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168772BL Acquired: 7/10/2025 21:18:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0025021	-.006929	-.000221
Stddev	.0036437	.007706	.000214
%RSD	145.6255	111.2193	96.68010
#1	-.001327	-.012505	-.000431
#2	.002906	.001865	-.000230
#3	.005927	-.010146	-.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3648.996	36434.23	2381.062	2271.460	5470.612
Stddev	3.627	163.51	1.471	12.230	10.584
%RSD	.0994085	.4487945	.0617894	.5384208	.1934697
#1	3651.924	36289.55	2382.639	2259.439	5476.569
#2	3650.127	36401.52	2379.727	2271.053	5476.874
#3	3644.938	36611.63	2380.818	2283.889	5458.392

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DUP Acquired: 7/10/2025 21:27:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005113**	**-.002726**	**.0006231**	**.0000214**	**.0058433**	**21.45054**
Stddev	.003101	.001478	.0022004	.0036950	.0010141	.10281
%RSD	60.65265	54.22934	353.1091	17253.54	17.35540	.4793099
#1	-.003868	-.004317	.0000866	-.001001	.0052399	21.45016
#2	-.008644	-.001395	-.001259	.004120	.0070141	21.34792
#3	-.002828	-.002466	.003042	-.003055	.0052759	21.55354

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002740**	**.0000040**	**-.000122**	**12.53974**	**.2684277**	**.0068977**
Stddev	.0010045	.0000664	.000064	.07082	.0016524	.0001554
%RSD	366.6570	1645.880	52.73529	.5647580	.6155979	2.253230
#1	-.000859	.0000595	-.000176	12.61413	.2665303	.0069638
#2	.001056	.0000222	-.000137	12.53195	.2692026	.0067201
#3	.000625	-.000070	-.000051	12.47314	.2695503	.0070091

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0153655**	**.3539743**	**.0198833**	**2.421818**	**.0747979**	**.0003669**
Stddev	.0002487	.0077741	.0038231	.072666	.0008160	.0010604
%RSD	1.618470	2.196239	19.22769	3.000470	1.090951	289.0025
#1	.0150925	.3625868	.0237856	2.475273	.0747449	.0012446
#2	.0154248	.3474759	.0197195	2.451102	.0740097	-.000811
#3	.0155792	.3518602	.0161447	2.339079	.0756391	.000667

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1386.424**	**.0047313**	**.6010450**	**^ *****	**7.258624**	**5.688463**
Stddev	46.100	.0044149	.0048364	-----	.061969	.131521
%RSD	3.325106	93.31302	.8046711	-----	.8537313	2.312071
#1	1438.122	.0096307	.6062214	^ -----	7.187123	5.839186
#2	1349.587	.0010614	.6002720	^ -----	7.291961	5.629222
#3	1371.564	.0035018	.5966416	^ -----	7.296790	5.596981

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DUP Acquired: 7/10/2025 21:27:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 27 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196976	F 1184.256	1.005055	.0040965	-.000868	-.033977
Stddev	.0001290	9.404	.023022	.0003374	.001387	.001905
%RSD	.6548145	.7940977	2.290667	8.236773	159.7374	5.607003
#1	.0197034	1173.424	1.031106	.0038390	-.000448	-.035775
#2	.0198237	1189.003	.996620	.0044785	-.002417	-.034176
#3	.0195659	1190.339	.987440	.0039721	.000260	-.031981

Elem	Sr4077
Units	ppm
Avg	.0521908
Stddev	.0001619
%RSD	.3102458
#1	.0523748
#2	.0521279
#3	.0520698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3266.256	30837.59	2339.737	2032.442	4053.244
Stddev	5.691	47.13	56.360	13.281	8.837
%RSD	.1742309	.1528453	2.408816	.6534264	.2180235
#1	3266.931	30868.46	2274.758	2018.339	4062.907
#2	3271.580	30860.98	2375.336	2044.709	4051.250
#3	3260.258	30783.34	2369.118	2034.279	4045.574

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168772BS Acquired: 7/10/2025 21:31:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7050830**	**2.034791**	**.9491848**	**1.981658**	**.7906279**	**1.954837**
Stddev	.0019349	.004483	.0005393	.008283	.0032467	.021754
%RSD	.2744204	.2203246	.0568118	.4180002	.4106536	1.112819
#1	.7032462	2.029754	.9485880	1.972097	.7876356	1.959005
#2	.7048999	2.036273	.9496369	1.986186	.7901679	1.931301
#3	.7071029	2.038345	.9493296	1.986690	.7940801	1.974205

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2014980**	**.2174949**	**.1904225**	**1.042026**	**.4075206**	**.1907417**
Stddev	.0010027	.0005948	.0004247	.008707	.0018950	.0004575
%RSD	.4976357	.2734901	.2230362	.8356164	.4650056	.2398533
#1	.2022527	.2180892	.1901388	1.040847	.4058922	.1902309
#2	.2003602	.2168995	.1902179	1.033969	.4070690	.1911138
#3	.2018810	.2174961	.1909108	1.051263	.4096006	.1908804

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3289380**	F **3.517855**	**.2083254**	**2.050633**	**.4874935**	**.0733814**
Stddev	.0017971	.010332	.0038077	.016327	.0014875	.0006641
%RSD	.5463282	.2936923	1.827785	.7961871	.3051304	.9049460
#1	.3307286	3.528835	.2121959	2.038773	.4862642	.0728575
#2	.3289509	3.508324	.2081967	2.043871	.4891470	.0731584
#3	.3271345	3.516406	.2045837	2.069254	.4870692	.0741282

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.182631**	**.2964688**	**.2026806**	**9.618053**	**5.500024**	**.3281223**
Stddev	.010066	.0064332	.0011831	.190265	.016406	.0037144
%RSD	.3162660	2.169949	.5837387	1.978204	.2982965	1.132021
#1	3.193240	.3038872	.2021568	9.817770	5.486370	.3321193
#2	3.173216	.2924257	.2040352	9.438913	5.495478	.3274707
#3	3.181436	.2930934	.2018498	9.597475	5.518224	.3247767

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168772BS Acquired: 7/10/2025 21:31:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4004652	F .1813236	.9615474	.6674480	.1962761	F .3242555
Stddev	.0007515	.0130870	.0017872	.0014767	.0055291	.0186261
%RSD	.1876537	7.217484	.1858682	.2212500	2.817006	5.744260
#1	.4004687	.1958234	.9604516	.6675672	.2002775	.3432530
#2	.3997120	.1777599	.9636097	.6659152	.1899670	.3234889
#3	.4012150	.1703877	.9605809	.6688615	.1985839	.3060245

Elem	Sr4077
Units	ppm
Avg	.2043157
Stddev	.0007580
%RSD	.3709946
#1	.2045744
#2	.2034622
#3	.2049104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3560.854	35398.10	2359.516	2205.849	5182.734
Stddev	3.629	198.00	18.891	7.505	7.530
%RSD	.1019090	.5593546	.8006164	.3402405	.1452820
#1	3557.147	35300.65	2344.800	2198.900	5178.527
#2	3564.399	35625.94	2380.818	2213.808	5191.427
#3	3561.015	35267.71	2352.930	2204.838	5178.248

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01LX5 Acquired: 7/10/2025 21:36:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001549**	**-.001649**	**-.000264**	**-.000124**	**.0008783**	**4.439416**
Stddev	.001271	.002344	.002079	.006821	.0017482	.032821
%RSD	82.02694	142.0885	788.0259	5505.368	199.0487	.7393010
#1	-.001389	-.000465	.001422	.007738	-.000101	4.401922
#2	-.002892	-.004349	-.002587	-.003643	-.000161	4.453385
#3	-.000366	-.000134	.000373	-.004466	.002897	4.462942

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000813**	**-.000028**	**-.000088**	**2.627387**	**.0542921**	**.0015237**
Stddev	.001374	.000011	.000065	.030592	.0004437	.0001788
%RSD	168.9166	38.09363	74.32887	1.164363	.8171540	11.73330
#1	-.001483	-.000024	-.000144	2.599478	.0541816	.0013186
#2	.000767	-.000040	-.000104	2.660096	.0547805	.0016064
#3	-.001724	-.000020	-.000016	2.622588	.0539140	.0016462

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032681**	**.0806228**	**.0042462**	**.4662496**	**.0144170**	**.0001097**
Stddev	.0006033	.0040316	.0016751	.0871087	.0007626	.0025465
%RSD	18.46056	5.000516	39.44855	18.68284	5.289469	2322.235
#1	.0033410	.0817328	.0032805	.4403262	.0152705	-.000948
#2	.0026317	.0761526	.0032776	.3950453	.0141776	.003015
#3	.0038317	.0839832	.0061804	.5633772	.0138028	-.001738

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**442.1210**	**-.006842**	**.1199704**	**52.76460**	**1.355380**	**1.333275**
Stddev	2.7966	.009523	.0006790	.19654	.006066	.005389
%RSD	.6325325	139.1738	.5659404	.3724935	.4475346	.4042213
#1	444.1610	-.004050	.1200893	52.76732	1.361906	1.327102
#2	438.9332	.000972	.1192399	52.56670	1.349915	1.337044
#3	443.2689	-.017449	.1205821	52.95977	1.354317	1.335678

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01LX5 Acquired: 7/10/2025 21:36:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 28 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037157	F 243.0463	.2271796	.0088570	-.000936	.0359844
Stddev	.0008975	.6457	.0008541	.0005401	.001786	.0056854
%RSD	24.15361	.2656646	.3759583	6.097468	190.7985	15.79961
#1	.0026804	243.7908	.2264981	.0083091	-.000948	.0344232
#2	.0041944	242.6396	.2269030	.0088732	.000856	.0422873
#3	.0042723	242.7085	.2281378	.0093888	-.002716	.0312427

Elem	Sr4077
Units	ppm
Avg	.0107257
Stddev	.0001027
%RSD	.9573315
#1	.0107689
#2	.0107997
#3	.0106085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3387.843	32738.89	2281.295	2093.614	4454.039
Stddev	7.982	176.34	19.834	5.624	18.217
%RSD	.2355960	.5386285	.8694395	.2686142	.4090072
#1	3383.572	32783.49	2302.052	2098.958	4451.484
#2	3397.051	32544.53	2262.533	2087.747	4473.399
#3	3382.905	32888.65	2279.300	2094.137	4437.234

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MS Acquired: 7/10/2025 21:50:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 29 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8670742**	**1.882084**	**.9881319**	**2.032655**	**.7891952**	**23.31515**
Stddev	.0054958	.003592	.0082214	.021559	.0029290	.04899
%RSD	.6338319	.1908467	.8320129	1.060613	.3711362	.2101052
#1	.8705312	1.881244	.9792524	2.019796	.7915936	23.36580
#2	.8607369	1.878987	.9896637	2.020624	.7859309	23.31161
#3	.8699544	1.886022	.9954797	2.057544	.7900611	23.26802

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1971201**	**.1980134**	**.2185669**	**13.61394**	**.6715423**	**.2099738**
Stddev	.0013366	.0036258	.0017966	.00830	.0092451	.0007012
%RSD	.6780487	1.831073	.8219995	.0609311	1.376691	.3339405
#1	.1958381	.1974502	.2166080	13.60706	.6798644	.2094999
#2	.1985052	.2018878	.2189550	13.62315	.6615909	.2096423
#3	.1970172	.1947021	.2201377	13.61160	.6731716	.2107793

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2839181**	**3.444750**	**.2931706**	**4.377600**	**.5969679**	**.0685001**
Stddev	.0061098	.049428	.0045223	.103344	.0022874	.0014170
%RSD	2.151946	1.434867	1.542564	2.360740	.3831665	2.068612
#1	.2823216	3.444214	.2902312	4.375056	.5944733	.0701354
#2	.2906676	3.494444	.2983782	4.482193	.5974637	.0677304
#3	.2787650	3.395593	.2909025	4.275552	.5989667	.0676345

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1386.494**	**.2912368**	**.8132370**	**^ *****	**13.90190**	**5.926013**
Stddev	29.195	.0051535	.0050279	-----	.09519	.104177
%RSD	2.105690	1.769509	.6182569	-----	.6847189	1.757964
#1	1386.634	.2879181	.8177776	^ -----	13.79547	5.913158
#2	1415.620	.2971737	.8078335	^ -----	13.93135	6.036021
#3	1357.230	.2886185	.8140999	^ -----	13.97888	5.828860

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MS Acquired: 7/10/2025 21:50:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 29 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4170009	F 1172.481	1.828970	.7591390	.1992170	.1660571
Stddev	.0008227	10.365	.034177	.0069755	.0059673	.0025252
%RSD	.1972849	.8840318	1.868644	.9188649	2.995395	1.520704
#1	.4173848	1161.098	1.838129	.7513860	.1932863	.1680444
#2	.4160565	1174.971	1.857634	.7611246	.2052203	.1669113
#3	.4175615	1181.375	1.791147	.7649064	.1991443	.1632155

Elem	Sr4077
Units	ppm
Avg	.2473404
Stddev	.0018229
%RSD	.7370027
#1	.2463138
#2	.2494451
#3	.2462623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3227.918	30518.58	2319.750	2011.457	4017.908
Stddev	13.034	426.99	57.973	20.475	3.993
%RSD	.4038001	1.399126	2.499091	1.017905	.0993844
#1	3212.882	30027.94	2297.482	1998.002	4013.591
#2	3236.013	30721.78	2276.212	2001.349	4018.666
#3	3234.860	30806.03	2385.555	2035.020	4021.468

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSD Acquired: 7/10/2025 21:59:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 30 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8919239**	**1.918948**	**1.014985**	**2.084624**	**.8003117**	**23.68971**
Stddev	.0177741	.020558	.013029	.033514	.0044564	.07346
%RSD	1.992780	1.071305	1.283682	1.607699	.5568382	.3101038
#1	.8877982	1.912692	1.012355	2.079676	.7958542	23.75365
#2	.8765755	1.902244	1.003472	2.053860	.8003137	23.70602
#3	.9113980	1.941907	1.029129	2.120338	.8047671	23.60947

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2016762**	**.2020234**	**.2245829**	**13.78249**	**.6736476**	**.2141204**
Stddev	.0008734	.0039479	.0035373	.08281	.0020622	.0021737
%RSD	.4330811	1.954161	1.575045	.6008269	.3061181	1.015158
#1	.2018327	.1974698	.2238254	13.86547	.6718141	.2133855
#2	.2007350	.2044850	.2214857	13.69985	.6732485	.2124095
#3	.2024607	.2041154	.2284375	13.78216	.6758801	.2165663

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2904005**	**3.516524**	**.3172711**	**4.487905**	**.6086432**	**.0699176**
Stddev	.0044650	.081030	.0016784	.072162	.0056600	.0008559
%RSD	1.537526	2.304251	.5290072	1.607922	.9299452	1.224149
#1	.2855122	3.425862	.3159255	4.442227	.6072280	.0708102
#2	.2942638	3.581883	.3167360	4.450392	.6038251	.0691039
#3	.2914256	3.541827	.3191518	4.571097	.6148766	.0698388

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1427.813**	**.3053434**	**.8235661**	^ *****	**14.29164**	**6.050944**
Stddev	32.266	.0037169	.0014222	-----	.27897	.108960
%RSD	2.259850	1.217275	.1726897	-----	1.952008	1.800714
#1	1394.109	.3051610	.8231557	^ -----	14.22188	5.925175
#2	1458.418	.3017210	.8223942	^ -----	14.05417	6.116832
#3	1430.913	.3091481	.8251484	^ -----	14.59888	6.110825

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSD Acquired: 7/10/2025 21:59:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 30 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4214403	F 1206.389	1.858840	.7775996	.2005623	.1855672
Stddev	.0016973	25.894	.032861	.0143099	.0058545	.0086529
%RSD	.4027339	2.146385	1.767802	1.840271	2.919053	4.662921
#1	.4201726	1198.468	1.821093	.7737800	.2021386	.1921171
#2	.4207797	1185.382	1.881059	.7655870	.1940811	.1888265
#3	.4233685	1235.319	1.874367	.7934318	.2054673	.1757580

Elem	Sr4077
Units	ppm
Avg	.2515014
Stddev	.0012706
%RSD	.5051959
#1	.2527504
#2	.2502103
#3	.2515436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3198.123	30141.70	2264.648	1970.390	3964.994
Stddev	16.586	108.86	45.703	7.088	32.615
%RSD	.5186273	.3611661	2.018089	.3597437	.8225675
#1	3216.831	30140.47	2314.618	1971.311	3991.972
#2	3192.321	30033.45	2224.967	1962.886	3974.263
#3	3185.217	30251.17	2254.361	1976.973	3928.749

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01A Acquired: 7/10/2025 22:03:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 31 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9222776**	**1.989778**	**1.045180**	**2.150670**	**.8318857**	**24.39620**
Stddev	.0049828	.007692	.007281	.009798	.0058151	.04487
%RSD	.5402717	.3865804	.6966558	.4555907	.6990230	.1839264
#1	.9233524	1.981561	1.037456	2.140023	.8352244	24.36062
#2	.9168451	1.996806	1.051918	2.152678	.8251711	24.38137
#3	.9266353	1.990967	1.046167	2.159309	.8352616	24.44661

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2091819**	**.2122085**	**.2311586**	**14.04262**	**.7070380**	**.2229844**
Stddev	.0014416	.0088929	.0010794	.03999	.0066854	.0004866
%RSD	.6891758	4.190651	.4669564	.2847860	.9455460	.2182083
#1	.2105873	.2078717	.2300431	13.99944	.7133749	.2224665
#2	.2092517	.2224378	.2312349	14.07838	.7000516	.2230547
#3	.2077065	.2063160	.2321979	14.05004	.7076875	.2234320

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3039128**	**3.623790**	**.2244640**	**4.572165**	**.6299257**	**.0554423**
Stddev	.0148656	.133395	.0010730	.033872	.0013759	.0001440
%RSD	4.891392	3.681103	.4780301	.7408365	.2184297	.2597291
#1	.2968695	3.570621	.2249914	4.542794	.6283437	.0553190
#2	.3209910	3.775571	.2251712	4.609219	.6305886	.0556005
#3	.2938780	3.525179	.2232293	4.564482	.6308447	.0554072

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1452.213**	**.3182240**	**.8436119**	**^ *****	**14.52642**	**6.208755**
Stddev	71.313	.0036234	.0024617	-----	.08120	.251501
%RSD	4.910663	1.138629	.2918001	-----	.5589762	4.050748
#1	1430.670	.3155549	.8463603	^ -----	14.43623	6.090540
#2	1531.815	.3223489	.8416095	^ -----	14.54929	6.497584
#3	1394.156	.3167683	.8428660	^ -----	14.59372	6.038142

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01A Acquired: 7/10/2025 22:03:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: 31 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4402086	F 1209.033	1.965580	.8015074	.2096793	.1802720
Stddev	.0016278	5.967	.078150	.0051166	.0022459	.0096787
%RSD	.3697702	.4935648	3.975923	.6383672	1.071115	5.368961
#1	.4402512	1202.559	1.928620	.7955995	.2112783	.1903305
#2	.4385600	1210.224	2.055354	.8045109	.2106480	.1710240
#3	.4418147	1214.314	1.912765	.8044116	.2071116	.1794615

Elem	Sr4077
Units	ppm
Avg	.2613129
Stddev	.0009273
%RSD	.3548768
#1	.2618349
#2	.2618617
#3	.2602423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3120.501	29218.84	2201.602	1929.554	3889.856
Stddev	7.606	165.00	97.521	20.141	4.114
%RSD	.2437508	.5647125	4.429553	1.043797	.1057647
#1	3116.492	29053.55	2240.127	1940.310	3889.264
#2	3129.273	29219.43	2090.703	1906.319	3894.234
#3	3115.738	29383.55	2273.976	1942.033	3886.070

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168705TB Acquired: 7/10/2025 22:07:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001027**	**-.005334**	**.0016861**	**-.003698**	**-.002271**	**.0488436**	**-.001109**
Stddev	.004430	.000869	.0012687	.006114	.003001	.0331882	.000786
%RSD	431.2647	16.29156	75.24558	165.3288	132.1354	67.94779	70.84898
#1	.002560	-.004912	.0006681	-.005247	-.001541	.0500393	-.001662
#2	.000338	-.004756	.0012827	.003041	-.005570	.0814178	-.001457
#3	-.005979	-.006333	.0031074	-.008888	.000298	.0150738	-.000210

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000027**	**-.000154**	**.0424549**	**.0002758**	**-.000066**	**.0003696**	**.0140934**
Stddev	.000011	.000072	.0039697	.0002115	.000346	.0004028	.0021625
%RSD	39.74044	46.56284	9.350309	76.68682	527.4033	108.9800	15.34414
#1	-.000029	-.000133	.0453037	.0000553	-.000308	.0008080	.0139295
#2	-.000036	-.000234	.0441404	.0004769	-.000219	.0000159	.0120175
#3	-.000015	-.000095	.0379206	.0002952	.000330	.0002849	.0163331

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047420**	**-.014590**	**.0019915**	**-.000352**	**388.4405**	**-.004327**	**.0078475**
Stddev	.0018224	.039183	.0007114	.000917	2.0137	.008240	.0000405
%RSD	38.43052	268.5659	35.71941	260.6272	.5184021	190.4454	.5156290
#1	.0039935	-.055247	.0025339	.000529	388.9654	-.005651	.0078391
#2	.0034131	-.011452	.0011861	-.001302	390.1398	.004495	.0078119
#3	.0068194	.022930	.0022546	-.000283	386.2164	-.011824	.0078915

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1000853**	**.0161133**	**.0181988**	**.0004535**	**.4135913**	**.0131081**	**-.006346**
Stddev	.0023051	.0009058	.0027607	.0003268	.0130744	.0013405	.000783
%RSD	2.303149	5.621452	15.16981	72.06260	3.161186	10.22612	12.33976
#1	.1002869	.0160580	.0196473	.0007575	.4269937	.0116425	-.006745
#2	.0976860	.0152364	.0199339	.0001078	.4129087	.0142720	-.006850
#3	.1022830	.0170455	.0150153	.0004954	.4008716	.0134098	-.005444

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168705TB Acquired: 7/10/2025 22:07:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0038479	-.053612	-.000084
Stddev	.0035077	.004285	.000441
%RSD	91.15663	7.993348	526.2283
#1	.0077938	-.057250	-.000214
#2	.0026666	-.054696	.000408
#3	.0010835	-.048888	-.000445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3453.735	33393.62	2358.603	2126.592	4625.834
Stddev	13.239	165.13	13.711	14.412	19.264
%RSD	.3833243	.4944930	.5813166	.6777112	.4164368
#1	3448.311	33558.43	2374.427	2133.670	4624.582
#2	3468.825	33228.17	2351.121	2110.009	4645.693
#3	3444.069	33394.25	2350.261	2136.096	4607.227

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV03 Acquired: 7/10/2025 22:32:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.827249**	**4.989922**	**4.933960**	**4.940762**	**4.875134**	**9.636322**	**9.997465**
Stddev	.011254	.002886	.001550	.018963	.008747	.053444	.028168
%RSD	.2331437	.0578404	.0314112	.3838094	.1794221	.5546119	.2817527
#1	4.822270	4.989829	4.932351	4.936979	4.867826	9.587117	9.974317
#2	4.819343	4.992853	4.935443	4.923977	4.872749	9.628668	10.02883
#3	4.840134	4.987083	4.934086	4.961332	4.884826	9.693180	9.98925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2554599**	**2.476908**	**24.87519**	**.9965546**	**2.410000**	**1.269058**	**5.137625**
Stddev	.0007514	.002877	.10329	.0012858	.000618	.001001	.011860
%RSD	.2941468	.1161464	.4152378	.1290290	.0256317	.0788483	.2308512
#1	.2545977	2.473586	24.75767	.9953039	2.409287	1.268444	5.132416
#2	.2559752	2.478563	24.95157	.9964870	2.410355	1.270213	5.129261
#3	.2558067	2.478574	24.91633	.9978729	2.410358	1.268518	5.151199

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.505269**	**24.82261**	**2.435409**	**1.247246**	**26.50213**	**2.490156**	**2.452759**
Stddev	.009169	.13941	.002180	.001374	.11038	.004905	.008473
%RSD	.3660015	.5616385	.0894967	.1101832	.4165016	.1969690	.3454480
#1	2.496467	24.68435	2.433021	1.248776	26.46380	2.486988	2.443845
#2	2.504574	24.82034	2.435915	1.246116	26.62657	2.495805	2.460708
#3	2.514766	24.96315	2.437291	1.246846	26.41603	2.487674	2.453724

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.87856**	**4.948170**	**5.122561**	**4.943258**	**4.873693**	**5.112655**	**4.976394**
Stddev	.06497	.006755	.004723	.011971	.009587	.003982	.007603
%RSD	.2416984	.1365109	.0922087	.2421593	.1967134	.0778775	.1527788
#1	26.83587	4.940520	5.121782	4.930636	4.875332	5.115919	4.968516
#2	26.84648	4.953314	5.127626	4.944690	4.863392	5.113827	4.976978
#3	26.95333	4.950675	5.118276	4.954449	4.882355	5.108219	4.983688

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV03 Acquired: 7/10/2025 22:32:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.974865**	**5.002729**	**5.024945**
Stddev	.016700	.019357	.021750
%RSD	.3356937	.3869202	.4328423
#1	4.963150	5.023717	5.004174
#2	4.993988	4.998891	5.047557
#3	4.967458	4.985579	5.023103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3385.713**	**32906.45**	**2239.917**	**2057.407**	**4565.400**
Stddev	6.924	64.02	4.528	8.278	8.661
%RSD	.2045178	.1945646	.2021715	.4023340	.1897033
#1	3393.658	32960.65	2244.950	2066.623	4574.483
#2	3382.521	32835.81	2236.172	2050.605	4557.234
#3	3380.960	32922.90	2238.630	2054.993	4564.484

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB03 Acquired: 7/10/2025 22:36:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025219	-.000003	.0015047	-.000712	.0021497	-.024841
Stddev	.0021990	.001105	.0016275	.001464	.0034851	.014157
%RSD	87.19515	34949.87	108.1599	205.5468	162.1235	56.99165
#1	.0008276	-.000364	-.000350	-.000596	-.001205	-.011186
#2	.0017313	-.000882	.002171	-.002232	.001903	-.039452
#3	.0050069	.001237	.002693	.000690	.005752	-.023885

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002098	.0001290	-.000092	.0112455	-.000379	-.000022
Stddev	.002247	.0001769	.000030	.0531734	.000453	.000085
%RSD	107.0670	137.2065	32.72614	472.8407	119.3291	382.9690
#1	.000401	.0001058	-.000115	.0594837	-.000803	.000048
#2	-.002746	.0003164	-.000104	-.045771	-.000432	-.000117
#3	-.003950	-.000035	-.000058	.020024	.000097	.000002

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001211	.0137684	-.000009	.0245569	-.000725	.0004168
Stddev	.001227	.0023289	.001448	.0078638	.000278	.0009077
%RSD	101.2980	16.91500	16526.42	32.02279	38.26602	217.7719
#1	-.001887	.0164492	-.001609	.0166780	-.000806	-.000578
#2	-.001951	.0122446	.001213	.0324056	-.000416	.000628
#3	.000205	.0126114	.000369	.0245872	-.000953	.001200

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049291	-.001073	.0035014	.0195538	.0033148	F .0151358
Stddev	.0059080	.006417	.0002663	.0019224	.0004630	.0008239
%RSD	119.8586	598.2529	7.606005	9.831228	13.96740	5.443541
#1	.0015859	-.007517	.0032104	.0174452	.0028496	.0143526
#2	.0014508	.005317	.0037329	.0212089	.0033194	.0159951
#3	.0117506	-.001018	.0035609	.0200073	.0037755	.0150596

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB03 Acquired: 7/10/2025 22:36:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000286	F .0571695	-.002043	.0014130	-.000597	-.015179
Stddev	.000289	.0023738	.000298	.0002270	.004655	.004190
%RSD	101.1461	4.152224	14.57154	16.06543	779.4790	27.60292
#1	.000048	.0585848	-.001984	.0015115	.004751	-.017590
#2	-.000468	.0544290	-.001779	.0011534	-.002811	-.017605
#3	-.000438	.0584948	-.002365	.0015741	-.003732	-.010341

Elem	Sr4077
Units	ppm
Avg	-.000247
Stddev	.000144
%RSD	58.05272
#1	-.000168
#2	-.000413
#3	-.000161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3572.493	35186.56	2324.550	2189.077	5356.280
Stddev	10.852	266.08	5.643	7.622	18.895
%RSD	.3037585	.7562074	.2427512	.3481928	.3527687
#1	3561.093	35312.31	2330.918	2193.141	5334.707
#2	3573.690	34880.91	2322.558	2180.284	5364.242
#3	3582.697	35366.47	2320.173	2193.806	5369.892

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01 Acquired: 7/10/2025 22:41:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007929**	**-.002476**	**.0013741**	**.0027103**	**-.002627**	**1.953083**	**.4147467**
Stddev	.0024682	.000863	.0013190	.0047560	.002552	.024332	.0032515
%RSD	311.2835	34.84221	95.99320	175.4764	97.14346	1.245818	.7839811
#1	.0005010	-.001534	.0005937	-.002731	.000185	1.933920	.4136334
#2	-.001516	-.003227	.0006315	.004789	-.003269	1.980458	.4184086
#3	.003394	-.002667	.0028970	.006073	-.004795	1.944871	.4121980

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001508**	**-.000226**	**5.706113**	**.0000885**	**.0029139**	**.0465303**	**7.677631**
Stddev	.0001396	.000021	.037365	.0004628	.0001375	.0005367	.031616
%RSD	92.60658	9.267206	.6548270	522.8619	4.719209	1.153382	.4117976
#1	.0002044	-.000240	5.746683	-.000292	.0030556	.0459485	7.641129
#2	-.000008	-.000237	5.698544	.000603	.0029050	.0470059	7.696447
#3	.000256	-.000202	5.673112	-.000045	.0027810	.0466366	7.695316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8095444**	**1.327565**	**.0029622**	**-.001198**	**11.73431**	**-.007965**	**.0393632**
Stddev	.0028517	.025330	.0004229	.000686	.06402	.011592	.0001552
%RSD	.3522615	1.908001	14.27740	57.23676	.5456115	145.5307	.3943586
#1	.8073583	1.317114	.0025427	-.001727	11.66917	.004086	.0395401
#2	.8085048	1.356449	.0033885	-.001445	11.79715	-.008946	.0392497
#3	.8127700	1.309133	.0029554	-.000423	11.73662	-.019035	.0392999

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.251854**	**.0134451**	**.0258749**	**-.000536**	**.4414517**	**.4213488**	**-.006558**
Stddev	.027420	.0006355	.0010114	.000449	.0025633	.0033821	.000687
%RSD	.8432046	4.726935	3.908923	83.86098	.5806552	.8026809	10.47645
#1	3.227244	.0134873	.0251350	-.001023	.4408133	.4183291	-.005993
#2	3.281411	.0140585	.0270274	-.000448	.4392679	.4207139	-.007323
#3	3.246908	.0127895	.0254622	-.000137	.4442739	.4250033	-.006358

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01 Acquired: 7/10/2025 22:41:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0129082	-.049461	.0366786
Stddev	.0011922	.002872	.0002444
%RSD	9.235886	5.806367	.6662846
#1	.0123280	-.052485	.0368285
#2	.0121171	-.046771	.0363966
#3	.0142794	-.049128	.0368107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3649.473	35833.35	2361.697	2246.171	5371.062
Stddev	3.535	68.36	7.303	8.555	4.934
%RSD	.0968610	.1907728	.3092479	.3808507	.0918613
#1	3652.632	35771.89	2366.624	2237.273	5372.969
#2	3650.133	35821.19	2353.306	2254.335	5374.759
#3	3645.655	35906.98	2365.161	2246.904	5365.460

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01DUP Acquired: 7/10/2025 22:45:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013485	-.001682	.0032480	.0031891	-.001591	1.890033	.4046975
Stddev	.0000644	.001278	.0006908	.0043717	.000201	.032740	.0033513
%RSD	4.776319	75.92944	21.26734	137.0847	12.64165	1.732238	.8281116
#1	.0014137	-.001519	.0026350	.0081996	-.001367	1.921351	.4070615
#2	.0012849	-.003034	.0031125	.0012158	-.001651	1.856036	.4061689
#3	.0013470	-.000495	.0039964	.0001518	-.001756	1.892712	.4008622

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001046	-.000130	5.595075	.0003670	.0031868	.0454118	7.618305
Stddev	.0000427	.000038	.026667	.0006767	.0003753	.0006412	.060183
%RSD	40.78679	29.02266	.4766191	184.3703	11.77604	1.411869	.7899787
#1	.0001001	-.000166	5.612400	.0006040	.0029000	.0460675	7.656244
#2	.0000643	-.000135	5.564366	-.000396	.0030489	.0447863	7.649758
#3	.0001493	-.000090	5.608458	.000893	.0036115	.0453816	7.548913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7918044	1.323264	.0032273	-.001052	11.50190	.0054288	.0388580
Stddev	.0089919	.035284	.0003889	.001008	.04358	.0058977	.0003200
%RSD	1.135617	2.666425	12.05185	95.83793	.3789128	108.6373	.8235534
#1	.8019576	1.282680	.0036671	-.001892	11.49508	.0053330	.0392260
#2	.7886089	1.340446	.0030861	.000066	11.54849	.0113739	.0387033
#3	.7848467	1.346666	.0029286	-.001330	11.46214	-.000420	.0386448

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.203406	.0131284	.0214025	-.000915	.4321429	.4112812	-.007244
Stddev	.007692	.0008314	.0010495	.000356	.0044398	.0031652	.000138
%RSD	.2401086	6.332969	4.903615	38.90836	1.027395	.7695967	1.905374
#1	3.206609	.0140876	.0220065	-.000581	.4348874	.4127753	-.007360
#2	3.208979	.0126150	.0201907	-.000875	.4345207	.4134227	-.007091
#3	3.194630	.0126825	.0220105	-.001290	.4270206	.4076455	-.007280

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01DUP Acquired: 7/10/2025 22:45:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0117175	-.044202	.0356944
Stddev	.0034783	.008222	.0005933
%RSD	29.68427	18.60033	1.662193
#1	.0077197	-.035655	.0362215
#2	.0133823	-.052054	.0358098
#3	.0140505	-.044898	.0350519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3704.081	36291.92	2387.612	2269.643	5457.448
Stddev	8.733	106.11	12.948	3.099	15.704
%RSD	.2357562	.2923691	.5423058	.1365375	.2877513
#1	3697.050	36405.49	2376.882	2267.857	5439.342
#2	3713.856	36274.93	2383.961	2273.221	5465.640
#3	3701.336	36195.33	2401.994	2267.850	5467.362

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01LX5 Acquired: 7/10/2025 22:49:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012313**	**-.001270**	**.0015002**	**-.001533**	**.0012093**	**.4432489**	**.0786948**
Stddev	.0007851	.001706	.0009303	.001938	.0007350	.0128674	.0010157
%RSD	63.76280	134.3162	62.01180	126.3881	60.77603	2.902981	1.290735
#1	.0003311	-.000263	.0013003	.000031	.0003776	.4285972	.0777371
#2	.0015886	-.003240	.0006861	-.000930	.0014790	.4527116	.0785871
#3	.0017742	-.000307	.0025143	-.003701	.0017713	.4484381	.0797600

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000094**	**-.000060**	**1.163602**	**.0001758**	**.0004790**	**.0086634**	**1.446199**
Stddev	.000091	.000060	.005303	.0007891	.0002362	.0001280	.005961
%RSD	96.64952	100.0070	.4557520	448.7564	49.29952	1.477670	.4122083
#1	-.000009	-.000027	1.167157	-.000668	.0007020	.0085696	1.439836
#2	-.000083	-.000130	1.157506	.000301	.0005035	.0086113	1.447105
#3	-.000190	-.000025	1.166142	.000895	.0002316	.0088092	1.451655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1610524**	**.2675848**	**.0002087**	**.0001264**	**2.097801**	**.0047313**	**.0080366**
Stddev	.0024857	.0446590	.0002939	.0013001	.013267	.0085059	.0003558
%RSD	1.543429	16.68965	140.7867	1028.720	.6324171	179.7797	4.426960
#1	.1597709	.3174075	.0003396	-.001270	2.105039	.0028693	.0078193
#2	.1594690	.2311538	.0004144	.001301	2.082490	-.002689	.0084471
#3	.1639174	.2541931	-.000128	.000348	2.105875	.014014	.0078432

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4993688**	**.0049127**	**.0024120**	**-.000316**	**.1254038**	**.0827961**	**.0045819**
Stddev	.0028044	.0020653	.0011191	.000760	.0058887	.0011242	.0006579
%RSD	.5615829	42.04078	46.39590	240.5029	4.695791	1.357769	14.35771
#1	.4980138	.0046701	.0021212	-.001154	.1297059	.0840327	.0042057
#2	.4974992	.0070885	.0014671	.000331	.1186925	.0825197	.0041984
#3	.5025933	.0029793	.0036478	-.000126	.1278130	.0818359	.0053415

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01LX5 Acquired: 7/10/2025 22:49:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0044226	-.023248	.0071938
Stddev	.0020591	.003526	.0004138
%RSD	46.55805	15.16580	5.751604
#1	.0038044	-.023690	.0073288
#2	.0027434	-.026533	.0075231
#3	.0067199	-.019523	.0067294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3590.717	35414.11	2362.002	2194.871	5319.138
Stddev	9.431	55.67	8.300	1.615	14.113
%RSD	.2626451	.1572078	.3513990	.0735606	.2653334
#1	3594.813	35351.21	2369.997	2196.137	5313.308
#2	3579.930	35457.05	2362.582	2193.053	5308.874
#3	3597.406	35434.09	2353.427	2195.423	5335.233

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01MS Acquired: 7/10/2025 22:54:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7401258**	**2.054425**	**.9902254**	**1.977231**	**.8165403**	**4.033804**	**.6361047**
Stddev	.0017996	.004899	.0017298	.009102	.0013982	.046331	.0042975
%RSD	.2431454	.2384495	.1746891	.4603459	.1712384	1.148576	.6755962
#1	.7392037	2.053526	.9906662	1.974857	.8153764	4.016464	.6314877
#2	.7421995	2.050039	.9883178	1.969551	.8161532	3.998644	.6368382
#3	.7389742	2.059711	.9916921	1.987285	.8180913	4.086304	.6399883

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2205714**	**.1957216**	**6.841248**	**.4300589**	**.2008141**	**.3934993**	**10.64230**
Stddev	.0013894	.0004545	.045030	.0014627	.0007668	.0044168	.06085
%RSD	.6298960	.2322165	.6582092	.3401108	.3818649	1.122434	.5717969
#1	.2213079	.1952331	6.789766	.4288272	.2001371	.3966747	10.69638
#2	.2189688	.1957997	6.873305	.4316756	.2016469	.3884553	10.57641
#3	.2214374	.1961320	6.860672	.4296738	.2006583	.3953677	10.65411

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.036148**	**3.502676**	**.5046321**	**.0727562**	**15.67065**	**.3159045**	**.2513450**
Stddev	.003067	.003996	.0002070	.0004431	.15475	.0173308	.0016325
%RSD	.2960158	.1140880	.0410266	.6090299	.9875420	5.486097	.6495053
#1	1.034105	3.506645	.5048442	.0732659	15.76322	.2960133	.2512755
#2	1.034664	3.498653	.5046215	.0725393	15.49199	.3239495	.2497483
#3	1.039675	3.502729	.5044305	.0724633	15.75673	.3277508	.2530111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.58300**	**5.738885**	**.3315653**	**.4150731**	**.4636838**	**1.421441**	**.6994733**
Stddev	.12135	.010805	.0024879	.0004601	.0017632	.010635	.0024595
%RSD	.7787115	.1882774	.7503366	.1108498	.3802627	.7481681	.3516222
#1	15.72048	5.727781	.3332315	.4147213	.4655372	1.423779	.6969082
#2	15.49081	5.749364	.3287055	.4149041	.4620273	1.409832	.6997003
#3	15.53773	5.739511	.3327588	.4155938	.4634869	1.430712	.7018115

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01MS Acquired: 7/10/2025 22:54:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2183249	.1798911	.2497551
Stddev	.0014346	.0106251	.0006621
%RSD	.6570920	5.906391	.2651092
#1	.2183301	.1875600	.2490171
#2	.2168878	.1843502	.2499511
#3	.2197570	.1677631	.2502972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3574.536	34740.71	2314.055	2183.206	5155.948
Stddev	7.457	158.59	21.111	14.191	9.453
%RSD	.2086268	.4565094	.9122801	.6499954	.1833420
#1	3583.144	34876.92	2311.320	2196.183	5166.365
#2	3570.038	34778.62	2336.400	2185.383	5147.915
#3	3570.427	34566.60	2294.446	2168.053	5153.565

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01MSD Acquired: 7/10/2025 22:58:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6981922**	**1.936226**	**.9356139**	**1.860542**	**.7846430**	**3.973590**	**.6023101**
Stddev	.0039690	.005723	.0005417	.009321	.0029247	.014874	.0008383
%RSD	.5684628	.2955757	.0579015	.5010048	.3727371	.3743321	.1391731
#1	.7025573	1.933997	.9355984	1.854204	.7865430	3.989248	.6028146
#2	.6948005	1.931953	.9350801	1.856179	.7812751	3.959648	.6027732
#3	.6972189	1.942728	.9361632	1.871245	.7861108	3.971874	.6013424

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2076089**	**.1851728**	**6.553108**	**.4074412**	**.1905610**	**.3732191**	**13.02673**
Stddev	.0021017	.0006004	.015595	.0021678	.0001583	.0042846	.14367
%RSD	1.012338	.3242516	.2379710	.5320535	.0830594	1.148020	1.102876
#1	.2081528	.1847399	6.539918	.4074838	.1903993	.3750285	13.05891
#2	.2052887	.1849203	6.549086	.4095874	.1905681	.3683266	12.86971
#3	.2093852	.1858583	6.570319	.4052524	.1907156	.3763021	13.15159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9898505**	**3.393303**	**.4782073**	**.0691851**	**14.98079**	**.3088211**	**.2413212**
Stddev	.0018229	.075679	.0009920	.0007076	.21455	.0111800	.0009635
%RSD	.1841540	2.230235	.2074373	1.022815	1.432185	3.620211	.3992738
#1	.9900509	3.306064	.4772964	.0683798	15.02740	.3030196	.2402096
#2	.9915649	3.432533	.4780613	.0694679	14.74677	.3017344	.2418376
#3	.9879358	3.441311	.4792642	.0697077	15.16821	.3217093	.2419165

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.88222**	**5.416180**	**.3135346**	**.4011542**	**.4470248**	**1.421623**	**.6737172**
Stddev	.30150	.013967	.0053034	.0010322	.0053174	.015602	.0010695
%RSD	2.025906	.2578738	1.691485	.2573150	1.189502	1.097452	.1587508
#1	15.21800	5.407909	.3118891	.4007919	.4409452	1.422645	.6737387
#2	14.79399	5.408325	.3092489	.4003520	.4508082	1.405536	.6726371
#3	14.63468	5.432306	.3194656	.4023188	.4493211	1.436688	.6747758

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01MSD Acquired: 7/10/2025 22:58:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2105113	.1607760	.2359873
Stddev	.0036893	.0014619	.0004612
%RSD	1.752552	.9092529	.1954485
#1	.2083015	.1591053	.2359223
#2	.2147704	.1618200	.2364776
#3	.2084621	.1614026	.2355620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3650.615	35728.60	2375.454	2237.221	5260.902
Stddev	10.918	203.89	13.440	15.483	9.946
%RSD	.2990626	.5706571	.5657891	.6920445	.1890463
#1	3663.217	35784.50	2375.406	2249.476	5272.371
#2	3644.602	35502.59	2388.917	2219.821	5254.654
#3	3644.025	35898.70	2362.037	2242.365	5255.681

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01A Acquired: 7/10/2025 23:02:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7336684	2.017114	.9778322	1.948032	.8134472	3.970691	.6203447
Stddev	.0076558	.004154	.0011229	.003240	.0005421	.042821	.0052212
%RSD	1.043502	.2059217	.1148350	.1663076	.0666375	1.078432	.8416539
#1	.7254232	2.017609	.9780224	1.949527	.8138376	4.002596	.6180280
#2	.7350300	2.012734	.9788479	1.950255	.8136756	3.987453	.6263234
#3	.7405522	2.020997	.9766264	1.944315	.8128283	3.922024	.6166829

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2152161	.1931398	6.687437	.4231830	.1985750	.3906420	11.83217
Stddev	.0031954	.0001668	.059444	.0009931	.0002290	.0064992	.18893
%RSD	1.484753	.0863763	.8888866	.2346632	.1153208	1.663714	1.596779
#1	.2129690	.1931362	6.666403	.4223704	.1985443	.3867859	11.69812
#2	.2188742	.1933084	6.754538	.4242900	.1983629	.3981457	12.04825
#3	.2138052	.1929748	6.641370	.4228888	.1988178	.3869946	11.75013

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.019813	3.522349	.4977551	.0725282	15.19692	.3053708	.2496951
Stddev	.005169	.066381	.0003966	.0012912	.29372	.0013421	.0022532
%RSD	.5068898	1.884578	.0796723	1.780310	1.932765	.4394816	.9023688
#1	1.015139	3.519979	.4973032	.0711292	14.93183	.3045596	.2471221
#2	1.025365	3.589884	.4979166	.0736743	15.51268	.3046329	.2506474
#3	1.018936	3.457185	.4980455	.0727810	15.14625	.3069198	.2513157

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.88919	5.650485	.3240125	.4139876	.4607298	1.429743	.6969067
Stddev	.22982	.005962	.0065473	.0016326	.0051498	.024755	.0018555
%RSD	1.543519	.1055046	2.020696	.3943466	1.117749	1.731407	.2662433
#1	14.93621	5.656249	.3173393	.4129690	.4657762	1.413421	.6947822
#2	15.09186	5.650861	.3304262	.4131232	.4554825	1.458226	.6977292
#3	14.63950	5.644344	.3242718	.4158706	.4609307	1.417582	.6982088

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2477-01A Acquired: 7/10/2025 23:02:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2143450	.1671221	.2440189
Stddev	.0032166	.0063059	.0010652
%RSD	1.500684	3.773251	.4365246
#1	.2126624	.1740632	.2429313
#2	.2180540	.1655572	.2450602
#3	.2123187	.1617460	.2440654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3595.053	35168.18	2346.636	2196.289	5181.340
Stddev	18.427	160.09	26.362	8.925	25.074
%RSD	.5125585	.4552058	1.123402	.4063891	.4839314
#1	3604.349	35158.65	2364.678	2197.485	5192.992
#2	3606.980	35332.82	2316.382	2204.557	5198.467
#3	3573.829	35013.07	2358.848	2186.826	5152.560

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2473-07 Acquired: 7/10/2025 23:07:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.013186**	**.0146388**	**.0144932**	**-.031136**	**.0159443**	**-.010090**	**.0776287**
Stddev	.004149	.0023409	.0010760	.003730	.0023248	.021469	.0019817
%RSD	31.46450	15.99122	7.424133	11.98074	14.58082	212.7704	2.552836
#1	-.009337	.0172826	.0155724	-.027224	.0148685	-.028895	.0793869
#2	-.017581	.0138042	.0134204	-.031531	.0143522	.013302	.0754812
#3	-.012641	.0128295	.0144868	-.034653	.0186122	-.014677	.0780180

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000237**	**-.000030**	**166.4745**	**.0242802**	**.0226802**	**.0023990**	**.0132635**
Stddev	.000112	.000056	.4051	.0008541	.0004241	.0006839	.0031439
%RSD	47.14305	185.4838	.2433194	3.517723	1.869753	28.50872	23.70331
#1	-.000245	-.000018	166.6307	.0235602	.0230712	.0027927	.0163686
#2	-.000121	-.000092	166.0146	.0240566	.0227399	.0016093	.0133396
#3	-.000344	.000019	166.7782	.0252239	.0222294	.0027951	.0100822

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059148**	**3.684712**	**-.001974**	**.0005867**	**290.5889**	**-.001079**	**.0101000**
Stddev	.0022533	.041357	.000332	.0015552	3.2828	.013278	.0003125
%RSD	38.09608	1.122407	16.80583	265.0720	1.129701	1230.886	3.094387
#1	.0071675	3.690684	-.001592	-.000527	294.3784	.012844	.0104406
#2	.0072634	3.722760	-.002148	-.000076	288.6158	-.002479	.0098265
#3	.0033135	3.640694	-.002183	.002364	288.7724	-.013601	.0100330

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.811618**	**.0520173**	**.0469451**	**-.008920**	**10.03227**	**3.367388**	**-.002284**
Stddev	.053293	.0028632	.0006894	.000431	.02351	.032244	.000384
%RSD	1.107590	5.504354	1.468465	4.826809	.2343404	.9575268	16.80425
#1	4.872979	.0550247	.0463368	-.008801	10.03836	3.404507	-.002398
#2	4.776908	.0517029	.0476939	-.008562	10.00632	3.351343	-.002598
#3	4.784967	.0493242	.0468046	-.009398	10.05214	3.346315	-.001856

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2473-07 Acquired: 7/10/2025 23:07:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000380	-.051175	.5564196
Stddev	.000614	.003172	.0029033
%RSD	161.4596	6.199174	.5217775
#1	-.000825	-.053506	.5586602
#2	.000320	-.052457	.5531397
#3	-.000636	-.047562	.5574589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3319.284	32207.12	2300.471	2030.179	4402.961
Stddev	3.362	160.73	13.582	9.544	7.241
%RSD	.1012969	.4990418	.5904170	.4701104	.1644647
#1	3321.380	32392.42	2284.867	2041.168	4399.566
#2	3315.405	32105.43	2309.639	2023.961	4398.041
#3	3321.066	32123.52	2306.907	2025.409	4411.276

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2473-08 Acquired: 7/10/2025 23:11:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.014164**	**.0163602**	**.0163281**	**-.035285**	**.0142734**	**-.003471**
Stddev	.002533	.0048749	.0013372	.004238	.0018655	.023504
%RSD	17.87997	29.79697	8.189536	12.01080	13.06949	677.1259
#1	-.016941	.0182082	.0177367	-.031966	.0121246	-.022467
#2	-.013569	.0200409	.0161715	-.040058	.0154777	-.010761
#3	-.011982	.0108316	.0150761	-.033829	.0152179	.022814

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0659457**	**-.000066**	**.0000156**	**238.7504**	**.0247973**	**.0250673**
Stddev	.0008062	.000118	.0000384	.4019	.0011278	.0001580
%RSD	1.222557	179.3499	245.8298	.1683362	4.547961	.6302943
#1	.0653239	.000055	-.000022	238.5039	.0251598	.0249858
#2	.0668567	-.000072	.000014	239.2141	.0235329	.0252495
#3	.0656566	-.000180	.000055	238.5330	.0256993	.0249667

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157305**	**.0086417**	**.0011186**	**2.000295**	**-.000481**	**-.000953**
Stddev	.0007082	.0013872	.0013860	.025231	.000632	.000409
%RSD	4.502341	16.05200	123.9078	1.261345	131.4915	42.96756
#1	.0157842	.0071312	.0023956	2.014842	-.000812	-.001067
#2	.0149969	.0089352	-.000355	2.014883	.000248	-.001292
#3	.0164103	.0098586	.001315	1.971162	-.000878	-.000498

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**421.5040**	**.0039204**	**.0032794**	**7.922197**	**.0544835**	**.0696961**
Stddev	4.9555	.0112361	.0006143	.041424	.0024602	.0014203
%RSD	1.175671	286.6049	18.73066	.5228820	4.515528	2.037864
#1	416.8648	.0132923	.0039181	7.902176	.0550000	.0680623
#2	420.9227	.0070047	.0032271	7.969828	.0518060	.0706366
#3	426.7245	-.008536	.0026929	7.894587	.0566444	.0703895

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2473-08 Acquired: 7/10/2025 23:11:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009050	F 23.28251	2.330091	-.000601	-.005436	-.045056
Stddev	.000529	.03088	.003907	.000212	.003320	.010115
%RSD	5.843191	.1326410	.1676693	35.32670	61.08287	22.44948
#1	-.008743	23.25178	2.325640	-.000814	-.001978	-.039328
#2	-.008747	23.28222	2.331683	-.000601	-.005732	-.039104
#3	-.009661	23.31354	2.332951	-.000389	-.008599	-.056734

Elem	Sr4077
Units	ppm
Avg	.9487028
Stddev	.0024352
%RSD	.2566922
#1	.9461059
#2	.9490672
#3	.9509353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3249.213	31141.18	2269.213	1970.599	4247.018
Stddev	9.908	67.65	10.718	2.307	12.025
%RSD	.3049281	.2172509	.4723024	.1170527	.2831364
#1	3251.660	31130.73	2280.930	1969.947	4248.447
#2	3257.668	31079.35	2259.905	1968.688	4258.265
#3	3238.311	31213.45	2266.803	1973.161	4234.342

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168748BL Acquired: 7/10/2025 23:16:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000175	-.002565	-.001441	.0036841	-.000494	-.019369
Stddev	.001647	.001610	.000305	.0044389	.001151	.007002
%RSD	940.5569	62.79210	21.18609	120.4865	233.1714	36.14980
#1	-.000744	-.000760	-.001581	.0084530	-.000749	-.024019
#2	.001681	-.003855	-.001652	-.000327	-.001496	-.022771
#3	-.001462	-.003079	-.001091	.002927	.000763	-.011316

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001703	.0001180	-.000072	.0200212	.0002460	-.000115
Stddev	.001441	.0001057	.000109	.0349425	.0004960	.000284
%RSD	84.58808	89.55697	150.6448	174.5281	201.6335	245.8466
#1	-.002238	.0001972	-.000143	.0443192	.0003412	-.000212
#2	-.002799	-.000002	-.000127	-.020024	-.000291	.000204
#3	-.000071	.000159	.000053	.035768	.000688	-.000339

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	-.001483	.0016962	-.067861	-.000393	.0000908
Stddev	.000618	.002147	.0027887	.064576	.000429	.0012111
%RSD	47469.19	144.7851	164.4036	95.15950	109.4054	1334.292
#1	-.000331	-.002980	.0000576	-.109634	-.000795	-.001188
#2	.000712	.000977	.0049161	-.100464	.000060	.000240
#3	-.000385	-.002445	.0001150	.006517	-.000443	.001220

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0677805	.0018004	-.001475	.0139480	.0001050	-.006560
Stddev	.0105314	.0090208	.000040	.0010583	.0022941	.001264
%RSD	15.53757	501.0609	2.705644	7.587596	2184.570	19.26228
#1	.0746458	.0112135	-.001517	.0135031	-.000765	-.007683
#2	.0730404	-.006769	-.001471	.0151561	.002707	-.005192
#3	.0556552	.000956	-.001437	.0131847	-.001627	-.006804

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168748BL Acquired: 7/10/2025 23:16:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000382	F .0417936	-.003248	.0001272	-.000238	F .0349808
Stddev	.000261	.0010266	.002346	.0011595	.000899	.0107788
%RSD	68.41406	2.456401	72.23421	911.4080	377.8738	30.81352
#1	-.000448	.0415265	-.001618	.0005495	-.000367	.0472098
#2	-.000604	.0409269	-.002189	.0010164	-.001065	.0268610
#3	-.000094	.0429273	-.005937	-.001184	.000718	.0308716

Elem	Sr4077
Units	ppm
Avg	.0000098
Stddev	.0001456
%RSD	1491.920
#1	-.000006
#2	-.000127
#3	.000163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3591.216	35081.00	2305.910	2178.539	5377.146
Stddev	2.139	278.02	23.691	4.959	1.486
%RSD	.0595704	.7925058	1.027395	.2276363	.0276311
#1	3589.694	35362.75	2331.694	2183.495	5378.378
#2	3590.293	35073.38	2285.103	2178.546	5375.496
#3	3593.662	34806.87	2300.933	2173.576	5377.565

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168748BS Acquired: 7/10/2025 23:20:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7228196**	**2.048898**	**.9632245**	**2.019383**	**.8155193**	**1.998114**
Stddev	.0004326	.007637	.0016080	.004105	.0014739	.012891
%RSD	.0598434	.3727128	.1669387	.2032654	.1807333	.6451804
#1	.7225050	2.041419	.9616657	2.015848	.8160244	1.999403
#2	.7233129	2.048593	.9648775	2.018415	.8138592	2.010312
#3	.7226409	2.056683	.9631302	2.023884	.8166743	1.984626

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072470**	**.2175887**	**.1924205**	**1.090707**	**.4143711**	**.1937588**
Stddev	.0033287	.0009288	.0004377	.017781	.0004627	.0000774
%RSD	1.606150	.4268683	.2274639	1.630244	.1116629	.0399485
#1	.2109416	.2179637	.1919151	1.079276	.4148559	.1936881
#2	.2044817	.2165311	.1926717	1.081653	.4143231	.1937467
#3	.2063177	.2182715	.1926747	1.111194	.4139342	.1938415

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3322445**	**3.477471**	**.2121985**	**2.106087**	**.4910415**	**.0745188**
Stddev	.0017043	.013264	.0029639	.064856	.0006355	.0012085
%RSD	.5129577	.3814162	1.396774	3.079462	.1294248	1.621735
#1	.3317439	3.476975	.2140609	2.037390	.4903077	.0759002
#2	.3308466	3.464463	.2137541	2.166260	.4914173	.0739995
#3	.3341430	3.490976	.2087807	2.114610	.4913995	.0736568

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.208269**	**.3104666**	**.2101344**	**9.885702**	**5.594213**	**.3102399**
Stddev	.013148	.0027874	.0013414	.106182	.008222	.0018939
%RSD	.4098190	.8978229	.6383300	1.074096	.1469752	.6104660
#1	3.193110	.3076274	.2103860	9.981583	5.585625	.3104341
#2	3.215130	.3105731	.2086851	9.903939	5.595001	.3082564
#3	3.216568	.3131992	.2113322	9.771582	5.602013	.3120292

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168748BS Acquired: 7/10/2025 23:20:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4083001	F .0270473	.9852024	.6939282	.2038752	.2033358
Stddev	.0009491	.0025830	.0057801	.0006991	.0041012	.0076771
%RSD	.2324518	9.549941	.5866890	.1007415	2.011645	3.775595
#1	.4073496	.0261465	.9837521	.6945181	.2070258	.1949363
#2	.4092478	.0299600	.9802855	.6931561	.1992380	.2050808
#3	.4083031	.0250353	.9915695	.6941105	.2053620	.2099902

Elem	Sr4077
Units	ppm
Avg	.2081102
Stddev	.0003442
%RSD	.1653800
#1	.2085047
#2	.2079542
#3	.2078716

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.783	35164.01	2365.959	2188.741	5225.996
Stddev	6.615	202.91	6.555	5.757	8.174
%RSD	.1832970	.5770325	.2770515	.2630217	.1564023
#1	3610.749	35083.89	2358.670	2185.528	5227.836
#2	3614.192	35013.40	2367.836	2185.308	5233.093
#3	3601.408	35394.75	2371.370	2195.387	5217.059

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV04 Acquired: 7/10/2025 23:29:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.603148**	**4.733792**	**4.687170**	**4.703273**	**4.644288**	**9.349575**	**9.566940**
Stddev	.008423	.010311	.003165	.007457	.012865	.057504	.054056
%RSD	.1829799	.2178233	.0675247	.1585545	.2770105	.6150422	.5650242
#1	4.609699	4.741293	4.686211	4.703807	4.642831	9.414908	9.542334
#2	4.593647	4.722033	4.684596	4.695563	4.632214	9.327170	9.529565
#3	4.606097	4.738048	4.690704	4.710449	4.657820	9.306645	9.628921

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2460968**	**2.349121**	**23.89650**	**.9572661**	**2.294446**	**1.216137**	**4.894744**
Stddev	.0030433	.004427	.05808	.0005391	.004947	.015503	.060765
%RSD	1.236616	.1884702	.2430446	.0563118	.2155999	1.274808	1.241441
#1	.2439599	2.350693	23.94870	.9578062	2.295941	1.207135	4.859898
#2	.2447492	2.344122	23.90685	.9572639	2.288925	1.207237	4.859424
#3	.2495812	2.352548	23.83394	.9567281	2.298474	1.234039	4.964909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.397152**	**23.86268**	**2.307724**	**1.196872**	**25.55522**	**2.412229**	**2.342767**
Stddev	.014561	.15742	.004470	.003937	.21003	.018973	.016056
%RSD	.6074339	.6596882	.1936953	.3289655	.8218829	.7865544	.6853422
#1	2.399554	23.84063	2.310798	1.201408	25.40676	2.411223	2.357869
#2	2.381539	23.71745	2.302596	1.194336	25.46337	2.393779	2.325902
#3	2.410363	24.02997	2.309779	1.194872	25.79553	2.431686	2.344529

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.87553**	**4.714221**	**4.914800**	**4.684137**	**4.603224**	**4.910022**	**4.713470**
Stddev	.16887	.011452	.058880	.011949	.002791	.059081	.011904
%RSD	.6526201	.2429220	1.198015	.2550996	.0606336	1.203270	.2525535
#1	26.04148	4.710667	4.882591	4.686836	4.600687	4.873184	4.719441
#2	25.88121	4.704967	4.879052	4.671069	4.602771	4.878713	4.699762
#3	25.70389	4.727028	4.982758	4.694506	4.606214	4.978168	4.721207

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV04 Acquired: 7/10/2025 23:29:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.776780**	**4.762741**	**4.804461**
Stddev	.015686	.013932	.024837
%RSD	.3283780	.2925120	.5169480
#1	4.773280	4.766051	4.801126
#2	4.763139	4.747452	4.781460
#3	4.793920	4.774719	4.830796

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3535.463**	**34152.88**	**2325.366**	**2138.351**	**4761.824**
Stddev	14.470	338.62	14.656	22.201	17.522
%RSD	.4092916	.9914815	.6302581	1.038215	.3679687
#1	3534.420	33817.50	2323.576	2112.730	4762.794
#2	3550.426	34146.51	2340.835	2150.439	4778.841
#3	3521.542	34494.65	2311.688	2151.885	4743.837

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB04 Acquired: 7/10/2025 23:53:24 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009758**	**-.003273**	**-.000384**	**.0034175**	**-.000963**	**-.025265**	**-.000429**
Stddev	.0010913	.000881	.001813	.0030197	.001432	.025105	.000877
%RSD	111.8359	26.90533	471.5309	88.36117	148.8049	99.36919	204.4244
#1	.0022355	-.003911	.001665	.0020985	-.002166	-.053469	.000527
#2	.0003160	-.003640	-.001778	.0012817	-.001344	-.016965	-.001195
#3	.0003760	-.002268	-.001040	.0068723	.000622	-.005360	-.000619

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001609**	**-.000147**	**.0156786**	**-.000808**	**-.000144**	**-.000754**	**-.004703**
Stddev	.0000942	.000043	.0156604	.000561	.000232	.000433	.001030
%RSD	58.52786	29.57780	99.88338	69.34690	161.4508	57.33495	21.90142
#1	.0000537	-.000197	.0098329	-.000285	-.000390	-.000258	-.005425
#2	.0002301	-.000123	.0037820	-.000741	-.000110	-.000954	-.003524
#3	.0001989	-.000120	.0334210	-.001400	.000070	-.001051	-.005161

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000105**	**-.056177**	**-.000593**	**-.000362**	**-.005794**	**-.004920**	**-.001690**
Stddev	.001465	.037899	.000506	.001457	.005235	.006285	.000147
%RSD	1393.703	67.46487	85.30334	402.5615	90.34618	127.7270	8.669449
#1	.001115	-.099549	-.000085	-.001739	-.002203	-.011518	-.001558
#2	.000299	-.029443	-.000598	-.000511	-.003379	.000995	-.001664
#3	-.001730	-.039538	-.001097	.001164	-.011801	-.004238	-.001848

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047106**	**.0008925**	**-.005731**	**-.000432**	**.0191388**	**-.005860**	**-.000263**
Stddev	.0006830	.0014731	.000901	.000238	.0028877	.001954	.000031
%RSD	14.49886	165.0628	15.71612	55.18775	15.08820	33.33836	11.63801
#1	.0048808	-.000644	-.004749	-.000457	.0161692	-.007341	-.000275
#2	.0052924	.001030	-.005928	-.000182	.0219369	-.003646	-.000285
#3	.0039586	.002292	-.006518	-.000657	.0193102	-.006592	-.000228

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB04 Acquired: 7/10/2025 23:53:24 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0083971	-.015927	-.000067
Stddev	.0063063	.010895	.000055
%RSD	75.10083	68.40677	82.08169
#1	.0090530	-.021134	-.000102
#2	.0017885	-.023243	-.000004
#3	.0143498	-.003405	-.000096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3650.676	35922.78	2367.642	2242.083	5471.450
Stddev	7.422	291.65	2.287	17.783	14.106
%RSD	.2033010	.8118700	.0965919	.7931687	.2578128
#1	3653.412	35697.32	2369.464	2224.970	5469.166
#2	3656.341	35818.86	2365.076	2240.809	5486.558
#3	3642.274	36252.15	2368.388	2260.469	5458.625

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DLX5 Acquired: 7/10/2025 23:57:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026356**	**-.003951**	**.0011543**	**.0010962**	**-.000350**	**4.244139**
Stddev	.0043689	.000826	.0015701	.0050443	.002769	.052500
%RSD	165.7668	20.90671	136.0187	460.1542	790.5689	1.237007
#1	-.002275	-.003007	-.000228	.0037899	-.000450	4.247974
#2	.006092	-.004302	.002861	.0042217	-.003068	4.189826
#3	.004090	-.004544	.000830	-.004723	.002467	4.294617

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001879**	**.0000335**	**-.000064**	**2.455805**	**.0533617**	**.0013725**
Stddev	.000969	.0001171	.000073	.014460	.0004682	.0004266
%RSD	51.58504	349.3464	113.9495	.5888110	.8774678	31.08230
#1	-.002995	.0000978	.000008	2.449871	.0538652	.0016062
#2	-.001245	-.000102	-.000139	2.472288	.0532805	.0016312
#3	-.001398	.000104	-.000062	2.445257	.0529394	.0008801

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033622**	**.0673416**	**.0013592**	**.4509010**	**.0143115**	**.0000012**
Stddev	.0005772	.0011574	.0014315	.0447570	.0004543	.0019044
%RSD	17.16626	1.718666	105.3187	9.926134	3.174278	161023.6
#1	.0039092	.0661247	.0020448	.4108609	.0147786	.0015998
#2	.0027590	.0674717	.0023191	.4992192	.0142848	-.002106
#3	.0034185	.0684284	-.000286	.4426229	.0138712	.000510

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**426.9704**	**-.008373**	**.1175070**	**49.05277**	**1.308725**	**1.243223**
Stddev	4.1370	.009748	.0004599	.11768	.004112	.008737
%RSD	.9689125	116.4203	.3913862	.2399148	.3141956	.7027988
#1	431.7428	.000527	.1178642	49.06915	1.312239	1.252968
#2	424.7664	-.006856	.1176688	48.92775	1.304202	1.236088
#3	424.4021	-.018790	.1169881	49.16141	1.309733	1.240613

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DLX5 Acquired: 7/10/2025 23:57:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033687	F 235.2633	.2090449	-.003981	.0059975	.0053403
Stddev	.0002778	.6152	.0032631	.000616	.0010601	.0094290
%RSD	8.246980	.2614945	1.560976	15.47651	17.67586	176.5634
#1	.0034969	235.5591	.2122806	-.004246	.0072181	-.004620
#2	.0035592	234.5561	.2090993	-.004421	.0053065	.006512
#3	.0030499	235.6748	.2057549	-.003277	.0054680	.014129

Elem	Sr4077
Units	ppm
Avg	.0101915
Stddev	.0001112
%RSD	1.090731
#1	.0103185
#2	.0101115
#3	.0101446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3371.008	31969.46	2303.058	2046.959	4416.163
Stddev	5.143	105.00	16.203	4.867	6.112
%RSD	.1525720	.3284338	.7035550	.2377472	.1383912
#1	3370.622	32009.60	2285.179	2041.343	4420.785
#2	3376.334	32048.47	2316.773	2049.615	4418.472
#3	3366.069	31850.32	2307.221	2049.920	4409.234

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DUPDLX5 Acquired: 7/11/2025 0:02:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003886**	**-.003439**	**-.000319**	**-.002857**	**.0009640**	**4.213325**
Stddev	.0033989	.000768	.003472	.004766	.0017372	.007061
%RSD	874.5379	22.31979	1089.200	166.8286	180.2081	.1675857
#1	.0011966	-.003957	.002632	-.004009	-.001019	4.205362
#2	-.003341	-.003803	-.004145	.002380	.002218	4.218824
#3	.003311	-.002557	.000557	-.006942	.001693	4.215789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000416**	**.0000330**	**-.000065**	**2.479691**	**.0516525**	**.0013877**
Stddev	.001084	.0000179	.000119	.009383	.0007246	.0003396
%RSD	260.8612	54.30489	183.6326	.3784023	1.402777	24.47394
#1	.000130	.0000515	-.000160	2.471037	.0511723	.0011088
#2	.000288	.0000158	-.000104	2.478371	.0524859	.0017659
#3	-.001664	.0000316	.000069	2.489664	.0512992	.0012883

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032235**	**.0666214**	**.0023740**	**.4944471**	**.0131847**	**-.000567**
Stddev	.0003973	.0018478	.0021996	.0845689	.0002540	.002071
%RSD	12.32412	2.773636	92.65344	17.10373	1.926067	365.2037
#1	.0032722	.0686221	-.000080	.4002941	.0129639	-.002189
#2	.0028042	.0649789	.003036	.5639580	.0134622	-.001279
#3	.0035943	.0662633	.004167	.5190892	.0131279	.001766

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**429.2156**	**.0044019**	**.1174796**	**49.07857**	**1.302652**	**1.244725**
Stddev	1.7593	.0064002	.0005695	.25032	.002357	.000744
%RSD	.4098937	145.3956	.4847589	.5100472	.1809023	.0597795
#1	428.4239	.0104978	.1174466	49.03142	1.303576	1.244176
#2	431.2317	.0049724	.1169273	49.34911	1.299974	1.244427
#3	427.9913	-.002264	.1180649	48.85517	1.304407	1.245572

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01DUPDLX5 Acquired: 7/11/2025 0:02:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034979	F 234.1850	.2076285	-.003501	.0040128	.0205062
Stddev	.0004161	.9093	.0009339	.001190	.0016196	.0055676
%RSD	11.89664	.3882630	.4497732	33.98499	40.36028	27.15074
#1	.0034448	235.1838	.2086988	-.004829	.0040867	.0141267
#2	.0031109	233.4054	.2069793	-.003140	.0023575	.0243851
#3	.0039381	233.9658	.2072075	-.002533	.0055941	.0230067

Elem	Sr4077
Units	ppm
Avg	.0101081
Stddev	.0001188
%RSD	1.175078
#1	.0100641
#2	.0100176
#3	.0102426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3372.857	32029.75	2306.196	2040.258	4420.000
Stddev	9.414	194.11	3.654	11.815	8.729
%RSD	.2791111	.6060173	.1584346	.5791017	.1974822
#1	3383.692	31996.13	2305.767	2031.686	4428.450
#2	3368.201	32238.47	2310.046	2053.735	4411.017
#3	3366.679	31854.65	2302.776	2035.351	4420.534

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01LDLX25 Acquired: 7/11/2025 0:07:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013433**	**-.002189**	**-.001618**	**.0019282**	**-.001247**	**.8645289**
Stddev	.0012347	.000576	.002258	.0023660	.002459	.0211517
%RSD	91.91795	26.31327	139.5331	122.7077	197.2586	2.446618
#1	.0005710	-.002601	-.003833	.0046601	.000446	.8403331
#2	.0027673	-.001531	.000681	.0005856	-.004067	.8737433
#3	.0006916	-.002436	-.001703	.0005388	-.000118	.8795105

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001343**	**.0001299**	**-.000088**	**.5183228**	**.0111123**	**.0003648**
Stddev	.001976	.0001306	.000080	.0052834	.0012178	.0003025
%RSD	147.0995	100.5504	91.10110	1.019331	10.95948	82.91974
#1	-.003577	-.000012	-.000140	.5144700	.0121868	.0000157
#2	-.000628	.000156	.000004	.5243457	.0113607	.0005303
#3	.000176	.000246	-.000129	.5161527	.0097894	.0005484

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000534**	**.0132628**	**.0005106**	**.0876386**	**.0032196**	**-.001145**
Stddev	.000724	.0023669	.0001865	.1324763	.0006928	.001218
%RSD	135.6456	17.84592	36.52134	151.1619	21.51684	106.3170
#1	.000281	.0158071	.0003545	.0758568	.0039760	.000053
#2	-.001103	.0128550	.0007171	.2256124	.0026159	-.001107
#3	-.000779	.0111264	.0004603	-.038553	.0030671	-.002382

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**102.0326**	**.0033643**	**.0235559**	**9.809974**	**.2535450**	**.2749159**
Stddev	1.7314	.0011324	.0006522	.107569	.0029501	.0020162
%RSD	1.696880	33.65836	2.768868	1.096524	1.163556	.7333999
#1	103.9613	.0022345	.0239299	9.770238	.2569511	.2771982
#2	101.5239	.0033593	.0239350	9.931758	.2518892	.2741728
#3	100.6125	.0044992	.0228028	9.727927	.2517948	.2733767

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01LDLX25 Acquired: 7/11/2025 0:07:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007254	F 45.92309	.0454727	-.007528	.0021748	-.009320
Stddev	.0002148	.32097	.0021376	.000643	.0042620	.005837
%RSD	29.60696	.6989393	4.700834	8.546537	195.9741	62.63458
#1	.0009005	46.13395	.0474883	-.006808	.0055828	-.015765
#2	.0007899	46.08163	.0432311	-.007732	-.002604	-.004390
#3	.0004857	45.55370	.0456989	-.008045	.003545	-.007804

Elem	Sr4077
Units	ppm
Avg	.0019170
Stddev	.0000787
%RSD	4.107701
#1	.0018787
#2	.0020076
#3	.0018647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3475.566	33890.83	2286.719	2134.430	4837.267
Stddev	18.165	31.37	15.299	10.690	24.121
%RSD	.5226347	.0925678	.6690394	.5008382	.4986454
#1	3485.162	33900.07	2270.452	2141.858	4849.725
#2	3454.616	33855.88	2288.888	2122.178	4809.465
#3	3486.920	33916.55	2300.818	2139.254	4852.613

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSDLX5 Acquired: 7/11/2025 0:11:48 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1629337**	**.3802020**	**.1943189**	**.3849762**	**.1570618**	**4.715251**
Stddev	.0014509	.0021307	.0006041	.0057574	.0027482	.003649
%RSD	.8904638	.5604074	.3109036	1.495522	1.749738	.0773954
#1	.1644170	.3798851	.1948074	.3903067	.1595054	4.719466
#2	.1628664	.3824734	.1936434	.3788705	.1540867	4.713144
#3	.1615176	.3782475	.1945060	.3857515	.1575931	4.713145

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0378860**	**.0402916**	**.0410608**	**2.720901**	**.1326421**	**.0411523**
Stddev	.0003473	.0002989	.0001296	.038024	.0002760	.0004372
%RSD	.9166073	.7418905	.3156863	1.397485	.2081052	1.062407
#1	.0382740	.0404997	.0411639	2.764635	.1324926	.0414682
#2	.0377799	.0404260	.0411033	2.702402	.1329606	.0413354
#3	.0376042	.0399491	.0409153	2.695666	.1324731	.0406533

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0610253**	**.6937651**	**.0467057**	**.8632032**	**.1145636**	**.0136528**
Stddev	.0002467	.0042628	.0013762	.1317984	.0010231	.0007050
%RSD	.4041967	.6144407	2.946558	15.26852	.8930413	5.163479
#1	.0608301	.6986816	.0482313	.9473438	.1138430	.0144366
#2	.0613025	.6915130	.0463278	.7113100	.1157347	.0130707
#3	.0609434	.6911008	.0455579	.9309559	.1141133	.0134510

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**443.0127**	**.0648939**	**.1602846**	**51.67262**	**2.579704**	**1.326469**
Stddev	6.8442	.0081802	.0006684	.84467	.002730	.006274
%RSD	1.544929	12.60549	.4169967	1.634659	.1058221	.4730122
#1	449.3163	.0742961	.1602695	52.44746	2.581863	1.329986
#2	443.9892	.0609765	.1596238	51.79820	2.580613	1.330197
#3	435.7327	.0594091	.1609604	50.77218	2.576635	1.319225

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSDLX5 Acquired: 7/11/2025 0:11:48 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0831288	F 237.9526	.3863841	.1395709	.0436892	.0477268
Stddev	.0005435	.2228	.0031916	.0012246	.0017767	.0045812
%RSD	.6537588	.0936369	.8260268	.8774163	4.066561	9.598708
#1	.0837308	238.1926	.3890886	.1385372	.0421342	.0479697
#2	.0829810	237.9127	.3828637	.1409234	.0456256	.0430291
#3	.0826745	237.7524	.3872000	.1392520	.0433078	.0521817

Elem	Sr4077
Units	ppm
Avg	.0492014
Stddev	.0003320
%RSD	.6747130
#1	.0495479
#2	.0488862
#3	.0491701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.020	31783.24	2280.373	2043.009	4358.903
Stddev	7.072	137.80	8.441	6.556	12.861
%RSD	.2122552	.4335585	.3701647	.3208796	.2950566
#1	3335.297	31793.02	2272.388	2037.430	4362.253
#2	3323.903	31915.89	2279.524	2050.229	4344.699
#3	3336.858	31640.81	2289.206	2041.368	4369.758

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSDDLX5 Acquired: 7/11/2025 0:16:24 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1536258**	**.3708537**	**.1892423**	**.3762020**	**.1537861**	**4.657177**
Stddev	.0041334	.0035359	.0011400	.0054715	.0011083	.045377
%RSD	2.690577	.9534625	.6023766	1.454393	.7206517	.9743489
#1	.1583811	.3733144	.1897251	.3818352	.1550652	4.706847
#2	.1508933	.3724449	.1879404	.3758626	.1531827	4.617895
#3	.1516031	.3668017	.1900615	.3709081	.1531105	4.646789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0373821**	**.0397691**	**.0399702**	**2.710535**	**.1306857**	**.0402920**
Stddev	.0016775	.0007968	.0001905	.035687	.0013206	.0002065
%RSD	4.487527	2.003485	.4766131	1.316614	1.010503	.5125635
#1	.0376624	.0403696	.0401894	2.713210	.1320423	.0404826
#2	.0389018	.0400726	.0398769	2.744810	.1306107	.0403208
#3	.0355820	.0388652	.0398443	2.673586	.1294043	.0400726

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0612952**	**.6850276**	**.0474938**	**.8610423**	**.1115617**	**.0134632**
Stddev	.0011644	.0119328	.0031770	.0881419	.0014030	.0002192
%RSD	1.899631	1.741949	6.689318	10.23665	1.257637	1.627905
#1	.0626388	.6935713	.0456044	.9102875	.1131104	.0135398
#2	.0606673	.6901178	.0457152	.9135571	.1111990	.0132160
#3	.0605796	.6713938	.0511617	.7592824	.1103755	.0136338

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**433.8057**	**.0615344**	**.1590095**	**52.40340**	**2.527676**	**1.319542**
Stddev	9.2779	.0129121	.0008279	2.54993	.004559	.024414
%RSD	2.138714	20.98354	.5206452	4.865953	.1803771	1.850208
#1	441.2085	.0523962	.1596140	54.82540	2.531872	1.343452
#2	436.8109	.0559010	.1580659	52.64242	2.528331	1.320520
#3	423.3978	.0763060	.1593486	49.74238	2.522825	1.294653

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01MSDDLX5 Acquired: 7/11/2025 0:16:24 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0814342	F 232.6070	.3845298	.1370858	.0425337	.0464043
Stddev	.0010862	1.1814	.0076538	.0025985	.0048451	.0054050
%RSD	1.333864	.5078980	1.990422	1.895518	11.39118	11.64757
#1	.0822937	233.7243	.3927013	.1379593	.0463215	.0493291
#2	.0817956	232.7261	.3833596	.1391350	.0442055	.0401672
#3	.0802134	231.3705	.3775286	.1341631	.0370741	.0497166

Elem	Sr4077
Units	ppm
Avg	.0493581
Stddev	.0002545
%RSD	.5157063
#1	.0495940
#2	.0493919
#3	.0490883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3395.930	32365.54	2310.588	2083.927	4447.160
Stddev	3.294	66.44	35.731	8.423	8.908
%RSD	.0969889	.2052751	1.546396	.4041752	.2003090
#1	3392.918	32440.89	2285.946	2090.841	4440.125
#2	3399.447	32315.39	2294.251	2086.393	4457.176
#3	3395.425	32340.33	2351.567	2074.546	4444.179

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01ADLX5 Acquired: 7/11/2025 0:20:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1628263	.3815115	.1953398	.3950901	.1600205	4.764455
Stddev	.0032104	.0019632	.0026626	.0044923	.0034342	.021714
%RSD	1.971656	.5145887	1.363046	1.137029	2.146120	.4557532
#1	.1641692	.3792483	.1983608	.3972894	.1622918	4.788992
#2	.1651471	.3827558	.1943241	.3980590	.1560697	4.747720
#3	.1591625	.3825304	.1933347	.3899219	.1616999	4.756653

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382502	.0404887	.0414398	2.748810	.1328731	.0414274
Stddev	.0005842	.0001175	.0001744	.033920	.0010270	.0001164
%RSD	1.527255	.2900759	.4208257	1.233981	.7729133	.2808952
#1	.0389195	.0405945	.0415474	2.727500	.1323530	.0414249
#2	.0379878	.0405094	.0412386	2.787925	.1340561	.0413124
#3	.0378432	.0403623	.0415334	2.731006	.1322102	.0415451

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624019	.7496181	.1070148	.8461678	.1156243	.0127872
Stddev	.0014053	.0037340	.0011305	.0338852	.0002367	.0008084
%RSD	2.252020	.4981136	1.056445	4.004545	.2047045	6.321644
#1	.0607883	.7487626	.1077424	.8223031	.1158003	.0137206
#2	.0633577	.7537055	.1075897	.8849527	.1157174	.0123167
#3	.0630596	.7463861	.1057124	.8312476	.1153553	.0123243

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	447.9382	.0663349	.1618859	53.00671	2.624623	1.350804
Stddev	3.9330	.0036760	.0020910	.78877	.004883	.000683
%RSD	.8780126	5.541522	1.291662	1.488064	.1860542	.0505560
#1	452.4166	.0687965	.1636715	53.91715	2.628931	1.350015
#2	445.0465	.0621094	.1595855	52.57358	2.619319	1.351205
#3	446.3513	.0680988	.1624006	52.52941	2.625620	1.351191

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2512-01ADLX5 Acquired: 7/11/2025 0:20:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0840576	F 243.1011	.3909014	.1418395	.0426078	.0464950
Stddev	.0000412	.6160	.0024343	.0020776	.0012517	.0065428
%RSD	.0490120	.2533840	.6227490	1.464770	2.937686	14.07195
#1	.0840119	243.8106	.3880995	.1411780	.0413089	.0523632
#2	.0840689	242.7893	.3924979	.1441673	.0427082	.0394402
#3	.0840920	242.7033	.3921067	.1401731	.0438062	.0476817

Elem	Sr4077
Units	ppm
Avg	.0500770
Stddev	.0001250
%RSD	.2496522
#1	.0501885
#2	.0501007
#3	.0499419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.184	31778.19	2288.744	2043.375	4347.899
Stddev	15.427	68.62	2.534	19.214	19.539
%RSD	.4636638	.2159432	.1107227	.9403253	.4493902
#1	3344.997	31736.95	2290.042	2025.219	4369.472
#2	3318.403	31857.41	2285.824	2063.497	4342.830
#3	3318.153	31740.22	2290.367	2041.408	4331.393

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168712BL Acquired: 7/11/2025 0:25:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012122	-.001656	.0007869	-.001787	-.000220	-.049604
Stddev	.0037449	.000606	.0015680	.001391	.002524	.039905
%RSD	308.9404	36.58666	199.2745	77.83173	1146.253	80.44718
#1	-.002711	-.002206	-.000330	-.002491	.002597	-.004559
#2	.001599	-.001006	.000111	-.000185	-.000985	-.063721
#3	.004749	-.001756	.002579	-.002685	-.002273	-.080531

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001939	.0002185	-.000075	.0063606	-.000365	-.000055
Stddev	.000474	.0000440	.000077	.0195330	.000307	.000060
%RSD	24.43460	20.13563	103.3312	307.0960	84.05899	108.9684
#1	-.001821	.0002408	-.000160	-.002810	-.000043	-.000080
#2	-.001535	.0001678	-.000053	-.006900	-.000653	-.000099
#3	-.002460	.0002469	-.000010	.028791	-.000399	.000013

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000488	-.003078	.0009260	-.044587	.0000443	.0002671
Stddev	.000160	.001930	.0022199	.020158	.0010464	.0014403
%RSD	32.83304	62.70543	239.7375	45.21133	2363.918	539.2963
#1	-.000479	-.001374	.0017101	-.066121	.0001376	-.001248
#2	-.000332	-.005173	.0026474	-.041472	.0010409	.000431
#3	-.000652	-.002686	-.001580	-.026167	-.001046	.001618

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0461557	.0024836	-.001267	.0126985	.0012205	.0011292
Stddev	.0034255	.0019569	.000683	.0014023	.0017002	.0015711
%RSD	7.421722	78.79374	53.93602	11.04302	139.3085	139.1296
#1	.0424852	.0031138	-.000564	.0142090	.0025447	-.000162
#2	.0492677	.0002893	-.001308	.0124484	.0018135	.000671
#3	.0467141	.0040479	-.001929	.0114380	-.000697	.002878

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168712BL Acquired: 7/11/2025 0:25:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002648	F .0230871	-.004804	-.000312	.0020836	F -.023900
Stddev	.0003378	.0034084	.002808	.000725	.0035235	.011182
%RSD	127.5696	14.76325	58.44317	232.2960	169.1014	46.78615
#1	.0003508	.0267642	-.004630	.000284	-.001915	-.016144
#2	-.000108	.0200335	-.002087	-.001120	.003432	-.018839
#3	.000551	.0224636	-.007694	-.000101	.004734	-.036718

Elem	Sr4077
Units	ppm
Avg	-.000125
Stddev	.000273
%RSD	218.5870
#1	.000037
#2	-.000440
#3	.000028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3649.798	34980.17	2275.172	2185.385	5459.541
Stddev	42.521	75.74	8.793	7.734	66.939
%RSD	1.165025	.2165177	.3864971	.3538980	1.226092
#1	3609.477	35067.59	2280.182	2192.743	5397.479
#2	3645.694	34934.53	2265.018	2186.089	5450.671
#3	3694.222	34938.37	2280.315	2177.323	5530.472

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168712BS Acquired: 7/11/2025 0:30:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7070469**	**1.983675**	**.9351547**	**1.951521**	**.7918988**	**1.954542**
Stddev	.0023780	.001502	.0028057	.004575	.0036180	.009347
%RSD	.3363231	.0757009	.3000239	.2344421	.4568830	.4782183
#1	.7073287	1.985052	.9375060	1.947932	.7903486	1.965150
#2	.7045406	1.982074	.9320489	1.949957	.7893141	1.947513
#3	.7092714	1.983898	.9359092	1.956673	.7960336	1.950964

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2002269**	**.2135759**	**.1868905**	**.9992439**	**.4022819**	**.1889164**
Stddev	.0009091	.0008243	.0002750	.0156468	.0003115	.0003599
%RSD	.4540272	.3859617	.1471464	1.565865	.0774257	.1904974
#1	.2012760	.2131353	.1871585	1.017258	.4021014	.1885048
#2	.1996724	.2145269	.1866090	.989036	.4026415	.1890725
#3	.1997322	.2130654	.1869041	.991437	.4021027	.1891718

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3268530**	**3.409433**	**.2068503**	**1.990770**	**.4771283**	**.0704077**
Stddev	.0015853	.015105	.0013855	.030567	.0004848	.0010470
%RSD	.4850156	.4430320	.6698103	1.535433	.1016058	1.487005
#1	.3270540	3.402725	.2054385	1.956505	.4770102	.0711538
#2	.3283282	3.426730	.2082079	2.015234	.4776612	.0708585
#3	.3251768	3.398844	.2069044	2.000572	.4767134	.0692109

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.203502**	**.3037138**	**.2014618**	**9.850120**	**5.434594**	**.3078517**
Stddev	.034977	.0053710	.0003847	.061220	.009598	.0013131
%RSD	1.091850	1.768452	.1909353	.6215184	.1766098	.4265357
#1	3.205942	.2994512	.2018202	9.920736	5.442298	.3092203
#2	3.237195	.3019438	.2010554	9.817635	5.423842	.3077326
#3	3.167368	.3097465	.2015098	9.811989	5.437642	.3066022

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168712BS Acquired: 7/11/2025 0:30:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3927140	F .0141300	.9697848	.6701876	.1970233	.1867473
Stddev	.0002269	.0006036	.0048918	.0008713	.0065480	.0056329
%RSD	.0577737	4.271495	.5044206	.1300063	3.323471	3.016310
#1	.3928429	.0146187	.9700251	.6708886	.1902372	.1914498
#2	.3928472	.0143158	.9745520	.6692121	.2033039	.1805045
#3	.3924521	.0134553	.9647773	.6704620	.1975289	.1882874

Elem	Sr4077
Units	ppm
Avg	.2018674
Stddev	.0011157
%RSD	.5526730
#1	.2021578
#2	.2028091
#3	.2006352

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3639.628	35493.86	2354.922	2222.443	5259.201
Stddev	3.590	97.12	7.797	14.072	11.764
%RSD	.0986240	.2736251	.3310888	.6331634	.2236837
#1	3643.473	35398.84	2348.206	2218.288	5268.123
#2	3636.364	35592.95	2353.088	2238.124	5245.869
#3	3639.049	35489.78	2363.473	2210.916	5263.611

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168740BL Acquired: 7/11/2025 0:34:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026007**	**-.003008**	**-.000839**	**.0007190**	**.0001058**	**-.019315**	**-.001035**
Stddev	.0016080	.001575	.001827	.0032202	.0020603	.021551	.001817
%RSD	61.82729	52.35508	217.6495	447.8792	1947.205	111.5762	175.6431
#1	.0008235	-.002581	-.002844	-.000962	-.001315	-.044198	-.001557
#2	.0030238	-.001691	-.000405	-.001313	-.000836	-.006534	-.002533
#3	.0039549	-.004752	.000731	.004432	.002469	-.007214	.000987

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000538**	**-.000075**	**.0075410**	**-.000487**	**-.000116**	**-.000878**	**-.007050**
Stddev	.0001446	.000080	.0193689	.000711	.000235	.001087	.001702
%RSD	268.7871	106.1716	256.8474	145.8149	202.7602	123.8317	24.14792
#1	-.000111	-.000162	.0235306	-.001219	-.000367	-.001080	-.005151
#2	.000114	-.000006	-.013996	-.000443	.000101	-.001849	-.007559
#3	.000159	-.000058	.013089	.000200	-.000082	.000296	-.008439

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010065**	**-.011028**	**-.000015**	**-.000233**	**-.000957**	**.0025202**	**-.001584**
Stddev	.0016360	.030407	.000559	.001118	.014548	.0052331	.000333
%RSD	162.5441	275.7260	3843.905	480.3931	1520.574	207.6432	21.00828
#1	.0027534	.005293	-.000084	.000922	-.017358	-.001592	-.001201
#2	.0007558	.007733	-.000535	-.001311	.010390	.000742	-.001741
#3	-.000490	-.046111	.000576	-.000309	.004098	.008411	-.001808

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098477**	**-.000973**	**-.005020**	**-.000236**	**.0104289**	**-.005548**	**-.000606**
Stddev	.0017885	.001376	.003029	.000475	.0018161	.000469	.000974
%RSD	18.16156	141.5090	60.34541	200.8292	17.41398	8.452137	160.8348
#1	.0092349	.000222	-.003880	-.000784	.0088783	-.005098	-.001312
#2	.0118621	-.002478	-.002726	.000017	.0099815	-.006034	-.001010
#3	.0084462	-.000662	-.008453	.000058	.0124268	-.005510	.000506

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168740BL Acquired: 7/11/2025 0:34:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0035115	F -.037432	.0000367
Stddev	.0006651	.003824	.0001323
%RSD	18.94031	10.21645	360.9227
#1	.0039567	-.036256	.0000901
#2	.0027470	-.034333	.0001339
#3	.0038308	-.041706	-.000114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3627.577	35347.38	2350.559	2205.565	5423.536
Stddev	9.514	347.94	13.687	18.970	13.298
%RSD	.2622798	.9843481	.5822691	.8600877	.2451880
#1	3616.779	35280.00	2337.197	2201.687	5410.566
#2	3631.222	35724.08	2364.548	2226.174	5422.902
#3	3634.730	35038.05	2349.930	2188.834	5437.139

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168740BS Acquired: 7/11/2025 0:38:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7115611**	**1.997710**	**.9416052**	**1.969460**	**.8007842**	**1.978252**
Stddev	.0026119	.002647	.0013562	.016083	.0023339	.004941
%RSD	.3670645	.1324976	.1440354	.8166043	.2914561	.2497588
#1	.7137918	2.000268	.9431689	1.974243	.7980892	1.982954
#2	.7086879	1.994982	.9407501	1.951529	.8021268	1.978701
#3	.7122036	1.997879	.9408964	1.982609	.8021366	1.973103

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1997910**	**.2134827**	**.1881960**	**1.022902**	**.4055946**	**.1906292**
Stddev	.0007945	.0009944	.0002098	.013577	.0007291	.0004923
%RSD	.3976812	.4658156	.1114711	1.327323	.1797642	.2582406
#1	.2005694	.2137450	.1879592	1.013774	.4058823	.1900762
#2	.1998223	.2143198	.1883585	1.038505	.4047655	.1907914
#3	.1989813	.2123835	.1882705	1.016428	.4061359	.1910198

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3260735**	**3.405213**	**.2074489**	**2.025140**	**.4808008**	**.0711346**
Stddev	.0014578	.022466	.0021079	.020821	.0007448	.0012170
%RSD	.4470667	.6597525	1.016086	1.028107	.1549023	1.710821
#1	.3255669	3.414857	.2056092	2.004842	.4806362	.0724314
#2	.3277170	3.421246	.2097489	2.024132	.4801520	.0700174
#3	.3249366	3.379535	.2069887	2.046446	.4816141	.0709549

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.148254**	**.2962877**	**.2051152**	**9.546350**	**5.467693**	**.3060299**
Stddev	.028111	.0053394	.0015757	.071011	.009069	.0050434
%RSD	.8928941	1.802095	.7682127	.7438514	.1658735	1.648026
#1	3.150726	.2994013	.2033409	9.578980	5.457310	.3057641
#2	3.175048	.2993394	.2056534	9.595181	5.474065	.3112010
#3	3.118990	.2901224	.2063513	9.464889	5.471704	.3011246

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168740BS Acquired: 7/11/2025 0:38:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3974413	F .0089503	.9748022	.6780065	.1940834	.1836644
Stddev	.0007885	.0014428	.0054797	.0002574	.0066378	.0048265
%RSD	.1984035	16.12051	.5621372	.0379702	3.420103	2.627897
#1	.3969716	.0077078	.9764367	.6782050	.2014735	.1879988
#2	.3970007	.0086103	.9792787	.6780990	.1886274	.1784632
#3	.3983517	.0105327	.9686912	.6777156	.1921493	.1845313

Elem	Sr4077
Units	ppm
Avg	.2017553
Stddev	.0003289
%RSD	.1630058
#1	.2021350
#2	.2015724
#3	.2015585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3605.668	35258.70	2356.605	2198.864	5202.503
Stddev	7.442	113.95	14.761	9.575	7.994
%RSD	.2063944	.3231882	.6263765	.4354670	.1536516
#1	3610.591	35388.70	2358.997	2208.342	5211.162
#2	3609.307	35176.08	2340.794	2189.194	5200.943
#3	3597.107	35211.32	2370.024	2199.057	5195.404

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV05 Acquired: 7/11/2025 0:47:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.747951**	**4.838501**	**4.819939**	**4.792752**	**4.767773**	**9.514579**	**9.796423**
Stddev	.019434	.006785	.009101	.013042	.006317	.035799	.081480
%RSD	.4093104	.1402263	.1888148	.2721115	.1325005	.3762518	.8317327
#1	4.727072	4.833819	4.820144	4.777727	4.762296	9.551957	9.868554
#2	4.751270	4.835402	4.810738	4.801145	4.766340	9.511177	9.812671
#3	4.765512	4.846282	4.828936	4.799384	4.774684	9.480602	9.708043

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499509**	**2.409894**	**24.15007**	**.9776715**	**2.367902**	**1.244208**	**4.953519**
Stddev	.0007931	.006219	.07547	.0036965	.001707	.003846	.019034
%RSD	.3173152	.2580693	.3125002	.3780942	.0720941	.3090863	.3842534
#1	.2493528	2.403199	24.23455	.9816012	2.367116	1.239853	4.937269
#2	.2508506	2.410992	24.12634	.9742636	2.366729	1.247137	4.974460
#3	.2496493	2.415492	24.08931	.9771498	2.369861	1.245634	4.948827

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.458639**	**24.12186**	**2.367456**	**1.217343**	**26.59638**	**2.469745**	**2.425696**
Stddev	.010924	.25154	.004502	.003221	.25577	.025568	.010257
%RSD	.4443020	1.042779	.1901489	.2646157	.9616615	1.035262	.4228471
#1	2.468019	24.39893	2.363964	1.213817	26.82962	2.486822	2.435065
#2	2.461252	24.05880	2.365867	1.218081	26.63665	2.482064	2.427286
#3	2.446645	23.90786	2.372536	1.220131	26.32286	2.440349	2.414737

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.08848**	**4.830304**	**5.043026**	**4.793342**	**4.725891**	**5.023005**	**4.837359**
Stddev	.33607	.015944	.017234	.005586	.012604	.018780	.014705
%RSD	1.240639	.3300906	.3417488	.1165332	.2666980	.3738885	.3039900
#1	27.33095	4.812006	5.033975	4.790559	4.713441	5.016486	4.822859
#2	27.22963	4.837692	5.062900	4.789694	4.725588	5.044177	4.836958
#3	26.70485	4.841215	5.032201	4.799772	4.738643	5.008353	4.852261

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV05 Acquired: 7/11/2025 0:47:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.859208**	**4.803411**	**4.903994**
Stddev	.032776	.029898	.033525
%RSD	.6745060	.6224373	.6836354
#1	4.889971	4.837620	4.933165
#2	4.862917	4.782278	4.911447
#3	4.824735	4.790336	4.867369

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3473.270**	**33497.53**	**2278.172**	**2092.843**	**4661.398**
Stddev	3.307	211.91	10.388	16.013	7.659
%RSD	.0952138	.6326007	.4559742	.7651089	.1643166
#1	3469.814	33254.37	2268.709	2074.860	4655.337
#2	3473.592	33595.51	2276.521	2098.111	4658.851
#3	3476.405	33642.72	2289.287	2105.558	4670.007

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB05 Acquired: 7/11/2025 0:51:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006877**	**-.001213**	**.0006762**	**.0013592**	**.0008174**	**-.036089**
Stddev	.0013093	.000467	.0036987	.0032368	.0027482	.018255
%RSD	190.3741	38.49459	546.9925	238.1459	336.2042	50.58440
#1	.0008639	-.001586	.0040182	-.002368	-.001536	-.021277
#2	.0019000	-.000689	-.003298	.003467	.003838	-.056484
#3	-.000701	-.001364	.001308	.002978	.000151	-.030505

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001980**	**.0000885**	**-.000077**	**-.006926**	**.0004626**	**-.000019**
Stddev	.000782	.0001516	.000080	.005373	.0005417	.000133
%RSD	39.47438	171.2800	103.9148	77.56909	117.0821	686.2608
#1	-.002869	-.000009	-.000165	-.011619	.0008921	.000069
#2	-.001670	.000263	-.000006	-.008094	.0006417	-.000172
#3	-.001401	.000012	-.000061	-.001066	-.000146	.000045

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000408**	**-.005620**	**.0007305**	**.0165048**	**-.000172**	**-.000811**
Stddev	.000956	.001668	.0026141	.0294437	.000737	.000579
%RSD	234.3445	29.68816	357.8448	178.3942	428.4448	71.40144
#1	-.001419	-.006839	.0002054	.0025540	.000550	-.001301
#2	.000482	-.006302	.0035673	.0503309	-.000143	-.000961
#3	-.000287	-.003719	-.001581	-.003370	-.000923	-.000172

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.025943**	**.0019769**	**-.001582**	**.0049200**	**-.001004**	F **.0146706**
Stddev	.015876	.0052048	.000535	.0007508	.002624	.0004993
%RSD	61.19769	263.2736	33.81216	15.26051	261.4367	3.403311
#1	-.035194	-.001589	-.002019	.0040925	.000074	.0142309
#2	-.007611	-.000430	-.000986	.0051099	-.003996	.0152134
#3	-.035023	.007950	-.001741	.0055577	.000910	.0145676

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB05 Acquired: 7/11/2025 0:51:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000444	.0055891	-.004135	-.000002	.0002804	F -.036727
Stddev	.000237	.0003956	.001283	.001383	.0023331	.011822
%RSD	53.41175	7.078167	31.03799	78506.01	832.1202	32.18738
#1	-.000170	.0059264	-.004861	-.001220	-.002201	-.027253
#2	-.000579	.0051537	-.004891	.001501	.000613	-.032953
#3	-.000582	.0056873	-.002653	-.000287	.002429	-.049975

Elem	Sr4077
Units	ppm
Avg	-.000175
Stddev	.000204
%RSD	116.1106
#1	.000039
#2	-.000366
#3	-.000200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.656	35144.78	2326.900	2187.563	5409.559
Stddev	8.125	199.80	35.250	18.143	4.828
%RSD	.2242214	.5685111	1.514889	.8293917	.0892517
#1	3630.919	35000.93	2366.776	2186.814	5415.109
#2	3625.168	35060.49	2299.891	2169.805	5407.243
#3	3614.882	35372.92	2314.033	2206.069	5406.326

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168739BL Acquired: 7/11/2025 0:56:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013737	-.000984	-.001327	-.003403	-.001320	-.020641	-.001685
Stddev	.0019284	.000619	.001569	.003680	.001631	.025906	.000938
%RSD	140.3833	62.90241	118.2159	108.1312	123.5413	125.5078	55.66332
#1	.0020297	-.001289	-.003103	-.004048	-.002822	.006802	-.002387
#2	-.000797	-.001390	-.000127	-.006717	.000414	-.044671	-.000620
#3	.002889	-.000272	-.000752	.000556	-.001552	-.024053	-.002047

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001059	-.000056	-.007791	.0000917	-.000053	-.000801	-.000049
Stddev	.0001509	.000033	.029444	.0005133	.000376	.001195	.001866
%RSD	142.5148	59.05895	377.9024	559.4769	704.5895	149.2207	3779.141
#1	.0002441	-.000034	-.032653	.0000844	.000266	.000324	.001917
#2	.0001287	-.000094	-.015444	.0006087	.000042	-.002056	-.001797
#3	-.000055	-.000041	.024723	-.000418	-.000468	-.000670	-.000268

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000850	.0375786	-.000567	-.000589	-.034632	.0019722	-.001320
Stddev	.002145	.0848392	.000596	.000806	.007148	.0084565	.000346
%RSD	252.2480	225.7643	105.1592	136.7304	20.63994	428.7900	26.17884
#1	.001403	-.047360	-.001083	-.001518	-.037784	-.005686	-.000979
#2	-.002867	.037778	.000086	-.000167	-.026449	.011048	-.001313
#3	-.001087	.122318	-.000703	-.000083	-.039662	.000554	-.001670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061443	-.001714	.0006284	-.000323	.0041068	-.003579	-.000681
Stddev	.0003320	.001083	.0021960	.000208	.0012576	.001262	.000277
%RSD	5.402806	63.19941	349.4405	64.46511	30.62253	35.27293	40.73615
#1	.0063182	-.000695	.0024012	-.000160	.0028735	-.002143	-.000528
#2	.0057615	-.001596	.0013122	-.000557	.0040593	-.004080	-.001001
#3	.0063532	-.002852	-.001828	-.000251	.0053874	-.004514	-.000514

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168739BL Acquired: 7/11/2025 0:56:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012097	F -.032461	-.000302
Stddev	.0022903	.007531	.000047
%RSD	189.3257	23.19912	15.64272
#1	.0035235	-.041153	-.000254
#2	.0011618	-.027890	-.000349
#3	-.001056	-.028341	-.000304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3612.876	35127.59	2307.313	2192.270	5409.868
Stddev	7.783	142.29	14.024	11.224	4.467
%RSD	.2154213	.4050697	.6078183	.5120023	.0825635
#1	3616.163	35162.95	2323.397	2200.862	5408.083
#2	3603.989	34970.95	2300.903	2179.570	5406.569
#3	3618.477	35248.86	2297.639	2196.379	5414.951

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168739BS Acquired: 7/11/2025 1:00:37 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6955879**	**1.942700**	**.9180884**	**1.917629**	**.7753573**	**1.908258**
Stddev	.0049958	.001951	.0050929	.005148	.0024693	.035539
%RSD	.7182133	.1004379	.5547261	.2684814	.3184720	1.862360
#1	.6903224	1.944046	.9125118	1.914696	.7739754	1.907347
#2	.6961799	1.940463	.9224934	1.923574	.7738884	1.873184
#3	.7002613	1.943593	.9192599	1.914618	.7782082	1.944243

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1987063**	**.2103994**	**.1830526**	**.9936586**	**.3967676**	**.1847717**
Stddev	.0005388	.0014914	.0002314	.0115440	.0022301	.0002985
%RSD	.2711662	.7088329	.1264046	1.161766	.5620755	.1615543
#1	.1984012	.2116738	.1829324	.9804443	.3984896	.1848218
#2	.1983893	.2087592	.1833193	1.001783	.3942484	.1844512
#3	.1993285	.2107653	.1829060	.998749	.3975649	.1850419

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3231979**	**3.352035**	**.2055398**	**1.960661**	**.4667656**	**.0700938**
Stddev	.0039873	.025031	.0032512	.040875	.0002488	.0005337
%RSD	1.233699	.7467465	1.581807	2.084738	.0532994	.7614062
#1	.3260539	3.377778	.2047741	1.948383	.4664922	.0698458
#2	.3186425	3.327782	.2027398	1.927333	.4668258	.0697293
#3	.3248973	3.350544	.2091056	2.006267	.4669787	.0707064

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.146265**	**.2992220**	**.2000005**	**9.906706**	**5.323292**	**.3036696**
Stddev	.044423	.0065633	.0011474	.144056	.010222	.0021216
%RSD	1.411937	2.193470	.5736872	1.454128	.1920192	.6986630
#1	3.196969	.3066248	.2012818	10.04887	5.312227	.3058849
#2	3.114182	.2941149	.1990680	9.76083	5.332383	.3016561
#3	3.127645	.2969262	.1996518	9.91041	5.325264	.3034678

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168739BS Acquired: 7/11/2025 1:00:37 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3863915	F .0034619	.9600384	.6572571	.1960778	.1805835
Stddev	.0008703	.0026830	.0119999	.0026431	.0019019	.0066783
%RSD	.2252426	77.49966	1.249936	.4021488	.9699483	3.698178
#1	.3855310	.0044081	.9717089	.6583795	.1968429	.1728895
#2	.3863721	.0004340	.9477343	.6591537	.1939126	.1839812
#3	.3872713	.0055435	.9606721	.6542379	.1974780	.1848798

Elem	Sr4077
Units	ppm
Avg	.2002154
Stddev	.0009117
%RSD	.4553524
#1	.2007138
#2	.1991631
#3	.2007692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3643.569	35341.08	2339.558	2205.495	5273.102
Stddev	16.079	232.33	21.173	16.511	16.288
%RSD	.4413043	.6573865	.9050015	.7486239	.3088948
#1	3656.221	35460.86	2336.030	2215.805	5286.716
#2	3625.475	35489.07	2362.273	2214.229	5255.057
#3	3649.010	35073.30	2320.370	2186.452	5277.535

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01DLX10 Acquired: 7/11/2025 1:04:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003779**	**-.000281**	**.0315789**	**.0023146**	**-.013040**	**-.002025**
Stddev	.002814	.002793	.0015329	.0017710	.001043	.011121
%RSD	74.46561	995.2842	4.854112	76.51374	7.996020	549.2555
#1	-.000817	-.003463	.0322568	.0034065	-.011846	-.003916
#2	-.006417	.000854	.0298240	.0032661	-.013772	.009921
#3	-.004104	.001767	.0326559	.0002713	-.013503	-.012080

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008889**	**.0001752**	**.0007130**	**.4665612**	**.0308675**	**.0022750**
Stddev	.0008248	.0000889	.0001441	.0107142	.0005725	.0004016
%RSD	92.79101	50.75756	20.21474	2.296409	1.854682	17.65134
#1	.0013336	.0002149	.0007678	.4580382	.0314296	.0021307
#2	.0013958	.0002374	.0008217	.4630566	.0302852	.0027288
#3	-.000063	.0000733	.0005495	.4785888	.0308875	.0019655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1276083**	**.2781878**	**.0043155**	**.2009171**	**.0908097**	**.0007552**
Stddev	.0009196	.0057034	.0028126	.0327739	.0008012	.0011540
%RSD	.7206312	2.050192	65.17515	16.31214	.8822855	152.8051
#1	.1286180	.2804716	.0075437	.1771710	.0902853	.0020043
#2	.1273883	.2716965	.0030085	.1872711	.0917320	.0005327
#3	.1268188	.2823954	.0023941	.2383091	.0904119	-.000271

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**269.8643**	**.0018894**	F **111.2439**	**50.49622**	**.0133888**	**.0161324**
Stddev	2.4367	.0033038	.4453	.46164	.0024641	.0007667
%RSD	.9029324	174.8651	.4003253	.9142167	18.40382	4.752834
#1	272.0637	-.001846	111.6012	51.00220	.0137161	.0165913
#2	267.2449	.004428	110.7450	50.09795	.0107775	.0152472
#3	270.2843	.003086	111.3857	50.38851	.0156729	.0165586

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01DLX10 Acquired: 7/11/2025 1:04:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0199382	F 673.3679	.1559984	-.000559	.0078478	-.026544
Stddev	.0007950	1.8122	.0013720	.000530	.0027872	.002959
%RSD	3.987375	.2691283	.8794940	94.74865	35.51492	11.14832
#1	.0206965	673.7008	.1556144	-.001160	.0047621	-.029961
#2	.0200073	671.4122	.1548593	-.000158	.0101825	-.024897
#3	.0191109	674.9905	.1575215	-.000360	.0085989	-.024775

Elem	Sr4077
Units	ppm
Avg	.0041718
Stddev	.0001608
%RSD	3.854190
#1	.0042769
#2	.0039867
#3	.0042518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3425.844	32341.08	2278.206	2069.498	4551.810
Stddev	7.001	132.21	8.152	3.702	13.807
%RSD	.2043492	.4087875	.3578440	.1788728	.3033318
#1	3430.873	32270.21	2273.891	2065.987	4560.265
#2	3428.811	32493.61	2287.609	2073.365	4559.288
#3	3417.849	32259.42	2273.118	2069.142	4535.877

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01DUPDLX10 Acquired: 7/11/2025 1:09:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006695**	**.0001423**	**.0298867**	**-.002620**	**-.011689**	**-.015155**
Stddev	.003917	.0013370	.0007658	.008993	.002852	.018116
%RSD	58.50551	939.5339	2.562162	343.1802	24.39586	119.5413
#1	-.008536	.0016822	.0290697	.001323	-.013074	-.024169
#2	-.009353	-.000722	.0305880	-.012911	-.008410	-.026996
#3	-.002197	-.000533	.0300025	.003727	-.013585	.005700

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020660**	**-.000026**	**.0007078**	**.4866181**	**.0301100**	**.0020429**
Stddev	.0013338	.000138	.0001477	.0170789	.0009514	.0003041
%RSD	64.56217	527.9971	20.86166	3.509721	3.159735	14.88781
#1	.0013022	.000133	.0007004	.4896292	.0291738	.0023567
#2	.0036061	-.000112	.0008589	.5019912	.0310759	.0017495
#3	.0012895	-.000100	.0005639	.4682338	.0300805	.0020223

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1264433**	**.2809384**	**.0039958**	**.1336260**	**.0918238**	**.0021041**
Stddev	.0016557	.0047810	.0007233	.0478510	.0009788	.0011167
%RSD	1.309404	1.701794	18.10196	35.80968	1.065930	53.07064
#1	.1246553	.2754420	.0034177	.1528412	.0914376	.0025273
#2	.1279234	.2832391	.0048069	.0791541	.0910971	.0008377
#3	.1267511	.2841341	.0037628	.1688827	.0929368	.0029474

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**267.8123**	**.0005442**	F **111.0363**	**50.13480**	**.0115938**	**.0144486**
Stddev	5.1717	.0017855	1.1964	1.16541	.0016661	.0009273
%RSD	1.931089	328.0985	1.077487	2.324548	14.37056	6.417789
#1	265.4033	-.001419	112.3341	49.25971	.0105485	.0146957
#2	273.7491	.000982	110.7975	51.45769	.0135152	.0134228
#3	264.2846	.002070	109.9773	49.68700	.0107178	.0152273

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01DUPDLX10 Acquired: 7/11/2025 1:09:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205436	F 677.5536	.1553498	.0015114	.0047452	-.020269
Stddev	.0009209	.5247	.0042003	.0002065	.0005597	.003498
%RSD	4.482814	.0774425	2.703792	13.65952	11.79417	17.25696
#1	.0203988	677.2397	.1505011	.0014541	.0053694	-.021015
#2	.0197036	677.2617	.1578764	.0017404	.0045782	-.016458
#3	.0215283	678.1594	.1576718	.0013396	.0042880	-.023333

Elem	Sr4077
Units	ppm
Avg	.0043479
Stddev	.0003395
%RSD	7.808233
#1	.0044400
#2	.0039719
#3	.0046319

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3383.588	32128.52	2263.217	2058.851	4488.091
Stddev	6.196	186.03	24.281	14.653	12.147
%RSD	.1831149	.5790096	1.072858	.7116848	.2706474
#1	3388.769	31915.05	2285.276	2042.024	4498.418
#2	3385.271	32214.52	2237.200	2065.740	4491.148
#3	3376.725	32255.99	2267.176	2068.790	4474.708

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01LDLX50 Acquired: 7/11/2025 1:14:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007837**	**-.001336**	**.0065560**	**.0010706**	**-.003196**	**-.024828**
Stddev	.002050	.000790	.0032244	.0029208	.001972	.002397
%RSD	26.15823	59.11693	49.18252	272.8117	61.71436	9.655407
#1	-.010053	-.000920	.0076013	-.001846	-.001357	-.022779
#2	-.006008	-.002247	.0029386	.003996	-.005279	-.027464
#3	-.007449	-.000841	.0091281	.001062	-.002952	-.024240

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001273**	**.0001980**	**.0000453**	**.1123524**	**.0061621**	**.0004858**
Stddev	.002196	.0001666	.0001255	.0190110	.0005740	.0005478
%RSD	172.5993	84.16511	277.4329	16.92088	9.315001	112.7561
#1	-.000165	.0000103	.0000246	.0913625	.0067911	.0011126
#2	.000149	.0003286	.0001798	.1172807	.0056667	.0002458
#3	-.003802	.0002551	-.000069	.1284140	.0060285	.0000990

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0269657**	**.0551648**	**-.000007**	**-.045370**	**.0172182**	**-.000247**
Stddev	.0008183	.0021037	.002135	.051338	.0006898	.002005
%RSD	3.034661	3.813510	29500.51	113.1550	4.006353	811.1280
#1	.0269354	.0528370	.001570	-.101722	.0179014	.001998
#2	.0261630	.0557276	-.002436	-.033130	.0172312	-.000879
#3	.0277988	.0569299	.000845	-.001258	.0165220	-.001860

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**56.21845**	**.0011491**	F **39.66358**	**9.493992**	**.0035789**	**-.002619**
Stddev	.48083	.0049688	.35074	.076082	.0008220	.002696
%RSD	.8552963	432.3949	.8842882	.8013668	22.96723	102.9558
#1	55.69994	-.001410	39.40724	9.580278	.0027098	-.003580
#2	56.30579	.006876	40.06329	9.436552	.0043438	.000426
#3	56.64964	-.002018	39.52020	9.465145	.0036831	-.004703

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01LDLX50 Acquired: 7/11/2025 1:14:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039384	F 131.8796	.0260724	.0003171	.0020088	-.025108
Stddev	.0005129	.5564	.0022043	.0009950	.0031792	.008332
%RSD	13.02267	.4218651	8.454337	313.7777	158.2611	33.18307
#1	.0037966	132.3765	.0246056	-.000771	-.000791	-.018830
#2	.0035114	131.9839	.0250045	.000542	.001353	-.034560
#3	.0045073	131.2785	.0286073	.001180	.005465	-.021934

Elem	Sr4077
Units	ppm
Avg	.0007818
Stddev	.0000972
%RSD	12.43295
#1	.0007499
#2	.0008909
#3	.0007045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3479.521	33265.49	2256.744	2096.990	4918.142
Stddev	15.758	225.61	14.707	14.777	28.249
%RSD	.4528889	.6782005	.6516961	.7046904	.5743736
#1	3464.812	33491.57	2270.730	2107.723	4892.019
#2	3477.600	33040.36	2258.094	2080.136	4914.287
#3	3496.153	33264.54	2241.409	2103.111	4948.120

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01MSDLX10 Acquired: 7/11/2025 1:19:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0754590**	**.2007613**	**.1363419**	**.2063101**	**.0670106**	**.1777954**
Stddev	.0026099	.0010169	.0017459	.0026601	.0027355	.0117726
%RSD	3.458658	.5065239	1.280492	1.289388	4.082141	6.621437
#1	.0724487	.2013702	.1362391	.2058646	.0687056	.1868053
#2	.0770870	.1995873	.1381369	.2039008	.0638548	.1644751
#3	.0768413	.2013263	.1346497	.2091648	.0684713	.1821058

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221039**	**.0218195**	**.0224331**	**.6352608**	**.0749262**	**.0232980**
Stddev	.0005502	.0002799	.0002298	.0238837	.0007466	.0005996
%RSD	2.489388	1.282551	1.024223	3.759664	.9964656	2.573737
#1	.0224200	.0221275	.0223174	.6105203	.0755546	.0231098
#2	.0224231	.0217499	.0222842	.6581838	.0751232	.0228151
#3	.0214685	.0215810	.0226977	.6370785	.0741009	.0239692

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1698677**	**.6407104**	**.0245766**	**.3917963**	**.1530752**	**.0077561**
Stddev	.0005675	.0039332	.0015867	.0338229	.0004166	.0002599
%RSD	.3340792	.6138824	6.456302	8.632770	.2721200	3.350807
#1	.1704979	.6449719	.0259191	.4288126	.1528117	.0080377
#2	.1693971	.6399398	.0249852	.3840738	.1535554	.0077049
#3	.1697081	.6372195	.0228255	.3625024	.1528584	.0075255

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**292.8768**	**.0420310**	F **115.1334**	**57.27166**	**.6551967**	**.0471695**
Stddev	2.8329	.0055823	.3303	.22332	.0021687	.0007237
%RSD	.9672728	13.28147	.2869069	.3899384	.3309969	1.534184
#1	293.1735	.0365289	115.4531	57.29781	.6527210	.0471310
#2	295.5498	.0476903	115.1537	57.48076	.6567608	.0479117
#3	289.9073	.0418739	114.7934	57.03641	.6561082	.0464659

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01MSDLX10 Acquired: 7/11/2025 1:19:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0635243	F 733.8061	.2644703	.0754644	.0192558	.0057174
Stddev	.0002707	2.4280	.0017043	.0006368	.0024313	.0082819
%RSD	.4260855	.3308781	.6444209	.8438899	12.62610	144.8537
#1	.0633485	731.9995	.2659119	.0761926	.0164513	-.003735
#2	.0633885	732.8527	.2649096	.0750119	.0207684	.011701
#3	.0638360	736.5661	.2625893	.0751885	.0205477	.009186

Elem	Sr4077
Units	ppm
Avg	.0256339
Stddev	.0005168
%RSD	2.016125
#1	.0261181
#2	.0256938
#3	.0250897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3349.144	31560.64	2218.627	2030.116	4425.352
Stddev	9.166	49.58	16.400	4.577	17.354
%RSD	.2736864	.1571095	.7392031	.2254454	.3921468
#1	3359.714	31553.47	2200.518	2025.390	4445.055
#2	3344.344	31613.43	2222.885	2034.527	4418.663
#3	3343.375	31515.04	2232.479	2030.432	4412.337

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01MSDDLX10 Acquired: 7/11/2025 1:24:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0746851	.2008343	.1331382	.1999557	.0649824	.2044721
Stddev	.0014414	.0004182	.0007428	.0090464	.0019038	.0351225
%RSD	1.929920	.2082375	.5579429	4.524209	2.929680	17.17714
#1	.0732619	.2007025	.1322809	.2100072	.0657346	.1639300
#2	.0746495	.2013025	.1335426	.1924675	.0663952	.2256600
#3	.0761440	.2004978	.1335910	.1973924	.0628175	.2238264

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225333	.0215782	.0220136	.6412762	.0745638	.0231054
Stddev	.0019698	.0000879	.0000562	.0103238	.0004895	.0002834
%RSD	8.741926	.4073585	.2551683	1.609885	.6564539	1.226582
#1	.0202764	.0214820	.0220285	.6362999	.0750702	.0234302
#2	.0239071	.0215979	.0219515	.6531456	.0740932	.0229083
#3	.0234162	.0216545	.0220609	.6343830	.0745282	.0229776

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1678430	.6251718	.0249742	.2923460	.1509417	.0076216
Stddev	.0014959	.0026104	.0022595	.1055768	.0005880	.0004604
%RSD	.8912475	.4175443	9.047251	36.11366	.3895754	6.040876
#1	.1662161	.6228604	.0274451	.1937555	.1516164	.0077985
#2	.1691590	.6246521	.0230132	.4037411	.1505385	.0070989
#3	.1681540	.6280029	.0244643	.2795413	.1506701	.0079673

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	289.8801	.0309215	F 114.2067	55.04095	.6481686	.0489465
Stddev	2.1940	.0034078	.4592	.20229	.0010186	.0014838
%RSD	.7568661	11.02068	.4020881	.3675328	.1571548	3.031525
#1	288.5719	.0271106	113.9934	55.15604	.6492975	.0505512
#2	288.6552	.0336760	113.8930	54.80737	.6478903	.0486642
#3	292.4130	.0319779	114.7338	55.15943	.6473181	.0476242

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01MSDDLX10 Acquired: 7/11/2025 1:24:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0636056	F 723.5927	.2638859	.0733757	.0227078	.0096561
Stddev	.0005747	.7425	.0027326	.0010743	.0034017	.0073135
%RSD	.9036069	.1026112	1.035532	1.464122	14.98030	75.74028
#1	.0636648	724.1835	.2621532	.0723870	.0241474	.0180145
#2	.0630036	722.7593	.2624686	.0732214	.0251531	.0044328
#3	.0641484	723.8355	.2670360	.0745189	.0188230	.0065209

Elem	Sr4077
Units	ppm
Avg	.0255834
Stddev	.0004288
%RSD	1.676174
#1	.0256945
#2	.0259457
#3	.0251099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3354.415	31668.35	2234.925	2033.115	4447.247
Stddev	6.676	210.26	15.449	17.271	1.401
%RSD	.1990357	.6639515	.6912348	.8494770	.0314920
#1	3362.011	31635.36	2246.546	2024.232	4448.843
#2	3351.761	31476.53	2217.394	2022.094	4446.221
#3	3349.474	31893.16	2240.836	2053.020	4446.678

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01ADLX10 Acquired: 7/11/2025 1:29:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0703555**	**.1983563**	**.1335358**	**.2023192**	**.0671814**	**.1920401**
Stddev	.0007064	.0009993	.0009311	.0043630	.0047424	.0378356
%RSD	1.003998	.5038074	.6972549	2.156483	7.059163	19.70192
#1	.0695421	.1977704	.1332985	.2040177	.0617900	.1958472
#2	.0708146	.1977883	.1345626	.1973624	.0690461	.2278282
#3	.0707098	.1995102	.1327463	.2055774	.0707080	.1524449

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224708**	**.0215371**	**.0220259**	**.6481740**	**.0742742**	**.0231566**
Stddev	.0003994	.0002169	.0001467	.0055368	.0010077	.0003915
%RSD	1.777340	1.006915	.6658803	.8542205	1.356743	1.690589
#1	.0229139	.0217416	.0221952	.6522141	.0737652	.0235034
#2	.0223599	.0215600	.0219355	.6418627	.0754349	.0227321
#3	.0221386	.0213097	.0219471	.6504452	.0736225	.0232342

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1680617**	**.6319959**	**.0232919**	**.3886827**	**.1499226**	**.0078765**
Stddev	.0039643	.0062806	.0017368	.0825727	.0010018	.0014429
%RSD	2.358860	.9937660	7.456733	21.24425	.6682377	18.31891
#1	.1721186	.6387185	.0238668	.4791953	.1510518	.0095396
#2	.1678697	.6309903	.0213405	.3693853	.1491402	.0069587
#3	.1641969	.6262788	.0246684	.3174675	.1495760	.0071312

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**288.5375**	**.0421749**	F **115.2248**	**55.30728**	**.6484201**	**.0479469**
Stddev	4.4353	.0038126	.6367	.33301	.0010048	.0012389
%RSD	1.537167	9.040002	.5526066	.6021173	.1549592	2.583931
#1	293.6582	.0431568	114.7551	55.17253	.6495635	.0492902
#2	285.8981	.0379673	114.9697	55.68655	.6480192	.0468492
#3	286.0564	.0454005	115.9495	55.06275	.6476777	.0477013

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-01ADLX10 Acquired: 7/11/2025 1:29:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0627085	F 724.1251	.2654947	.0743040	.0216759	.0058793
Stddev	.0003597	2.2503	.0058445	.0010278	.0017165	.0044954
%RSD	.5736299	.3107650	2.201360	1.383192	7.919011	76.46099
#1	.0626546	726.5931	.2692729	.0740335	.0223697	.0012900
#2	.0623788	722.1870	.2684482	.0754400	.0229370	.0102745
#3	.0630921	723.5953	.2587628	.0734386	.0197211	.0060735

Elem	Sr4077
Units	ppm
Avg	.0255549
Stddev	.0001976
%RSD	.7730426
#1	.0257781
#2	.0254839
#3	.0254026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3342.566	31292.68	2210.966	2016.430	4422.061
Stddev	10.506	147.46	22.595	12.053	21.184
%RSD	.3143070	.4712132	1.021943	.5977504	.4790483
#1	3331.049	31378.25	2185.258	2017.291	4399.396
#2	3345.023	31377.39	2219.967	2028.030	4425.424
#3	3351.626	31122.42	2227.673	2003.969	4441.362

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-02DLX10 Acquired: 7/11/2025 1:34:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007551**	**-.003147**	**.2955000**	**.0039530**	**-.003811**	**-.004229**
Stddev	.002807	.001524	.0038820	.0008816	.002752	.017553
%RSD	37.17376	48.43475	1.313698	22.30143	72.20250	415.0330
#1	-.009468	-.002941	.2929081	.0049667	-.000788	-.001693
#2	-.008855	-.004763	.2936287	.0033656	-.006171	-.022912
#3	-.004329	-.001736	.2999632	.0035266	-.004474	.011917

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006239**	**.0002755**	**.0158806**	**.1853113**	**.0007595**	**.0016334**
Stddev	.0012904	.0000286	.0001046	.0204441	.0002396	.0001546
%RSD	206.8148	10.39951	.6589323	11.03229	31.54577	9.465839
#1	.0020817	.0002959	.0159871	.2082570	.0004829	.0017302
#2	-.000372	.0002427	.0157779	.1786429	.0008960	.0017150
#3	.000162	.0002877	.0158767	.1690340	.0008997	.0014551

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.334742**	**.1622503**	**.0033865**	**-.009891**	**.0619398**	**.0062151**
Stddev	.033715	.0011039	.0006339	.054785	.0004248	.0002307
%RSD	1.011021	.6803476	18.71900	553.8781	.6857486	3.712555
#1	3.296231	.1614555	.0041080	-.069683	.0622391	.0063364
#2	3.349061	.1635107	.0029189	.002113	.0621266	.0059490
#3	3.358934	.1617847	.0031326	.037896	.0614536	.0063599

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.305535**	**-.003382**	F **52.29860**	**132.5349**	**.1235827**	**-.001313**
Stddev	.035104	.004396	.18935	1.4504	.0011099	.001398
%RSD	.8153158	129.9820	.3620465	1.094343	.8981183	106.4533
#1	4.265460	.000708	52.51157	131.5358	.1243112	.000301
#2	4.320303	-.008031	52.14928	131.8703	.1241315	-.002129
#3	4.330842	-.002823	52.23494	134.1985	.1223052	-.002111

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-02DLX10 Acquired: 7/11/2025 1:34:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005820	.4943799	.0065945	.0010276	.0020218	-.027675
Stddev	.0007154	.0121861	.0018320	.0021941	.0061795	.006391
%RSD	122.9356	2.464922	27.78129	213.5215	305.6507	23.09228
#1	.0013935	.5084505	.0061733	.0019087	.0012439	-.024844
#2	.0000422	.4872248	.0050097	.0026442	.0085533	-.023188
#3	.0003102	.4874644	.0086004	-.001470	-.003732	-.034992

Elem	Sr4077
Units	ppm
Avg	.0024415
Stddev	.0005026
%RSD	20.58496
#1	.0025000
#2	.0029122
#3	.0019122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3449.647	33278.53	2283.137	2104.574	4735.647
Stddev	5.482	193.29	23.742	14.272	6.224
%RSD	.1589122	.5808381	1.039890	.6781197	.1314295
#1	3452.194	33144.65	2296.564	2089.207	4741.874
#2	3443.355	33500.13	2297.124	2117.412	4729.426
#3	3453.392	33190.80	2255.724	2107.104	4735.641

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-03DLX10 Acquired: 7/11/2025 1:39:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0875444**	**-.003230**	**.0033117**	**.0808603**	**.0500379**	**.1004545**
Stddev	.0069291	.000280	.0017920	.0011754	.0024316	.0302304
%RSD	7.914921	8.679770	54.11012	1.453646	4.859483	30.09364
#1	.0813284	-.003535	.0052496	.0802896	.0526246	.1345705
#2	.0862897	-.002983	.0017147	.0800791	.0496905	.0769972
#3	.0950151	-.003173	.0029708	.0822121	.0477988	.0897958

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064317**	**.0001011**	**.0187550**	**.0219310**	**.0036833**	**.0002202**
Stddev	.0007039	.0002992	.0000257	.0179526	.0003612	.0001364
%RSD	10.94375	295.8282	.1369909	81.85949	9.806506	61.93761
#1	.0062743	-.000034	.0187731	.0399485	.0035826	.0000685
#2	.0058198	.000444	.0187664	.0218005	.0040841	.0002595
#3	.0072009	-.000107	.0187256	.0040440	.0033831	.0003327

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184656**	**-.003690**	**-.000232**	**-.065401**	**-.000893**	**5.253675**
Stddev	.0005505	.003905	.001441	.057494	.000818	.047202
%RSD	2.981127	105.8390	621.4545	87.91056	91.59315	.8984615
#1	.0186877	-.004044	.000142	-.012249	-.001753	5.262020
#2	.0188704	.000381	-.001823	-.126425	-.000803	5.202857
#3	.0178388	-.007406	.000986	-.057528	-.000124	5.296148

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**706.4428**	**.0070343**	F **26.11905**	^ *****	**.1466326**	**.0252837**
Stddev	5.2815	.0028567	.15887	-----	.0059370	.0013808
%RSD	.7476223	40.61014	.6082635	-----	4.048905	5.461315
#1	701.4596	.0038127	26.00169	^ -----	.1409869	.0237622
#2	711.9791	.0080315	26.05562	^ -----	.1460876	.0264573
#3	705.8896	.0092587	26.29983	^ -----	.1528234	.0256315

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-03DLX10 Acquired: 7/11/2025 1:39:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002175	22.18887	.3750561	.0650322	.0043416	.1322102
Stddev	.0008744	.05813	.0008946	.0029003	.0052457	.0035327
%RSD	402.1250	.2619857	.2385211	4.459744	120.8240	2.672034
#1	-.000447	22.14225	.3751699	.0622311	.0073307	.1349220
#2	-.000108	22.25400	.3758884	.0648430	-.001715	.1282153
#3	.001208	22.17034	.3741101	.0680223	.007410	.1334935

Elem	Sr4077
Units	ppm
Avg	.0097896
Stddev	.0000716
%RSD	.7313075
#1	.0097891
#2	.0098615
#3	.0097183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3119.399	28547.92	2262.059	1884.722	3895.688
Stddev	9.361	137.19	7.262	12.952	11.556
%RSD	.3001036	.4805448	.3210142	.6872314	.2966453
#1	3109.359	28692.25	2270.418	1898.977	3887.389
#2	3127.889	28532.28	2257.315	1881.512	3908.887
#3	3120.949	28419.22	2258.442	1873.676	3890.787

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV06 Acquired: 7/11/2025 1:47:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.779350**	**4.844964**	**4.821446**	**4.813967**	**4.788605**	**9.524801**	**9.806736**
Stddev	.018222	.007395	.005821	.009408	.005735	.046398	.017328
%RSD	.3812758	.1526332	.1207273	.1954267	.1197644	.4871257	.1766952
#1	4.784395	4.845586	4.823434	4.824512	4.793666	9.484281	9.787303
#2	4.759136	4.837278	4.814892	4.810951	4.789773	9.575415	9.820579
#3	4.794518	4.852029	4.826013	4.806436	4.782376	9.514707	9.812327

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2482047**	**2.410481**	**24.14206**	**.9777817**	**2.373176**	**1.237627**	**4.891031**
Stddev	.0014198	.004403	.02681	.0024513	.004765	.007713	.010018
%RSD	.5720379	.1826693	.1110406	.2506955	.2008031	.6232091	.2048303
#1	.2466289	2.410659	24.14092	.9787647	2.373415	1.229095	4.881965
#2	.2486007	2.405992	24.11585	.9795889	2.368296	1.239679	4.889342
#3	.2493844	2.414793	24.16942	.9749915	2.377818	1.244106	4.901786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.444680**	**24.16233**	**2.372048**	**1.215150**	**26.40793**	**2.469393**	**2.443189**
Stddev	.002871	.07567	.003129	.000575	.10872	.009197	.003363
%RSD	.1174547	.3131819	.1319278	.0473339	.4116816	.3724230	.1376411
#1	2.441572	24.09082	2.374010	1.215326	26.28283	2.478942	2.439675
#2	2.445236	24.24157	2.368439	1.215616	26.46143	2.468642	2.446378
#3	2.447233	24.15461	2.373694	1.214507	26.47953	2.460595	2.443514

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.24970**	**4.836783**	**5.005972**	**4.785479**	**4.749384**	**4.998668**	**4.851292**
Stddev	.25549	.003927	.021866	.001736	.013938	.027564	.010488
%RSD	.9733028	.0811949	.4367914	.0362776	.2934794	.5514283	.2161997
#1	26.51878	4.839671	4.982352	4.783537	4.756470	4.971391	4.840462
#2	26.21989	4.832311	5.010056	4.786021	4.733326	4.998101	4.852012
#3	26.01042	4.838366	5.025508	4.786880	4.758356	5.026511	4.861402

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV06 Acquired: 7/11/2025 1:47:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.860757**	**4.811559**	**4.901961**
Stddev	.014289	.003038	.015916
%RSD	.2939728	.0631434	.3246895
#1	4.847364	4.813843	4.887980
#2	4.875800	4.808110	4.919282
#3	4.859107	4.812722	4.898619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3463.017**	**33383.90**	**2295.991**	**2081.986**	**4634.775**
Stddev	12.119	228.56	3.618	5.324	17.486
%RSD	.3499566	.6846327	.1575921	.2557249	.3772685
#1	3476.759	33141.05	2293.886	2077.135	4654.822
#2	3453.855	33415.84	2293.918	2081.142	4626.831
#3	3458.438	33594.80	2300.169	2087.682	4622.671

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB06 Acquired: 7/11/2025 2:23:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	.0011112	-.003434	-.000346	.0005869	.0025126	-.033661	-.000983
Stddev	.0020943	.001469	.001404	.0024599	.0029004	.011250	.000795
%RSD	188.4656	42.78236	405.9503	419.1553	115.4325	33.42300	80.85254
#1	-.000474	-.001755	.001269	.0007350	.0051915	-.043704	-.001283
#2	.000322	-.004485	-.001033	-.001944	-.000567	-.035776	-.001584
#3	.003485	-.004060	-.001273	.002969	.002914	-.021503	-.000082

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000358	-.000026	-.009448	.0000816	-.000014	-.000677	-.003250
Stddev	.0000470	.000077	.014328	.0006784	.000095	.000192	.002214
%RSD	131.3065	294.2899	151.6567	831.0992	702.2389	28.30297	68.13338
#1	-.000017	.000007	-.015690	.0005728	.000035	-.000497	-.003506
#2	.000050	-.000114	-.019596	-.000692	.000047	-.000654	-.000919
#3	.000074	.000028	.006943	.000365	-.000123	-.000878	-.005325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087545	-.015373	-.000028	.0048747	-.020752	-.009330	.0014267
Stddev	.0011188	.105704	.000536	.0010135	.009777	.005278	.0006705
%RSD	12.78017	687.5747	1889.104	20.78996	47.11324	56.56752	46.99529
#1	.0081382	-.007446	.000107	.0044577	-.010606	-.014630	.0020635
#2	.0100459	-.124818	.000427	.0060302	-.030113	-.004074	.0007269
#3	.0080793	.086144	-.000619	.0041364	-.021538	-.009287	.0014899

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012331	-.002292	-.006605	-.000122	.0064450	-.000230	-.008007
Stddev	.001201	.004095	.000522	.000345	.0043743	.004469	.001112
%RSD	9.735550	178.6229	7.908756	284.1619	67.87139	1945.692	13.88351
#1	-.013240	-.002501	-.006179	-.000267	.0058530	.004770	-.008726
#2	-.012783	.001903	-.007188	.000273	.0110852	-.001626	-.008569
#3	-.010970	-.006279	-.006448	-.000370	.0023969	-.003833	-.006727

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB06 Acquired: 7/11/2025 2:23:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0017381	F -.041567	-.000236
Stddev	.0014538	.013332	.000238
%RSD	83.64459	32.07274	100.9888
#1	.0029579	-.056834	-.000448
#2	.0021269	-.035638	.000022
#3	.0001294	-.032228	-.000282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3666.652	35908.25	2382.933	2221.837	5504.199
Stddev	4.328	164.90	8.293	9.516	7.392
%RSD	.1180422	.4592269	.3480324	.4283158	.1342991
#1	3661.655	35718.24	2391.724	2212.832	5499.608
#2	3669.188	35992.71	2381.827	2220.885	5500.263
#3	3669.114	36013.82	2375.249	2231.793	5512.727

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-04DLX5 Acquired: 7/11/2025 2:27:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000865**	**-.001766**	**-.000554**	**.0048568**	**.0055569**	**-.024926**	**.0014969**
Stddev	.005746	.000718	.001034	.0054532	.0000999	.015010	.0008850
%RSD	664.3931	40.66757	186.5605	112.2820	1.797055	60.21830	59.12245
#1	.004294	-.002558	.000441	-.001305	.0056710	-.024223	.0005272
#2	.000168	-.001157	-.000481	.009061	.0055144	-.040274	.0017025
#3	-.007057	-.001583	-.001622	.006814	.0054853	-.010279	.0022610

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001419**	**.0027101**	**-.016952**	**.0004004**	**.0113082**	**.0262615**	**-.001305**
Stddev	.0002533	.0001488	.025630	.0006322	.0001542	.0006782	.003020
%RSD	178.4685	5.490629	151.1886	157.8806	1.363371	2.582612	231.4634
#1	-.000073	.0025893	-.021346	.0010763	.0114342	.0264246	-.003363
#2	.000078	.0028763	-.040102	.0003014	.0111363	.0268433	-.002712
#3	.000421	.0026648	.010590	-.000176	.0113542	.0255165	.002162

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016548**	**-.014345**	**.0001623**	**.0470533**	**29.98721**	**-.000194**	**.0193647**
Stddev	.0007893	.063169	.0007668	.0019157	.10872	.001490	.0000564
%RSD	47.69883	440.3626	472.4537	4.071388	.3625436	766.4946	.2912667
#1	.0010788	.016049	-.000418	.0490440	29.88475	-.001767	.0194297
#2	.0025545	.027882	.001031	.0468934	30.10125	-.000014	.0193362
#3	.0013311	-.086965	-.000126	.0452226	29.97562	.001197	.0193283

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.3019**	**.0135360**	**-.003150**	**.0000285**	**2.243962**	**.0001236**	**-.001147**
Stddev	2.7267	.0037536	.002384	.0005018	.007371	.0015303	.000753
%RSD	2.000471	27.73061	75.65579	1758.378	.3284701	1237.825	65.66183
#1	139.4219	.0094503	-.004489	-.000531	2.250498	.0017889	-.001187
#2	134.3757	.0143260	-.004563	.000439	2.235973	-.001221	-.001880
#3	135.1082	.0168318	-.000399	.000177	2.245416	-.000197	-.000375

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-04DLX5 Acquired: 7/11/2025 2:27:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0034121	-.039111	.0001092
Stddev	.0060706	.003016	.0002653
%RSD	177.9146	7.711304	242.9235
#1	-.000836	-.039843	-.000190
#2	.000707	-.041693	.000315
#3	.010365	-.035796	.000203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3490.105	33415.82	2324.125	2108.835	4781.832
Stddev	6.651	85.49	9.482	3.483	13.815
%RSD	.1905539	.2558303	.4079630	.1651533	.2888974
#1	3485.484	33407.43	2315.730	2109.665	4766.891
#2	3497.727	33334.83	2322.236	2105.012	4794.143
#3	3487.105	33505.19	2334.409	2111.828	4784.462

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-05DLX5 Acquired: 7/11/2025 2:32:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0280443**	**.0213673**	**.0023479**	**.0020152**	**.0544563**	**.0964939**
Stddev	.0018052	.0023364	.0013629	.0085959	.0024351	.0464890
%RSD	6.436901	10.93462	58.04480	426.5463	4.471717	48.17817
#1	.0296714	.0186873	.0011984	.0067529	.0572632	.1369182
#2	.0261024	.0224393	.0019919	.0071999	.0531976	.1068698
#3	.0283591	.0229754	.0038535	-.007907	.0529081	.0456937

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0173728**	**-.000154**	**-.000438**	**.8028029**	**2.701542**	**.0393361**
Stddev	.0018638	.000234	.000187	.0403728	.007960	.0003718
%RSD	10.72807	151.7308	42.77244	5.028977	.2946397	.9452738
#1	.0169834	.000116	-.000222	.7631394	2.692514	.0389523
#2	.0157345	-.000282	-.000553	.8014199	2.707551	.0393613
#3	.0194005	-.000296	-.000538	.8438494	2.704560	.0396946

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0714213**	**3.169173**	**.2150965**	**.1168678**	**21.06798**	**.0024795**
Stddev	.0139594	.414151	.0017601	.1355338	.04919	.0010196
%RSD	19.54509	13.06811	.8182682	115.9719	.2334906	41.12290
#1	.0609048	2.854379	.2162707	.1483329	21.01740	.0014487
#2	.0661005	3.014801	.2130728	.2339014	21.07088	.0034876
#3	.0872586	3.638339	.2159460	-.031631	21.11566	.0025021

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**514.1969**	**-.045123**	**.6095784**	**^ *****	**.1061597**	**.0984310**
Stddev	67.0632	.004750	.0043463	-----	.0031363	.0141652
%RSD	13.04232	10.52712	.7129977	-----	2.954283	14.39099
#1	464.0179	-.040915	.6134965	^ -----	.1086268	.0863059
#2	488.2077	-.044181	.6049034	^ -----	.1026302	.0949862
#3	590.3650	-.050274	.6103353	^ -----	.1072219	.1140009

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-05DLX5 Acquired: 7/11/2025 2:32:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.801797	F 3752.863	.0864857	.0037571	-.007027	.0326678
Stddev	.012247	11.438	.0221684	.0001920	.004658	.0227845
%RSD	.1800614	.3047721	25.63249	5.109955	66.28832	69.74584
#1	6.799600	3765.357	.0695978	.0035839	-.004890	.0126809
#2	6.790797	3742.910	.0782700	.0037240	-.003821	.0278450
#3	6.814995	3750.321	.1115891	.0039635	-.012371	.0574776

Elem	Sr4077
Units	ppm
Avg	.0335223
Stddev	.0001091
%RSD	.3254720
#1	.0336237
#2	.0334068
#3	.0335364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3156.063	30165.65	2021.690	1909.832	4093.043
Stddev	5.576	122.52	251.436	8.847	1.137
%RSD	.1766636	.4061515	12.43690	.4632242	.0277809
#1	3149.627	30142.48	2213.285	1904.197	4094.303
#2	3159.421	30298.10	2114.806	1920.029	4092.735
#3	3159.141	30056.37	1736.979	1905.271	4092.093

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-06DLX5 Acquired: 7/11/2025 2:36:49 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013443**	**.0218905**	**.0017766**	**.0050913**	**.0022867**	**-.012160**	**-.000444**
Stddev	.0037515	.0041801	.0006796	.0061990	.0034074	.024132	.000602
%RSD	279.0651	19.09566	38.25350	121.7567	149.0080	198.4558	135.5432
#1	.0034647	.0171420	.0015545	.0060724	.0061673	-.038984	-.000547
#2	-.002987	.0250144	.0025394	.0107413	-.000216	-.005279	-.000988
#3	.003555	.0235151	.0012358	-.001540	.000909	.007784	.000203

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003511**	**.0013280**	**.0022340**	**.0000666**	**.0001446**	**.1014440**	**-.001564**
Stddev	.0002551	.0000908	.0251273	.0006166	.0001082	.0201959	.002222
%RSD	72.67624	6.839901	1124.765	926.2484	74.84107	19.90843	142.0471
#1	.0004913	.0014280	.0266077	-.000617	.0000228	.1244429	-.003933
#2	.0000566	.0012505	-.023585	.000237	.0001812	.0932859	-.001231
#3	.0005053	.0013056	.003679	.000580	.0002297	.0866033	.000472

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063719**	**-.062676**	**.0013207**	**.0275604**	**69.92356**	**-.003782**	**.2334818**
Stddev	.0013878	.092618	.0007474	.0002565	13.46793	.003742	.0040169
%RSD	21.77984	147.7726	56.59403	.9306750	19.26093	98.95067	1.720449
#1	.0064993	.040047	.0017072	.0274293	85.43908	-.001460	.2332921
#2	.0076916	-.139808	.0017957	.0278560	63.08035	-.001787	.2295631
#3	.0049248	-.088268	.0004591	.0273960	61.25124	-.008099	.2375903

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0216527**	**.0350827**	**-.000350**	**1.589951**	**.0061046**	**-.000922**
Stddev	-----	.0040870	.0085811	.000474	.190151	.0046909	.001663
%RSD	-----	18.87511	24.45957	135.2662	11.95955	76.84228	180.3181
#1	^ -----	.0263713	.0441864	-.000296	1.806655	.0114558	-.001509
#2	^ -----	.0193637	.0339187	.000094	1.512208	.0027022	-.002212
#3	^ -----	.0192232	.0271430	-.000849	1.450990	.0041559	.000955

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-06DLX5 Acquired: 7/11/2025 2:36:49 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0059660	-.022142	-.000085
Stddev	.0034649	.008073	.000235
%RSD	58.07711	36.45986	275.5652
#1	.0041419	-.030693	-.000351
#2	.0099618	-.014652	.000092
#3	.0037942	-.021081	.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.863	30607.93	2117.174	2004.141	4387.052
Stddev	113.675	1818.92	311.919	102.058	178.557
%RSD	3.415867	5.942650	14.73280	5.092346	4.070094
#1	3196.833	31024.87	1757.570	2043.398	4180.874
#2	3400.120	32182.18	2314.500	2080.742	4489.378
#3	3386.637	28616.73	2279.452	1888.284	4490.904

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-07DLX5 Acquired: 7/11/2025 2:41:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047716**	**.0000016**	**.0003464**	**.0019813**	**.0027561**	**-.013788**	**-.001088**
Stddev	.0034377	.0012760	.0024273	.0006119	.0010959	.022203	.000250
%RSD	72.04525	79861.04	700.6576	30.88630	39.76241	161.0306	22.92497
#1	.0087151	-.001437	-.000431	.0026373	.0020485	.011848	-.001311
#2	.0031923	.000445	-.001597	.0018806	.0040184	-.026366	-.000819
#3	.0024073	.000996	.003067	.0014259	.0022014	-.026847	-.001135

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002130**	**-.000079**	**-.018936**	**.0006276**	**.1220705**	**.0654500**	**-.002986**
Stddev	.0001127	.000046	.023355	.0006890	.0002132	.0010322	.002412
%RSD	52.90611	58.67393	123.3317	109.7797	.1746275	1.577066	80.77976
#1	.0003401	-.000052	-.009154	.0004376	.1222780	.0665857	-.005136
#2	.0001736	-.000132	-.002063	.0013917	.1218521	.0651950	-.003445
#3	.0001253	-.000053	-.045591	.0000536	.1220815	.0645691	-.000377

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000323**	**.0283246**	**.0007143**	**.0127787**	**28.11435**	**.0001350**	**.0012008**
Stddev	.0022958	.0896412	.0003632	.0008862	.20284	.0119733	.0006083
%RSD	7116.933	316.4781	50.84620	6.935156	.7214961	8870.877	50.66093
#1	.0007322	.0757411	.0006445	.0117556	28.34112	-.000996	.0006201
#2	-.002532	.0842988	.0011073	.0132724	28.05173	.012634	.0018334
#3	.001897	-.075066	.0003910	.0133081	27.95020	-.011233	.0011488

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.4861135**	**.0229262**	**.0021053**	**.9484401**	**.0023986**	**-.000462**
Stddev	-----	.0018077	.0027775	.0004530	.0038018	.0015239	.000389
%RSD	-----	.3718695	12.11487	21.51618	.4008432	63.53148	84.01121
#1	^ -----	.4850844	.0215868	.0023785	.9489106	.0011274	-.000885
#2	^ -----	.4850553	.0261195	.0023549	.9519848	.0019805	-.000121
#3	^ -----	.4882008	.0210722	.0015824	.9444251	.0040879	-.000381

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-07DLX5 Acquired: 7/11/2025 2:41:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0027963	-.023718	-.000063
Stddev	.0032753	.011733	.000165
%RSD	117.1319	49.46749	262.6475
#1	.0061225	-.034087	.000124
#2	-.000426	-.010983	-.000189
#3	.002692	-.026084	-.000124

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3463.132	32838.89	2338.801	2098.876	4615.074
Stddev	4.784	200.93	27.849	1.694	6.960
%RSD	.1381500	.6118524	1.190733	.0806899	.1508123
#1	3457.640	33047.17	2311.142	2100.665	4608.205
#2	3465.358	32646.22	2366.836	2098.666	4622.122
#3	3466.397	32823.29	2338.424	2097.297	4614.895

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-08 Acquired: 7/11/2025 2:45:49 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038835**	**.0007300**	**.0175259**	**.0045071**	**.0129553**	**.5584006**
Stddev	.0014575	.0017477	.0093970	.0073046	.0005715	.0273417
%RSD	37.53111	239.4099	53.61801	162.0678	4.410959	4.896432
#1	.0051623	-.001112	.0099675	.0060331	.0122971	.5805436
#2	.0041917	.002364	.0145629	.0109282	.0132429	.5668184
#3	.0022966	.000938	.0280473	-.003440	.0133257	.5278397

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120538**	**-.000144**	**.0012822**	**.8028050**	**.6226171**	**.0105072**
Stddev	.0016093	.000088	.0000515	.0220440	.0065304	.0004788
%RSD	13.35105	61.54116	4.016888	2.745866	1.048865	4.557273
#1	.0134262	-.000159	.0012361	.7944795	.6299776	.0110042
#2	.0124527	-.000223	.0013378	.8277992	.6175179	.0104684
#3	.0102826	-.000049	.0012727	.7861363	.6203558	.0100489

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.33917**	**9.463913**	**.1167890**	**.1715891**	**2.067238**	**.0027286**
Stddev	5.64819	.467483	.0025932	.0270756	.008083	.0005845
%RSD	23.20619	4.939638	2.220448	15.77930	.3910273	21.42267
#1	28.93258	8.924191	.1138764	.1416667	2.075899	.0025847
#2	26.05213	9.741857	.1176431	.1943972	2.059894	.0022294
#3	18.03278	9.725691	.1188474	.1787035	2.065921	.0033716

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.329126**	**-.001977**	**8.266591**	**75.21408**	**.5611726**	**.0207769**
Stddev	.190711	.008955	.120342	23.56845	.0710324	.0011217
%RSD	3.013227	453.0475	1.455763	31.33515	12.65785	5.398564
#1	6.514415	.002421	8.388853	69.65009	.6189576	.0195775
#2	6.133420	-.012280	8.148265	101.0667	.5826911	.0209532
#3	6.339543	.003929	8.262655	54.9255	.4818690	.0218000

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-08 Acquired: 7/11/2025 2:45:49 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8011135	F 1060.345	.2001790	.0002069	.0622759	-.002491
Stddev	.0024363	3.894	.0091842	.0014884	.0055316	.004178
%RSD	.3041101	.3672249	4.587975	719.5086	8.882371	167.6842
#1	.8011071	1063.704	.1895937	-.001096	.0559285	.000741
#2	.7986805	1056.077	.2060298	.001829	.0660673	-.001006
#3	.8035530	1061.253	.2049137	-.000113	.0648319	-.007209

Elem	Sr4077
Units	ppm
Avg	.0089444
Stddev	.0003302
%RSD	3.691539
#1	.0086794
#2	.0093143
#3	.0088395

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3390.797	34624.69	2302.011	2141.380	4869.881
Stddev	58.766	1586.88	38.968	53.497	74.204
%RSD	1.733114	4.583085	1.692765	2.498263	1.523735
#1	3458.376	32849.07	2339.491	2087.647	4955.475
#2	3351.683	35904.36	2304.833	2194.639	4823.699
#3	3362.333	35120.65	2261.709	2141.855	4830.468

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-09DLX10 Acquired: 7/11/2025 2:50:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0594889**	**-.004232**	**.0011592**	**.1234624**	**.0432979**	**-.016765**	**.0143308**
Stddev	.0059978	.002673	.0009428	.0055459	.0010377	.022351	.0006233
%RSD	10.08215	63.15489	81.32918	4.491951	2.396555	133.3198	4.349161
#1	.0527839	-.001527	.0022304	.1298058	.0421207	-.042517	.0146600
#2	.0613395	-.006872	.0007918	.1195308	.0436929	-.002409	.0136119
#3	.0643432	-.004297	.0004555	.1210506	.0440801	-.005369	.0147204

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001659**	**.0106953**	**.0277793**	**.0008910**	**-.000030**	**.0045116**	**-.005649**
Stddev	.0001098	.0000258	.0206572	.0013020	.000092	.0005414	.002904
%RSD	66.17778	.2412816	74.36182	146.1185	303.1715	12.00100	51.41591
#1	.0002819	.0106715	.0284498	-.000385	-.000134	.0042494	-.007046
#2	.0000636	.0106916	.0067950	.002217	.000042	.0051342	-.002310
#3	.0001522	.0107227	.0480930	.000841	.000002	.0041511	-.007591

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002742**	**-.032775**	**.0014955**	**3.342563**	**525.1447**	**-.005299**	**10.18475**
Stddev	.0021171	.079151	.0005741	.009358	7.8670	.004276	.04819
%RSD	772.0626	241.4954	38.38588	.2799783	1.498062	80.68214	.4731859
#1	.0026864	.003938	.0015392	3.353116	519.2572	-.003116	10.21737
#2	-.000588	-.123616	.0009008	3.339300	534.0795	-.002556	10.20749
#3	-.001276	.021352	.0020465	3.335272	522.0975	-.010226	10.12940

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.1099271**	**.0165949**	**.0007896**	**2.705360**	**.0303693**	**.0370929**
Stddev	-----	.0053112	.0014125	.0000763	.141535	.0024412	.0034489
%RSD	-----	4.831562	8.511675	9.665405	5.231649	8.038419	9.298035
#1	^ -----	.1096757	.0174947	.0008122	2.852827	.0298192	.0331290
#2	^ -----	.1047460	.0173231	.0007045	2.692638	.0282501	.0387419
#3	^ -----	.1153595	.0149669	.0008520	2.570616	.0330386	.0394077

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-09DLX10 Acquired: 7/11/2025 2:50:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0042676	.0806419	.0003845
Stddev	.0087792	.0044127	.0002041
%RSD	205.7168	5.471963	53.07402
#1	.0026248	.0835673	.0003270
#2	.0137521	.0755663	.0002154
#3	-.003574	.0827922	.0006112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3140.586	29145.33	2286.544	1915.055	3957.641
Stddev	12.140	41.28	33.556	6.036	8.789
%RSD	.3865420	.1416251	1.467547	.3151849	.2220795
#1	3152.120	29102.75	2310.197	1910.918	3967.219
#2	3141.718	29148.09	2248.139	1912.266	3955.758
#3	3127.920	29185.16	2301.297	1921.981	3949.946

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-10DLX5 Acquired: 7/11/2025 2:55:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0158836**	**-.002832**	**.0011564**	**.0314131**	**.0227434**	**.0006173**
Stddev	.0022787	.003429	.0017419	.0066160	.0016755	.0133071
%RSD	14.34602	121.0681	150.6291	21.06123	7.366754	2155.557
#1	.0185122	-.003649	.0027459	.0274598	.0246671	-.013877
#2	.0144668	-.005779	.0014291	.0390510	.0216037	.012283
#3	.0146720	.000931	-.000706	.0277285	.0219594	.003446

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098444**	**.0002807**	**-.000025**	**-.006858**	**.0007544**	**-.000304**
Stddev	.0002703	.0001290	.000073	.024995	.0005231	.000238
%RSD	2.746069	45.94857	296.3492	364.4719	69.33433	78.38720
#1	.0099143	.0003425	.000054	-.032900	.0002413	-.000533
#2	.0095460	.0001325	-.000036	-.004612	.0012868	-.000058
#3	.0100730	.0003672	-.000092	.016938	.0007351	-.000320

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015001**	**.0135196**	**.0027518**	**-.042929**	**-.001311**	**.1013890**
Stddev	.0012348	.0005314	.0017199	.103017	.000547	.0061046
%RSD	82.31329	3.930770	62.50103	239.9723	41.70127	6.020924
#1	.0023086	.0140112	.0007659	.043952	-.001464	.1072979
#2	.0021130	.0135919	.0037592	-.016004	-.001765	.1017630
#3	.0000788	.0129557	.0037302	-.156734	-.000704	.0951060

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1995.260**	**-.005173**	**.0065525**	**.6744796**	**.0164390**	**.0012866**
Stddev	19.828	.005318	.0004108	.0117846	.0035755	.0016955
%RSD	.9937686	102.8103	6.269745	1.747211	21.75001	131.7819
#1	2015.202	-.008229	.0067489	.6704977	.0123135	.0013558
#2	1975.547	-.008257	.0060803	.6652019	.0183640	-.000442
#3	1995.030	.000968	.0068283	.6877394	.0186395	.002947

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-10DLX5 Acquired: 7/11/2025 2:55:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001145	F 1125.622	.1477723	.0026920	.0049593	.2372657
Stddev	.0007130	1.027	.0010296	.0011522	.0012174	.0048377
%RSD	622.7041	.0912466	.6967236	42.79960	24.54834	2.038940
#1	.0008760	1126.791	.1480402	.0035496	.0041423	.2319632
#2	-.000537	1124.866	.1466352	.0013824	.0043771	.2414388
#3	.000005	1125.208	.1486413	.0031440	.0063585	.2383952

Elem	Sr4077
Units	ppm
Avg	.0095704
Stddev	.0004126
%RSD	4.311676
#1	.0098713
#2	.0097398
#3	.0091000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2976.863	27313.02	2251.920	1812.744	3670.524
Stddev	1.742	107.53	15.098	14.799	.969
%RSD	.0585340	.3936951	.6704355	.8163930	.0263886
#1	2978.763	27274.90	2234.536	1797.072	3670.859
#2	2975.340	27229.75	2259.476	1814.682	3671.280
#3	2976.486	27434.42	2261.749	1826.479	3669.432

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-03DL2X20 Acquired: 7/11/2025 2:59:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0267328**	**-.003392**	**.0028360**	**.0667153**	**.0204631**	**.0484306**	**.0021113**
Stddev	.0022749	.002215	.0010723	.0004414	.0025300	.0059353	.0007973
%RSD	8.509854	65.29268	37.81126	.6615957	12.36367	12.25518	37.76550
#1	.0248457	-.002534	.0017879	.0662082	.0231586	.0466908	.0018277
#2	.0292589	-.005907	.0027892	.0669251	.0181398	.0435596	.0014945
#3	.0260939	-.001734	.0039310	.0670127	.0200911	.0550413	.0030116

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000357**	**.0092668**	**-.005145**	**.0013945**	**-.000018**	**.0095305**	**-.004040**
Stddev	.0002109	.0000161	.023845	.0009825	.000320	.0006852	.000962
%RSD	590.4345	.1737907	463.4380	70.45811	1800.395	7.189491	23.80804
#1	.0001503	.0092543	.018113	.0025164	-.000309	.0099259	-.004923
#2	-.000208	.0092611	-.029536	.0006878	-.000070	.0087393	-.003015
#3	.000165	.0092849	-.004013	.0009792	.000325	.0099262	-.004183

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000975**	**.0025310**	**-.000333**	**3.309008**	**430.0078**	**-.006415**	**13.24479**
Stddev	.0003186	.0236061	.000236	.080525	3.9626	.020392	.04468
%RSD	326.6503	932.6825	70.78813	2.433498	.9215288	317.8796	.3373278
#1	-.000168	.0220907	-.000599	3.392072	434.2162	.014516	13.21463
#2	.000010	.0091922	-.000147	3.303662	426.3481	-.007539	13.22363
#3	.000451	-.023690	-.000255	3.231289	429.4590	-.026223	13.29612

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**^ *****	**.0731256**	**.0092333**	**.0001733**	**10.89295**	**.1895911**	**.0287877**
Stddev	-----	.0013171	.0014347	.0009257	.03474	.0013695	.0005235
%RSD	-----	1.801180	15.53783	534.0505	.3189538	.7223442	1.818582
#1	^ -----	.0741031	.0107537	-.000840	10.87638	.1891706	.0288799
#2	^ -----	.0716278	.0090430	.000975	10.86958	.1911215	.0282242
#3	^ -----	.0736458	.0079034	.000384	10.93287	.1884811	.0292591

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2481-03DL2X20 Acquired: 7/11/2025 2:59:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0064195	.0871189	.0047679
Stddev	.0030853	.0120898	.0001477
%RSD	48.06111	13.87742	3.096766
#1	.0038678	.0934228	.0046559
#2	.0055424	.0947540	.0049352
#3	.0098484	.0731799	.0047125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3265.810	30459.19	2325.080	1981.420	4151.790
Stddev	4.534	89.26	15.586	10.178	8.351
%RSD	.1388393	.2930605	.6703305	.5136928	.2011420
#1	3261.102	30369.17	2307.115	1992.901	4147.760
#2	3270.148	30460.73	2334.994	1977.860	4161.392
#3	3266.181	30547.68	2333.130	1973.500	4146.218

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-11DLX5 Acquired: 7/11/2025 3:04:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0687596**	**.0114868**	**8.626525**	**.0563478**	**.0706094**	**25.55558**
Stddev	.0025976	.0006943	.012261	.0075861	.0029891	.04800
%RSD	3.777822	6.044536	.1421339	13.46297	4.233364	.1878328
#1	.0691494	.0122874	8.633738	.0640993	.0721411	25.60959
#2	.0659891	.0111224	8.612368	.0489387	.0671648	25.51779
#3	.0711403	.0110505	8.633470	.0560055	.0725221	25.53937

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.801505**	**.0049339**	**.0135724**	**144.1925**	**.3495219**	**.2071703**
Stddev	.012871	.0001317	.0002410	.4517	.0022504	.0004445
%RSD	.3385718	2.668863	1.775394	.3132432	.6438527	.2145623
#1	3.797619	.0048714	.0134606	144.4225	.3474829	.2066580
#2	3.815871	.0050852	.0134076	144.4828	.3491462	.2073985
#3	3.791025	.0048451	.0138489	143.6721	.3519365	.2074544

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.130453**	**263.0412**	**1.673938**	**25.65804**	**.1685912**	**.1212684**
Stddev	.012298	4.1370	.008620	.06173	.0005406	.0046610
%RSD	.3928440	1.572744	.5149351	.2405734	.3206699	3.843549
#1	3.140216	264.2527	1.672571	25.68715	.1689010	.1256333
#2	3.134501	266.4372	1.683160	25.69983	.1689056	.1218127
#3	3.116641	258.4338	1.666084	25.58714	.1679669	.1163591

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.858596**	**.1185559**	F **21.79513**	**4.678890**	**1.504553**	**.2726273**
Stddev	.031557	.0064723	.09208	.013274	.007727	.0056719
%RSD	.5386364	5.459264	.4224605	.2836934	.5135585	2.080475
#1	5.887043	.1252654	21.84949	4.682868	1.498964	.2738810
#2	5.864093	.1123503	21.84708	4.689720	1.501324	.2775674
#3	5.824652	.1180521	21.68882	4.664083	1.513371	.2664334

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-11DLX5 Acquired: 7/11/2025 3:04:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2959197**	**8.527079**	**5.336152**	**2.390583**	**1.195987**	**.0132848**
Stddev	.0004910	.021723	.028468	.001692	.007302	.0075926
%RSD	.1659329	.2547541	.5334848	.0707872	.6105793	57.15239
#1	.2961171	8.543727	5.360360	2.389134	1.188344	.0168281
#2	.2962813	8.502506	5.343305	2.390173	1.202893	.0045683
#3	.2953607	8.535003	5.304790	2.392443	1.196723	.0184579

Elem	Sr4077
Units	ppm
Avg	**.5904142**
Stddev	.0017663
%RSD	.2991600
#1	.5909878
#2	.5918223
#3	.5884324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3557.476**	**33955.29**	**2419.188**	**2146.210**	**4695.010**
Stddev	9.047	160.33	19.987	11.471	16.443
%RSD	.2542976	.4721857	.8261783	.5344777	.3502249
#1	3567.577	33988.14	2422.629	2151.995	4713.784
#2	3550.120	33781.07	2397.705	2132.998	4688.080
#3	3554.730	34096.64	2437.232	2153.637	4683.167

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-16DLX5 Acquired: 7/11/2025 3:08:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1069982**	**.0133212**	**6.706103**	**.0482893**	**.0285811**	**26.48915**
Stddev	.0008356	.0010373	.005205	.0076669	.0004892	.04090
%RSD	.7809399	7.786860	.0776116	15.87703	1.711694	.1544020
#1	.1078995	.0133691	6.710452	.0489549	.0288294	26.49578
#2	.1062493	.0122608	6.707520	.0403113	.0280175	26.44534
#3	.1068458	.0143337	6.700336	.0556017	.0288964	26.52632

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.665496**	**.0049289**	**.0138639**	**141.9261**	**.5131419**	**.2284014**
Stddev	.009046	.0001565	.0001017	.1642	.0021990	.0003742
%RSD	.3393590	3.174985	.7333464	.1156770	.4285361	.1638270
#1	2.658586	.0047784	.0138305	141.7565	.5107074	.2288307
#2	2.662166	.0049176	.0139781	141.9375	.5149841	.2282292
#3	2.675734	.0050907	.0137832	142.0843	.5137340	.2281444

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.833651**	**254.1978**	**1.835937**	**19.91275**	**.1155301**	**.0584830**
Stddev	.008449	1.1759	.007507	.17453	.0009664	.0021928
%RSD	.2981636	.4625883	.4089044	.8764565	.8364745	3.749444
#1	2.828547	255.5541	1.827696	19.88254	.1149564	.0610107
#2	2.829003	253.4647	1.842386	19.75530	.1166458	.0573473
#3	2.843403	253.5746	1.837728	20.10041	.1149880	.0570910

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.620435**	**.1161786**	F **23.85677**	**4.308588**	**2.276469**	**.1966727**
Stddev	.013955	.0020926	.02462	.015263	.012097	.0022828
%RSD	.3854423	1.801160	.1032012	.3542570	.5313768	1.160731
#1	3.614184	.1143375	23.87465	4.292214	2.288717	.1989667
#2	3.636423	.1184544	23.86698	4.322421	2.276160	.1944011
#3	3.610699	.1157440	23.82869	4.311129	2.264530	.1966503

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-16DLX5 Acquired: 7/11/2025 3:08:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500234	F 23.19793	6.370597	2.426679	1.275321	-.002216
Stddev	.0010401	.03685	.013343	.003511	.009079	.006285
%RSD	.4159861	.1588462	.2094401	.1446784	.7118875	283.6730
#1	.2507252	23.23223	6.360233	2.430531	1.275695	-.003582
#2	.2488285	23.20258	6.365907	2.425846	1.266061	-.007706
#3	.2505166	23.15897	6.385651	2.423659	1.284207	.004640

Elem	Sr4077
Units	ppm
Avg	.6923658
Stddev	.0007531
%RSD	.1087784
#1	.6915016
#2	.6927142
#3	.6928817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3578.706	34288.13	2458.908	2148.331	4721.445
Stddev	4.674	147.75	5.246	6.473	5.888
%RSD	.1305978	.4308929	.2133633	.3013056	.1247045
#1	3579.787	34291.37	2464.886	2142.497	4728.231
#2	3582.744	34138.78	2455.069	2147.201	4717.692
#3	3573.586	34434.22	2456.769	2155.294	4718.413

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV07 Acquired: 7/11/2025 3:17:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.641234**	**4.714706**	**4.670011**	**4.672621**	**4.708521**	**9.391441**	**9.536893**
Stddev	.013105	.015251	.021828	.011347	.003346	.035186	.062177
%RSD	.2823586	.3234719	.4674148	.2428442	.0710682	.3746641	.6519639
#1	4.631650	4.698915	4.651297	4.668467	4.706598	9.401590	9.577781
#2	4.635884	4.715850	4.664746	4.663936	4.706579	9.352296	9.567558
#3	4.656167	4.729352	4.693990	4.685460	4.712384	9.420437	9.465340

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2364063**	**2.334242**	**23.74515**	**.9609536**	**2.332375**	**1.178931**	**4.634404**
Stddev	.0016320	.008936	.04175	.0014479	.006605	.005905	.049401
%RSD	.6903244	.3828343	.1758124	.1506756	.2831784	.5009183	1.065964
#1	.2382747	2.326416	23.74593	.9609740	2.327881	1.185153	4.688698
#2	.2356846	2.332330	23.78650	.9623913	2.329286	1.173403	4.622407
#3	.2352597	2.343979	23.70301	.9594956	2.339958	1.178238	4.592106

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.396387**	**23.59948**	**2.320122**	**1.196335**	**24.18393**	**2.416878**	**2.383144**
Stddev	.018742	.23413	.006315	.003300	.17445	.023667	.010805
%RSD	.7821048	.9921172	.2721882	.2758537	.7213576	.9792488	.4533992
#1	2.414276	23.49616	2.314834	1.192533	24.38534	2.430676	2.389842
#2	2.397991	23.43478	2.318416	1.198015	24.08000	2.430409	2.370679
#3	2.376895	23.86750	2.327114	1.198457	24.08646	2.389550	2.388910

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.78673**	**4.701549**	**4.759130**	**4.708223**	**4.671103**	**4.756574**	**4.686549**
Stddev	.23436	.022841	.033927	.001662	.026382	.032342	.021649
%RSD	.9852706	.4858167	.7128779	.0352906	.5647832	.6799427	.4619388
#1	24.04752	4.684354	4.798291	4.707108	4.647031	4.793041	4.662178
#2	23.71892	4.692827	4.738646	4.710133	4.666971	4.731367	4.693915
#3	23.59374	4.727466	4.740452	4.707429	4.699306	4.745314	4.703553

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV07 Acquired: 7/11/2025 3:17:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.753327**	**4.753011**	**4.769916**
Stddev	.028055	.014270	.018565
%RSD	.5902136	.3002245	.3892066
#1	4.770158	4.738424	4.783644
#2	4.768881	4.753668	4.777310
#3	4.720940	4.766941	4.748793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.015**	**33823.43**	**2393.078**	**2103.009**	**4695.497**
Stddev	6.809	47.60	15.094	7.078	7.557
%RSD	.1949984	.1407435	.6307358	.3365542	.1609374
#1	3493.696	33873.67	2375.649	2102.005	4702.622
#2	3484.523	33817.63	2401.721	2110.535	4687.572
#3	3497.826	33779.00	2401.863	2096.486	4696.296

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB07 Acquired: 7/11/2025 3:26:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022878**	**-.003164**	**-.000266**	**.0026708**	**.0024136**	**-.028993**
Stddev	.0016748	.000513	.000493	.0003808	.0026182	.003065
%RSD	73.20485	16.21039	185.2966	14.25692	108.4741	10.56996
#1	.0007313	-.003063	.000302	.0022773	.0024759	-.032529
#2	.0040600	-.002710	-.000528	.0030374	-.000235	-.027351
#3	.0020721	-.003721	-.000572	.0026976	.005000	-.027099

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003029**	**-.000024**	**-.000097**	**-.010015**	**-.000142**	**-.000403**
Stddev	.000912	.000034	.000057	.007012	.000168	.000232
%RSD	30.10867	145.3033	58.41468	70.01259	118.1285	57.66918
#1	-.003312	-.000056	-.000033	-.001998	-.000334	-.000137
#2	-.003767	.000012	-.000139	-.013045	-.000021	-.000504
#3	-.002009	-.000027	-.000120	-.015003	-.000072	-.000568

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001333**	**-.003419**	**.0096275**	**.0346707**	**.0000492**	**.0045696**
Stddev	.000553	.002276	.0020447	.0507926	.0001680	.0008285
%RSD	41.46010	66.54960	21.23794	146.5000	341.1515	18.13144
#1	-.000975	-.005783	.0083653	.0443542	-.000064	.0036201
#2	-.001970	-.003232	.0085307	.0799245	.000242	.0049432
#3	-.001055	-.001243	.0119866	-.020267	-.000030	.0051456

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011774**	**-.008781**	**.0004431**	**-.008501**	**.0001938**	**.0019256**
Stddev	.011152	.004883	.0002388	.002521	.0015026	.0005837
%RSD	94.71631	55.60274	53.89093	29.65393	775.3522	30.31536
#1	-.021261	-.011907	.0005759	-.007724	-.001534	.0014662
#2	-.014571	-.011283	.0005859	-.011319	.001191	.0025824
#3	.000510	-.003155	.0001674	-.006460	.000925	.0017281

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB07 Acquired: 7/11/2025 3:26:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000051	F .0390958	-.002480	-.006484	.0069242	F -.045363
Stddev	.000411	.0036211	.000295	.000378	.0012115	.007637
%RSD	799.2897	9.262019	11.90174	5.836531	17.49644	16.83456
#1	.000290	.0388995	-.002327	-.006337	.0076809	-.052116
#2	-.000508	.0428110	-.002293	-.006200	.0075648	-.037076
#3	.000063	.0355768	-.002820	-.006914	.0055269	-.046898

Elem	Sr4077
Units	ppm
Avg	-.000158
Stddev	.000275
%RSD	174.2807
#1	-.000413
#2	.000133
#3	-.000194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.070	36308.51	2409.385	2248.552	5579.450
Stddev	7.576	91.76	3.569	4.168	11.265
%RSD	.2032018	.2527317	.1481461	.1853505	.2018989
#1	3724.184	36332.14	2409.009	2253.119	5578.466
#2	3736.800	36207.24	2406.018	2244.955	5591.175
#3	3723.226	36386.14	2413.127	2247.582	5568.710

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-14DLX5 Acquired: 7/11/2025 3:30:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0631883**	**.0119868**	**11.18022**	**.0341887**	**.1003892**	**31.37946**
Stddev	.0054851	.0013128	.02031	.0026501	.0013872	.09321
%RSD	8.680489	10.95246	.1817043	7.751328	1.381789	.2970264
#1	.0695030	.0120256	11.18227	.0311341	.0988254	31.48681
#2	.0604540	.0132798	11.19943	.0355571	.1014711	31.31916
#3	.0596078	.0106549	11.15895	.0358748	.1008713	31.33241

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9371708**	**.0045025**	**.0083915**	**163.0615**	**.1008022**	**.1407192**
Stddev	.0019003	.0000691	.0001455	.6720	.0019199	.0004047
%RSD	.2027694	1.535599	1.733714	.4120977	1.904672	.2875880
#1	.9391363	.0045405	.0085511	163.8307	.1024056	.1403291
#2	.9370329	.0045444	.0083572	162.5883	.1013264	.1406914
#3	.9353432	.0044227	.0082663	162.7656	.0986746	.1411371

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.687602**	**207.6663**	**1.315395**	**16.53467**	**.0871873**	**.0210872**
Stddev	.011547	1.3850	.007625	.05879	.0009389	.0013355
%RSD	.6842036	.6669417	.5797035	.3555370	1.076890	6.333323
#1	1.697809	206.5567	1.322356	16.47290	.0882673	.0223599
#2	1.689926	209.2185	1.316582	16.58993	.0865647	.0212051
#3	1.675070	207.2236	1.307245	16.54118	.0867300	.0196966

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.396302**	**.1076800**	**9.774089**	**3.009265**	**2.317309**	**.1238763**
Stddev	.027755	.0090268	.033950	.038597	.005963	.0030287
%RSD	1.158226	8.382943	.3473506	1.282616	.2573063	2.444914
#1	2.410610	.1091441	9.788265	3.023619	2.317262	.1213685
#2	2.413983	.0980107	9.735348	3.038630	2.323294	.1272411
#3	2.364313	.1158852	9.798654	2.965548	2.311370	.1230192

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2487-14DLX5 Acquired: 7/11/2025 3:30:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0800128	F 45.58062	2.339569	1.144911	1.221730	.0090942
Stddev	.0003003	.05796	.016911	.003356	.006916	.0017954
%RSD	.3752745	.1271643	.7228282	.2931348	.5660514	19.74215
#1	.0802919	45.58460	2.358532	1.141542	1.229044	.0093070
#2	.0796951	45.63649	2.334123	1.148254	1.215297	.0072019
#3	.0800515	45.52078	2.326052	1.144938	1.220847	.0107737

Elem	Sr4077
Units	ppm
Avg	1.011001
Stddev	.004717
%RSD	.4665641
#1	1.016375
#2	1.007547
#3	1.009080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3592.665	33892.54	2400.294	2140.436	4665.740
Stddev	13.544	92.62	14.329	6.404	12.261
%RSD	.3769981	.2732610	.5969704	.2991938	.2627914
#1	3577.585	33790.17	2387.942	2137.405	4652.759
#2	3596.615	33970.51	2396.935	2147.793	4667.337
#3	3603.795	33916.93	2416.004	2136.110	4677.124

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-21 Acquired: 7/11/2025 3:34:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010318**	**-.000530**	**.0028843**	**-.005020**	**-.000348**	**-.009418**	**.0281250**
Stddev	.002657	.001825	.0018130	.007085	.002752	.030699	.0028207
%RSD	25.75276	344.3266	62.85730	141.1402	791.3766	325.9655	10.02911
#1	-.013280	-.002127	.0016519	.000759	-.000651	-.044738	.0295078
#2	-.008145	-.000922	.0020349	-.002894	-.002936	.005627	.0248798
#3	-.009528	.001459	.0049661	-.012924	.002543	.010857	.0299875

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000224**	**.0001377**	**13.84873**	**.0002041**	**.0061013**	**.9323694**	**.0665701**
Stddev	.000081	.0000599	.03712	.0005447	.0002630	.0180670	.0012521
%RSD	36.25795	43.49088	.2680328	266.9040	4.310462	1.937748	1.880905
#1	-.000247	.0002066	13.82776	-.000417	.0060956	.9161731	.0662863
#2	-.000290	.0001091	13.89159	.000427	.0058412	.9518551	.0679398
#3	-.000133	.0000975	13.82683	.000602	.0063671	.9290800	.0654843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0180624**	**2.565855**	**.1498855**	**-.000861**	**23.20670**	**.0065435**	**1.291547**
Stddev	.0011961	.077050	.0003996	.001096	.57588	.0098101	.008194
%RSD	6.621792	3.002878	.2666166	127.2228	2.481515	149.9218	.6344199
#1	.0194423	2.496989	.1503386	-.002000	22.99364	.0152022	1.282103
#2	.0173224	2.649070	.1497345	.000185	23.85875	-.004111	1.295765
#3	.0174226	2.551507	.1495834	-.000769	22.76772	.008539	1.296773

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.253152**	**1.171846**	**.0054465**	**-.002742**	**2.022930**	**1.954940**	**-.006342**
Stddev	.035299	.003804	.0008905	.000595	.008441	.047117	.000460
%RSD	2.816813	.3246371	16.34991	21.69748	.4172561	2.410175	7.247314
#1	1.248312	1.172639	.0044941	-.002057	2.032162	1.914335	-.006275
#2	1.290622	1.167708	.0055872	-.003037	2.015608	2.006603	-.006831
#3	1.220523	1.175192	.0062584	-.003132	2.021021	1.943881	-.005920

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-21 Acquired: 7/11/2025 3:34:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0053914	-.049557	.0517945
Stddev	.0054146	.008482	.0004637
%RSD	100.4286	17.11629	.8951742
#1	.0067266	-.045411	.0519943
#2	-.000566	-.059315	.0512645
#3	.010014	-.043946	.0521248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3577.965	34736.34	2377.342	2141.161	5188.623
Stddev	6.509	111.65	45.222	.529	13.029
%RSD	.1819073	.3214221	1.902200	.0247257	.2511125
#1	3570.797	34639.72	2408.912	2141.450	5175.527
#2	3583.504	34710.73	2325.536	2140.550	5201.584
#3	3579.595	34858.57	2397.579	2141.483	5188.758

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-22 Acquired: 7/11/2025 3:39:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004633**	**.0008249**	**.0019721**	**-.004897**	**.0006842**	**-.003125**	**.0254623**
Stddev	.005459	.0013860	.0006320	.003320	.0038126	.003532	.0011230
%RSD	117.8337	168.0184	32.04889	67.80309	557.1938	113.0280	4.410385
#1	-.000319	.0005861	.0020362	-.008716	-.003248	.000939	.0254984
#2	-.002809	.0023148	.0013104	-.002700	.004365	-.005452	.0265668
#3	-.010771	-.000426	.0025696	-.003274	.000935	-.004862	.0243217

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000046**	**-.000121**	**13.44304**	**.0006598**	**.0056185**	**.1997864**	**.0669168**
Stddev	.000066	.000020	.00704	.0006144	.0003267	.0047965	.0013290
%RSD	142.4871	16.21001	.0523731	93.12152	5.814092	2.400808	1.986098
#1	-.000007	-.000141	13.43492	.0011814	.0059918	.1975334	.0657432
#2	-.000010	-.000102	13.44682	-.000017	.0054789	.2052946	.0666472
#3	-.000123	-.000120	13.44739	.000815	.0053848	.1965312	.0683600

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114569**	**2.530379**	**.0084416**	**-.000878**	**23.75627**	**-.008940**	**.0112652**
Stddev	.0019952	.067489	.0001482	.000797	.49926	.013033	.0004568
%RSD	17.41515	2.667169	1.755182	90.73300	2.101610	145.7866	4.054914
#1	.0126532	2.452533	.0082786	-.000270	23.42442	-.023756	.0117279
#2	.0091536	2.566169	.0084782	-.001780	24.33045	.000753	.0108146
#3	.0125640	2.572436	.0085681	-.000584	23.51393	-.003817	.0112531

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265944**	**1.371542**	**.0036873**	**-.002719**	**2.026487**	**1.991748**	**-.007499**
Stddev	.028941	.004046	.0033289	.000283	.002678	.048907	.001048
%RSD	2.286119	.2949989	90.28208	10.39220	.1321640	2.455502	13.98059
#1	1.244836	1.373399	.0075095	-.002878	2.024570	1.960608	-.008702
#2	1.298936	1.366901	.0021294	-.002392	2.025344	2.048119	-.006783
#3	1.254061	1.374326	.0014229	-.002885	2.029547	1.966519	-.007011

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-22 Acquired: 7/11/2025 3:39:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0021693	-.052990	.0493149
Stddev	.0046961	.006006	.0001268
%RSD	216.4798	11.33523	.2570762
#1	.0031408	-.046100	.0493203
#2	-.002937	-.057124	.0491855
#3	.006304	-.055745	.0494389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3616.459	34995.42	2365.381	2174.631	5234.712
Stddev	1.385	73.40	57.910	7.547	7.682
%RSD	.0383079	.2097365	2.448248	.3470604	.1467565
#1	3617.089	34911.27	2388.636	2167.789	5225.866
#2	3614.870	35028.73	2299.458	2173.377	5239.707
#3	3617.417	35046.26	2408.048	2182.727	5238.563

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-23 Acquired: 7/11/2025 3:43:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001942**	**-.000529**	**.0042529**	**-.002865**	**.0020102**	**.0074375**	**.0277479**
Stddev	.002595	.001614	.0031830	.002189	.0049624	.0158880	.0011213
%RSD	133.5929	305.1700	74.84219	76.38294	246.8646	213.6202	4.040888
#1	.000380	.000700	.0041680	-.003712	.0008100	-.001158	.0265730
#2	-.001463	.000070	.0074775	-.000380	.0074626	.025771	.0288065
#3	-.004743	-.002357	.0011133	-.004504	-.002242	-.002301	.0278642

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000135**	**-.000098**	**13.83306**	**.0011707**	**.0057516**	**.2350333**	**.0896138**
Stddev	.000113	.000032	.07595	.0004174	.0001915	.0037109	.0016742
%RSD	83.29275	32.85283	.5490256	35.65043	3.329859	1.578868	1.868267
#1	-.000045	-.000083	13.92048	.0007118	.0059663	.2378924	.0880366
#2	-.000099	-.000135	13.79546	.0012729	.0055984	.2363677	.0894342
#3	-.000261	-.000076	13.78325	.0015275	.0056902	.2308397	.0913706

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0268402**	**2.545667**	**.0095698**	**-.001137**	**24.33848**	**.0002406**	**.0212648**
Stddev	.0023635	.074800	.0003652	.000699	.23019	.0045499	.0007218
%RSD	8.805854	2.938319	3.815832	61.50368	.9457982	1891.229	3.394161
#1	.0286678	2.606260	.0099753	-.001589	24.58513	-.003508	.0208397
#2	.0241711	2.568674	.0094674	-.001489	24.30096	.005303	.0208566
#3	.0276818	2.462066	.0092669	-.000331	24.12935	-.001073	.0220982

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.308558**	**1.405735**	**.0025655**	**-.003049**	**2.093181**	**2.069717**	**.0041037**
Stddev	.012316	.002700	.0004028	.000265	.004027	.018394	.0005194
%RSD	.9412199	.1920819	15.70172	8.676171	.1923947	.8887098	12.65709
#1	1.322257	1.408837	.0029750	-.003337	2.092674	2.082018	.0046975
#2	1.305017	1.403912	.0025516	-.002992	2.089432	2.078561	.0038801
#3	1.298400	1.404456	.0021697	-.002818	2.097438	2.048572	.0037336

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-23 Acquired: 7/11/2025 3:43:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0083386	-.055758	.0506255
Stddev	.0026870	.003393	.0002778
%RSD	32.22346	6.085005	.5487880
#1	.0076434	-.053465	.0503073
#2	.0113049	-.059655	.0507492
#3	.0060676	-.054153	.0508200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3613.744	35001.18	2362.629	2174.895	5223.614
Stddev	12.231	195.36	14.018	12.022	14.651
%RSD	.3384527	.5581453	.5933107	.5527642	.2804803
#1	3617.855	35195.78	2355.370	2187.450	5224.106
#2	3623.389	35002.67	2353.730	2173.746	5238.014
#3	3599.987	34805.08	2378.788	2163.488	5208.724

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168771BL Acquired: 7/11/2025 3:48:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010826**	**-.002667**	**-.000467**	**.0040606**	**.0024083**	**-.025752**
Stddev	.0032718	.000414	.000558	.0006305	.0036462	.036781
%RSD	302.2157	15.50698	119.3288	15.52823	151.3996	142.8305
#1	.0045337	-.002759	-.000951	.0038617	.0061219	-.025024
#2	-.001974	-.003026	-.000594	.0047666	.0022697	.010660
#3	.000688	-.002215	.000143	.0035535	-.001167	-.062892

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002151**	**.0000682**	**-.000102**	**.0057305**	**.0006377**	**.0001650**
Stddev	.001875	.0002020	.000025	.0383432	.0007534	.0001482
%RSD	87.13999	296.2700	24.25292	669.1086	118.1420	89.80498
#1	-.000097	-.000093	-.000078	-.000846	.0000570	.0003264
#2	-.003769	.000295	-.000099	-.028899	.0003670	.0001333
#3	-.002589	.000002	-.000127	.046936	.0014891	.0000352

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000790**	**-.005701**	**.0008711**	**-.016919**	**-.000511**	F **.0163174**
Stddev	.000625	.003431	.0018777	.020461	.000250	.0012607
%RSD	79.15274	60.17781	215.5524	120.9364	48.82250	7.726220
#1	-.000470	-.009530	-.000551	-.004873	-.000239	.0177677
#2	-.000389	-.004666	.002999	-.005339	-.000566	.0154837
#3	-.001510	-.002907	.000165	-.040544	-.000729	.0157007

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011048**	**.0038380**	**.0014714**	**.0162221**	**-.000265**	**-.007731**
Stddev	.006522	.0014845	.0000615	.0002618	.001506	.001155
%RSD	59.03701	38.67875	4.178828	1.614081	568.1114	14.94473
#1	-.003672	.0021242	.0015403	.0159209	.000674	-.007266
#2	-.013418	.0047238	.0014517	.0163499	-.002002	-.006880
#3	-.016053	.0046661	.0014221	.0163955	.000533	-.009046

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168771BL Acquired: 7/11/2025 3:48:04 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000187	F .0499741	-.003298	-.005567	.0012245	F -.034926
Stddev	.000565	.0038828	.001421	.001147	.0080384	.004078
%RSD	301.4367	7.769714	43.08541	20.59602	656.4496	11.67765
#1	-.000714	.0510360	-.002324	-.006677	-.008010	-.030382
#2	.000410	.0532155	-.002641	-.004387	.005031	-.038270
#3	-.000258	.0456708	-.004928	-.005637	.006653	-.036125

Elem	Sr4077
Units	ppm
Avg	-.000328
Stddev	.000238
%RSD	72.75048
#1	-.000483
#2	-.000053
#3	-.000446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3656.035	35199.51	2355.137	2199.427	5421.516
Stddev	9.648	85.58	9.885	6.155	8.842
%RSD	.2638911	.2431241	.4197143	.2798585	.1630844
#1	3650.150	35292.02	2345.255	2197.844	5414.557
#2	3667.170	35123.17	2355.133	2194.217	5431.465
#3	3650.786	35183.33	2365.024	2206.219	5418.526

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168771BS Acquired: 7/11/2025 3:52:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7203884**	**1.990545**	**.9491558**	**1.945627**	**.7766234**	**2.010171**
Stddev	.0047149	.002984	.0026014	.004389	.0036893	.016480
%RSD	.6544929	.1498844	.2740776	.2255799	.4750389	.8198273
#1	.7191146	1.987137	.9464192	1.943286	.7794230	2.027863
#2	.7164413	1.991809	.9515968	1.942905	.7724429	1.995256
#3	.7256094	1.992688	.9494514	1.950690	.7780043	2.007393

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2044426**	**.2123425**	**.1888695**	**1.000340**	**.4155421**	**.1938499**
Stddev	.0011648	.0010644	.0000805	.029033	.0013362	.0003237
%RSD	.5697293	.5012764	.0426004	2.902325	.3215664	.1669926
#1	.2041250	.2134302	.1888388	.980287	.4142387	.1942209
#2	.2057332	.2122943	.1888090	.987100	.4154787	.1936245
#3	.2034695	.2113030	.1889608	1.033633	.4169089	.1937045

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3308797**	**3.387282**	**.2099928**	**2.078478**	**.4840728**	F **.0860080**
Stddev	.0015022	.017766	.0033460	.061286	.0006082	.0008006
%RSD	.4540134	.5244781	1.593402	2.948602	.1256503	.9308960
#1	.3319606	3.406052	.2138562	2.013962	.4838792	.0860196
#2	.3291643	3.385064	.2080217	2.135921	.4835849	.0852017
#3	.3315141	3.370729	.2081005	2.085550	.4847543	.0868028

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.290175**	**.3112877**	**.2095032**	**9.754514**	**5.517638**	**.3058371**
Stddev	.036120	.0056908	.0010932	.183642	.007310	.0013905
%RSD	1.097805	1.828135	.5217853	1.882636	.1324848	.4546395
#1	3.312803	.3092037	.2095109	9.965002	5.513647	.3042316
#2	3.248519	.3177266	.2084062	9.627012	5.526074	.3066452
#3	3.309203	.3069326	.2105924	9.671528	5.513191	.3066347

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: PB168771BS Acquired: 7/11/2025 3:52:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3837835	F .0376341	.9521652	.6511508	.1958716	.1821934
Stddev	.0007092	.0011614	.0032949	.0006874	.0003872	.0070171
%RSD	.1847856	3.086076	.3460442	.1055667	.1976906	3.851436
#1	.3846020	.0384317	.9559469	.6518163	.1960854	.1875580
#2	.3833948	.0381688	.9499133	.6504434	.1961048	.1742523
#3	.3833536	.0363016	.9506354	.6511926	.1954247	.1847699

Elem	Sr4077
Units	ppm
Avg	.2052294
Stddev	.0005668
%RSD	.2762002
#1	.2056050
#2	.2055058
#3	.2045773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3652.766	35081.37	2375.725	2197.660	5242.467
Stddev	8.891	149.48	2.022	9.013	11.251
%RSD	.2433931	.4261075	.0851304	.4101371	.2146146
#1	3645.932	35233.87	2373.391	2206.769	5232.971
#2	3662.817	35075.14	2376.952	2197.464	5254.893
#3	3649.547	34935.09	2376.833	2188.746	5239.536

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-01 Acquired: 7/11/2025 3:56:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004056**	**-.002762**	**-.003646**	**-.000950**	**.0039018**	**-.021509**	**.0264044**
Stddev	.001662	.001458	.001943	.003860	.0012409	.015976	.0009217
%RSD	40.98862	52.80944	53.29459	406.2065	31.80253	74.27750	3.490766
#1	-.004422	-.001089	-.001664	.003492	.0024783	-.005478	.0260939
#2	-.002241	-.003767	-.005547	-.003490	.0047553	-.037430	.0256780
#3	-.005504	-.003429	-.003726	-.002853	.0044717	-.021617	.0274412

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**-.000104**	**13.14440**	**.0004086**	**.0059308**	**5.286944**	**.0361643**
Stddev	.000118	.000121	.02212	.0010775	.0008699	.013596	.0000576
%RSD	139.7145	117.0482	.1682546	263.7295	14.66674	.2571631	.1591526
#1	-.000128	-.000007	13.13350	.0008869	.0052513	5.298995	.0361157
#2	-.000174	-.000064	13.16985	-.000825	.0056300	5.289631	.0362279
#3	.000049	-.000240	13.12986	.001164	.0069112	5.272205	.0361495

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063741**	**2.316092**	**.1453402**	**-.000615**	**25.02943**	**-.002675**	**.0544657**
Stddev	.0035446	.028587	.0011449	.001176	.61254	.010385	.0009500
%RSD	55.61024	1.234273	.7877110	191.2232	2.447287	388.2591	1.744298
#1	.0095298	2.301629	.1441153	.000359	24.66141	.007579	.0555331
#2	.0025389	2.297627	.1455223	-.000283	25.73654	-.013185	.0537128
#3	.0070535	2.349021	.1463832	-.001922	24.69035	-.002418	.0541512

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.340041**	**.6512624**	**.0046967**	**-.002148**	**2.000707**	**1.927436**	**-.007103**
Stddev	.050155	.0233913	.0023559	.000148	.087217	.006756	.000990
%RSD	3.742817	3.591689	50.16146	6.874536	4.359306	.3505417	13.93466
#1	1.316431	.6242655	.0047167	-.002282	1.900014	1.925915	-.005960
#2	1.397644	.6654891	.0070427	-.002172	2.049495	1.934824	-.007683
#3	1.306047	.6640325	.0023309	-.001990	2.052614	1.921570	-.007665

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-01 Acquired: 7/11/2025 3:56:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001667	-.053852	.0500204
Stddev	.003134	.007656	.0005381
%RSD	188.0735	14.21624	1.075735
#1	-.003995	-.060805	.0506282
#2	.001897	-.055104	.0498285
#3	-.002901	-.045647	.0496046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3476.969	34440.70	2356.571	2138.582	4973.691
Stddev	80.840	146.98	5.903	6.021	148.995
%RSD	2.325028	.4267516	.2505088	.2815481	2.995665
#1	3570.137	34610.26	2355.630	2145.255	5145.551
#2	3425.395	34362.05	2351.194	2136.934	4880.866
#3	3435.374	34349.78	2362.888	2133.556	4894.655

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-02 Acquired: 7/11/2025 4:01:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007386	-.002121	.0017060	-.006977	.0023837	-.003051	.0300125
Stddev	.002635	.003365	.0026518	.004101	.0013282	.026735	.0014682
%RSD	35.67608	158.7074	155.4399	58.77963	55.71996	876.2041	4.891941
#1	-.004366	.001495	-.001048	-.010852	.0026048	-.007746	.0315976
#2	-.009213	-.002694	.001923	-.002682	.0009589	-.027127	.0286992
#3	-.008581	-.005162	.004242	-.007397	.0035875	.025720	.0297407

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000522	-.000079	14.16386	.0006010	.0061541	.9227315	.0717152
Stddev	.0001211	.000074	.02416	.0002431	.0003963	.0426954	.0069895
%RSD	232.2464	93.17717	.1705472	40.44676	6.439605	4.627066	9.746185
#1	.0001608	-.000115	14.13862	.0003339	.0058241	.9468976	.0732219
#2	-.000078	-.000128	14.16620	.0006599	.0065936	.9478626	.0778284
#3	.000074	.000006	14.18676	.0008092	.0060445	.8734342	.0640952

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0235602	2.638552	.0542913	.0005997	24.74270	.0029425	.0166765
Stddev	.0016119	.132092	.0013696	.0003371	.26522	.0074589	.0005529
%RSD	6.841445	5.006230	2.522587	56.22098	1.071900	253.4852	3.315460
#1	.0251512	2.532388	.0543500	.0003953	24.54086	.0109175	.0164204
#2	.0236011	2.786477	.0528934	.0004149	24.64417	-.003862	.0162981
#3	.0219283	2.596792	.0556306	.0009888	25.04308	.001772	.0173111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.8856433	.0029616	-.002539	2.197658	2.080178	-.006448
Stddev	-----	.0339811	.0019780	.000595	.103536	.070073	.000258
%RSD	-----	3.836879	66.78586	23.45230	4.711210	3.368626	3.995232
#1	1.333924	.8466488	.0049288	-.003173	2.081399	2.120362	-.006305
#2	1.350978	.9089202	.0009731	-.001991	2.279925	2.120906	-.006745
#3	^ -----	.9013608	.0029830	-.002452	2.231650	1.999264	-.006293

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-02 Acquired: 7/11/2025 4:01:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0025149	-.050403	.0542156
Stddev	.0006296	.001794	.0004163
%RSD	25.03464	3.558341	.7678855
#1	.0032411	-.048780	.0537914
#2	.0021236	-.050102	.0542319
#3	.0021799	-.052329	.0546236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3413.657	32893.51	2332.119	2072.078	4918.805
Stddev	127.204	1849.03	14.642	71.235	206.635
%RSD	3.726338	5.621273	.6278450	3.437866	4.200917
#1	3528.430	33870.58	2320.542	2120.501	5121.452
#2	3276.889	34049.04	2327.236	2105.450	4708.401
#3	3435.653	30760.92	2348.579	1990.283	4926.563

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-03 Acquired: 7/11/2025 4:05:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006832**	**-.001504**	**.0032525**	**-.002630**	**.0030918**	**.1539091**	**.0030731**
Stddev	.003432	.001039	.0004170	.002414	.0012879	.0498141	.0018736
%RSD	50.23332	69.08517	12.81939	91.80924	41.65639	32.36592	60.96671
#1	-.005201	-.000589	.0029622	-.001989	.0016262	.0975741	.0048028
#2	-.004520	-.001288	.0030651	-.000600	.0036061	.1720157	.0033336
#3	-.010775	-.002633	.0037303	-.005300	.0040431	.1921374	.0010829

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000010**	**-.000071**	**16.19382**	**.0010381**	**.0066106**	**.0618149**	**.0208062**
Stddev	.000156	.000058	.02923	.0006356	.0002420	.0012867	.0043149
%RSD	1529.619	81.11459	.1805258	61.22486	3.660412	2.081580	20.73857
#1	-.000040	-.000119	16.16127	.0011609	.0068657	.0632999	.0234518
#2	.000159	-.000007	16.21785	.0003501	.0063843	.0610321	.0158270
#3	-.000149	-.000087	16.20235	.0016033	.0065819	.0611126	.0231397

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044906**	**.2236730**	**-.001221**	**-.001466**	**5.467583**	**.0013776**	**.0236030**
Stddev	.0029381	.0457038	.000546	.000378	.053362	.0098114	.0002227
%RSD	65.42718	20.43333	44.70982	25.81976	.9759685	712.1921	.9435806
#1	.0078828	.1777897	-.001823	-.001880	5.501448	.0087557	.0233896
#2	.0027502	.2240340	-.000760	-.001139	5.406070	.0051342	.0238340
#3	.0028388	.2691953	-.001079	-.001378	5.495229	-.009757	.0235853

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6117551**	**.1483248**	**.0044069**	**-.002564**	**.3083149**	**.1733507**	**-.006566**
Stddev	.0068169	.0019682	.0014194	.000392	.0010297	.0062381	.001411
%RSD	1.114314	1.326974	32.20753	15.27766	.3339734	3.598511	21.49032
#1	.6149238	.1498483	.0037229	-.002650	.3089000	.1780332	-.005213
#2	.6039306	.1490235	.0034591	-.002136	.3071260	.1757497	-.006457
#3	.6164109	.1461025	.0060387	-.002906	.3089188	.1662693	-.008028

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-03 Acquired: 7/11/2025 4:05:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0041161	-.046936	.0405206
Stddev	.0044173	.002911	.0002773
%RSD	107.3158	6.202655	.6842762
#1	.0025362	-.046106	.0406331
#2	.0091061	-.044530	.0402047
#3	.0007061	-.050172	.0407239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3640.560	35146.37	2367.486	2180.392	5344.955
Stddev	7.512	247.13	5.418	13.350	8.958
%RSD	.2063390	.7031465	.2288681	.6122556	.1675972
#1	3647.007	35369.34	2370.918	2187.288	5346.968
#2	3632.311	34880.65	2361.239	2165.005	5335.162
#3	3642.361	35189.12	2370.300	2188.883	5352.735

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04 Acquired: 7/11/2025 4:10:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004088**	**-.000363**	**.0036126**	**-.002647**	**.0014650**	**1.027130**	**.0232192**
Stddev	.002394	.001129	.0007789	.005509	.0004882	.020847	.0008567
%RSD	58.55991	311.2089	21.55988	208.1794	33.32543	2.029594	3.689485
#1	-.006848	-.000052	.0027885	.002468	.0012479	1.050158	.0241332
#2	-.002592	.000578	.0037128	-.001927	.0020241	1.021684	.0224346
#3	-.002823	-.001615	.0043365	-.008480	.0011230	1.009546	.0230897

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000029**	**-.000181**	**13.30530**	**-.000408**	**.0058181**	**.6449374**	**.0618343**
Stddev	.000209	.000057	.12951	.000683	.0002496	.0040185	.0024775
%RSD	728.2679	31.72566	.9733531	167.2751	4.290444	.6230891	4.006709
#1	.000211	-.000116	13.44467	-.001007	.0059819	.6403143	.0594386
#2	-.000130	-.000200	13.28255	-.000553	.0059415	.6469035	.0643862
#3	-.000167	-.000226	13.18867	.000335	.0055308	.6475942	.0616781

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0313460**	**2.489398**	**.0002443**	**.0005817**	**24.22880**	**-.000262**	**.0838571**
Stddev	.0014082	.061603	.0003294	.0026319	1.81856	.009555	.0008349
%RSD	4.492427	2.474624	134.8336	452.4306	7.505778	3651.148	.9955873
#1	.0306896	2.560380	.0004790	-.000002	26.31412	.003427	.0845668
#2	.0329626	2.457911	.0003861	-.001709	23.39995	-.011111	.0840674
#3	.0303859	2.449902	-.000132	.003456	22.97231	.006900	.0829372

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**1.098171**	**.0020728**	**-.002970**	**2.012792**	**2.007976**	**-.005052**
Stddev	-----	.015036	.0004185	.000303	.027086	.007876	.000945
%RSD	-----	1.369217	20.18967	10.20577	1.345717	.3922373	18.70186
#1	^ -----	1.086825	.0025146	-.002890	2.004248	2.016584	-.004182
#2	1.233027	1.092463	.0016824	-.003305	1.991007	2.006214	-.004917
#3	1.209361	1.115226	.0020213	-.002715	2.043120	2.001130	-.006057

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-04 Acquired: 7/11/2025 4:10:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0043932	-.051203	.0492652
Stddev	.0028570	.003444	.0001697
%RSD	65.03352	6.726442	.3444783
#1	.0035146	-.053151	.0493307
#2	.0075863	-.053232	.0493924
#3	.0020786	-.047227	.0490725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3596.112	34614.07	2347.720	2155.272	5196.025
Stddev	21.308	650.90	17.762	17.171	11.153
%RSD	.5925358	1.880453	.7565764	.7966905	.2146503
#1	3580.662	33944.57	2337.497	2157.669	5188.203
#2	3587.254	34653.01	2337.433	2137.028	5191.075
#3	3620.421	35244.63	2368.230	2171.118	5208.796

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV08 Acquired: 7/11/2025 4:18:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.786593**	**4.793358**	**4.816982**	**4.724857**	**4.758633**	**9.522748**	**9.729750**
Stddev	.009383	.008916	.014041	.011622	.012736	.045321	.013775
%RSD	.1960182	.1860047	.2914883	.2459853	.2676332	.4759277	.1415745
#1	4.785346	4.783285	4.801955	4.714195	4.751250	9.486014	9.714659
#2	4.777895	4.800235	4.819227	4.723129	4.751309	9.508835	9.732940
#3	4.796536	4.796556	4.829766	4.737247	4.773339	9.573395	9.741649

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2444227**	**2.400811**	**23.82044**	**.9871037**	**2.387724**	**1.224973**	**4.781406**
Stddev	.0002932	.004916	.09134	.0047208	.003400	.001545	.009369
%RSD	.1199590	.2047563	.3834581	.4782509	.1423932	.1260854	.1959548
#1	.2445241	2.395858	23.87189	.9816660	2.386016	1.223399	4.783348
#2	.2446517	2.400885	23.71498	.9894907	2.385516	1.226486	4.789652
#3	.2440922	2.405689	23.87446	.9901544	2.391639	1.225036	4.771217

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.430055**	**23.71485**	**2.366805**	**1.219993**	**26.77094**	**2.466190**	**2.444567**
Stddev	.009777	.06778	.002790	.003431	.10307	.010409	.008975
%RSD	.4023410	.2858282	.1178881	.2812252	.3849920	.4220878	.3671316
#1	2.418783	23.67280	2.365039	1.216642	26.65426	2.460854	2.434886
#2	2.435146	23.79304	2.365354	1.219837	26.84958	2.459530	2.446203
#3	2.436236	23.67870	2.370021	1.223499	26.80898	2.478185	2.452611

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.58871**	**4.838759**	**4.960511**	**4.740369**	**4.771811**	**4.986514**	**4.816493**
Stddev	.17177	.016235	.008478	.012941	.016921	.014972	.007056
%RSD	.6460082	.3355288	.1709168	.2730031	.3545996	.3002436	.1465038
#1	26.73986	4.820179	4.953873	4.732009	4.755348	4.973941	4.808347
#2	26.40192	4.845885	4.957598	4.733821	4.770930	4.982524	4.820716
#3	26.62434	4.850212	4.970062	4.755275	4.789155	5.003076	4.820417

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV08 Acquired: 7/11/2025 4:18:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.819902**	**4.755408**	**4.842905**
Stddev	.009191	.009508	.005650
%RSD	.1906901	.1999455	.1166681
#1	4.811617	4.752500	4.838031
#2	4.818299	4.747693	4.841585
#3	4.829788	4.766031	4.849098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3493.868**	**33272.54**	**2314.934**	**2094.767**	**4648.682**
Stddev	6.874	138.85	8.738	6.439	9.826
%RSD	.1967447	.4173139	.3774624	.3073869	.2113685
#1	3492.049	33169.62	2305.595	2087.814	4644.218
#2	3501.468	33430.47	2322.911	2095.962	4659.948
#3	3488.085	33217.54	2316.295	2100.525	4641.881

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB08 Acquired: 7/11/2025 4:27:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002924**	**-.003247**	**.0002745**	**.0017807**	**-.000238**	**-.010420**
Stddev	.0011959	.001675	.0012670	.0020227	.002674	.014091
%RSD	408.9154	51.58562	461.5955	113.5885	1125.182	135.2376
#1	-.001022	-.004759	.0004238	-.000527	-.002463	-.023253
#2	.000584	-.003534	-.001061	.003246	-.000977	.004660
#3	.001316	-.001447	.001460	.002623	.002728	-.012666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001326**	**.0001703**	**-.000067**	**-.010786**	**.0003815**	**.0000950**
Stddev	.000622	.0000504	.000036	.036749	.0002499	.0001893
%RSD	46.91642	29.60079	54.22686	340.7072	65.49978	199.1701
#1	-.001702	.0002285	-.000086	-.018933	.0002699	-.000014
#2	-.000608	.0001438	-.000090	.029353	.0002068	-.000014
#3	-.001669	.0001387	-.000025	-.042777	.0006677	.000314

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000608**	**-.003849**	**.0005469**	**.0060491**	**-.000621**	**.0060600**
Stddev	.000945	.001785	.0015322	.0818568	.000470	.0011223
%RSD	155.3163	46.36501	280.1516	1353.218	75.79993	18.51995
#1	.000479	-.003684	.0013975	.0908887	-.000890	.0053663
#2	-.001229	-.005710	-.001222	-.000285	-.000077	.0073548
#3	-.001075	-.002152	.001465	-.072457	-.000894	.0054588

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.028249**	**-.004006**	**-.000281**	**.0134168**	**-.000867**	**.0017322**
Stddev	.015647	.003472	.000241	.0022239	.001675	.0009761
%RSD	55.38966	86.67699	85.89117	16.57583	193.3156	56.34862
#1	-.014408	-.006305	-.000403	.0157722	.000967	.0014254
#2	-.045227	-.000012	-.000003	.0131249	-.001249	.0028248
#3	-.025111	-.005700	-.000435	.0113532	-.002318	.0009464

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB08 Acquired: 7/11/2025 4:27:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000388	F .0225866	-.002744	-.005930	.0036207	F -.041760
Stddev	.000077	.0037576	.002156	.000759	.0010661	.006307
%RSD	19.76913	16.63648	78.55791	12.80768	29.44410	15.10234
#1	-.000350	.0235844	-.003456	-.005296	.0044997	-.048352
#2	-.000476	.0257447	-.000323	-.005721	.0039276	-.041144
#3	-.000338	.0184308	-.004454	-.006772	.0024349	-.035783

Elem	Sr4077
Units	ppm
Avg	-.000353
Stddev	.000170
%RSD	48.08351
#1	-.000168
#2	-.000501
#3	-.000390

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3556.142	34281.98	2335.934	2142.446	5267.249
Stddev	7.560	123.86	5.616	11.945	4.488
%RSD	.2125981	.3613062	.2404329	.5575262	.0852082
#1	3554.184	34395.68	2342.391	2148.087	5262.750
#2	3564.489	34300.28	2333.233	2150.525	5267.271
#3	3549.754	34149.99	2332.179	2128.725	5271.726

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-05 Acquired: 7/11/2025 4:31:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002727**	**-.002148**	**.0037186**	**.0020783**	**.0013191**	**.0124145**	**.0289816**
Stddev	.004672	.000806	.0012672	.0033949	.0035306	.0274410	.0011919
%RSD	171.3535	37.54349	34.07715	163.3530	267.6470	221.0411	4.112684
#1	.000232	-.002202	.0022691	-.001775	-.001080	.0393738	.0277969
#2	-.008113	-.001316	.0046166	.004630	-.000336	-.015484	.0301806
#3	-.000299	-.002926	.0042701	.003379	.005373	.013354	.0289673

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000110**	**-.000080**	**13.30077**	**.0008062**	**.0059484**	**.4437156**	**.0720744**
Stddev	.0001649	.000047	.01507	.0007485	.0000784	.0083539	.0040206
%RSD	1492.137	59.24727	.1133021	92.85200	1.318287	1.882719	5.578391
#1	-.000111	-.000027	13.28419	.0011206	.0059035	.4469857	.0735662
#2	.000199	-.000096	13.30446	.0013462	.0060390	.4499398	.0751358
#3	-.000054	-.000117	13.31364	-.000048	.0059027	.4342213	.0675211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0151234**	**2.511714**	**.0580282**	**-.000650**	**24.88695**	**.0033146**	**.0477208**
Stddev	.0013246	.062840	.0005434	.000527	1.41493	.0098188	.0007033
%RSD	8.758608	2.501860	.9364026	81.07129	5.685415	296.2295	1.473857
#1	.0152260	2.582866	.0581857	-.000102	23.26527	.0075733	.0480579
#2	.0137505	2.463814	.0584755	-.000697	25.86995	.0102851	.0469123
#3	.0163937	2.488462	.0574235	-.001153	25.52562	-.007915	.0481921

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**1.370633**	**.0063900**	**-.002756**	**2.028156**	**1.898169**	**-.006416**
Stddev	-----	.030674	.0017055	.000282	.045301	.025937	.000305
%RSD	-----	2.237941	26.69030	10.24536	2.233610	1.366425	4.760565
#1	1.237950	1.398966	.0059598	-.003079	2.072298	1.897304	-.006121
#2	1.462464	1.374873	.0082694	-.002633	2.030389	1.924528	-.006731
#3	^ -----	1.338059	.0049407	-.002557	1.981779	1.872676	-.006395

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-05 Acquired: 7/11/2025 4:31:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0020305	-.053532	.0508485
Stddev	.0032632	.002023	.0002789
%RSD	160.7108	3.778709	.5484397
#1	.0002492	-.052450	.0505542
#2	.0000456	-.052281	.0511088
#3	.0057967	-.055866	.0508826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3491.196	33400.41	2332.115	2114.457	5038.947
Stddev	71.397	719.55	7.882	35.095	112.602
%RSD	2.045068	2.154307	.3379780	1.659775	2.234638
#1	3410.354	33827.01	2332.306	2104.479	4915.570
#2	3517.617	33804.57	2324.139	2153.460	5065.099
#3	3545.616	32569.65	2339.900	2085.430	5136.173

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-06 Acquired: 7/11/2025 4:36:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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 -.002715	s -.004424	s .0020010	s -.006861	s .0039619	k .2314268	.0283278
Stddev	.002989	.001736	.0010768	.004204	.0012835	.0035311	.0005573
%RSD	110.0817	39.23453	53.81467	61.28045	32.39649	1.525783	1.967322
#1	-.003817	-.005521	.0026127	-.002672	.0031181	.2278887	.0282392
#2	.000668	k -.005327	.0007576	-.006831	k .0033287	.2314410	.0278201
#3	s -.004997	s -.002423	s .0026327	s -.011081	s .0054390	k .2349508	.0289241

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0000646	s -.000023	14.01311	s .0017002	s .0062607	k .4369590	.0710339
Stddev	.0003081	.000118	.05283	.0016453	.0002040	.0136679	.0043314
%RSD	477.0588	511.1331	.3770134	96.77528	3.257733	3.127956	6.097594
#1	.0001029	.000101	13.95226	.0013884	.0060274	.4432185	.0708705
#2	.0003517	-.000134	14.04723	s .0034790	.0064054	.4212824	.0667865
#3	k -.000261	s -.000036	14.03985	k .0002330	s .0063492	k .4463762	.0754446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0265234	2.652175	s .0239558	s .0000834	24.71462	k -.000519	k .0353286
Stddev	.0018310	.031408	.0011739	.0034124	1.49954	.004841	.0011174
%RSD	6.903287	1.184218	4.900409	4088.954	6.067435	933.2788	3.162740
#1	.0244636	2.636691	.0231718	-.002636	26.29047	-.006056	.0344076
#2	.0271407	2.631515	.0233901	s .003913	23.30529	k .001589	.0365715
#3	k .0279660	2.688318	s .0253055	k -.001026	24.54809	k .002911	k .0350065

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.397688	s 1.344691	k .0041392	s -.002631	s 2.130185	k 1.982471	s -.006353
Stddev	.092495	.011832	.0023947	.000632	.025755	.054176	.000687
%RSD	6.617719	.8799418	57.85582	24.02077	1.209054	2.732773	10.81336
#1	1.502611	1.333693	.0056546	-.001927	2.104581	2.019093	-.006337
#2	1.362512	1.357211	k .0013783	-.002817	2.156089	1.920237	-.005675
#3	1.327942	s 1.343170	k .0053845	s -.003149	s 2.129885	k 2.008082	s -.007048

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-06 Acquired: 7/11/2025 4:36:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k .0051413	-.052385	.0521570
Stddev	.0059727	.005435	.0001993
%RSD	116.1700	10.37500	.3820758
#1	.0118535	-.056561	.0522609
#2	.0004132	-.054354	.0522828
#3	k .0031572	-.046240	.0519272

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	^ *****	2294.690	2050.960	^ *****
Stddev	-----	-----	106.634	179.950	-----
%RSD	-----	-----	4.647000	8.773927	-----
#1	3561.200	33948.32	2347.976	2156.006	5119.646
#2	3373.492	^ -----	2171.915	1843.176	4858.534
#3	^ -----	34398.68	2364.179	2153.697	^ -----

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-07 Acquired: 7/11/2025 4:40:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005773**	**-.001074**	**.0040038**	**.0001383**	**.0002697**	**2.792929**	**.0241954**
Stddev	.002185	.001156	.0027244	.0033992	.0019164	.051752	.0011761
%RSD	37.85864	107.5990	68.04595	2458.214	710.7031	1.852954	4.860969
#1	-.008107	-.002407	.0070738	-.003130	-.001650	2.788812	.0249785
#2	-.005435	-.000466	.0018742	.003654	.000276	2.846616	.0228429
#3	-.003776	-.000349	.0030633	-.000109	.002183	2.743359	.0247647

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000183**	**-.000093**	**12.95741**	**.0006856**	**.0057372**	**1.132265**	**.1729005**
Stddev	.000012	.000039	.05154	.0007120	.0000954	.001542	.0022555
%RSD	6.628677	41.85428	.3977969	103.8521	1.663057	.1361561	1.304482
#1	-.000181	-.000092	12.92310	.0006205	.0057617	1.133286	.1727790
#2	-.000172	-.000055	13.01668	.0000083	.0058180	1.130491	.1707082
#3	-.000196	-.000133	12.93244	.0014278	.0056319	1.133016	.1752142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0614220**	**2.492370**	**.0006325**	**-.000519**	**23.89497**	**-.004992**	**.2734050**
Stddev	.0032630	.049536	.0005767	.001665	.33828	.010760	.0021810
%RSD	5.312355	1.987502	91.17250	320.5724	1.415678	215.5396	.7977342
#1	.0613925	2.548852	.0011221	.000823	23.77567	-.016720	.2711232
#2	.0646997	2.471947	-.000003	.000002	23.63250	.004424	.2754689
#3	.0581739	2.456310	.000779	-.002383	24.27673	-.002681	.2736230

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.268251**	**1.355123**	**.0042706**	**-.002230**	**1.970798**	**2.125466**	**-.003318**
Stddev	.020819	.023712	.0014365	.000433	.037653	.002130	.000300
%RSD	1.641589	1.749838	33.63741	19.42258	1.910533	.1002128	9.050221
#1	1.259846	1.352721	.0039124	-.001864	1.956364	2.123033	-.003453
#2	1.252948	1.379945	.0058524	-.002118	2.013532	2.126367	-.002974
#3	1.291959	1.332703	.0030471	-.002709	1.942498	2.126997	-.003527

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-07 Acquired: 7/11/2025 4:40:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0036344	-.055444	.0506185
Stddev	.0068444	.005435	.0003933
%RSD	188.3200	9.802123	.7769381
#1	.0025874	-.056719	.0506020
#2	.0109420	-.049485	.0510198
#3	-.002626	-.060128	.0502338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.875	34596.70	2377.539	2156.433	5188.225
Stddev	18.896	19.12	5.768	9.477	7.283
%RSD	.5217101	.0552798	.2426136	.4394962	.1403772
#1	3624.802	34576.58	2372.458	2160.009	5189.813
#2	3639.136	34598.87	2376.351	2145.688	5180.279
#3	3601.686	34614.64	2383.809	2163.602	5194.584

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-08 Acquired: 7/11/2025 4:44:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003069**	**-.002252**	**.0024370**	**-.003580**	**.0006810**	**.4635656**	**.0055603**
Stddev	.002403	.002499	.0014198	.004102	.0033501	.0187532	.0019390
%RSD	78.29615	110.9777	58.26044	114.5896	491.9574	4.045420	34.87153
#1	-.000697	-.004699	.0008382	-.000708	-.001318	.4568610	.0040279
#2	-.003010	.000296	.0029223	-.008278	.004549	.4847496	.0077402
#3	-.005502	-.002351	.0035506	-.001754	-.001188	.4490863	.0049130

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000158**	**-.000070**	**12.73246**	**.0002407**	**.0055348**	**.2100956**	**.0336039**
Stddev	.000160	.000015	.00764	.0011002	.0001522	.0020692	.0013420
%RSD	101.2541	21.34572	.0599836	457.0771	2.750572	.9848596	3.993433
#1	.000001	-.000073	12.73000	.0006159	.0054855	.2120718	.0341334
#2	-.000319	-.000084	12.74102	-.000998	.0057056	.2079446	.0346002
#3	-.000155	-.000054	12.72635	.001104	.0054134	.2102706	.0320779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0192481**	**2.389203**	**-.000575**	**-.000570**	**23.79557**	**-.007665**	**.0449194**
Stddev	.0008945	.074262	.000316	.000674	.22013	.013986	.0004481
%RSD	4.647016	3.108246	54.92713	118.2416	.9250898	182.4581	.9975982
#1	.0184011	2.405333	-.000777	-.000635	23.86480	.003481	.0448596
#2	.0201835	2.308201	-.000738	-.001209	23.54915	-.003117	.0445042
#3	.0191598	2.454074	-.000211	.000134	23.97277	-.023359	.0453944

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.347315**	**.7006726**	**.0065256**	**-.002475**	**1.978605**	**2.372428**	**-.005677**
Stddev	.012782	.0032029	.0011577	.000289	.007195	.017378	.000618
%RSD	.9486826	.4571236	17.74016	11.68752	.3636196	.7324988	10.87956
#1	1.348916	.7018408	.0078306	-.002338	1.986192	2.392494	-.004977
#2	1.333808	.7031274	.0061238	-.002280	1.971880	2.362244	-.005910
#3	1.359221	.6970495	.0056224	-.002807	1.977743	2.362546	-.006144

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-08 Acquired: 7/11/2025 4:44:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0046175	-.054402	.0518779
Stddev	.0050417	.004362	.0001358
%RSD	109.1863	8.017679	.2618311
#1	.0027510	-.059014	.0520343
#2	.0103264	-.050343	.0517900
#3	.0007753	-.053850	.0518093

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3598.931	34483.42	2340.889	2147.898	5178.745
Stddev	3.184	139.85	10.318	2.422	6.050
%RSD	.0884640	.4055551	.4407603	.1127686	.1168285
#1	3598.648	34617.60	2330.336	2150.674	5176.066
#2	3595.898	34338.52	2341.376	2146.211	5174.497
#3	3602.247	34494.15	2350.955	2146.810	5185.673

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-09 Acquired: 7/11/2025 4:49:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006120**	**-.001542**	**.0016552**	**-.005780**	**.0041151**	**.6320956**	**.0256942**
Stddev	.003713	.001318	.0007251	.002173	.0039199	.0322446	.0001678
%RSD	60.66854	85.51621	43.80877	37.59959	95.25568	5.101223	.6530824
#1	-.002609	-.000706	.0024061	-.007664	.0079256	.6628199	.0255785
#2	-.010007	-.000858	.0016005	-.006273	.0000943	.6349468	.0256174
#3	-.005745	-.003061	.0009590	-.003402	.0043255	.5985200	.0258866

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000039**	**.0000512**	**13.64691**	**.0002391**	**.0059486**	**.5020527**	**.0604154**
Stddev	.000192	.0000672	.01327	.0012711	.0002892	.0018198	.0017180
%RSD	496.2672	131.4270	.0972346	531.6580	4.861621	.3624775	2.843594
#1	-.000206	.0001230	13.64025	-.001228	.0058951	.5024531	.0600409
#2	.000171	-.000010	13.63830	.001022	.0062607	.5000660	.0622898
#3	-.000080	.000041	13.66219	.000923	.0056898	.5036390	.0589156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0242428**	**2.622108**	**-.000121**	**-.000761**	**24.34337**	**-.011592**	**.1681383**
Stddev	.0012720	.064444	.000507	.000497	.18011	.002712	.0014431
%RSD	5.246937	2.457728	417.9672	65.33883	.7398675	23.39165	.8583081
#1	.0247916	2.629865	.000432	-.000499	24.43694	-.009795	.1696223
#2	.0227885	2.682323	-.000564	-.000450	24.13573	-.014711	.1680527
#3	.0251483	2.554136	-.000232	-.001334	24.45743	-.010270	.1667399

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.275904**	**1.210041**	**.0033724**	**-.002507**	**2.062825**	**2.051667**	**-.006805**
Stddev	.008965	.004643	.0014319	.000447	.003740	.011786	.000581
%RSD	.7026476	.3836778	42.45947	17.81213	.1813028	.5744587	8.534785
#1	1.281794	1.205245	.0017268	-.002884	2.058520	2.063715	-.007173
#2	1.265586	1.214513	.0040565	-.002625	2.065273	2.040161	-.006135
#3	1.280331	1.210363	.0043340	-.002014	2.064682	2.051124	-.007106

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-09 Acquired: 7/11/2025 4:49:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0037954	-.048999	.0506893
Stddev	.0026111	.003567	.0002285
%RSD	68.79657	7.279729	.4508741
#1	.0051744	-.049369	.0509082
#2	.0007839	-.045261	.0504522
#3	.0054280	-.052366	.0507074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3599.868	34338.96	2361.018	2138.179	5174.990
Stddev	16.478	156.44	13.820	14.435	15.551
%RSD	.4577266	.4555805	.5853380	.6751080	.3005000
#1	3610.525	34180.36	2345.546	2122.800	5189.158
#2	3608.190	34343.37	2372.136	2140.300	5177.460
#3	3580.889	34493.15	2365.373	2151.435	5158.352

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-10 Acquired: 7/11/2025 4:53:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006318**	**-.000265**	**.0015654**	**-.003854**	**.0005665**	**.6789724**	**.0237056**
Stddev	.003205	.000790	.0012629	.002725	.0032239	.0090504	.0007754
%RSD	50.72844	297.5592	80.67268	70.70105	569.1087	1.332950	3.270853
#1	-.002637	-.001175	.0019397	-.001323	.0042610	.6879683	.0245100
#2	-.007826	.000248	.0025989	-.003500	-.000885	.6698686	.0229629
#3	-.008489	.000130	.0001577	-.006738	-.001676	.6790802	.0236439

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000118**	**13.23622**	**.0001860**	**.0059216**	**.3934046**	**.0530980**
Stddev	.000103	.000044	.07049	.0009657	.0003486	.0046437	.0026356
%RSD	577.4645	37.51964	.5325635	519.2893	5.886600	1.180397	4.963563
#1	.000036	-.000104	13.31002	-.000862	.0056701	.3921145	.0557393
#2	.000047	-.000167	13.22906	.001039	.0063195	.3985569	.0530866
#3	-.000137	-.000082	13.16959	.000381	.0057752	.3895422	.0504682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0468082**	**2.492611**	**-.000408**	**-.001100**	**23.74568**	**-.002815**	**.0651246**
Stddev	.0019319	.039500	.000388	.000319	.20516	.005516	.0005649
%RSD	4.127314	1.584703	95.16957	29.03875	.8640010	195.9080	.8674061
#1	.0451505	2.447499	.000015	-.000930	23.67869	-.000117	.0647193
#2	.0463441	2.520999	-.000490	-.001468	23.97596	-.009161	.0648845
#3	.0489298	2.509333	-.000749	-.000902	23.58238	.000831	.0657698

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.276546**	**1.188766**	**.0034780**	**-.002604**	**1.988904**	**1.973269**	**-.005991**
Stddev	.016930	.002356	.0018251	.000363	.014228	.016970	.000123
%RSD	1.326231	.1982184	52.47556	13.95276	.7153445	.8599823	2.057838
#1	1.278227	1.186229	.0049913	-.002836	1.991378	1.966097	-.005873
#2	1.292573	1.189185	.0014512	-.002791	1.973602	1.992647	-.005980
#3	1.258838	1.190886	.0039915	-.002185	2.001732	1.961062	-.006119

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-10 Acquired: 7/11/2025 4:53:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0013645	-.049703	.0489656
Stddev	.0053212	.004493	.0003095
%RSD	389.9720	9.039038	.6320592
#1	-.002754	-.049857	.0492514
#2	-.000525	-.045135	.0486369
#3	.007372	-.054117	.0490084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3622.884	34728.72	2371.658	2165.197	5210.044
Stddev	7.309	258.90	2.751	12.465	10.625
%RSD	.2017484	.7454927	.1159926	.5756849	.2039284
#1	3614.934	34563.63	2370.379	2160.454	5197.832
#2	3629.314	35027.11	2369.779	2179.337	5217.166
#3	3624.404	34595.42	2374.815	2155.800	5215.134

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-11 Acquired: 7/11/2025 4:58:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004192**	**-.000843**	**.0020080**	**-.004402**	**.0016616**	**.6910142**	**.0262368**
Stddev	.001541	.000626	.0006976	.005543	.0020334	.0065878	.0016600
%RSD	36.77145	74.25228	34.73986	125.9380	122.3701	.9533585	6.326999
#1	-.002944	-.000573	.0027749	-.005537	.0039088	.6924942	.0243529
#2	-.005915	-.000397	.0018376	.001621	.0011274	.6967362	.0274850
#3	-.003717	-.001559	.0014114	-.009290	-.000051	.6838123	.0268725

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000607**	**.0000161**	**13.73935**	**.0001734**	**.0058490**	**.5214218**	**.0896952**
Stddev	.0001478	.0000786	.10362	.0008738	.0002579	.0187470	.0072733
%RSD	243.5388	487.9322	.7541526	503.8668	4.409924	3.595355	8.108897
#1	-.000064	-.000011	13.62040	.0007165	.0060628	.5117059	.0899048
#2	.000023	.000105	13.78759	.0006383	.0055626	.5430324	.0968615
#3	.000224	-.000046	13.81004	-.000835	.0059217	.5095272	.0823194

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0318769**	**2.620558**	**-.001075**	**-.000711**	**26.23467**	**-.009199**	**.1203220**
Stddev	.0044334	.029158	.000150	.000532	1.37505	.012419	.0002761
%RSD	13.90782	1.112646	13.98875	74.85535	5.241351	135.0002	.2294635
#1	.0268750	2.642507	-.001220	-.000139	24.99818	.002371	.1202135
#2	.0334340	2.631692	-.001084	-.000802	25.99032	-.022321	.1201167
#3	.0353216	2.587474	-.000920	-.001192	27.71552	-.007647	.1206359

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**^ *****	**1.273338**	**.0025379**	**-.003056**	**2.077119**	**2.115546**	**-.005941**
Stddev	-----	.005462	.0013461	.000424	.009391	.066460	.000020
%RSD	-----	.4289356	53.04020	13.87208	.4521059	3.141518	.3353372
#1	1.341797	1.269293	.0040479	-.003486	2.071547	2.073234	-.005928
#2	1.378458	1.271169	.0021020	-.002638	2.071848	2.192148	-.005931
#3	^ -----	1.279551	.0014638	-.003045	2.087961	2.081256	-.005964

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-11 Acquired: 7/11/2025 4:58:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0010489	-.057497	.0500225
Stddev	.0019863	.004492	.0003746
%RSD	189.3816	7.813143	.7489000
#1	-.000107	-.052469	.0496605
#2	-.000089	-.058905	.0504086
#3	.003342	-.061116	.0499986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3504.758	33695.05	2293.104	2114.941	5039.191
Stddev	11.414	374.51	77.871	9.687	24.067
%RSD	.3256641	1.111458	3.395895	.4580290	.4775999
#1	3507.771	33988.22	2345.449	2121.726	5056.036
#2	3514.364	33823.77	2203.615	2103.847	5049.911
#3	3492.141	33273.16	2330.249	2119.250	5011.626

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-12 Acquired: 7/11/2025 5:02:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004206**	**-.003109**	**.0032332**	**-.004756**	**.0047022**	**.6190923**	**.0243996**
Stddev	.004093	.002433	.0012229	.007891	.0004409	.0397725	.0009413
%RSD	97.30125	78.23841	37.82408	165.9204	9.375425	6.424317	3.857951
#1	-.007368	-.001479	.0020228	-.009654	.0052094	.6045490	.0247172
#2	.000417	-.001944	.0044683	-.008960	.0044114	.5886384	.0251410
#3	-.005668	-.005906	.0032084	.004347	.0044858	.6640895	.0233405

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000650**	**-.000123**	**13.45424**	**.0001256**	**.0057963**	**.3735146**	**.0502173**
Stddev	.0000709	.000110	.09945	.0002708	.0001673	.0009880	.0020110
%RSD	109.1548	89.37411	.7391431	215.6226	2.886887	.2645156	4.004662
#1	.0000009	-.000002	13.49020	.0001890	.0056764	.3737878	.0524275
#2	.0000528	-.000217	13.53070	.0003591	.0057250	.3743372	.0484952
#3	.0001411	-.000151	13.34181	-.000171	.0059875	.3724187	.0497293

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157952**	**2.538966**	**-.000909**	**-.000643**	**24.17071**	**.0017557**	**.0568900**
Stddev	.0021071	.120124	.000389	.001888	.36692	.0103850	.0002079
%RSD	13.33991	4.731231	42.81784	293.8644	1.518028	591.4909	.3655194
#1	.0164835	2.458804	-.000534	-.000897	23.95147	.0103363	.0571039
#2	.0174720	2.677079	-.000883	.001360	24.59430	-.009789	.0568775
#3	.0134300	2.481013	-.001311	-.002390	23.96635	.004720	.0566886

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.276957**	**1.215007**	**.0013848**	**-.002903**	**2.068960**	**2.002022**	**-.006124**
Stddev	.026246	.025131	.0008828	.000220	.053323	.007922	.000619
%RSD	2.055322	2.068423	63.74819	7.571136	2.577286	.3957134	10.10938
#1	1.254126	1.195931	.0003664	-.003104	2.034047	2.004760	-.005437
#2	1.305632	1.205607	.0019322	-.002936	2.042494	2.008212	-.006296
#3	1.271114	1.243483	.0018558	-.002668	2.130339	1.993094	-.006640

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-12 Acquired: 7/11/2025 5:02:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0048144	-.047832	.0494843
Stddev	.0034317	.010142	.0003255
%RSD	71.27978	21.20319	.6576991
#1	.0020762	-.044152	.0491469
#2	.0037029	-.059301	.0497964
#3	.0086641	-.040045	.0495094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3539.489	34619.67	2360.740	2160.959	5089.048
Stddev	106.664	150.65	14.505	1.209	159.911
%RSD	3.013555	.4351525	.6144087	.0559564	3.142261
#1	3587.656	34747.42	2360.697	2159.875	5160.757
#2	3613.576	34453.54	2346.258	2162.263	5200.552
#3	3417.236	34658.04	2375.267	2160.739	4905.833

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-13 Acquired: 7/11/2025 5:06:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006838**	**-.001170**	**.0024597**	**-.002595**	**.0006589**	**.7191598**	**.0243745**
Stddev	.001149	.002959	.0023494	.003460	.0035181	.0107330	.0020066
%RSD	16.80800	252.9333	95.51324	133.3196	533.8956	1.492432	8.232559
#1	-.005830	-.004385	.0050317	-.006281	.0045711	.7129706	.0266291
#2	-.006593	-.000561	.0019208	.000582	-.000350	.7129555	.0227844
#3	-.008090	.001437	.0004266	-.002085	-.002245	.7315531	.0237099

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**-.000119**	**13.52904**	**.0013510**	**.0057820**	**.4520428**	**.0506301**
Stddev	.000160	.000093	.01775	.0009136	.0006351	.0037611	.0007182
%RSD	292.0002	78.37585	.1311960	67.62259	10.98368	.8320108	1.418538
#1	-.000149	-.000024	13.54102	.0009497	.0053533	.4556392	.0514095
#2	-.000147	-.000211	13.53746	.0023966	.0065116	.4523530	.0504859
#3	.000130	-.000123	13.50865	.0007068	.0054811	.4481363	.0499949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0330310**	**2.584201**	**.0002677**	**-.000961**	**24.13713**	**-.000856**	**.1355317**
Stddev	.0022214	.118786	.0004888	.000481	.41084	.001703	.0004569
%RSD	6.725150	4.596605	182.6023	50.02541	1.702124	198.8915	.3371450
#1	.0339371	2.483587	-.000052	-.000560	24.59036	-.001483	.1352093
#2	.0304998	2.553777	.000024	-.000829	24.03187	.001071	.1360546
#3	.0346561	2.715240	.000830	-.001493	23.78916	-.002156	.1353312

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.257039**	**1.128942**	**.0036607**	**-.002967**	**2.101127**	**2.006648**	**-.004737**
Stddev	.021284	.008667	.0011964	.000142	.015409	.022817	.000551
%RSD	1.693156	.7677445	32.68149	4.798760	.7333486	1.137075	11.63852
#1	1.281336	1.133741	.0050075	-.003118	2.113835	2.030674	-.004384
#2	1.248085	1.118936	.0027211	-.002948	2.083989	2.003999	-.005372
#3	1.241695	1.134149	.0032535	-.002835	2.105558	1.985271	-.004454

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-13 Acquired: 7/11/2025 5:06:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001030	-.050684	.0501949
Stddev	.001737	.012758	.0004162
%RSD	168.6305	25.17150	.8291991
#1	-.000868	-.038816	.0497267
#2	.000620	-.049060	.0505228
#3	-.002843	-.064176	.0503353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3586.883	34500.60	2354.616	2142.473	5170.860
Stddev	3.617	128.89	14.639	12.051	5.220
%RSD	.1008471	.3735822	.6216957	.5624624	.1009553
#1	3588.690	34649.43	2338.227	2156.369	5165.072
#2	3582.718	34427.24	2359.227	2134.891	5175.211
#3	3589.241	34425.15	2366.394	2136.159	5172.297

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-14 Acquired: 7/11/2025 5:11:16 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004043**	**-.001766**	**.0017573**	**-.001072**	**.0004613**	**.1703281**	**.0042198**
Stddev	.001107	.002699	.0010167	.000462	.0017561	.0148872	.0007669
%RSD	27.38865	152.8332	57.85694	43.10321	380.7301	8.740325	18.17389
#1	-.005299	.001033	.0014432	-.000539	.0024499	.1840404	.0041055
#2	-.003210	-.004352	.0009347	-.001311	-.000876	.1544937	.0035164
#3	-.003619	-.001979	.0028940	-.001365	-.000190	.1724502	.0050374

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000067**	**-.000012**	**5.585823**	**.0004243**	**.0024386**	**.1387936**	**.0163649**
Stddev	.000111	.000029	.028657	.0009367	.0002444	.0020640	.0026146
%RSD	165.8310	231.2868	.5130237	220.7478	10.02360	1.487108	15.97708
#1	.000060	.000014	5.612872	.0008447	.0027151	.1405227	.0139354
#2	-.000117	-.000043	5.555792	-.000649	.0022512	.1365086	.0191319
#3	-.000145	-.000008	5.588805	.001077	.0023496	.1393496	.0160275

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112169**	**.8138543**	**-.000609**	**-.000156**	**6.298927**	**-.000372**	**.0242195**
Stddev	.0011134	.0841947	.000415	.000479	.115343	.008417	.0002891
%RSD	9.926193	10.34518	68.16019	306.4661	1.831147	2260.683	1.193687
#1	.0120621	.9109785	-.000143	-.000697	6.418343	.005357	.0241385
#2	.0099553	.7615628	-.000938	.000215	6.188143	.003562	.0245404
#3	.0116332	.7690214	-.000745	.000013	6.290294	-.010036	.0239794

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.543935**	**2.506036**	**.0057756**	**-.001173**	**.9913297**	**.4748700**	**-.005717**
Stddev	.160169	.002455	.0011239	.000647	.0010814	.0051641	.000987
%RSD	2.123151	.0979435	19.45882	55.15147	.1090843	1.087471	17.26412
#1	7.712992	2.504272	.0058553	-.000438	.9900811	.4794854	-.006589
#2	7.394453	2.504997	.0068575	-.001423	.9919420	.4692926	-.005915
#3	7.524359	2.508839	.0046140	-.001657	.9919660	.4758321	-.004646

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-14 Acquired: 7/11/2025 5:11:16 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0059469	-.053639	.0093299
Stddev	.0030175	.001968	.0002491
%RSD	50.74031	3.668525	2.669636
#1	.0071807	-.052443	.0090455
#2	.0025080	-.052565	.0095088
#3	.0081519	-.055910	.0094355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3642.235	35167.42	2334.947	2179.134	5278.176
Stddev	9.735	42.91	14.579	9.453	10.117
%RSD	.2672880	.1220107	.6243678	.4337905	.1916733
#1	3648.119	35165.32	2326.188	2189.024	5285.533
#2	3630.998	35211.34	2351.776	2178.190	5266.639
#3	3647.588	35125.60	2326.876	2170.189	5282.356

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV09 Acquired: 7/11/2025 5:19:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.774680**	**4.773549**	**4.774373**	**4.723297**	**4.827031**	**9.800520**	**9.963190**
Stddev	.010681	.011418	.004868	.007067	.007769	.038142	.046339
%RSD	.2236931	.2391853	.1019704	.1496140	.1609564	.3891852	.4651039
#1	4.782922	4.782747	4.769766	4.731109	4.832586	9.789761	10.01499
#2	4.762614	4.760770	4.773886	4.717350	4.818153	9.768914	9.94892
#3	4.778505	4.777131	4.779466	4.721432	4.830355	9.842887	9.92567

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2464943**	**2.378791**	**24.35417**	**1.002420**	**2.403851**	**1.245552**	**4.814790**
Stddev	.0025567	.002514	.06730	.002284	.000790	.013141	.044058
%RSD	1.037240	.1056811	.2763447	.2278950	.0328620	1.055026	.9150461
#1	.2487489	2.380281	24.40663	1.004344	2.404689	1.259071	4.854413
#2	.2470175	2.375889	24.37760	1.003021	2.403745	1.244760	4.822610
#3	.2437164	2.380205	24.27829	.999895	2.403120	1.232825	4.767346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.491568**	**24.24049**	**2.372374**	**1.237920**	**26.07820**	**2.536241**	**2.496446**
Stddev	.012697	.10243	.002760	.004803	.44703	.011696	.004135
%RSD	.5095851	.4225668	.1163578	.3879646	1.714173	.4611589	.1656436
#1	2.502236	24.13696	2.375023	1.243442	26.55095	2.545277	2.500959
#2	2.494945	24.24271	2.369514	1.234716	26.02130	2.523030	2.492838
#3	2.477525	24.34178	2.372585	1.235603	25.66235	2.540417	2.495543

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.59568**	**4.798793**	**5.004551**	**4.807769**	**4.730933**	**5.017959**	**4.779152**
Stddev	.85386	.007823	.053088	.008101	.002480	.059647	.007793
%RSD	3.335964	.1630294	1.060797	.1684959	.0524271	1.188670	.1630719
#1	26.48845	4.806519	5.054060	4.816879	4.733391	5.075348	4.785403
#2	25.51166	4.790875	5.011100	4.801376	4.728431	5.022246	4.770420
#3	24.78694	4.798985	4.948492	4.805053	4.730977	4.956285	4.781632

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV09 Acquired: 7/11/2025 5:19:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.945765**	**4.875044**	**4.963323**
Stddev	.033644	.004329	.012962
%RSD	.6802684	.0888027	.2611503
#1	4.981122	4.878992	4.977673
#2	4.914145	4.870415	4.959831
#3	4.942028	4.875724	4.952465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3422.453**	**32573.10**	**2279.319**	**2034.060**	**4586.178**
Stddev	7.632	47.00	20.879	4.706	6.892
%RSD	.2230085	.1442964	.9160028	.2313641	.1502853
#1	3413.903	32523.97	2261.611	2037.260	4582.483
#2	3428.578	32577.69	2274.005	2036.263	4594.130
#3	3424.878	32617.64	2302.341	2028.656	4581.921

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB09 Acquired: 7/11/2025 5:24:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000473**	**-.002551**	**.0002021**	**-.000835**	**.0010254**	**-.023582**
Stddev	.002862	.001439	.0021701	.002740	.0017513	.010467
%RSD	605.0839	56.41951	1073.604	328.2856	170.7972	44.38570
#1	.002506	-.002541	.0013194	-.003817	.0022661	-.032167
#2	-.000724	-.001117	-.002299	-.000258	.0017880	-.011922
#3	-.003201	-.003996	.001586	.001571	-.000978	-.026657

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000932**	**.0001488**	**-.000018**	**-.039099**	**-.000491**	**-.000188**
Stddev	.001780	.0000805	.000011	.009975	.000370	.000190
%RSD	190.9737	54.10873	61.42121	25.51146	75.25449	101.4102
#1	.001062	.0002411	-.000030	-.027586	-.000772	-.000385
#2	-.002361	.0000934	-.000015	-.045150	-.000072	-.000174
#3	-.001496	.0001118	-.000008	-.044560	-.000630	-.000004

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000950**	**-.008434**	**.0018402**	**-.012662**	**-.000584**	**.0029702**
Stddev	.000635	.002536	.0031969	.105361	.000524	.0011029
%RSD	66.82850	30.06409	173.7278	832.0806	89.86955	37.13073
#1	-.000222	-.006978	.0036019	-.025085	-.000533	.0019125
#2	-.001238	-.006962	-.001850	-.111261	-.000086	.0028849
#3	-.001389	-.011362	.003769	.098359	-.001131	.0041133

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006432**	**.0015779**	**-.000325**	**.0061057**	**.0016447**	F **.0148176**
Stddev	.016342	.0051958	.000096	.0017967	.0009845	.0012204
%RSD	254.0732	329.2864	29.39631	29.42720	59.86127	8.236116
#1	-.009521	-.003089	-.000231	.0041145	.0026317	.0160892
#2	.011234	.000646	-.000323	.0076058	.0016397	.0147077
#3	-.021009	.007177	-.000422	.0065968	.0006626	.0136558

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB09 Acquired: 7/11/2025 5:24:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000502	.0179079	-.001020	-.005530	.0016010	F -.030467
Stddev	.000567	.0048304	.000574	.000458	.0049766	.004861
%RSD	112.9699	26.97361	56.26064	8.278048	310.8377	15.95646
#1	-.000531	.0123318	-.000912	-.006058	.0002710	-.030932
#2	-.001054	.0208122	-.000507	-.005254	-.002575	-.025389
#3	.000079	.0205796	-.001639	-.005278	.007107	-.035079

Elem	Sr4077
Units	ppm
Avg	-.000211
Stddev	.000182
%RSD	86.05332
#1	-.000031
#2	-.000395
#3	-.000209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.472	34755.08	2427.712	2147.838	5353.380
Stddev	5.738	90.29	13.161	9.036	10.762
%RSD	.1587144	.2597928	.5421129	.4206835	.2010332
#1	3609.220	34859.04	2419.664	2157.916	5342.356
#2	3620.500	34696.22	2442.900	2140.459	5363.860
#3	3616.694	34709.99	2420.573	2145.140	5353.925

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-15 Acquired: 7/11/2025 5:33:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004024**	**.0000434**	**-.000138**	**-.002914**	**.0027273**	**-.008570**	**.0310208**
Stddev	.001138	.0013606	.002161	.000952	.0040691	.016611	.0004493
%RSD	28.27908	3135.272	1568.094	32.67538	149.1958	193.8144	1.448370
#1	-.002728	.0015589	.001680	-.002514	-.000699	-.021849	.0305213
#2	-.004862	-.000356	-.002527	-.004001	.001656	-.013917	.0311491
#3	-.004481	-.001073	.000434	-.002227	.007225	.010055	.0313919

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000099**	**-.000180**	**14.28154**	**.0000549**	**.0059083**	**1.988811**	**.0651971**
Stddev	.000088	.000054	.09478	.0002501	.0001999	.008850	.0035452
%RSD	89.66607	30.02004	.6636821	455.4179	3.382746	.4449701	5.437655
#1	-.000034	-.000226	14.35976	-.000158	.0061379	1.996991	.0688690
#2	-.000199	-.000194	14.30872	.000330	.0058136	1.990024	.0617939
#3	-.000062	-.000120	14.17614	-.000008	.0057735	1.979417	.0649285

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108703**	**2.601742**	**.0236546**	**-.001410**	**23.09693**	**-.000972**	**.2149284**
Stddev	.0024280	.032887	.0005384	.000563	.08734	.005254	.0005702
%RSD	22.33580	1.264044	2.276062	39.89854	.3781479	540.6089	.2653182
#1	.0094722	2.628104	.0240539	-.001442	23.19638	.002263	.2143291
#2	.0094647	2.564889	.0238676	-.000833	23.03272	-.007034	.2149917
#3	.0136739	2.612234	.0230423	-.001957	23.06169	.001855	.2154643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.272859**	**.8204358**	**.0048009**	**-.002886**	**2.119877**	**1.850708**	**-.006676**
Stddev	.006565	.0080654	.0014801	.000404	.004365	.007874	.002197
%RSD	.5157556	.9830591	30.83050	13.98608	.2059257	.4254503	32.91003
#1	1.272046	.8263024	.0060738	-.003251	2.121514	1.859681	-.004531
#2	1.266739	.8112385	.0031767	-.002954	2.114930	1.847488	-.006576
#3	1.279793	.8237665	.0051520	-.002453	2.123188	1.844954	-.008922

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-15 Acquired: 7/11/2025 5:33:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0047900	-.052074	.0548341
Stddev	.0043888	.011904	.0003223
%RSD	91.62292	22.85965	.5877736
#1	.0052059	-.059699	.0547668
#2	.0002081	-.058166	.0551847
#3	.0089561	-.038357	.0545508

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3607.921	34529.04	2337.791	2138.980	5211.004
Stddev	7.550	36.68	6.309	12.193	6.106
%RSD	.2092716	.1062174	.2698854	.5700240	.1171659
#1	3599.241	34569.75	2341.354	2152.275	5204.581
#2	3611.558	34498.57	2330.506	2128.321	5211.698
#3	3612.965	34518.80	2341.512	2136.343	5216.733

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-16 Acquired: 7/11/2025 5:37:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004743**	**-.002298**	**.0004598**	**-.004832**	**.0013479**	**.0025027**	**.0297107**
Stddev	.003740	.001729	.0003091	.002890	.0028399	.0073742	.0008180
%RSD	78.85637	75.25666	67.21293	59.81167	210.6893	294.6520	2.753124
#1	-.008823	-.000817	.0001376	-.007664	.0032700	.0095350	.0293376
#2	-.003929	-.001879	.0007538	-.001888	-.001914	-.005172	.0291457
#3	-.001477	-.004198	.0004882	-.004943	.002688	.003145	.0306487

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0000232**	**13.51377**	**-.000277**	**.0058167**	**.4141125**	**.0505748**
Stddev	.000153	.0000304	.05872	.000917	.0003616	.0036969	.0017368
%RSD	1996.443	131.1336	.4345497	331.2868	6.215946	.8927293	3.434046
#1	.000169	.0000514	13.52125	-.001020	.0061543	.4134810	.0488179
#2	-.000096	.0000273	13.56840	.000748	.0058607	.4180845	.0506158
#3	-.000096	-.000009	13.45167	-.000558	.0054352	.4107720	.0522907

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0140270**	**2.567026**	**.0206784**	**.0000727**	**23.89845**	**.0030560**	**.0188869**
Stddev	.0008357	.068802	.0000595	.0010381	.06737	.0086098	.0003486
%RSD	5.957580	2.680231	.2879586	1428.801	.2818811	281.7383	1.845591
#1	.0141730	2.618556	.0207342	.0003985	23.92405	.0078217	.0191764
#2	.0131280	2.593628	.0206157	-.001089	23.94927	-.006883	.0189843
#3	.0147801	2.488895	.0206854	.000909	23.82204	.008229	.0185000

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265004**	**1.411731**	**.0041587**	**-.002475**	**2.055816**	**1.946552**	**-.005893**
Stddev	.010221	.007120	.0012221	.000368	.008352	.013590	.000668
%RSD	.8080008	.5043510	29.38603	14.87652	.4062761	.6981515	11.33343
#1	1.268515	1.411612	.0051068	-.002781	2.046184	1.943537	-.006658
#2	1.273008	1.404671	.0027795	-.002578	2.060202	1.961396	-.005426
#3	1.253490	1.418910	.0045897	-.002066	2.061062	1.934723	-.005595

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-16 Acquired: 7/11/2025 5:37:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0024936	-.050218	.0515373
Stddev	.0024374	.009984	.0003442
%RSD	97.74802	19.88094	.6679626
#1	.0049995	-.038711	.0513853
#2	.0001309	-.056578	.0519314
#3	.0023504	-.055365	.0512951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3580.945	34413.96	2382.731	2135.089	5160.666
Stddev	11.396	158.67	10.506	8.888	11.479
%RSD	.3182265	.4610567	.4409079	.4162902	.2224307
#1	3574.667	34406.47	2386.124	2141.863	5153.738
#2	3594.098	34576.24	2370.949	2138.380	5173.916
#3	3574.068	34259.17	2391.121	2125.025	5154.344

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-17 Acquired: 7/11/2025 5:41:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006361	-.001115	.0040496	-.005948	.0054948	-.002652	.0319856
Stddev	.001933	.001102	.0016193	.003609	.0022877	.034302	.0010347
%RSD	30.39765	98.79950	39.98547	60.67446	41.63370	1293.544	3.235010
#1	-.005960	-.002363	.0040303	-.009505	.0045032	.032385	.0312586
#2	-.004659	-.000277	.0024401	-.006050	.0038702	-.004172	.0315280
#3	-.008463	-.000705	.0056785	-.002289	.0081110	-.036168	.0331703

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000085	.0002500	13.66405	.0008096	.0058185	.4437449	.0750562
Stddev	.000171	.0000921	.02592	.0006846	.0007243	.0043576	.0011520
%RSD	200.0113	36.83042	.1897083	84.56512	12.44858	.9820034	1.534910
#1	-.000134	.0001447	13.65456	.0010145	.0059119	.4462295	.0752455
#2	-.000226	.0002905	13.69338	.0013683	.0050520	.4462918	.0738212
#3	.000105	.0003150	13.64420	.0000459	.0064916	.4387133	.0761019

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195325	2.585314	.0293892	-.001108	23.77359	-.007139	.6450407
Stddev	.0005450	.047415	.0002581	.001895	.18268	.009224	.0029017
%RSD	2.790384	1.834004	.8782162	171.0092	.7684048	129.2074	.4498445
#1	.0201068	2.634498	.0296540	-.003146	23.83332	-.007939	.6472027
#2	.0190225	2.581549	.0291383	-.000778	23.91893	.002459	.6417430
#3	.0194681	2.539893	.0293754	.000600	23.56853	-.015938	.6461766

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.274454	1.291774	.0027695	-.002319	2.004894	1.980992	-.006643
Stddev	.014164	.006203	.0023867	.000322	.003127	.009736	.000896
%RSD	1.111381	.4801557	86.17872	13.86983	.1559883	.4914781	13.48526
#1	1.272127	1.286421	.0028684	-.001951	2.002741	1.987237	-.007641
#2	1.289638	1.290328	.0003348	-.002454	2.003461	1.985966	-.005909
#3	1.261598	1.298571	.0051052	-.002550	2.008481	1.969774	-.006379

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-17 Acquired: 7/11/2025 5:41:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0081307	-.060313	.0525815
Stddev	.0033872	.007456	.0004016
%RSD	41.65990	12.36258	.7637041
#1	.0117904	-.067401	.0522612
#2	.0074959	-.052536	.0524513
#3	.0051058	-.061002	.0530320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3544.668	33954.73	2323.818	2111.322	5104.083
Stddev	8.996	84.00	11.820	7.113	18.748
%RSD	.2538004	.2473946	.5086361	.3368836	.3673169
#1	3546.032	33857.74	2316.224	2104.939	5111.540
#2	3552.903	34002.48	2317.794	2118.989	5117.955
#3	3535.067	34003.98	2337.436	2110.037	5082.753

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-18 Acquired: 7/11/2025 5:46:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004294**	**-.001223**	**.0026236**	**-.005245**	**.0022856**	**-.039741**	**.0317430**
Stddev	.001322	.000391	.0018888	.007423	.0006484	.014572	.0012683
%RSD	30.79557	31.98609	71.99518	141.5228	28.37152	36.66843	3.995496
#1	-.002897	-.001675	.0005919	-.011157	.0028963	-.047662	.0312267
#2	-.005527	-.001013	.0029525	-.007665	.0023554	-.022923	.0308142
#3	-.004458	-.000982	.0043263	.003086	.0016050	-.048637	.0331880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000052**	**-.000055**	**14.33434**	**.0009155**	**.0062048**	**.3950115**	**.1124018**
Stddev	.000134	.000067	.07700	.0002092	.0002850	.0157979	.0030328
%RSD	259.3705	122.9620	.5371571	22.85189	4.593179	3.999347	2.698157
#1	-.000054	-.000127	14.36206	.0010903	.0058803	.3859311	.1104027
#2	-.000185	.000006	14.39364	.0006837	.0064140	.4132533	.1158914
#3	.000084	-.000043	14.24732	.0009725	.0063203	.3858503	.1109112

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0570743**	**2.716651**	**.0155893**	**-.000305**	**25.53031**	**-.005021**	**.0234947**
Stddev	.0007200	.074686	.0002760	.000621	1.01629	.006577	.0002060
%RSD	1.261580	2.749203	1.770462	203.3795	3.980711	130.9838	.8767642
#1	.0565585	2.763533	.0156280	.000034	25.03435	-.005769	.0232666
#2	.0567674	2.755895	.0152960	-.001023	26.69936	-.011192	.0236670
#3	.0578969	2.630523	.0158439	.000072	24.85723	.001898	.0235506

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.373836**	**1.471063**	**.0017953**	**-.002494**	**2.186943**	**2.067462**	**-.005797**
Stddev	.055428	.004924	.0002779	.000097	.010217	.086014	.001019
%RSD	4.034518	.3347456	15.47696	3.878939	.4671921	4.160352	17.57198
#1	1.350218	1.465922	.0016863	-.002462	2.183195	2.020403	-.006527
#2	1.437161	1.471530	.0021112	-.002417	2.179129	2.166737	-.006232
#3	1.334129	1.475737	.0015886	-.002602	2.198504	2.015245	-.004633

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-18 Acquired: 7/11/2025 5:46:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008147	-.062407	.0546434
Stddev	.0001976	.006288	.0003689
%RSD	24.25100	10.07593	.6750786
#1	.0006056	-.056022	.0549698
#2	.0009983	-.068594	.0547173
#3	.0008403	-.062604	.0542432

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3479.425	33041.17	2239.195	2049.986	5002.412
Stddev	15.358	127.27	76.769	14.203	11.866
%RSD	.4413887	.3851729	3.428421	.6928316	.2371970
#1	3463.649	33029.43	2280.467	2047.385	4993.808
#2	3480.297	33173.90	2150.618	2065.310	4997.480
#3	3494.328	32920.19	2286.500	2037.263	5015.948

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-19 Acquired: 7/11/2025 5:50:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007724	-.000127	.0033884	-.004202	.0013319	.0192314	.0323801
Stddev	.002324	.000450	.0018228	.004309	.0009714	.0163662	.0011673
%RSD	30.09350	353.1370	53.79403	102.5434	72.93690	85.10108	3.605038
#1	-.008510	.000028	.0054739	-.001560	.0002168	.0008122	.0330345
#2	-.009553	-.000634	.0025919	-.009174	.0019947	.0247805	.0310324
#3	-.005108	.000224	.0020995	-.001872	.0017842	.0321017	.0330734

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000092	-.000091	14.29321	.0004692	.0058902	.4464048	.1193257
Stddev	.0000967	.000070	.06384	.0007641	.0001923	.0035135	.0030131
%RSD	1054.190	77.44341	.4466577	162.8467	3.265418	.7870606	2.525073
#1	.0000749	-.000010	14.24323	.0003977	.0060681	.4491440	.1205755
#2	-.000102	-.000131	14.27127	.0012665	.0056861	.4424434	.1215129
#3	.000055	-.000132	14.36512	-.000257	.0059163	.4476269	.1158889

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0310155	2.689851	.0273885	-.000768	24.70436	-.002406	.3975322
Stddev	.0022018	.050882	.0005007	.001893	.03078	.005636	.0017154
%RSD	7.099073	1.891628	1.827961	246.5076	.1245985	234.2656	.4315182
#1	.0286867	2.735610	.0268495	-.002791	24.73789	-.004122	.3983368
#2	.0312963	2.635057	.0278390	-.000473	24.67738	-.006983	.3986975
#3	.0330633	2.698888	.0274771	.000961	24.69781	.003889	.3955624

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.348657	1.386657	.0019250	-.003234	2.187867	2.050440	-.006450
Stddev	.004554	.002878	.0008501	.000338	.003554	.010381	.000766
%RSD	.3376339	.2075322	44.16138	10.46086	.1624610	.5062695	11.86926
#1	1.343852	1.386169	.0029052	-.003344	2.185841	2.061310	-.005569
#2	1.349209	1.384053	.0014802	-.003504	2.191971	2.040630	-.006831
#3	1.352909	1.389747	.0013896	-.002855	2.185789	2.049380	-.006950

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-19 Acquired: 7/11/2025 5:50:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0035025	-.058898	.0545963
Stddev	.0042238	.005553	.0004258
%RSD	120.5940	9.428051	.7799043
#1	.0047477	-.063607	.0541055
#2	.0069638	-.052775	.0548171
#3	-.001204	-.060312	.0548664

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.117	33624.89	2302.009	2091.886	5064.834
Stddev	8.227	150.91	3.298	8.936	7.772
%RSD	.2337849	.4488087	.1432689	.4271879	.1534431
#1	3521.816	33770.89	2299.342	2099.161	5063.509
#2	3525.655	33469.50	2305.697	2081.911	5073.182
#3	3509.879	33634.29	2300.988	2094.586	5057.809

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20 Acquired: 7/11/2025 5:55:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003023**	**-.000501**	**.0026142**	**-.003448**	**.0015190**	**.0134820**	**.0269705**
Stddev	.003541	.000815	.0010933	.002099	.0040154	.0115507	.0015769
%RSD	117.1366	162.6205	41.81942	60.89250	264.3356	85.67463	5.846877
#1	.000220	-.000979	.0029073	-.001527	-.003104	.0099810	.0262484
#2	-.002488	-.000965	.0014043	-.005689	.004134	.0040869	.0287792
#3	-.006801	.000440	.0035311	-.003127	.003527	.0263782	.0258839

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000191**	**-.000074**	**13.19354**	**.0004525**	**.0054740**	**.3085750**	**.0888599**
Stddev	.000121	.000073	.09390	.0008325	.0005237	.0028328	.0012498
%RSD	63.42977	98.59632	.7116990	183.9552	9.566960	.9180151	1.406445
#1	-.000257	-.000014	13.08556	.0009567	.0056754	.3118308	.0883153
#2	-.000265	-.000156	13.23900	-.000508	.0048795	.3072198	.0902895
#3	-.000051	-.000054	13.25605	.000909	.0058671	.3066744	.0879748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0244465**	**2.509944**	**.0123994**	**-.001114**	**23.35276**	**.0002438**	**.0146218**
Stddev	.0021631	.112344	.0001712	.001002	.17088	.0072284	.0004546
%RSD	8.848206	4.475969	1.380906	89.96401	.7317354	2965.007	3.109091
#1	.0220121	2.616723	.0122085	-.000335	23.52435	.0079712	.0141563
#2	.0261476	2.520351	.0124502	-.000762	23.35132	-.006352	.0150646
#3	.0251798	2.392759	.0125395	-.002244	23.18260	-.000888	.0146447

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.227658**	**1.381933**	**.0007332**	**-.002741**	**2.002855**	**1.961027**	**-.007420**
Stddev	.011937	.003359	.0005054	.000169	.012800	.014039	.000440
%RSD	.9723199	.2430932	68.93011	6.170361	.6390835	.7158835	5.933743
#1	1.241438	1.378076	.0002618	-.002672	2.005018	1.977032	-.007924
#2	1.221017	1.383504	.0006709	-.002934	1.989112	1.950796	-.007223
#3	1.220518	1.384219	.0012668	-.002617	2.014436	1.955252	-.007112

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20 Acquired: 7/11/2025 5:55:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002646	-.049299	.0494212
Stddev	.003851	.008771	.0002053
%RSD	145.5792	17.79163	.4153956
#1	-.005856	-.058511	.0492151
#2	.001625	-.041048	.0494230
#3	-.003705	-.048338	.0496256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3630.699	34736.33	2404.928	2161.707	5240.567
Stddev	1.299	267.73	10.659	15.624	4.812
%RSD	.0357905	.7707632	.4432320	.7227697	.0918187
#1	3629.266	34968.83	2398.433	2173.990	5235.404
#2	3631.800	34443.61	2399.121	2144.121	5244.927
#3	3631.030	34796.56	2417.230	2167.008	5241.369

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20DUP Acquired: 7/11/2025 5:59:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002398**	**-.002267**	**.0041179**	**-.006487**	**.0018956**	**.0086425**	**.0282977**
Stddev	.000442	.002287	.0016487	.002160	.0004902	.0114025	.0013801
%RSD	18.40998	100.8570	40.03790	33.29098	25.85955	131.9361	4.877190
#1	-.002870	.000373	.0039010	-.006851	.0019998	.0130918	.0272103
#2	-.001994	-.003589	.0058643	-.008442	.0023254	.0171496	.0278325
#3	-.002331	-.003585	.0025884	-.004169	.0013617	-.004314	.0298504

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000154**	**-.000192**	**13.07901**	**-.000063**	**.0056628**	**.3046989**	**.1018949**
Stddev	.000122	.000094	.02273	.000600	.0002415	.0033695	.0034520
%RSD	79.21383	48.64209	.1738168	947.5500	4.265170	1.105856	3.387842
#1	-.000013	-.000300	13.06244	-.000561	.0058093	.3082920	.1057668
#2	-.000219	-.000134	13.06967	-.000231	.0053840	.3016097	.1007792
#3	-.000230	-.000143	13.10493	.000602	.0057951	.3041948	.0991386

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0244027**	**2.501250**	**.0127124**	**-.001219**	**23.26602**	**-.000066**	**.0158554**
Stddev	.0010437	.013804	.0004121	.001925	.22073	.016915	.0004101
%RSD	4.277057	.5518748	3.241378	157.8860	.9487106	25545.59	2.586334
#1	.0232001	2.486135	.0129256	-.001996	23.51493	.015913	.0159614
#2	.0249362	2.513188	.0129742	.000973	23.09412	.001672	.0154028
#3	.0250719	2.504427	.0122375	-.002633	23.18900	-.017783	.0162021

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.229639**	**1.365334**	**.0027489**	**-.003070**	**1.982987**	**1.946858**	**-.006136**
Stddev	.015520	.006322	.0014886	.000273	.005350	.022620	.000693
%RSD	1.262142	.4630231	54.15091	8.897200	.2698124	1.161889	11.29325
#1	1.247447	1.365899	.0042148	-.002761	1.980928	1.972351	-.005587
#2	1.222476	1.358750	.0012387	-.003169	1.978973	1.929186	-.006915
#3	1.218995	1.371355	.0027933	-.003280	1.989061	1.939037	-.005906

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20DUP Acquired: 7/11/2025 5:59:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001129	-.053454	.0488422
Stddev	.004671	.009902	.0002855
%RSD	413.6627	18.52392	.5844417
#1	.001012	-.044328	.0486310
#2	.002088	-.052053	.0487285
#3	-.006486	-.063982	.0491669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3626.153	34872.36	2387.533	2161.859	5232.988
Stddev	6.124	91.91	20.631	4.904	1.039
%RSD	.1688860	.2635692	.8641038	.2268343	.0198529
#1	3633.219	34956.58	2364.161	2167.256	5233.960
#2	3622.374	34774.32	2403.209	2157.677	5231.893
#3	3622.867	34886.18	2395.230	2160.643	5233.110

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20LX5 Acquired: 7/11/2025 6:03:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001199**	**-.001952**	**.0003602**	**-.001912**	**-.001135**	**.0062570**	**.0034728**
Stddev	.001779	.001202	.0010999	.002628	.001540	.0195351	.0012397
%RSD	148.3384	61.57770	305.3644	137.4757	135.6824	312.2125	35.69807
#1	-.001701	-.002807	.0016096	-.004733	.000591	-.011874	.0029444
#2	.000777	-.002471	-.000462	-.001469	-.002369	.026945	.0025848
#3	-.002674	-.000578	-.000067	.000467	-.001628	.003700	.0048891

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000954**	**-.000122**	**2.559817**	**.0003932**	**.0014336**	**.0596379**	**.0169415**
Stddev	.0001219	.000018	.022123	.0007958	.0003241	.0008194	.0014584
%RSD	127.7564	14.62296	.8642603	202.3682	22.60701	1.373943	8.608469
#1	.0000785	-.000137	2.540413	.0013069	.0018075	.0597556	.0152615
#2	-.000017	-.000126	2.583908	.0000207	.0012621	.0603921	.0176812
#3	.000225	-.000102	2.555129	-.000148	.0012314	.0587660	.0178819

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051352**	**.4661201**	**.0021847**	**.0004919**	**4.452525**	**.0005137**	**.0032693**
Stddev	.0016030	.0466055	.0004323	.0015914	.104324	.0027432	.0004184
%RSD	31.21563	9.998593	19.78521	323.5252	2.343036	534.0465	12.79619
#1	.0042335	.4435628	.0025275	.0023263	4.375213	-.000742	.0028955
#2	.0069860	.4350851	.0023275	-.000331	4.571185	-.001377	.0037212
#3	.0041862	.5197124	.0016992	-.000519	4.411177	.003660	.0031913

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2138987**	**.2650920**	**-.005414**	**-.000617**	**.3990050**	**.4001060**	**-.007217**
Stddev	.0061325	.0042596	.001900	.000520	.0022727	.0123830	.000881
%RSD	2.867030	1.606825	35.09331	84.39418	.5695989	3.094938	12.20869
#1	.2088110	.2608617	-.003329	-.001201	.4002069	.3882905	-.006216
#2	.2207081	.2650339	-.005865	-.000446	.4004245	.4129876	-.007877
#3	.2121771	.2693802	-.007048	-.000203	.3963837	.3990398	-.007557

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20LX5 Acquired: 7/11/2025 6:03:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005727	-.038924	.0095718
Stddev	.0067574	.003152	.0000969
%RSD	1180.006	8.097521	1.012329
#1	.0067418	-.037322	.0095823
#2	.0016256	-.036896	.0094701
#3	-.006649	-.042556	.0096631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3600.967	34564.27	2317.269	2149.603	5284.104
Stddev	4.225	90.67	58.330	8.131	7.708
%RSD	.1173243	.2623160	2.517190	.3782669	.1458686
#1	3603.619	34547.17	2365.449	2151.063	5285.316
#2	3603.187	34662.27	2252.418	2156.905	5291.133
#3	3596.095	34483.37	2333.939	2140.840	5275.861

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20MS Acquired: 7/11/2025 6:08:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7398036**	**1.938829**	**.9700545**	**1.860194**	**.8085420**	**2.118476**	**.2429032**
Stddev	.0031407	.008562	.0024904	.006217	.0046824	.020377	.0005617
%RSD	.4245341	.4415841	.2567295	.3342131	.5791182	.9618561	.2312285
#1	.7376341	1.930418	.9675369	1.856940	.8065555	2.125465	.2433227
#2	.7383715	1.938536	.9701097	1.856279	.8051804	2.095525	.2431220
#3	.7434051	1.947534	.9725168	1.867363	.8138902	2.134439	.2422651

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2046351**	**.1921027**	**14.89644**	**.4297725**	**.2056573**	**.6567418**	**3.473600**
Stddev	.0008832	.0007860	.04936	.0006241	.0011033	.0023683	.004282
%RSD	.4316104	.4091705	.3313698	.1452121	.5364707	.3606125	.1232767
#1	.2038051	.1912047	14.92324	.4301629	.2048665	.6548143	3.474376
#2	.2055634	.1924377	14.83948	.4301019	.2051878	.6593855	3.468983
#3	.2045370	.1926657	14.92661	.4290527	.2069177	.6560254	3.477441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2430945**	**4.748751**	**.5048896**	**.0703395**	**27.89565**	**.3240544**	**.2219182**
Stddev	.0019026	.104089	.0017165	.0013112	.14208	.0012207	.0002997
%RSD	.7826770	2.191927	.3399683	1.864124	.5093366	.3767026	.1350717
#1	.2449154	4.663283	.5034704	.0714098	27.74825	.3233200	.2222551
#2	.2411195	4.718300	.5044010	.0707318	28.03174	.3254635	.2216811
#3	.2432485	4.864670	.5067974	.0688769	27.90694	.3233797	.2218184

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.31769**	**7.126434**	**.2928766**	**.4147996**	**2.121123**	**3.045509**	**.6961272**
Stddev	.16480	.023504	.0023397	.0005694	.009750	.015438	.0024756
%RSD	1.337946	.3298092	.7988846	.1372756	.4596609	.5069034	.3556238
#1	12.23094	7.099863	.2903357	.4142218	2.109885	3.029943	.6938935
#2	12.21439	7.134931	.2949423	.4148167	2.126157	3.060815	.6956992
#3	12.50775	7.144507	.2933519	.4153603	2.127327	3.045770	.6987888

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20MS Acquired: 7/11/2025 6:08:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2160920	.1593479	.2625626
Stddev	.0023475	.0043431	.0004897
%RSD	1.086368	2.725575	.1865159
#1	.2133943	.1564254	.2627940
#2	.2176704	.1572796	.2628937
#3	.2172114	.1643386	.2620000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.844	33953.16	2328.642	2114.253	4987.121
Stddev	4.245	81.03	6.806	6.542	9.728
%RSD	.1204393	.2386459	.2922929	.3094160	.1950569
#1	3529.656	34035.43	2335.287	2107.367	4998.352
#2	3523.246	33873.43	2321.685	2120.386	4981.356
#3	3521.629	33950.63	2328.954	2115.004	4981.655

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV10 Acquired: 7/11/2025 6:16:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.785638**	**4.765807**	**4.797495**	**4.706650**	**4.767564**	**9.571021**	**9.827998**
Stddev	.019306	.021197	.024699	.026024	.020387	.051129	.028504
%RSD	.4034181	.4447802	.5148260	.5529116	.4276263	.5342057	.2900293
#1	4.764113	4.744445	4.773973	4.676608	4.746292	9.548273	9.842789
#2	4.791375	4.766140	4.795289	4.721097	4.769466	9.629576	9.846067
#3	4.801425	4.786836	4.823223	4.722246	4.786934	9.535214	9.795139

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2423514**	**2.387109**	**23.71853**	**.9878261**	**2.391603**	**1.221578**	**4.703318**
Stddev	.0032140	.010119	.02897	.0025955	.009196	.015022	.059335
%RSD	1.326152	.4239054	.1221493	.2627541	.3845227	1.229758	1.261552
#1	.2390319	2.376977	23.70265	.9888706	2.381430	1.205549	4.641400
#2	.2454482	2.387134	23.70097	.9897366	2.394052	1.235336	4.759678
#3	.2425741	2.397215	23.75197	.9848710	2.399327	1.223848	4.708876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.442148**	**23.63598**	**2.360849**	**1.213966**	**26.71242**	**2.492434**	**2.473111**
Stddev	.004745	.20861	.009227	.003452	.35373	.007903	.015509
%RSD	.1942913	.8825859	.3908261	.2843813	1.324201	.3170743	.6271175
#1	2.446838	23.45404	2.350933	1.216623	26.37511	2.494949	2.480203
#2	2.442255	23.59023	2.362433	1.215210	27.08055	2.498773	2.483806
#3	2.437350	23.86366	2.369181	1.210064	26.68160	2.483580	2.455323

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.96655**	**4.810198**	**4.941589**	**4.745053**	**4.729378**	**4.954994**	**4.796087**
Stddev	.33586	.018520	.048019	.018715	.020416	.070645	.020830
%RSD	1.293436	.3850207	.9717326	.3944114	.4316897	1.425726	.4343043
#1	25.59937	4.793127	4.889714	4.724661	4.714260	4.884578	4.776625
#2	26.04204	4.807577	4.984484	4.749054	4.721271	5.025866	4.793579
#3	26.25824	4.829889	4.950570	4.761445	4.752602	4.954537	4.818057

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV10 Acquired: 7/11/2025 6:16:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.865808**	**4.759329**	**4.870733**
Stddev	.004855	.000555	.008719
%RSD	.0997761	.0116547	.1790091
#1	4.863367	4.759252	4.879875
#2	4.871399	4.759919	4.869815
#3	4.862659	4.758818	4.862509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.022**	**33035.16**	**2313.336**	**2071.092**	**4640.798**
Stddev	13.655	61.09	27.573	6.356	16.148
%RSD	.3919388	.1849347	1.191911	.3068928	.3479529
#1	3499.460	32966.24	2342.840	2066.241	4658.923
#2	3479.077	33056.59	2288.220	2068.747	4635.527
#3	3473.527	33082.65	2308.947	2078.287	4627.945

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB10 Acquired: 7/11/2025 6:21:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005051**	**-.002089**	**-.000733**	**-.001402**	**.0005620**	**-.026486**
Stddev	.0018687	.001033	.001485	.001340	.0046638	.015586
%RSD	369.9906	49.43740	202.5446	95.61308	829.7916	58.84626
#1	.0025969	-.000926	-.001368	-.001185	.0029136	-.010885
#2	-.000999	-.002442	.000964	-.000183	.0035819	-.026516
#3	-.000082	-.002899	-.001796	-.002837	-.004809	-.042057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002302**	**.0001124**	**-.000015**	**-.018233**	**.0005756**	**-.000158**
Stddev	.000791	.0001156	.000084	.014308	.0007655	.000215
%RSD	34.35641	102.8583	567.4602	78.47343	133.0017	135.8456
#1	-.001403	-.000004	.000065	-.033631	.0003274	.000090
#2	-.002613	.000227	-.000103	-.005346	.0014344	-.000276
#3	-.002891	.000115	-.000006	-.015723	-.000035	-.000288

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000399**	**-.005204**	**.0003917**	**-.007522**	**-.000591**	**.0006202**
Stddev	.000320	.000831	.0021520	.080258	.000353	.0008699
%RSD	80.21294	15.97562	549.3633	1067.024	59.69692	140.2663
#1	-.000090	-.004249	-.000983	.025009	-.000556	.0000161
#2	-.000729	-.005599	-.000714	.051364	-.000257	.0016172
#3	-.000379	-.005764	.002872	-.098938	-.000961	.0002272

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.017554**	**-.005023**	**-.000656**	**.0081267**	**.0010458**	F **.0132788**
Stddev	.007737	.000913	.000727	.0003824	.0015749	.0013659
%RSD	44.07804	18.16898	110.8363	4.704982	150.5966	10.28619
#1	-.008782	-.004099	-.000769	.0083055	.0006204	.0144136
#2	-.020467	-.005923	-.001318	.0083868	-.000273	.0136600
#3	-.023411	-.005046	.000121	.0076877	.002790	.0117628

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB10 Acquired: 7/11/2025 6:21:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000238**	**.0065022**	**-.000609**	**-.006414**	**-.000114**	F **-.029655**
Stddev	.000200	.0011829	.002370	.000788	.002532	.015047
%RSD	83.75760	18.19273	388.8378	12.28845	2219.278	50.73988
#1	-.000009	.0051426	.001882	-.005506	.002808	-.014790
#2	-.000377	.0072955	-.002835	-.006922	-.001479	-.029297
#3	-.000329	.0070685	-.000875	-.006815	-.001671	-.044878

Elem	Sr4077
Units	ppm
Avg	**-.000451**
Stddev	.000267
%RSD	59.12150
#1	-.000331
#2	-.000757
#3	-.000266

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3610.923**	**34697.82**	**2387.733**	**2163.836**	**5337.986**
Stddev	7.770	211.75	10.156	12.525	14.156
%RSD	.2151897	.6102585	.4253559	.5788276	.2651897
#1	3614.866	34483.04	2387.318	2151.827	5343.695
#2	3615.931	34704.03	2398.091	2162.861	5348.396
#3	3601.971	34906.40	2377.791	2176.820	5321.867

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20MSD Acquired: 7/11/2025 6:30:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6952192**	**1.823900**	**.9135085**	**1.753818**	**.7598009**	**2.002399**	**.2302368**
Stddev	.0021981	.003200	.0024464	.007872	.0029613	.012200	.0007971
%RSD	.3161692	.1754491	.2678033	.4488685	.3897520	.6092703	.3462183
#1	.6927614	1.821210	.9133283	1.752017	.7574072	2.009406	.2293180
#2	.6958995	1.823051	.9111572	1.747002	.7588829	1.988311	.2306495
#3	.6969967	1.827439	.9160400	1.762435	.7631125	2.009478	.2307430

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1929390**	**.1802335**	**14.36029**	**.4065791**	**.1929491**	**.6260112**	**3.280844**
Stddev	.0014588	.0002214	.04278	.0009368	.0001814	.0034180	.023363
%RSD	.7560802	.1228269	.2979129	.2304190	.0939931	.5459898	.7121047
#1	.1912991	.1800642	14.31122	.4075603	.1930729	.6221282	3.253933
#2	.1934257	.1801523	14.37984	.4056940	.1927409	.6273411	3.295941
#3	.1940921	.1804840	14.38979	.4064829	.1930335	.6285644	3.292657

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2308360**	**4.508364**	**.4753889**	**.0650669**	**27.16875**	**.3096089**	**.2108513**
Stddev	.0016678	.033513	.0002737	.0012682	.22609	.0048167	.0019656
%RSD	.7225230	.7433459	.0575666	1.949046	.8321806	1.555754	.9322277
#1	.2299137	4.502571	.4752440	.0656627	26.97220	.3041307	.2116239
#2	.2298331	4.544396	.4757045	.0659274	27.41583	.3115156	.2123134
#3	.2327613	4.478125	.4752181	.0636105	27.11821	.3131805	.2086168

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.71033**	**6.742933**	**.2793324**	**.3909040**	**2.065820**	**2.941027**	**.6558208**
Stddev	.13923	.015793	.0014532	.0006799	.005373	.022922	.0034826
%RSD	1.188986	.2342125	.5202310	.1739249	.2600694	.7793973	.5310282
#1	11.57887	6.742274	.2778012	.3903678	2.061212	2.914755	.6569610
#2	11.85622	6.727481	.2806923	.3916687	2.064526	2.956949	.6519110
#3	11.69591	6.759046	.2795038	.3906756	2.071721	2.951378	.6585903

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20MSD Acquired: 7/11/2025 6:30:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2044156	.1459904	.2482964
Stddev	.0012495	.0031153	.0012987
%RSD	.6112292	2.133924	.5230412
#1	.2036755	.1458572	.2482313
#2	.2037131	.1491702	.2470314
#3	.2058582	.1429438	.2496263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3544.904	33858.45	2325.126	2111.011	5019.316
Stddev	2.589	147.09	6.775	7.052	1.540
%RSD	.0730335	.4344118	.2913954	.3340380	.0306840
#1	3547.746	33690.03	2332.806	2103.259	5021.072
#2	3542.680	33961.61	2319.994	2117.044	5018.194
#3	3544.286	33923.72	2322.579	2112.729	5018.681

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20A Acquired: 7/11/2025 6:34:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7203391	1.891814	.9443280	1.815478	.7957681	2.049979	.2374941
Stddev	.0041034	.003445	.0031797	.003366	.0014652	.022795	.0018231
%RSD	.5696559	.1820979	.3367144	.1854286	.1841247	1.111971	.7676213
#1	.7205948	1.888394	.9479718	1.816664	.7947124	2.072884	.2365709
#2	.7243087	1.891764	.9421153	1.811679	.7951509	2.027295	.2363173
#3	.7161137	1.895283	.9428971	1.818091	.7974409	2.049758	.2395941

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1985140	.1871008	14.32446	.4354666	.2002612	.6318512	3.457726
Stddev	.0011820	.0003511	.08586	.0007719	.0004378	.0038023	.022656
%RSD	.5954298	.1876319	.5994072	.1772608	.2186370	.6017730	.6552225
#1	.1974510	.1873837	14.27857	.4350344	.2006893	.6280447	3.431572
#2	.1997869	.1867079	14.42352	.4363578	.1998142	.6356493	3.471308
#3	.1983040	.1872108	14.27130	.4350077	.2002802	.6318598	3.470299

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2355432	4.588437	.5010988	.0602030	26.95406	.3234891	.2226825
Stddev	.0002056	.039420	.0005368	.0069327	.12116	.0047533	.0006124
%RSD	.0872740	.8591194	.1071193	11.51557	.4495115	1.469389	.2750135
#1	.2354763	4.542998	.5017057	.0610094	26.83997	.3182292	.2222046
#2	.2357739	4.608825	.5009039	.0529024	26.94097	.3274770	.2224701
#3	.2353794	4.613488	.5006867	.0666973	27.08123	.3247611	.2233728

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.05644	6.912255	.2872057	.4109679	2.039924	2.974232	.6878319
Stddev	.10276	.009863	.0019359	.0009830	.006991	.015467	.0006963
%RSD	.8523554	.1426956	.6740472	.2391885	.3427315	.5200408	.1012359
#1	12.14992	6.918326	.2854029	.4104706	2.045446	2.958550	.6884376
#2	12.07299	6.900875	.2892517	.4103329	2.042263	2.989476	.6879870
#3	11.94641	6.917566	.2869624	.4121002	2.032063	2.974669	.6870711

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: Q2520-20A Acquired: 7/11/2025 6:34:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2069946	.1583960	.2553851
Stddev	.0044131	.0054858	.0009616
%RSD	2.132008	3.463349	.3765505
#1	.2120699	.1575121	.2543331
#2	.2040606	.1642701	.2556036
#3	.2048534	.1534059	.2562188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.822	33623.89	2321.904	2094.486	4989.355
Stddev	2.925	173.77	5.721	12.329	6.432
%RSD	.0829813	.5168170	.2464047	.5886203	.1289114
#1	3526.680	33496.03	2321.006	2082.317	4992.537
#2	3526.335	33821.75	2328.021	2106.968	4993.576
#3	3521.450	33553.89	2316.685	2094.174	4981.953

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV11 Acquired: 7/11/2025 6:43:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.754103**	**4.713844**	**4.765893**	**4.664929**	**4.733110**	**9.569591**	**9.786624**
Stddev	.012584	.011791	.004379	.015305	.013196	.004953	.023877
%RSD	.2646984	.2501435	.0918917	.3280945	.2788033	.0517536	.2439767
#1	4.744526	4.712547	4.768124	4.647259	4.721209	9.574829	9.759615
#2	4.749426	4.702755	4.760847	4.673441	4.730821	9.564984	9.795329
#3	4.768355	4.726230	4.768708	4.674085	4.747301	9.568961	9.804927

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2410116**	**2.370208**	**23.85868**	**.9818681**	**2.372362**	**1.212303**	**4.702750**
Stddev	.0022179	.002545	.10426	.0042226	.004148	.008022	.053758
%RSD	.9202639	.1073937	.4369840	.4300628	.1748609	.6617258	1.143120
#1	.2404037	2.369179	23.78960	.9867058	2.368436	1.210392	4.687860
#2	.2391611	2.368339	23.80783	.9789218	2.371949	1.205410	4.658007
#3	.2434702	2.373107	23.97860	.9799766	2.376702	1.221109	4.762384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.436974**	**23.65819**	**2.340246**	**1.209797**	**26.43543**	**2.456392**	**2.442280**
Stddev	.004978	.01196	.001762	.000800	.17056	.013092	.017104
%RSD	.2042633	.0505553	.0752842	.0660969	.6452096	.5329863	.7003113
#1	2.432217	23.66941	2.340808	1.210719	26.28640	2.445300	2.448018
#2	2.436556	23.65956	2.338272	1.209384	26.39843	2.453041	2.455776
#3	2.442147	23.64561	2.341658	1.209288	26.62145	2.470834	2.423045

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.85187**	**4.785361**	**4.903716**	**4.704961**	**4.695918**	**4.918398**	**4.766074**
Stddev	.19022	.005902	.029079	.010217	.004764	.032304	.009081
%RSD	.7357997	.1233435	.5929977	.2171578	.1014412	.6568088	.1905268
#1	25.78098	4.778878	4.902737	4.693523	4.695396	4.919892	4.756447
#2	25.70727	4.790425	4.875138	4.708175	4.700921	4.885372	4.767288
#3	26.06735	4.786779	4.933271	4.713184	4.691437	4.949929	4.774486

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCV11 Acquired: 7/11/2025 6:43:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.860929**	**4.748630**	**4.845755**
Stddev	.006355	.002323	.012017
%RSD	.1307354	.0489174	.2479972
#1	4.855924	4.749892	4.836166
#2	4.868079	4.745950	4.841864
#3	4.858784	4.750049	4.859236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3501.787**	**33242.14**	**2327.031**	**2089.160**	**4662.471**
Stddev	11.512	195.25	12.578	17.020	10.244
%RSD	.3287408	.5873668	.5405331	.8146657	.2197046
#1	3514.664	33045.66	2321.570	2077.619	4673.554
#2	3492.493	33244.60	2341.417	2081.155	4653.351
#3	3498.205	33436.15	2318.106	2108.706	4660.507

Reviewed By:
On:
Inst Id :P5
LB :LB136434

Sample Name: CCB11 Acquired: 7/11/2025 6:47:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007080**	**-.001104**	**.0012350**	**.0011873**	**-.000147**	**-.029891**
Stddev	.0036247	.001673	.0015883	.0019087	.002203	.027790
%RSD	511.9604	151.5285	128.6018	160.7547	1498.462	92.96995
#1	.0018955	-.002897	.0029439	.0007129	.000691	-.055107
#2	.0035901	.000415	.0009572	.0032885	.001514	-.034469
#3	-.003362	-.000831	-.000196	-.000439	-.002646	-.000096

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000628**	**.0002203**	**-.000017**	**.0077147**	**.0006940**	**-.000341**
Stddev	.001374	.0001204	.000089	.0194360	.0004005	.000111
%RSD	218.7980	54.63184	513.7028	251.9340	57.70182	32.54847
#1	-.001896	.0001722	.000085	-.005086	.0005116	-.000213
#2	-.000821	.0003573	-.000064	.030079	.0011533	-.000395
#3	.000833	.0001315	-.000073	-.001849	.0004173	-.000415

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000477**	**-.009012**	**-.002502**	**-.013425**	**-.000178**	**.0015505**
Stddev	.000785	.001948	.000968	.021994	.000477	.0008703
%RSD	164.5898	21.61790	38.70877	163.8284	267.8739	56.13344
#1	-.001191	-.008055	-.003457	-.032731	-.000186	.0019892
#2	-.000605	-.007728	-.002527	.010518	.000303	.0021142
#3	.000364	-.011254	-.001521	-.018063	-.000650	.0005481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.032003**	**-.006849**	**-.000921**	**.0083737**	**.0013060**	F **.0130502**
Stddev	.005182	.006619	.000145	.0030371	.0025657	.0013901
%RSD	16.19078	96.63209	15.72370	36.26942	196.4472	10.65200
#1	-.026052	-.004259	-.000835	.0118660	.0003602	.0124629
#2	-.035514	-.001917	-.001089	.0069051	-.000652	.0146376
#3	-.034444	-.014371	-.000841	.0063501	.004210	.0120502

Reviewed By:
On:
Inst Id :P5
LB :LB136434

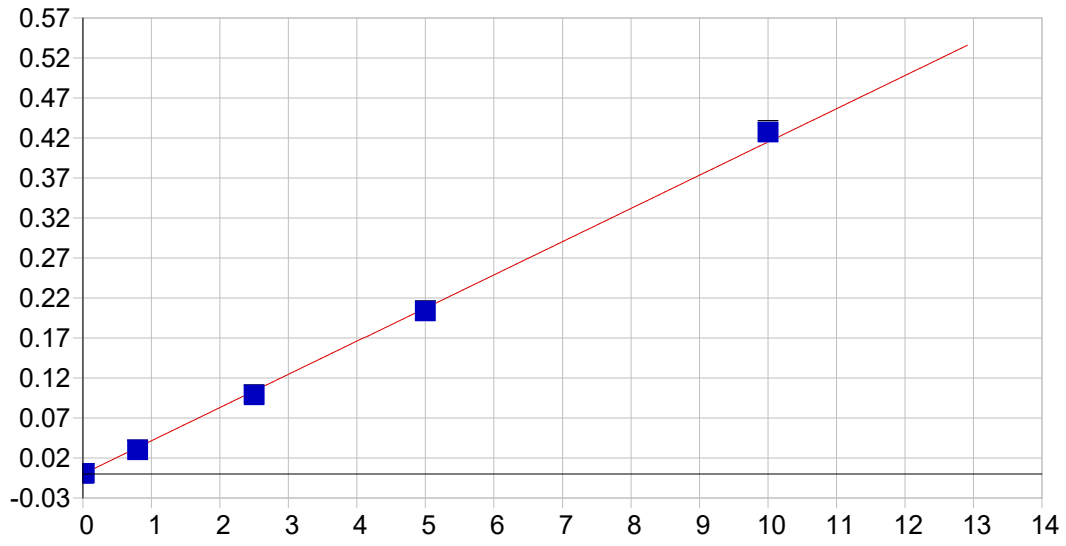
Sample Name: CCB11 Acquired: 7/11/2025 6:47:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v32) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002815	.0024674	-.003838	.0005627	.0048052	F -.030790
Stddev	.0007434	.0027007	.001633	.0003115	.0048597	.003929
%RSD	264.0430	109.4553	42.56119	55.35632	101.1354	12.76028
#1	-.000460	.0054701	-.002896	.0002513	.0060990	-.027530
#2	.001027	.0016950	-.005723	.0008743	.0088871	-.029687
#3	.000278	.0002370	-.002893	.0005625	-.000571	-.035152

Elem	Sr4077
Units	ppm
Avg	.0000894
Stddev	.0002735
%RSD	305.7356
#1	.0001266
#2	.0003424
#3	-.000201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3570.597	34187.53	2340.284	2126.667	5301.582
Stddev	21.084	204.42	14.765	8.541	25.878
%RSD	.5904908	.5979472	.6308893	.4016023	.4881222
#1	3593.758	34297.26	2325.033	2129.550	5330.467
#2	3565.514	34313.66	2341.309	2133.393	5293.765
#3	3552.519	33951.67	2354.509	2117.058	5280.513

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



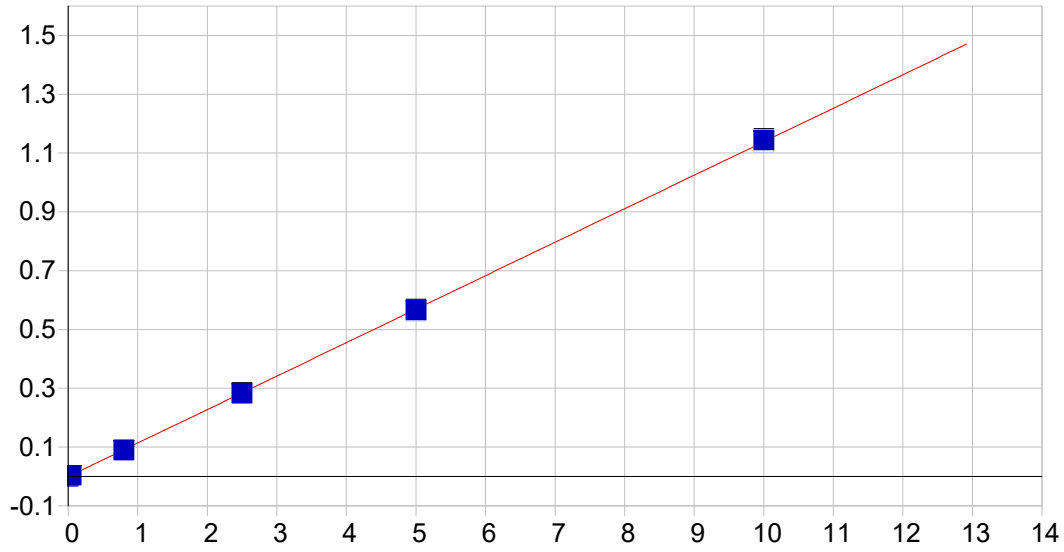
As 189.042 {479}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000049	Re-Slope:	1.000000
A1 (Gain):	0.041502	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999335	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.003342		
Predicted MQL:	0.011139		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00005	.000	1
S1	.02000	.01796	-.002	-10.2	.00070	.000	1
S2	.80000	.72090	-.079	-9.89	.02986	.000	1
S3	2.5000	2.3770	-.123	-4.92	.09858	.000	1
S4	5.0000	4.9097	-.090	-1.81	.20368	.001	1
S5	10.000	10.294	.294	2.94	.42712	.002	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



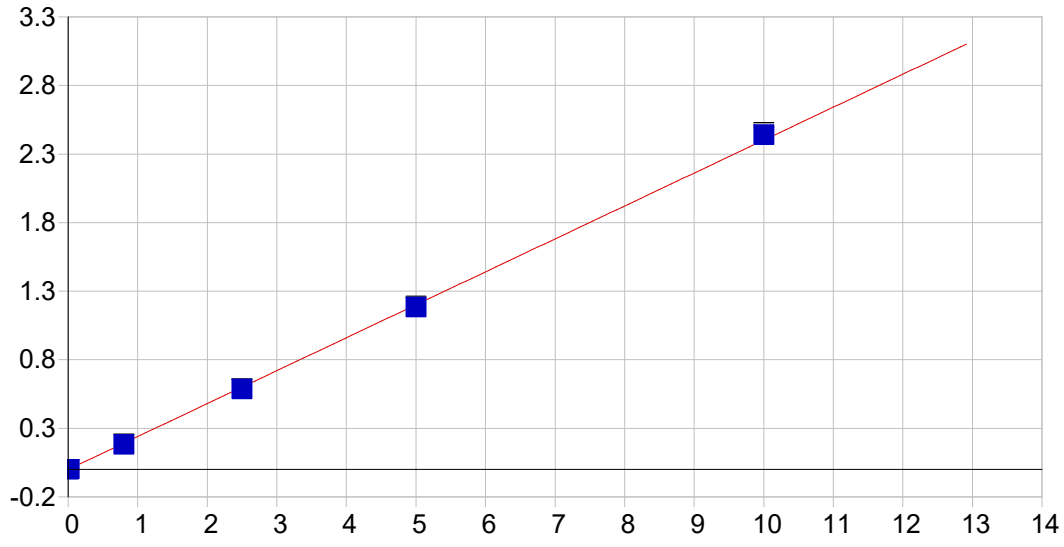
Tl 190.856 {477}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000105	Re-Slope:	1.000000
A1 (Gain):	0.113864	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.001992		
Predicted MQL:	0.006641		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.04000	.04310	.003	7.76	.00470	.000	1
S2	.80000	.78737	-.013	-1.58	.08885	.000	1
S3	2.5000	2.4866	-.013	-.535	.28086	.002	1
S4	5.0000	4.9743	-.026	-.514	.56195	.003	1
S5	10.000	10.049	.049	.487	1.1354	.005	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



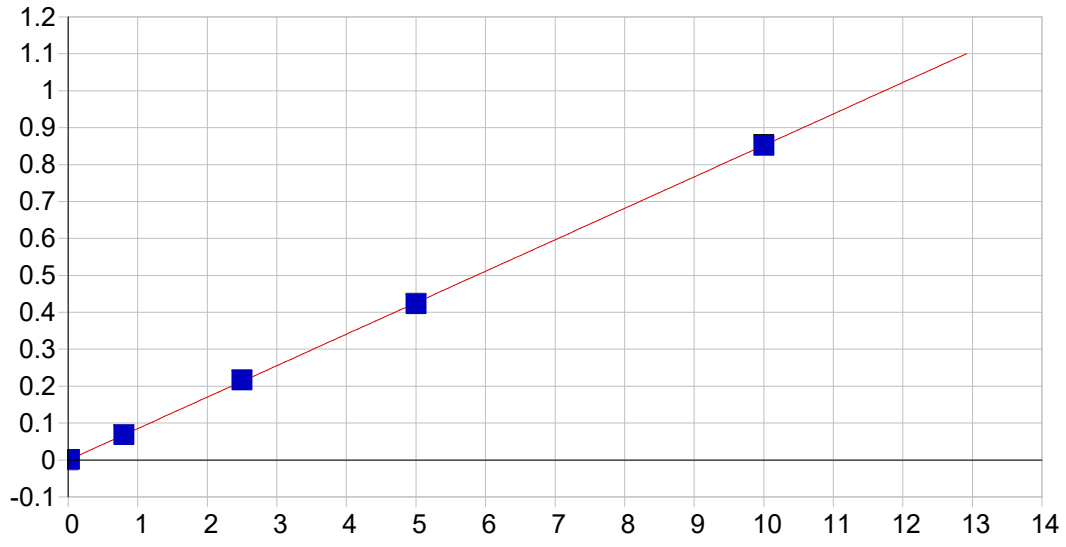
Pb 220.353 {453}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000154	Re-Slope:	1.000000
A1 (Gain):	0.240141	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.001916		
Predicted MQL:	0.006387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.01200	.01115	-.001	-7.05	.00277	.001	1
S2	.80000	.76333	-.037	-4.58	.18327	.001	1
S3	2.5000	2.4430	-.057	-2.28	.58623	.003	1
S4	5.0000	4.9330	-.067	-1.34	1.1836	.006	1
S5	10.000	10.162	.162	1.62	2.4380	.018	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



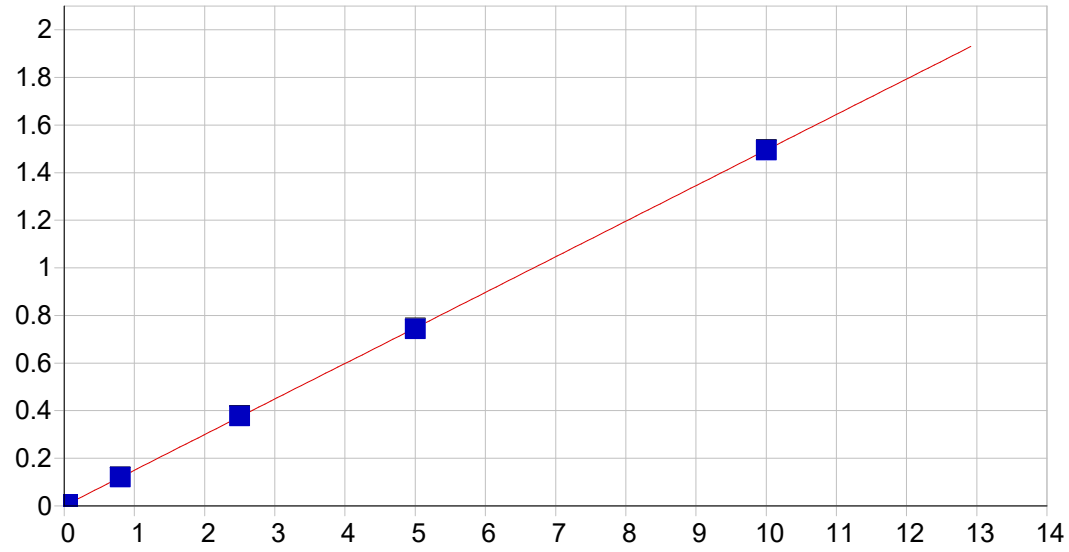
Se 196.090 {472}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000191	Re-Slope:	1.000000
A1 (Gain):	0.085219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.003737		
Predicted MQL:	0.012457		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00019	.000	1
S1	.02000	.02049	.000	2.45	.00155	.000	1
S2	.80000	.80356	.004	.445	.06825	.001	1
S3	2.5000	2.5363	.036	1.45	.21585	.001	1
S4	5.0000	4.9661	-.034	-.677	.42281	.001	1
S5	10.000	9.9935	-.007	-.065	.85104	.003	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



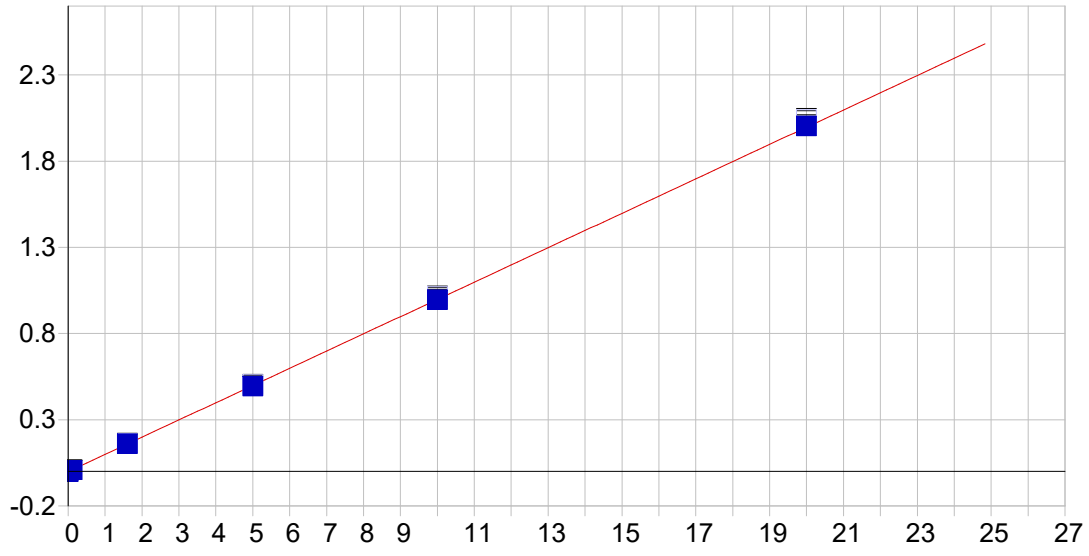
Sb 206.833 {463}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000750	Re-Slope:	1.000000
A1 (Gain):	0.149404	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002815		
Predicted MQL:	0.009383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00075	.000	1
S1	.05000	.05188	.002	3.75	.00842	.000	1
S2	.80000	.80087	.001	.108	.12022	.001	1
S3	2.5000	2.5203	.020	.811	.37672	.002	1
S4	5.0000	4.9755	-.025	-.490	.74298	.004	1
S5	10.000	10.002	.002	.015	1.4928	.002	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



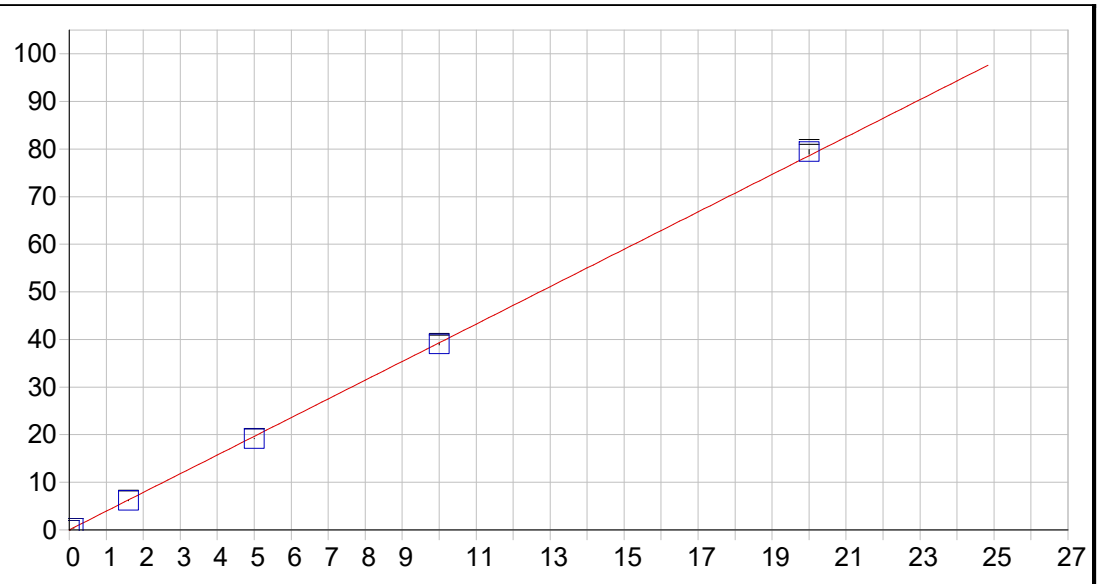
Al 396.152 { 85}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001034	Re-Slope:	1.000000
A1 (Gain):	0.099909	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	0.026103		
Predicted MQL:	0.087011		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00103	.002	1
S1	.10000	.08739	-.013	-12.6	.00844	.001	1
S2	1.6000	1.6109	.011	.679	.16288	.002	1
S3	5.0000	4.9577	-.042	-.845	.50359	.002	1
S4	10.000	9.9723	-.028	-.277	1.0139	.004	1
S5	20.000	20.072	.072	.362	2.0416	.007	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



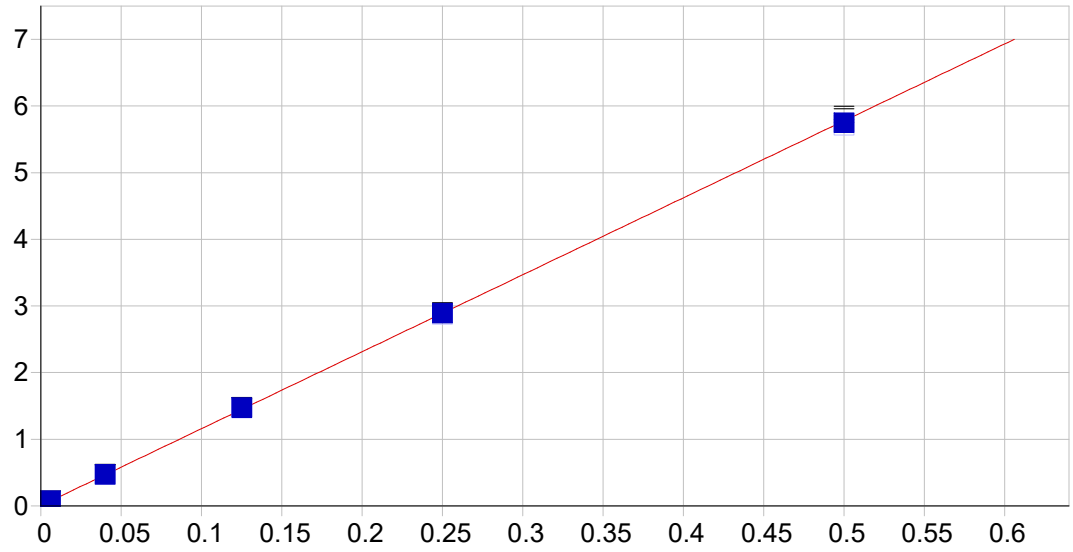
Ba 493.409 { 68}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010259	Re-Slope:	1.000000
A1 (Gain):	3.929591	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.003791		
Predicted MDL:	0.001133		
Predicted MQL:	0.003775		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01027	.003	1
S1	.10000	.10177	.002	1.77	.41017	.000	1
S2	1.6000	1.5713	-.029	-1.80	6.1847	.037	1
S3	5.0000	4.8784	-.122	-2.43	19.180	.011	1
S4	10.000	9.9349	-.065	-.651	39.050	.168	1
S5	20.000	20.214	.214	1.07	79.442	.517	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



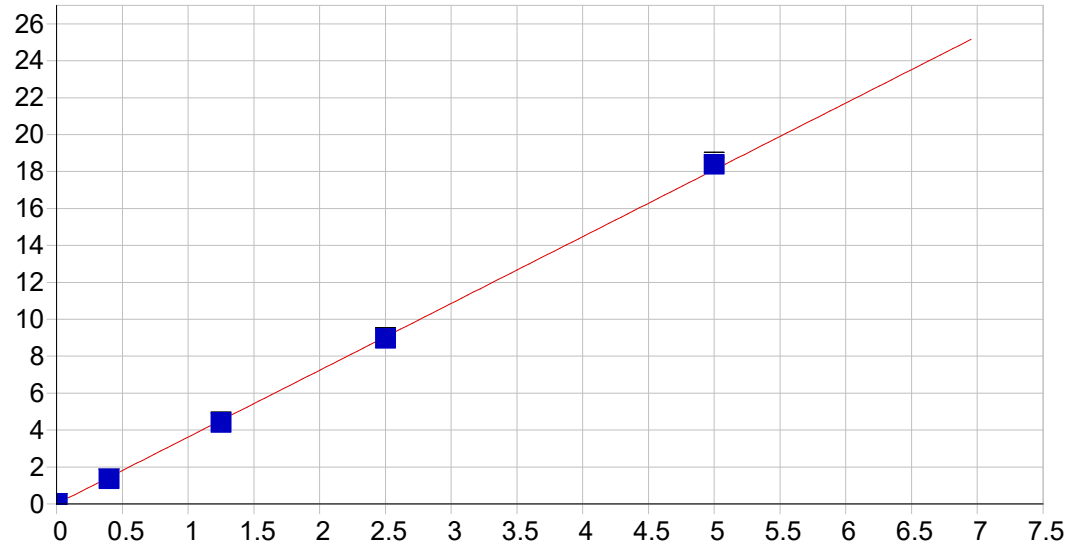
Be 234.861 {144}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004068	Re-Slope:	1.000000
A1 (Gain):	11.548087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000296		
Predicted MDL:	0.000142		
Predicted MQL:	0.000473		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00406	.001	1
S1	.00600	.00634	.000	5.72	.07658	.001	1
S2	.04000	.04040	.000	1.00	.46755	.003	1
S3	.12500	.12710	.002	1.68	1.4622	.009	1
S4	.25000	.24979	-.000	-.085	2.8694	.009	1
S5	.50000	.49737	-.003	-.527	5.7092	.103	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



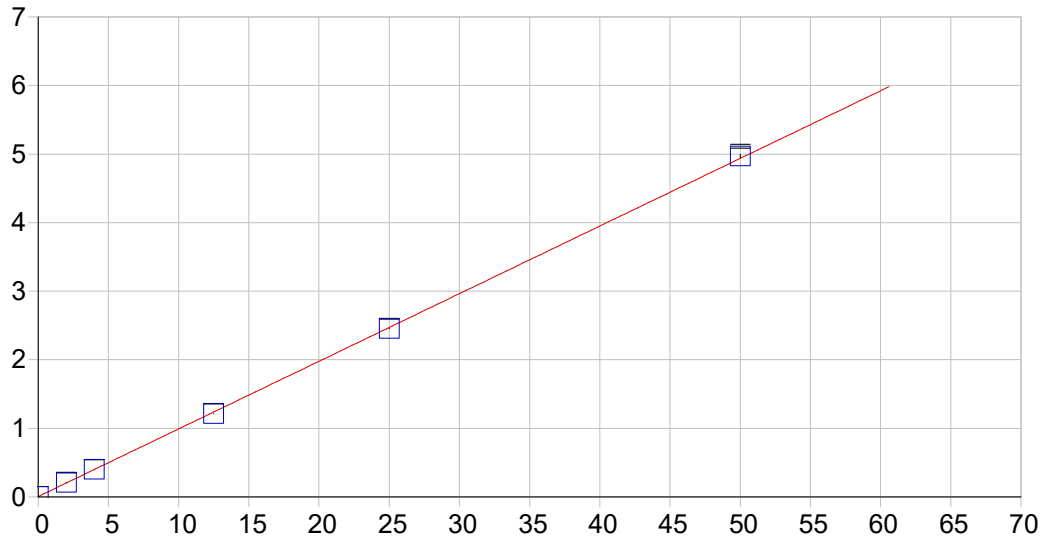
Cd 214.438 {457}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000405	Re-Slope:	1.000000
A1 (Gain):	3.618392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000667		
Predicted MDL:	0.000084		
Predicted MQL:	0.000280		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00041	.000	1
S1	.00600	.00572	-.000	-4.70	.02111	.000	1
S2	.40000	.37583	-.024	-6.04	1.3604	.004	1
S3	1.2500	1.2183	-.032	-2.54	4.4090	.023	1
S4	2.5000	2.4763	-.024	-.946	8.9615	.049	1
S5	5.0000	5.0798	.080	1.60	18.383	.127	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



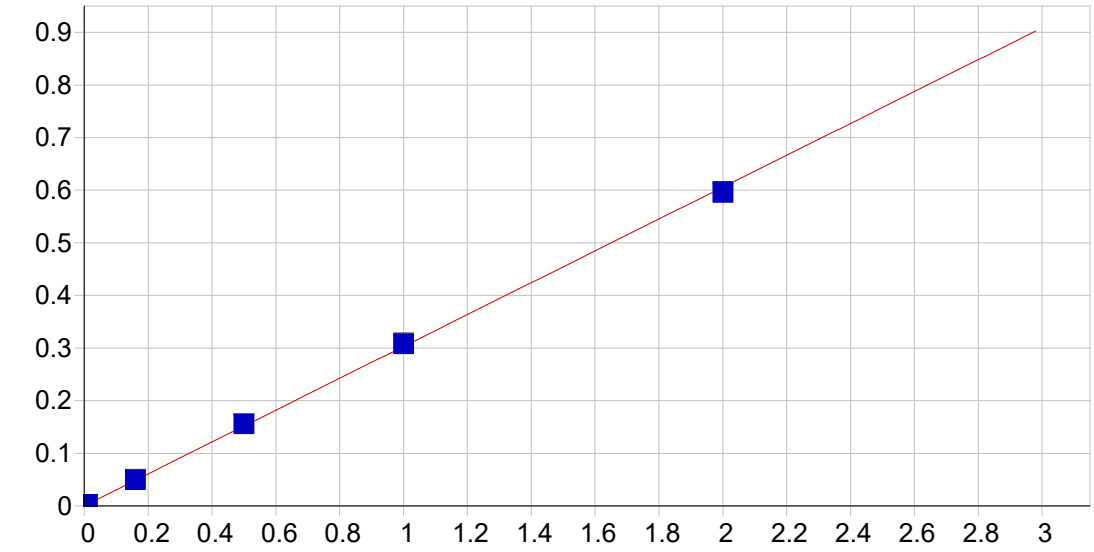
Ca 373.690 { 90}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005694	Re-Slope:	1.000000
A1 (Gain):	0.098607	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000549		
Predicted MDL:	0.023210		
Predicted MQL:	0.077366		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00569	.000	1
S1	2.0000	2.0679	.068	3.39	.20960	.004	1
S2	4.0000	3.9944	-.006	-.139	.39957	.004	1
S3	12.500	12.264	-.236	-1.89	1.2150	.002	1
S4	25.000	24.827	-.173	-.693	2.4538	.006	1
S5	50.000	50.347	.347	.693	4.9702	.026	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



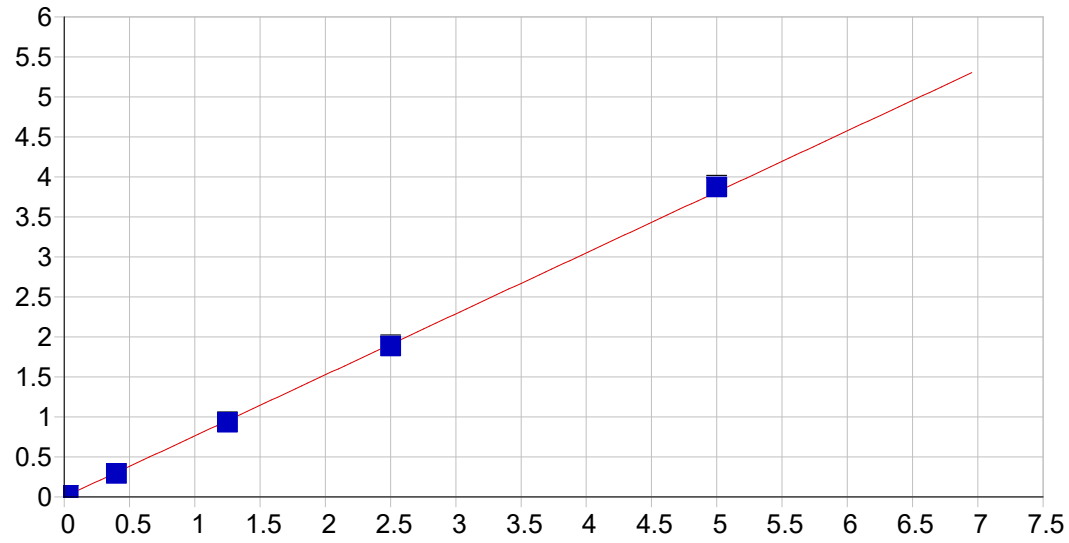
Cr 267.716 {126}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000306	Re-Slope:	1.000000
A1 (Gain):	0.302798	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999806	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.000946		
Predicted MQL:	0.003152		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00031	.000	1
S1	.01000	.01124	.001	12.4	.00371	.000	1
S2	.16000	.16335	.003	2.09	.04981	.000	1
S3	.50000	.51401	.014	2.80	.15608	.000	1
S4	1.0000	1.0154	.015	1.54	.30803	.001	1
S5	2.0000	1.9660	-.034	-1.70	.59616	.001	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



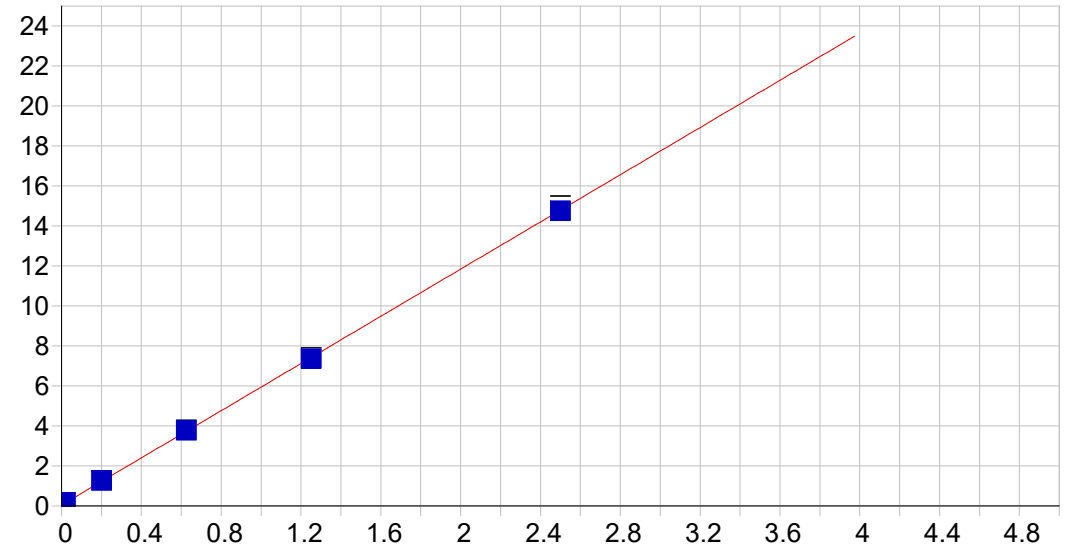
Co 228.616 {448}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000244	Re-Slope:	1.000000
A1 (Gain):	0.762580	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999819	Status:	OK.
Std Error of Est:	0.000295		
Predicted MDL:	0.000400		
Predicted MQL:	0.001333		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00025	.000	1
S1	.03000	.03039	.000	1.32	.02331	.000	1
S2	.40000	.38005	-.020	-4.99	.29062	.001	1
S3	1.2500	1.2204	-.030	-2.37	.93266	.004	1
S4	2.5000	2.4696	-.030	-1.22	1.8870	.011	1
S5	5.0000	5.0796	.080	1.59	3.8807	.015	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



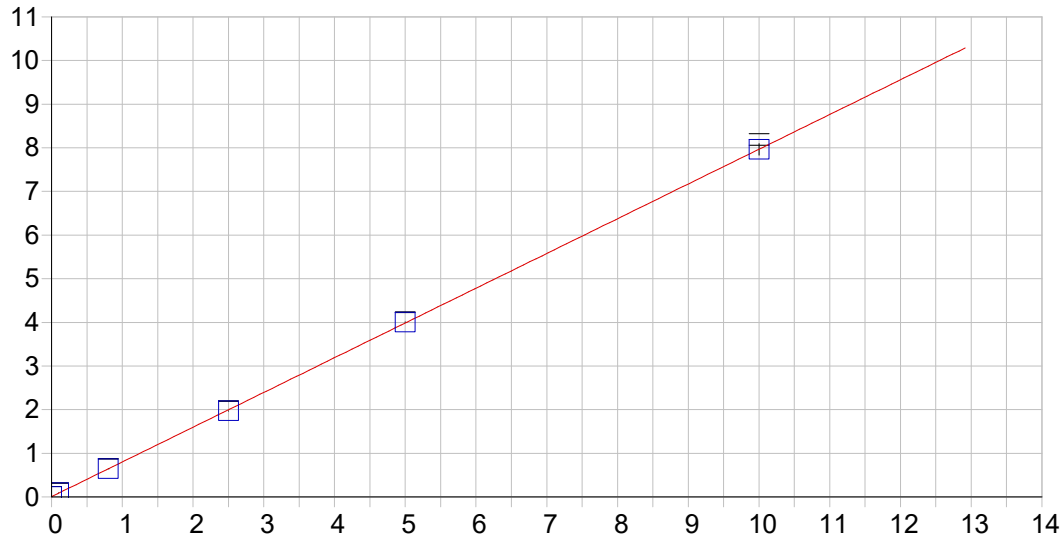
Cu 324.754 {104}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.041534	Re-Slope:	1.000000
A1 (Gain):	5.901199	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000773		
Predicted MDL:	0.000665		
Predicted MQL:	0.002216		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.04152	.004	1
S1	.02000	.02203	.002	10.1	.17156	.000	1
S2	.20000	.20639	.006	3.19	1.2601	.004	1
S3	.62500	.63230	.007	1.17	3.7747	.021	1
S4	1.2500	1.2416	-.008	-.669	7.3723	.039	1
S5	2.5000	2.4927	-.007	-.294	14.758	.250	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



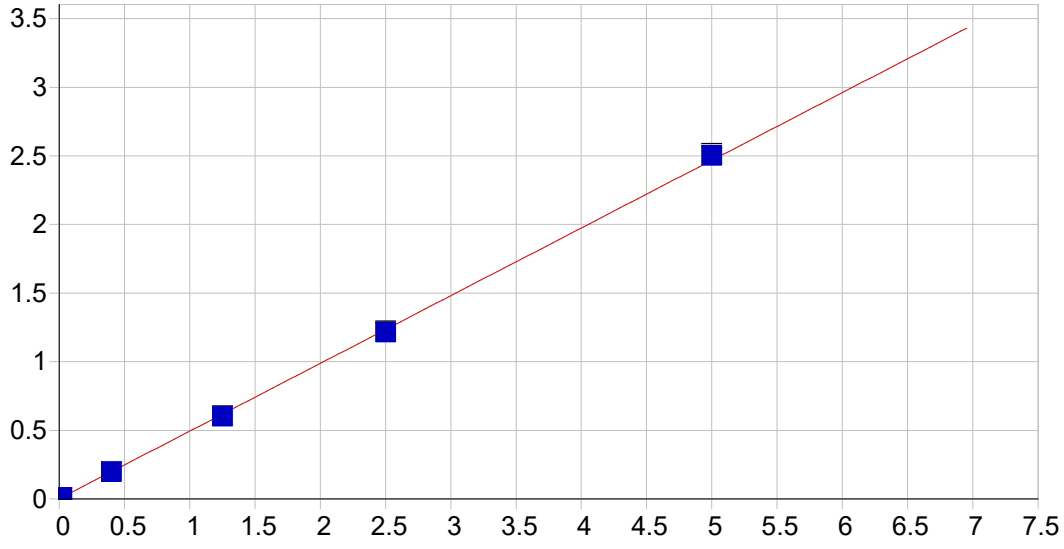
Fe 259.837 {130}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005032	Re-Slope:	1.000000
A1 (Gain):	0.796227	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000389		
Predicted MDL:	0.002376		
Predicted MQL:	0.007919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00502	.001	1
S1	.10000	.11019	.010	10.2	.09277	.002	1
S2	.80000	.80544	.005	.680	.64635	.001	1
S3	2.5000	2.4673	-.033	-1.31	1.9695	.001	1
S4	5.0000	5.0208	.021	.415	4.0027	.007	1
S5	10.000	9.9963	-.004	-.037	7.9644	.131	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



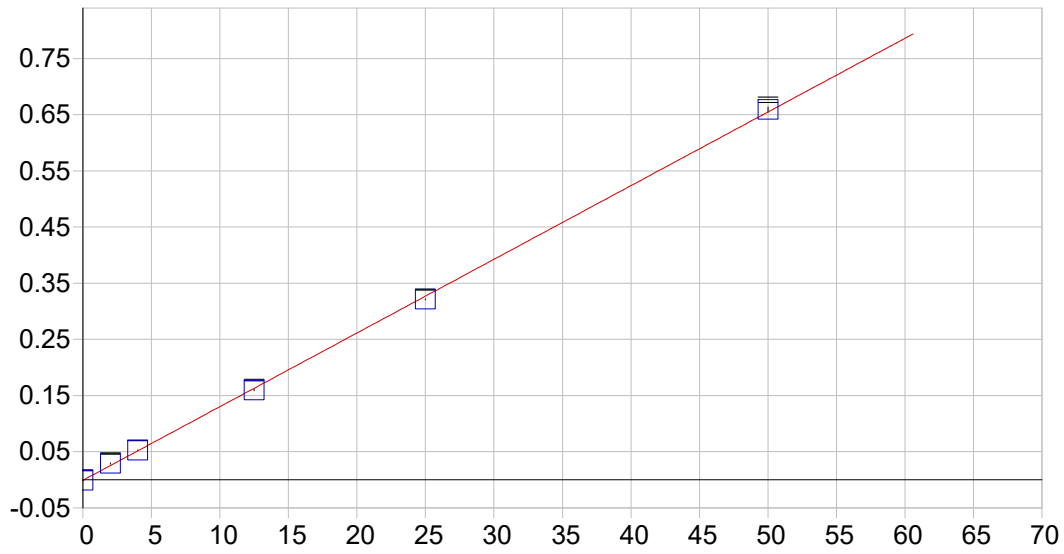
Mn 257.610 {131}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000980	Re-Slope:	1.000000
A1 (Gain):	0.493422	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	0.001381		
Predicted MQL:	0.004603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00098	.001	1
S1	.02000	.02242	.002	12.1	.01206	.001	1
S2	.40000	.39900	-.001	-.251	.19803	.002	1
S3	1.2500	1.2196	-.030	-2.43	.60333	.005	1
S4	2.5000	2.4607	-.039	-1.57	1.2162	.008	1
S5	5.0000	5.0683	.068	1.37	2.5040	.015	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



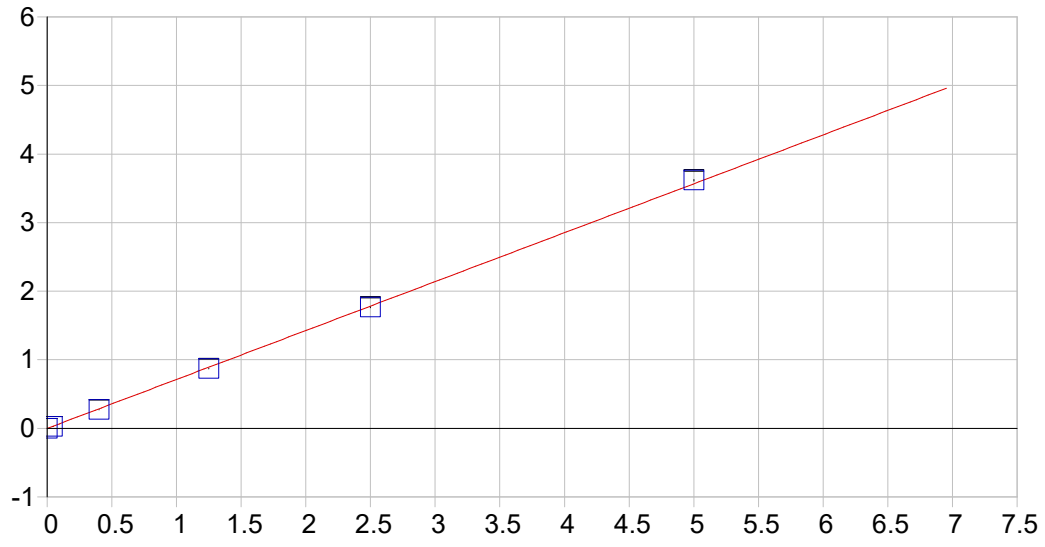
Mg 279.079 {121}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000899	Re-Slope:	1.000000
A1 (Gain):	0.013118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.000170		
Predicted MDL:	0.064679		
Predicted MQL:	0.215596		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00026	-.000	.000	-.00090	.001	1
S1	2.0000	2.2803	.280	14.0	.02901	.001	1
S2	4.0000	4.0854	.085	2.13	.05269	.000	1
S3	12.500	12.257	-.243	-1.95	.15988	.001	1
S4	25.000	24.556	-.444	-1.78	.32122	.001	1
S5	50.000	50.322	.322	.643	.65921	.005	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



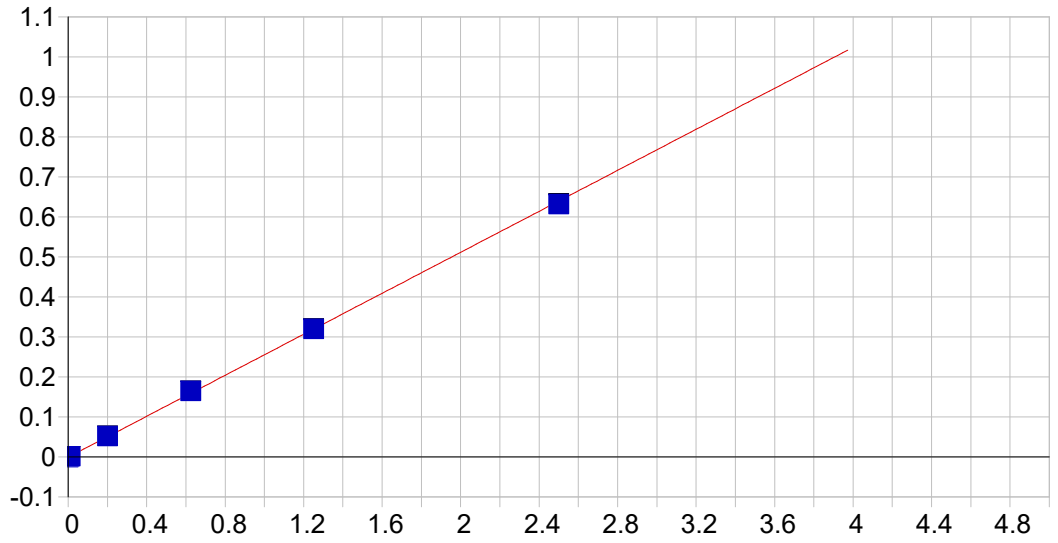
Ni 231.604 {446}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000373	Re-Slope:	1.000000
A1 (Gain):	0.713325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.000292		
Predicted MDL:	0.000500		
Predicted MQL:	0.001667		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00037	.001	1
S1	.04000	.03974	-.000	-.660	.02797	.000	1
S2	.40000	.38209	-.018	-4.48	.27218	.001	1
S3	1.2500	1.2206	-.029	-2.35	.87029	.004	1
S4	2.5000	2.4751	-.025	-.996	1.7652	.009	1
S5	5.0000	5.0725	.072	1.45	3.6180	.011	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



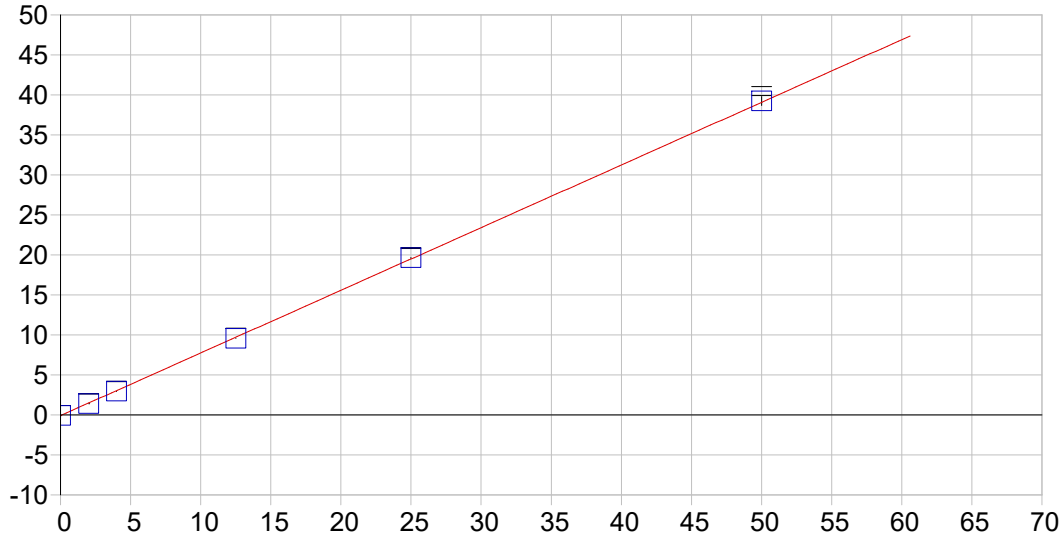
Ag 328.068 {103}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000875	Re-Slope:	1.000000
A1 (Gain):	0.256189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.001339		
Predicted MQL:	0.004465		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00088	.000	1
S1	.01000	.01080	.001	8.03	.00189	.000	1
S2	.20000	.20646	.006	3.23	.05196	.000	1
S3	.62500	.64611	.021	3.38	.16446	.000	1
S4	1.2500	1.2510	.001	.081	.31924	.001	1
S5	2.5000	2.4706	-.029	-1.18	.63130	.002	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



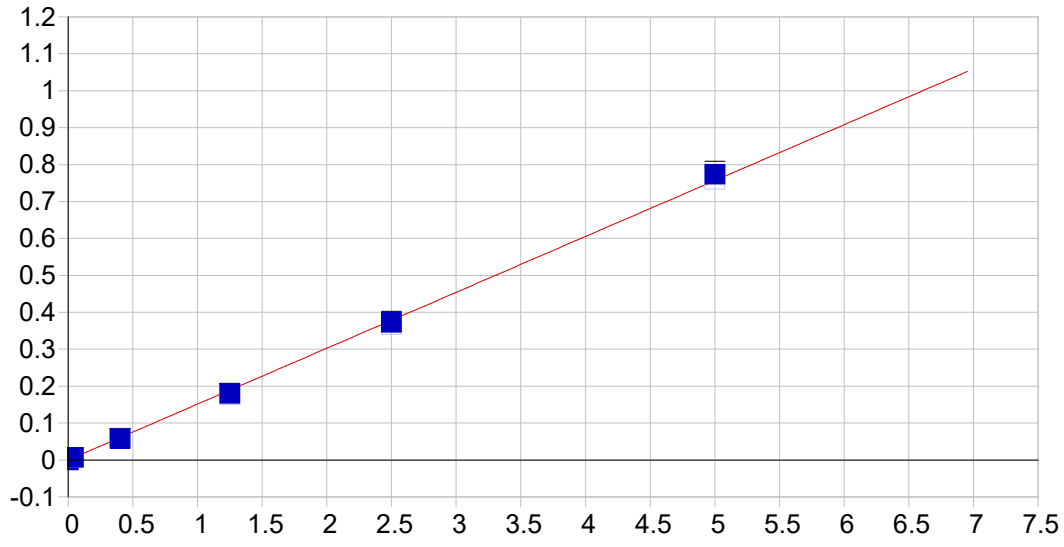
Na 818.326 { 41}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.088104	Re-Slope:	1.000000
A1 (Gain):	0.783221	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.004921		
Predicted MDL:	0.014830		
Predicted MQL:	0.049433		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00017	.000	.000	-.08797	.009	1
S1	2.0000	1.9018	-.098	-4.91	1.4014	.013	1
S2	4.0000	3.8731	-.127	-3.17	2.9454	.022	1
S3	12.500	12.335	-.165	-1.32	9.5730	.026	1
S4	25.000	25.173	.173	.692	19.628	.050	1
S5	50.000	50.217	.217	.434	39.243	.565	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



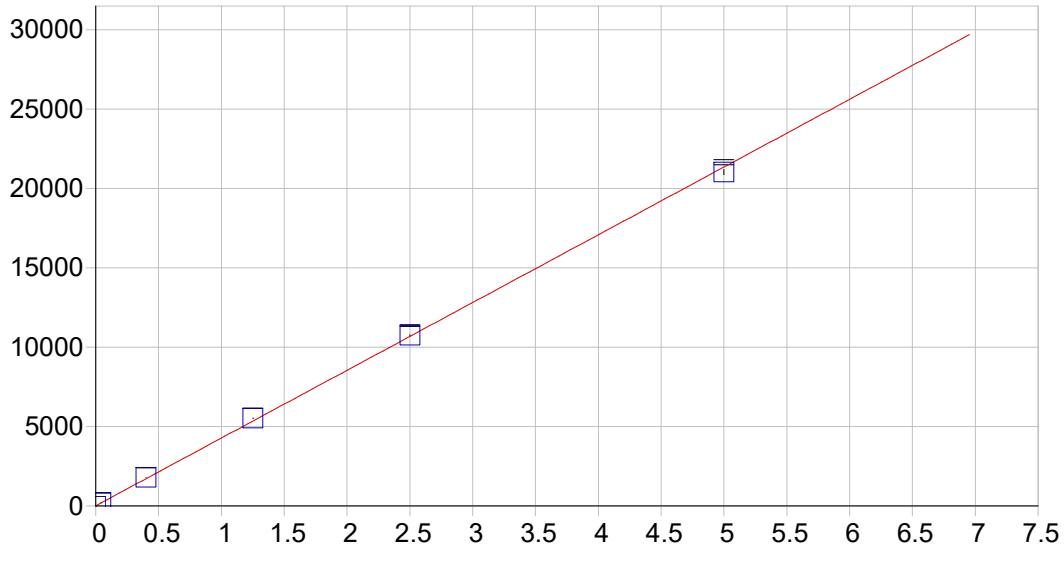
V 292.402 {115}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.151338	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999593	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.007182		
Predicted MQL:	0.023940		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.04000	.04453	.005	11.3	.00649	.001	1
S2	.40000	.38403	-.016	-3.99	.05705	.000	1
S3	1.2500	1.1884	-.062	-4.93	.17648	.001	1
S4	2.5000	2.4623	-.038	-1.51	.36590	.003	1
S5	5.0000	5.1109	.111	2.22	.75997	.008	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



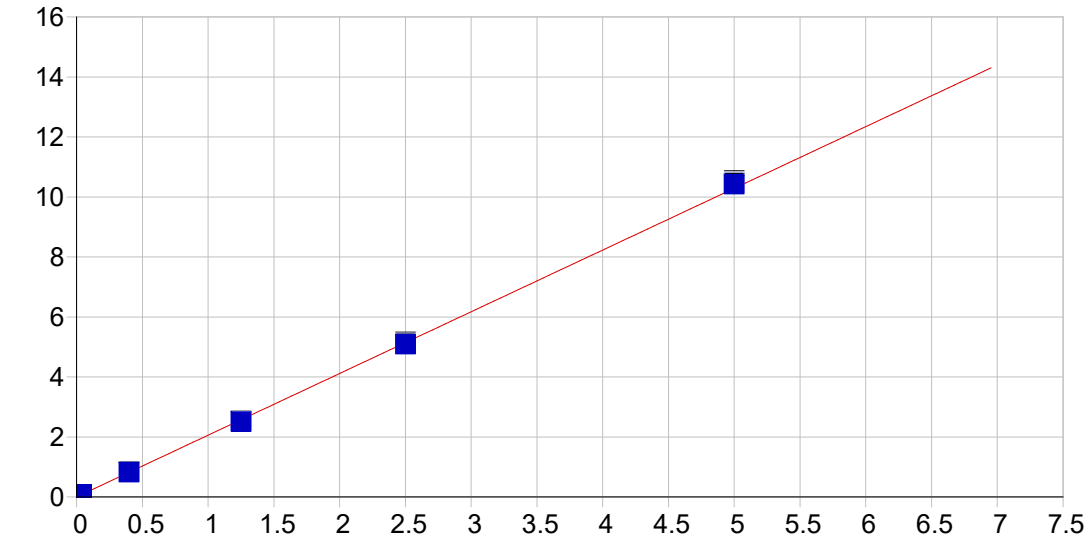
Zn 206.200 {464}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	7.376611	Re-Slope:	1.000000
A1 (Gain):	4269.578492	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999805	Status:	OK.
Std Error of Est:	1.980834		
Predicted MDL:	0.000296		
Predicted MQL:	0.000987		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	7.3508	.353	1
S1	.04000	.04340	.003	8.50	192.68	.527	1
S2	.40000	.41707	.017	4.27	1788.1	6.79	1
S3	1.2500	1.2912	.041	3.30	5520.3	4.63	1
S4	2.5000	2.5138	.014	.551	10740.	46.7	1
S5	5.0000	4.9245	-.075	-1.51	21033.	169.	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



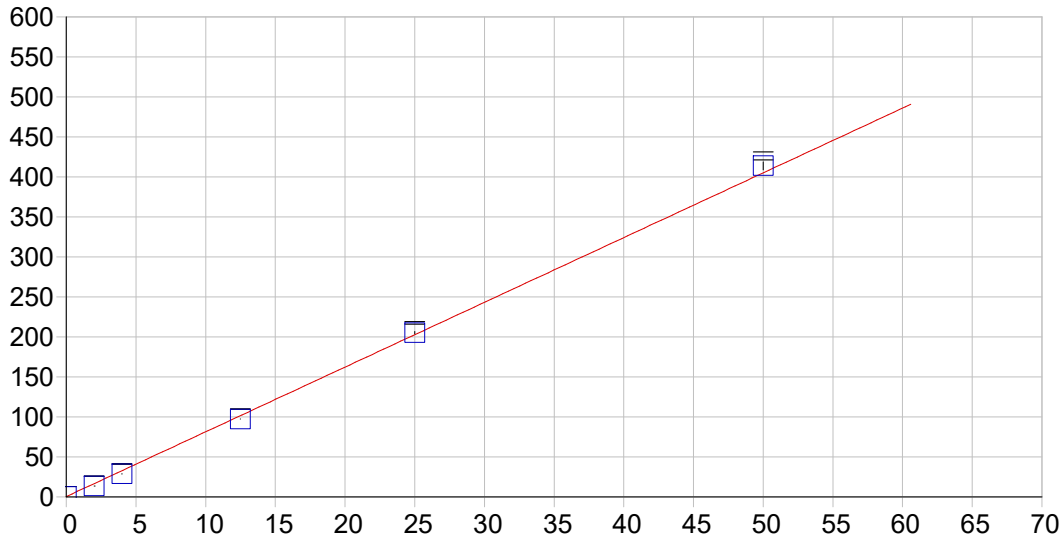
Zn 213.856 {158}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003353	Re-Slope:	1.000000
A1 (Gain):	2.057229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000751		
Predicted MDL:	0.000508		
Predicted MQL:	0.001694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00335	.000	1
S1	.04000	.04203	.002	5.08	.09042	.001	1
S2	.40000	.39775	-.002	-.563	.82760	.007	1
S3	1.2500	1.2149	-.035	-2.81	2.5215	.004	1
S4	2.5000	2.4718	-.028	-1.13	5.1259	.032	1
S5	5.0000	5.0635	.063	1.27	10.495	.047	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



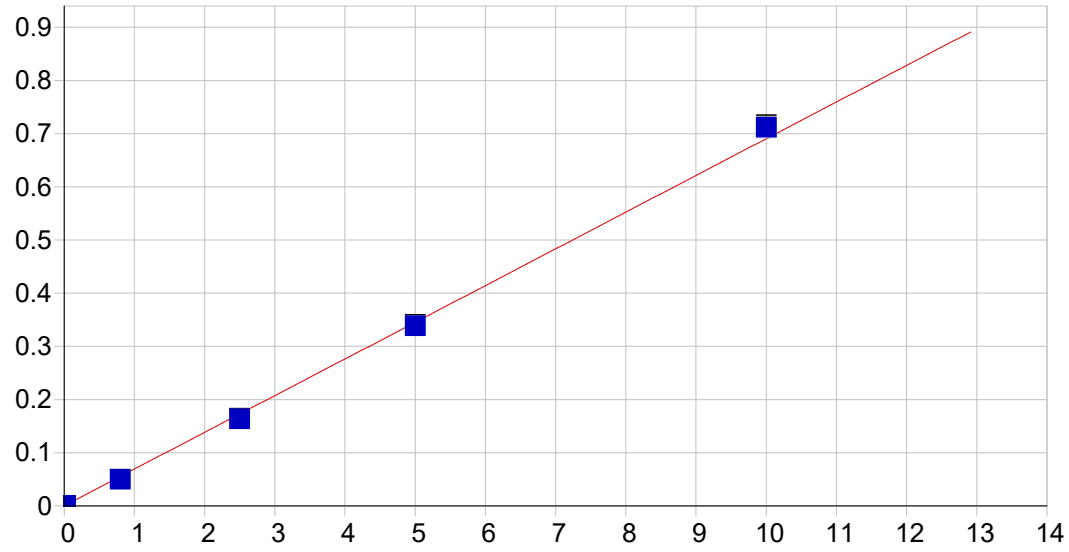
K 769.896 { 44}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.445229	Re-Slope:	1.000000
A1 (Gain):	8.092518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999016	Status:	OK.
Std Error of Est:	0.190010		
Predicted MDL:	0.001262		
Predicted MQL:	0.004207		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00065	.001	.000	.45045	.008	1
S1	2.0000	1.6157	-.384	-19.2	13.521	.107	1
S2	4.0000	3.5078	-.492	-12.3	28.832	.363	1
S3	12.500	11.976	-.524	-4.19	97.360	.078	1
S4	25.000	25.316	.316	1.26	205.31	1.61	1
S5	50.000	51.085	1.08	2.17	413.85	5.14	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



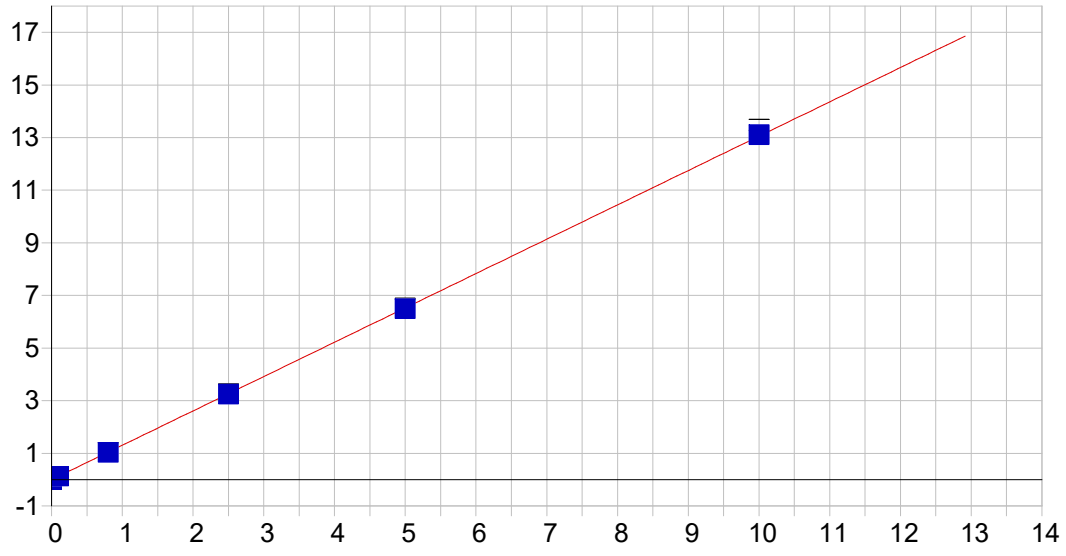
P 177.495 {490}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000321	Re-Slope:	1.000000
A1 (Gain):	0.069008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999260	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.002294		
Predicted MQL:	0.007648		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00032	.000	1
S1	.02000	.01696	-.003	-15.2	.00148	.000	1
S2	.80000	.71818	-.082	-10.2	.04975	.000	1
S3	2.5000	2.3674	-.133	-5.30	.16329	.001	1
S4	5.0000	4.9091	-.091	-1.82	.33829	.002	1
S5	10.000	10.308	.308	3.08	.71009	.005	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



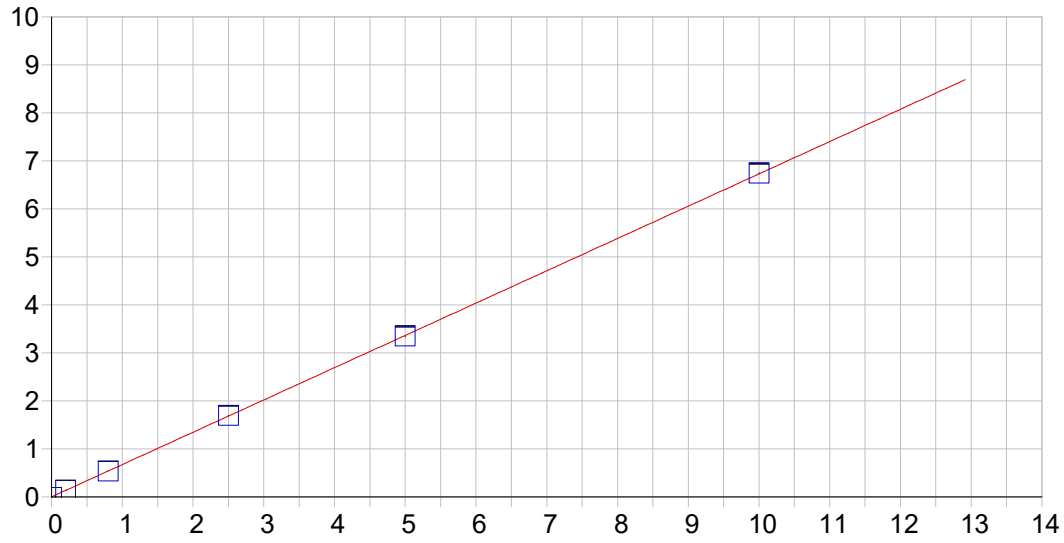
B 249.678 {135}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000171	Re-Slope:	1.000000
A1 (Gain):	1.305387	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000387		
Predicted MDL:	0.001564		
Predicted MQL:	0.005214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.001	1
S1	.10000	.10224	.002	2.24	.13314	.002	1
S2	.80000	.78709	-.013	-1.61	1.0265	.005	1
S3	2.5000	2.4906	-.009	-.377	3.2485	.011	1
S4	5.0000	4.9770	-.023	-.460	6.4918	.022	1
S5	10.000	10.043	.043	.431	13.100	.212	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



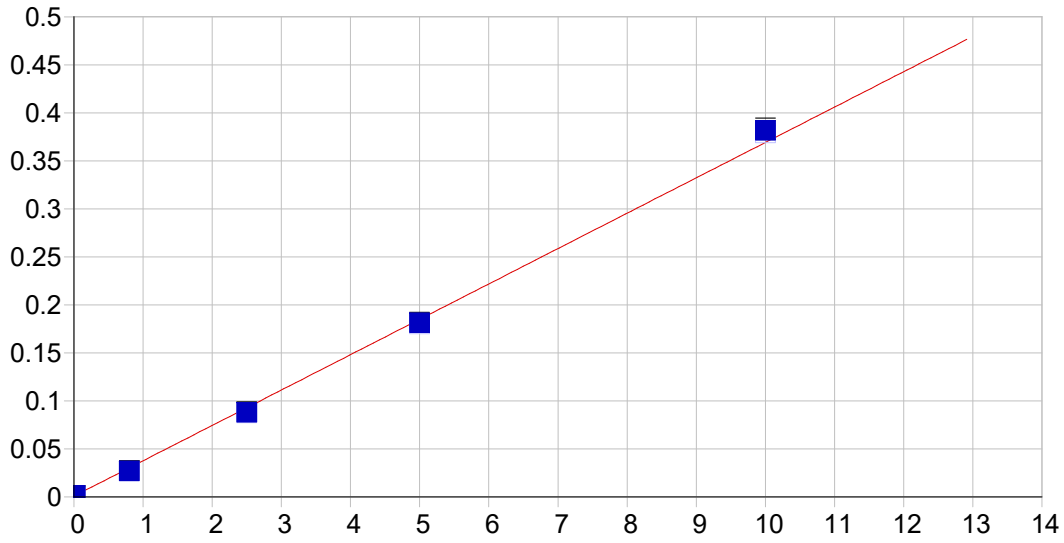
Mo 202.030 {467}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000781	Re-Slope:	1.000000
A1 (Gain):	0.672904	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000236		
Predicted MDL:	0.000512		
Predicted MQL:	0.001708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00078	.000	1
S1	.20000	.20522	.005	2.61	.13888	.000	1
S2	.80000	.79542	-.005	-.572	.53602	.003	1
S3	2.5000	2.5124	.012	.497	1.6914	.007	1
S4	5.0000	4.9716	-.028	-.569	3.3462	.016	1
S5	10.000	10.015	.015	.154	6.7402	.013	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



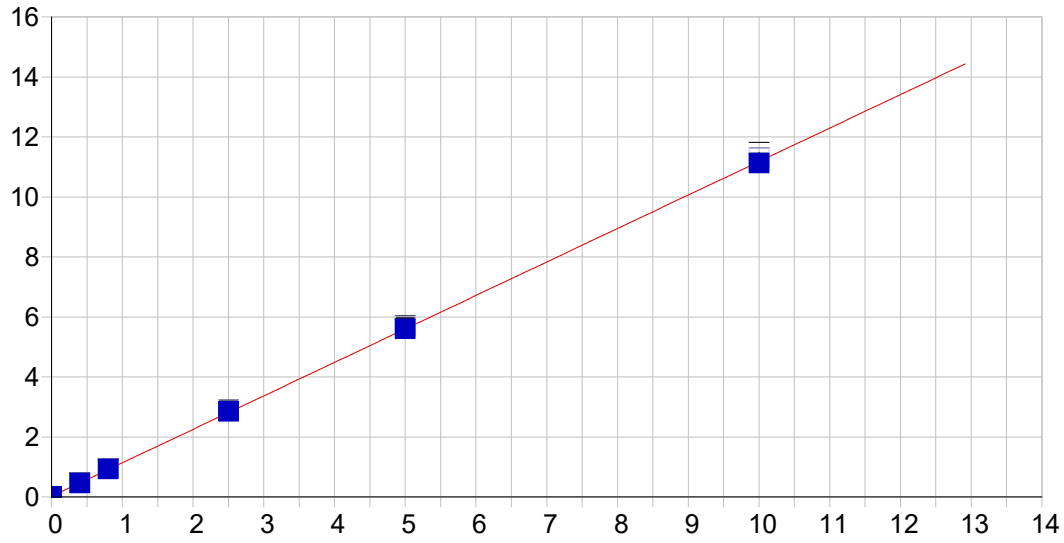
S 182.034 {485}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000803	Re-Slope:	1.000000
A1 (Gain):	0.036838	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999063	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.004080		
Predicted MQL:	0.013601		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00080	.000	1
S1	.02000	.01188	-.008	-40.6	.00118	.000	1
S2	.80000	.70948	-.091	-11.3	.02674	.000	1
S3	2.5000	2.3675	-.133	-5.30	.08740	.001	1
S4	5.0000	4.8960	-.104	-2.08	.17994	.001	1
S5	10.000	10.335	.335	3.35	.37906	.003	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



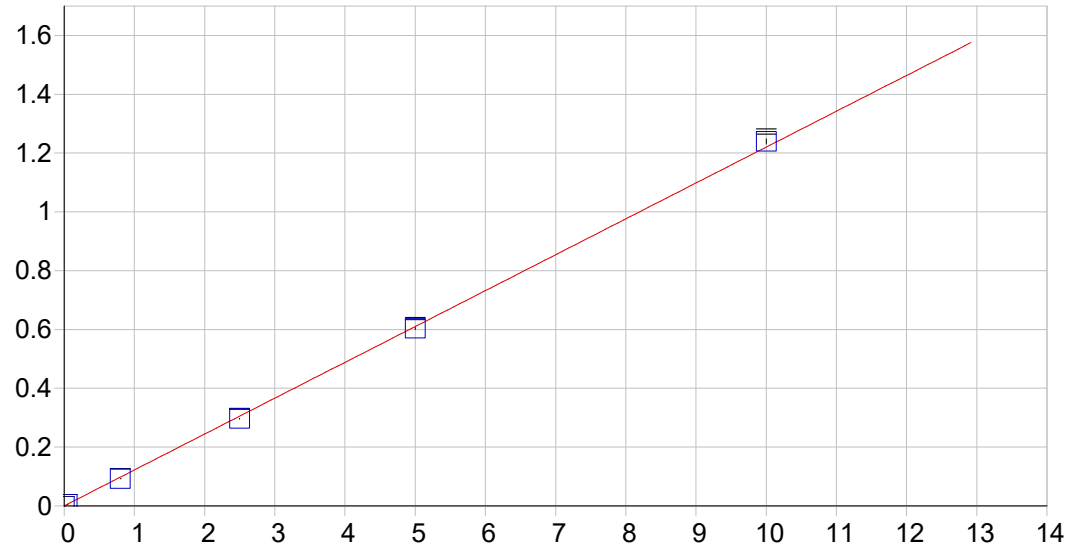
Si 251.611 {134}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020501	Re-Slope:	1.000000
A1 (Gain):	1.115863	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000881		
Predicted MDL:	0.001669		
Predicted MQL:	0.005563		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.02049	.003	1
S1	.40000	.39704	-.003	-.740	.46614	.002	1
S2	.80000	.81383	.014	1.73	.94306	.001	1
S3	2.5000	2.5368	.037	1.47	2.8963	.008	1
S4	5.0000	5.0011	.001	.022	5.6913	.024	1
S5	10.000	9.9512	-.049	-.488	11.305	.181	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



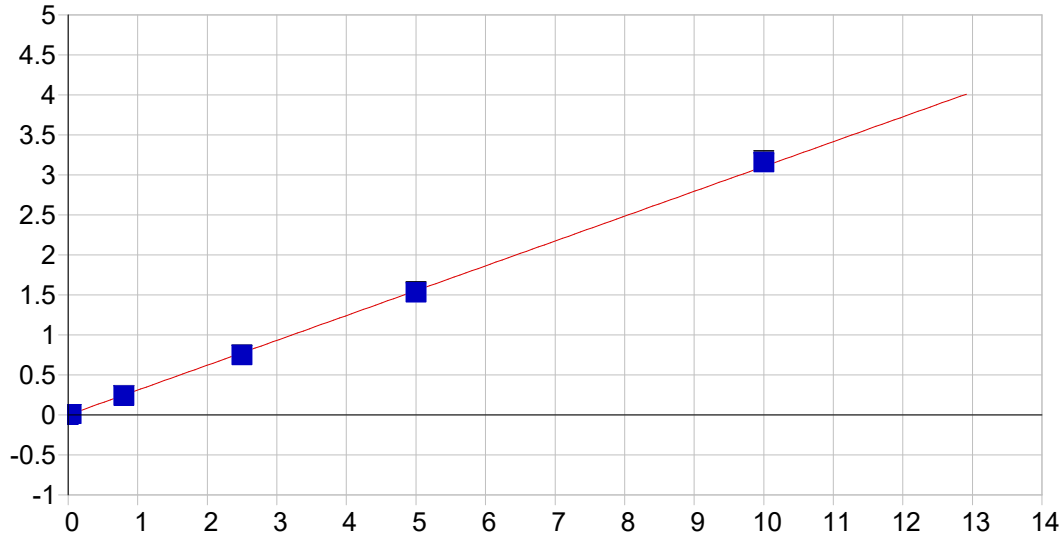
Sn 189.989 {478}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000303	Re-Slope:	1.000000
A1 (Gain):	0.121984	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000083		
Predicted MDL:	0.001163		
Predicted MQL:	0.003878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00030	.000	1
S1	.04000	.04391	.004	9.77	.00566	.000	1
S2	.80000	.75682	-.043	-5.40	.09262	.000	1
S3	2.5000	2.4304	-.070	-2.78	.29678	.002	1
S4	5.0000	4.9481	-.052	-1.04	.60389	.004	1
S5	10.000	10.161	.161	1.61	1.2398	.009	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



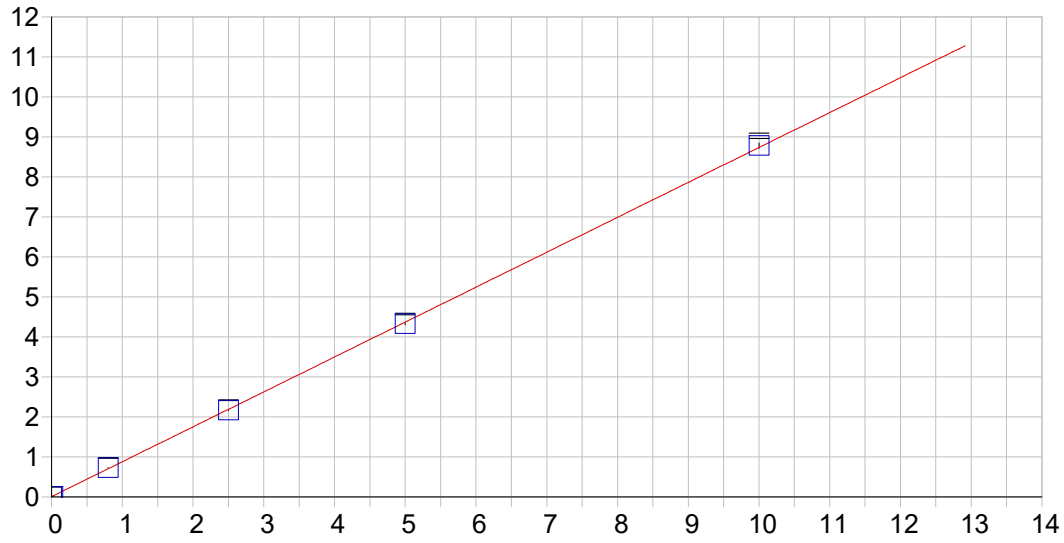
Ti 336.121 {100}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000188	Re-Slope:	1.000000
A1 (Gain):	0.310523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999793	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.004573		
Predicted MQL:	0.015244		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.002	1
S1	.04000	.04128	.001	3.21	.01262	.000	1
S2	.80000	.77967	-.020	-2.54	.24179	.001	1
S3	2.5000	2.4094	-.091	-3.62	.74761	.002	1
S4	5.0000	4.9374	-.063	-1.25	1.5322	.007	1
S5	10.000	10.172	.172	1.72	3.1570	.017	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



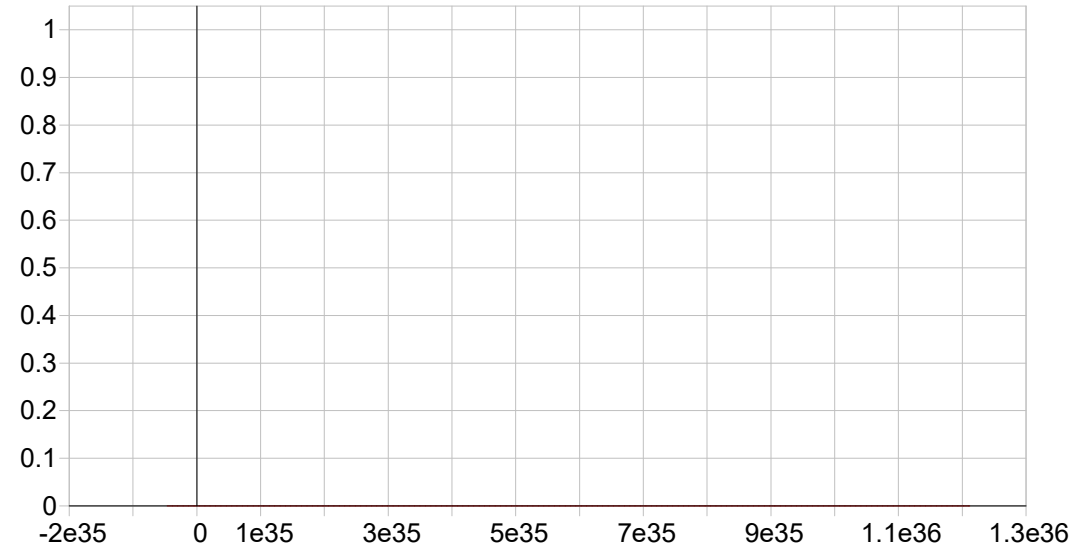
Li 670.784 { 50}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006143	Re-Slope:	1.000000
A1 (Gain):	0.872914	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000219		
Predicted MDL:	0.007217		
Predicted MQL:	0.024056		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00615	.005	1
S5	10.000	10.053	.053	.526	8.7812	.066	1
S4	5.0000	4.9492	-.051	-1.02	4.3264	.021	1
S3	2.5000	2.4751	-.025	-.996	2.1667	.007	1
S2	.80000	.82539	.025	3.17	.72664	.007	1
S1	.02000	.01771	-.002	-11.4	.02160	.001	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

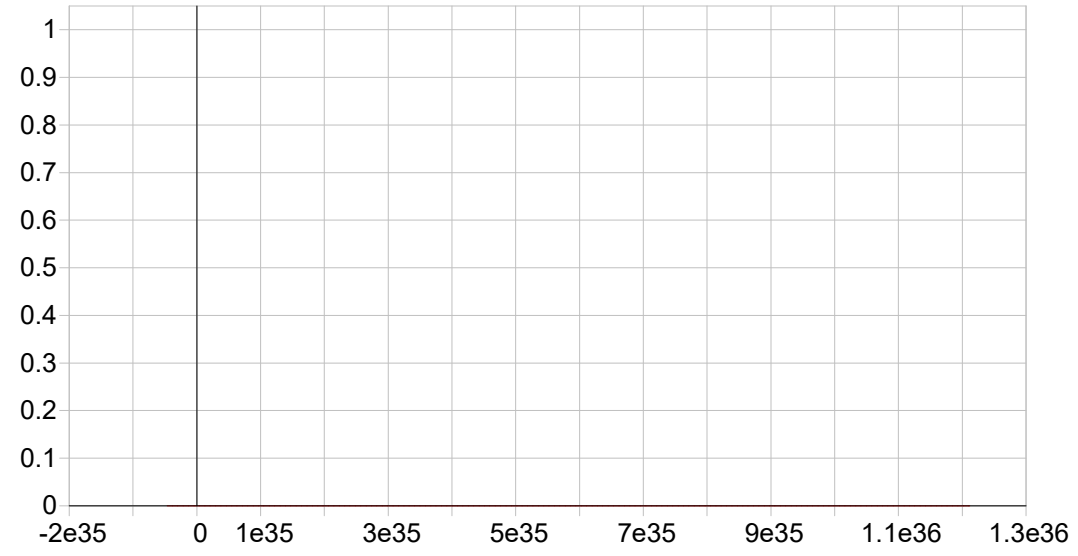


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

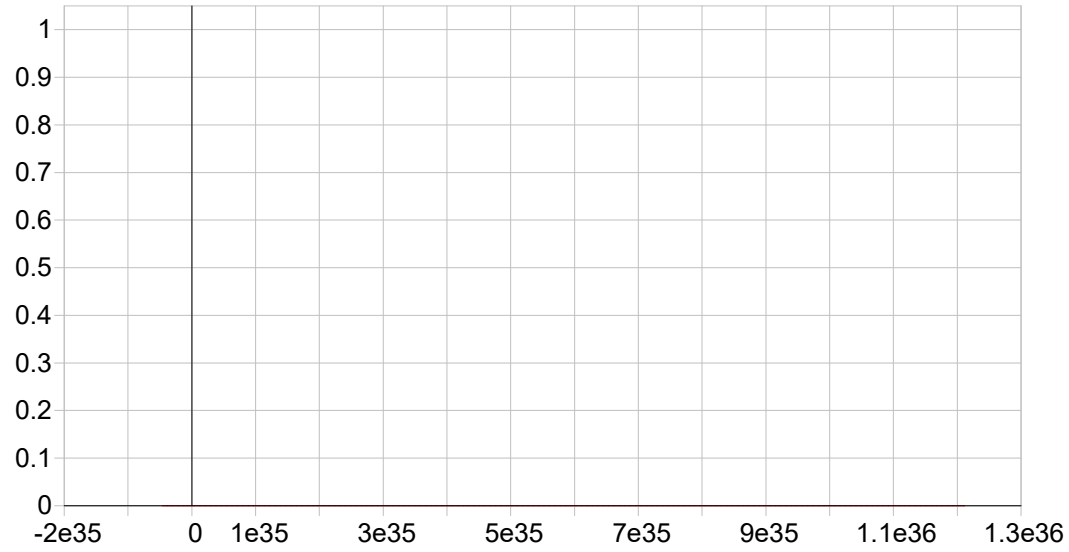
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

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

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



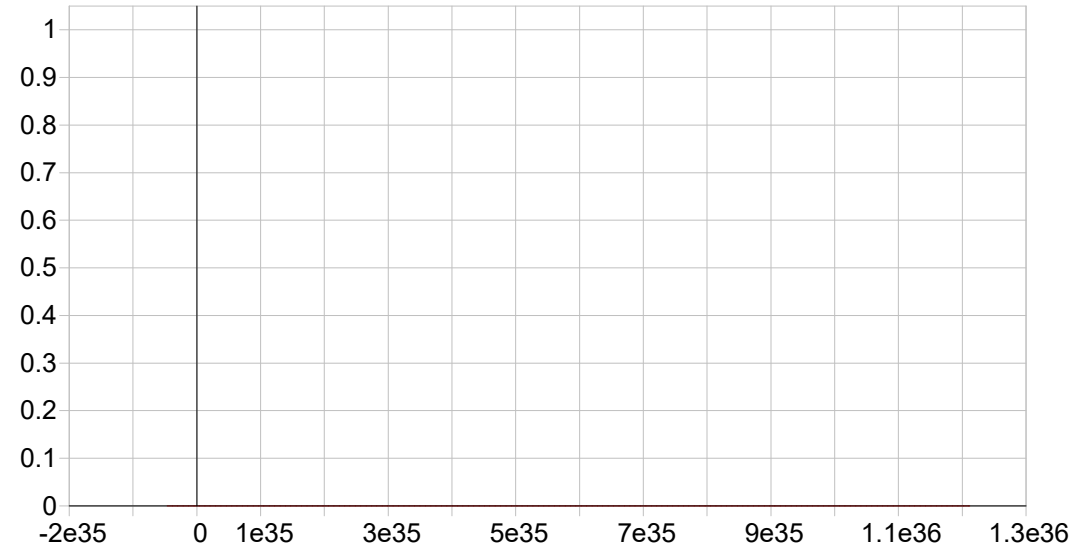
Y 371.030 { 91}*

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

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

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

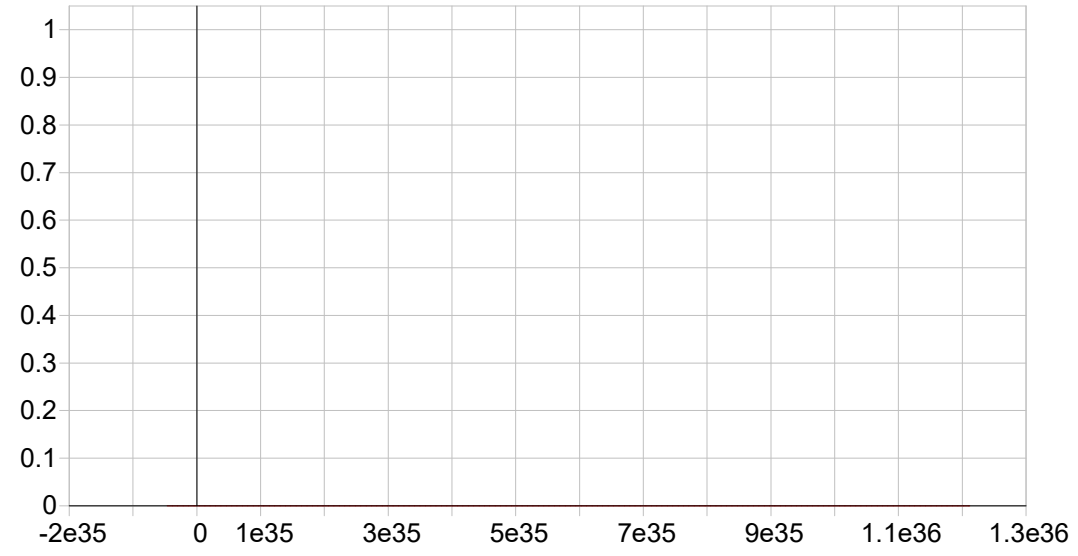
Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488



Y 224.306 {150}*

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

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



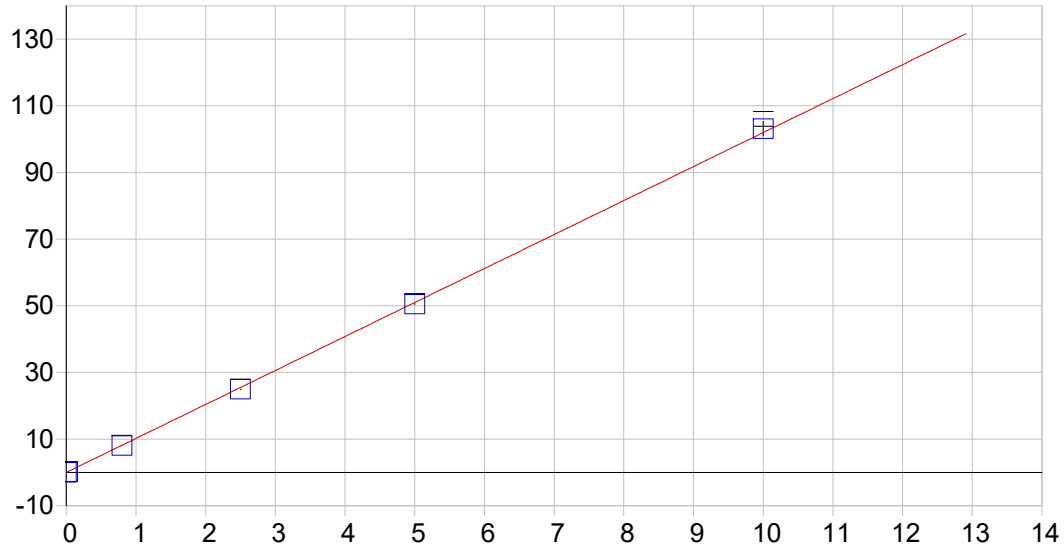
In 230.606 {446}*

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

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

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

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



Sr 407.771 { 83}

Date of Fit:	7/16/2025 1:27:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000902	Re-Slope:	1.000000
A1 (Gain):	10.198193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.003031		
Predicted MDL:	0.000248		
Predicted MQL:	0.000825		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00091	.003	1
S1	.02000	.02096	.001	4.79	.21284	.004	1
S2	.80000	.79086	-.009	-1.14	8.0644	.054	1
S3	2.5000	2.4445	-.055	-2.22	24.929	.014	1
S4	5.0000	4.9555	-.044	-.890	50.536	.159	1
S5	10.000	10.108	.108	1.08	103.08	2.20	1

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S0 Acquired: 7/15/2025 19:01:03 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**-.00005**	**-.00010**	**.00015**	**-.00019**	**.00075**	**-.00103**	**.01027**	**.00406**
Stddev	.00005	.00007	.00019	.00029	.00035	.00184	.00265	.00101
%RSD	110.37	62.631	123.95	153.53	46.202	177.86	25.794	24.748
#1	-.00010	-.00014	.00036	-.00050	.00077	.00101	.00788	.00290
#2	.00001	-.00003	-.00002	.00009	.00039	-.00255	.01312	.00459
#3	-.00005	-.00015	.00013	-.00016	.00109	-.00156	.00980	.00469

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00041**	**.00569**	**.00031**	**.00025**	**.04152**	**.00466**	**.00098**	**-.00090**
Stddev	.00028	.00040	.00008	.00006	.00372	.00062	.00069	.00094
%RSD	68.821	7.0531	25.539	23.893	8.9546	13.218	70.568	104.21
#1	.00009	.00615	.00029	.00031	.03801	.00410	.00087	-.00011
#2	.00052	.00543	.00039	.00021	.04541	.00457	.00035	-.00194
#3	.00062	.00549	.00024	.00021	.04113	.00532	.00172	-.00065

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00037**	**-.00088**	**-.08797**	**.00001**	**.00335**	**.45045**	**.00032**	**-.00017**
Stddev	.00051	.00022	.00923	.00047	.00046	.00775	.00019	.00088
%RSD	136.39	25.403	10.496	4058.8	13.755	1.7204	59.708	515.09
#1	.00018	-.00074	-.09489	.00041	.00375	.45895	.00010	.00007
#2	-.00081	-.00113	-.07749	-.00050	.00346	.44865	.00043	.00057
#3	-.00049	-.00075	-.09154	.00013	.00285	.44376	.00044	-.00115

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00078**	**.00080**	**.02049**	**.00030**	**-.00019**	**.00615**	**-.00091**
Stddev	.00031	.00010	.00257	.00013	.00159	.00492	.00325
%RSD	39.318	12.781	12.564	42.291	847.87	80.136	358.39
#1	.00047	.00090	.01805	.00038	.00152	.00279	.00117
#2	.00108	.00070	.02024	.00038	-.00046	.01180	-.00465
#3	.00078	.00081	.02318	.00015	-.00162	.00385	.00076

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S0 Acquired: 7/15/2025 19:01:03 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3281.9	34686.	2693.1	2887.6	5252.3
Stddev	7.2	208.	17.3	4.9	17.6
%RSD	.21809	.60072	.64252	.17119	.33483
#1	3276.8	34457.	2711.9	2889.9	5232.0
#2	3278.9	34865.	2689.6	2890.9	5262.3
#3	3290.1	34736.	2677.8	2881.9	5262.7

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S1 Acquired: 7/15/2025 19:05:36 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00070**	**.00470**	**.00277**	**.00155**	**.00842**	**.00844**	**.41017**	**.07658**	**.02111**
Stddev	.00015	.00011	.00061	.00036	.00019	.00092	.00050	.00122	.00040
%RSD	21.173	2.2479	22.025	23.363	2.2773	10.916	.12185	1.5979	1.8822
#1	.00063	.00459	.00311	.00152	.00822	.00882	.40988	.07535	.02119
#2	.00086	.00471	.00314	.00120	.00860	.00911	.40989	.07660	.02068
#3	.00059	.00480	.00207	.00193	.00845	.00739	.41075	.07780	.02146

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.20960**	**.00371**	**.02331**	**.17156**	**.08863**	**.01206**	**.02901**	**.02797**	**.00189**
Stddev	.00369	.00008	.00014	.00037	.00224	.00086	.00122	.00024	.00037
%RSD	1.7615	2.0771	.59955	.21520	2.5311	7.1172	4.1971	.84422	19.825
#1	.21173	.00368	.02320	.17115	.08604	.01220	.02899	.02804	.00205
#2	.21173	.00380	.02347	.17185	.09002	.01284	.02781	.02816	.00215
#3	.20534	.00366	.02328	.17170	.08983	.01114	.03024	.02771	.00146

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4014**	**.00649**	**.09042**	**13.521**	**.00148**	**.13314**	**.13888**	**.00118**	**.46614**
Stddev	.0134	.00148	.00059	.107	.00018	.00237	.00025	.00014	.00171
%RSD	.95468	22.755	.65186	.78971	12.397	1.7780	.17671	11.555	.36596
#1	1.3963	.00532	.08976	13.579	.00161	.13042	.13862	.00134	.46807
#2	1.4166	.00600	.09063	13.586	.00156	.13478	.13910	.00108	.46555
#3	1.3913	.00815	.09089	13.397	.00127	.13421	.13891	.00113	.46481

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00566**	**.01262**	**.02160**	**.21284**
Stddev	.00015	.00025	.00150	.00377
%RSD	2.7229	1.9815	6.9347	1.7728
#1	.00548	.01233	.02276	.21609
#2	.00574	.01280	.01991	.20870
#3	.00576	.01272	.02215	.21374

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S1 Acquired: 7/15/2025 19:05:36 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3219.4	35079.	2716.2	2938.4	5176.3
Stddev	3.9	163.	8.7	17.0	11.8
%RSD	.12043	.46485	.32005	.57948	.22790
#1	3219.1	35099.	2717.1	2948.3	5166.8
#2	3215.8	35230.	2707.0	2948.1	5172.5
#3	3223.5	34906.	2724.3	2918.7	5189.5

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S2 Acquired: 7/15/2025 19:10:05 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02986	.08885	.18327	.06825	.12022	.16288	6.1847	.46755	1.3604
Stddev	.00033	.00033	.00074	.00052	.00068	.00188	.0368	.00331	.0037
%RSD	1.1010	.36928	.40215	.75657	.56956	1.1557	.59542	.70896	.27206
#1	.02950	.08849	.18258	.06777	.12080	.16109	6.1642	.46405	1.3564
#2	.02994	.08894	.18319	.06820	.11946	.16272	6.2272	.47064	1.3612
#3	.03015	.08913	.18405	.06879	.12040	.16484	6.1627	.46796	1.3636

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.39957	.04981	.29062	1.2601	.61143	.19803	.05269	.27218	.05196
Stddev	.00400	.00043	.00100	.0043	.00076	.00182	.00048	.00069	.00024
%RSD	.99997	.87179	.34335	.34221	.12376	.92003	.91569	.25390	.45768
#1	.39767	.05019	.28961	1.2551	.61190	.19727	.05215	.27144	.05168
#2	.40416	.04934	.29064	1.2627	.61055	.20011	.05306	.27229	.05208
#3	.39688	.04990	.29161	1.2624	.61183	.19671	.05287	.27281	.05211

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9454	.05705	.82760	28.832	.04975	1.0265	.53602	.02674	.94306
Stddev	.0216	.00039	.00746	.363	.00024	.0051	.00269	.00031	.00134
%RSD	.73408	.67924	.90128	1.2588	.48407	.49429	.50227	1.1663	.14238
#1	2.9225	.05748	.83352	28.414	.04951	1.0209	.53558	.02675	.94351
#2	2.9482	.05672	.83005	29.060	.04977	1.0279	.53358	.02643	.94155
#3	2.9654	.05696	.81922	29.023	.04999	1.0307	.53891	.02705	.94412

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09262	.24179	.72664	8.0644
Stddev	.00019	.00129	.00663	.0544
%RSD	.20576	.53302	.91207	.67445
#1	.09242	.24178	.71900	8.0356
#2	.09279	.24309	.73084	8.1272
#3	.09266	.24051	.73007	8.0305

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S2 Acquired: 7/15/2025 19:10:05 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3182.4	34230.	2680.7	2926.1	5077.6
Stddev	3.6	126.	11.7	22.6	7.1
%RSD	.11283	.36882	.43705	.77306	.14024
#1	3179.6	34354.	2690.9	2912.9	5082.8
#2	3186.4	34102.	2667.9	2913.1	5069.5
#3	3181.2	34235.	2683.3	2952.2	5080.5

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S3 Acquired: 7/15/2025 19:14:21 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09858	.28086	.58623	.21585	.37672	.50359	19.180	1.4622	4.4090
Stddev	.00033	.00179	.00348	.00073	.00175	.00190	.011	.0087	.0225
%RSD	.33573	.63719	.59311	.33609	.46531	.37635	.05954	.59487	.51102
#1	.09857	.28002	.58451	.21501	.37560	.50511	19.191	1.4685	4.3916
#2	.09892	.28292	.59023	.21621	.37874	.50419	19.183	1.4659	4.4344
#3	.09826	.27966	.58394	.21632	.37583	.50147	19.168	1.4523	4.4009

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2150	.15608	.93266	3.7747	1.8639	.60333	.15988	.87029	.16446
Stddev	.0021	.00024	.00384	.0206	.0013	.00457	.00130	.00419	.00017
%RSD	.16930	.15634	.41141	.54693	.06895	.75733	.81461	.48134	.10226
#1	1.2127	.15623	.92937	3.7983	1.8644	.60598	.16096	.86689	.16457
#2	1.2165	.15580	.93687	3.7603	1.8649	.59805	.16025	.87497	.16427
#3	1.2160	.15622	.93174	3.7654	1.8624	.60595	.15843	.86901	.16454

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.5730	.17648	2.5215	97.360	.16329	3.2485	1.6914	.08740	2.8963
Stddev	.0256	.00055	.0038	.078	.00125	.0107	.0070	.00053	.0083
%RSD	.26776	.31396	.15224	.08034	.76764	.32936	.41391	.60106	.28636
#1	9.5780	.17602	2.5177	97.285	.16237	3.2594	1.6865	.08741	2.9059
#2	9.5452	.17634	2.5213	97.441	.16472	3.2481	1.6994	.08793	2.8915
#3	9.5957	.17710	2.5254	97.356	.16279	3.2380	1.6883	.08688	2.8915

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29678	.74761	2.1667	24.929
Stddev	.00155	.00169	.0072	.014
%RSD	.52169	.22650	.33283	.05675
#1	.29560	.74892	2.1713	24.941
#2	.29853	.74570	2.1704	24.932
#3	.29621	.74820	2.1584	24.913

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S3 Acquired: 7/15/2025 19:14:21 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3130.5	33857.	2700.1	2970.6	4841.4
Stddev	10.6	120.	7.6	14.2	22.2
%RSD	.33787	.35530	.28138	.47855	.45921
#1	3135.9	33996.	2706.9	2987.0	4854.5
#2	3118.3	33782.	2691.9	2963.3	4815.7
#3	3137.2	33794.	2701.4	2961.6	4854.0

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S4 Acquired: 7/15/2025 19:18:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.20368	.56195	1.1836	.42281	.74298	1.0139	39.050	2.8694	8.9615
Stddev	.00087	.00344	.0062	.00138	.00380	.0036	.168	.0094	.0491
%RSD	.42546	.61298	.52733	.32743	.51207	.34975	.42894	.32866	.54781
#1	.20348	.56120	1.1807	.42185	.74012	1.0101	38.921	2.8657	8.9468
#2	.20293	.55895	1.1793	.42219	.74151	1.0144	38.990	2.8623	8.9214
#3	.20463	.56571	1.1907	.42440	.74730	1.0171	39.240	2.8801	9.0163

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4538	.30803	1.8870	7.3723	3.7972	1.2162	.32122	1.7652	.31924
Stddev	.0056	.00126	.0111	.0386	.0067	.0077	.00066	.0094	.00148
%RSD	.22703	.40810	.59014	.52328	.17685	.63287	.20628	.53179	.46247
#1	2.4502	.30944	1.8853	7.3544	3.7910	1.2125	.32066	1.7617	.32093
#2	2.4510	.30704	1.8768	7.3458	3.7962	1.2111	.32106	1.7580	.31824
#3	2.4602	.30760	1.8988	7.4165	3.8043	1.2251	.32195	1.7758	.31854

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	19.628	.36590	5.1259	205.31	.33829	6.4918	3.3462	.17994	5.6913
Stddev	.050	.00273	.0318	1.61	.00203	.0216	.0159	.00075	.0243
%RSD	.25656	.74736	.61962	.78432	.60108	.33193	.47505	.41912	.42715
#1	19.637	.36355	5.1626	204.05	.33848	6.4819	3.3336	.17974	5.6864
#2	19.673	.36524	5.1066	207.13	.33617	6.4769	3.3408	.17930	5.6698
#3	19.574	.36890	5.1085	204.76	.34023	6.5165	3.3640	.18077	5.7177

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.60389	1.5322	4.3264	50.536
Stddev	.00372	.0068	.0214	.159
%RSD	.61644	.44294	.49343	.31462
#1	.60249	1.5280	4.3173	50.430
#2	.60106	1.5286	4.3111	50.460
#3	.60811	1.5401	4.3508	50.719

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S4 Acquired: 7/15/2025 19:18:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3119.0	33603.	2651.4	2862.4	4634.0
Stddev	4.2	158.	2.1	15.7	7.6
%RSD	.13541	.46930	.07792	.54781	.16369
#1	3123.0	33438.	2653.2	2846.3	4629.4
#2	3114.6	33618.	2649.2	2863.2	4642.8
#3	3119.5	33752.	2651.9	2877.7	4629.9

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S5 Acquired: 7/15/2025 19:22:54 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.42712	1.1354	2.4380	.85104	1.4928	2.0416	79.442	5.7092	18.383
Stddev	.00205	.0049	.0176	.00270	.0020	.0067	.517	.1028	.127
%RSD	.47949	.43171	.72394	.31701	.13282	.32781	.65026	1.8014	.68951
#1	.42613	1.1315	2.4272	.84798	1.4946	2.0339	79.910	5.8136	18.299
#2	.42576	1.1338	2.4284	.85206	1.4931	2.0453	78.887	5.7059	18.320
#3	.42948	1.1409	2.4584	.85307	1.4906	2.0456	79.528	5.6080	18.529

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.9702	.59616	3.8807	14.758	7.5732	2.5040	.65921	3.6180	.63130
Stddev	.0259	.00116	.0148	.250	.1179	.0152	.00482	.0106	.00176
%RSD	.52166	.19484	.38113	1.6919	1.5573	.60775	.73121	.29393	.27859
#1	4.9447	.59732	3.8717	15.014	7.6799	2.4994	.65923	3.6109	.63331
#2	4.9965	.59499	3.8728	14.747	7.5932	2.5210	.66402	3.6128	.63004
#3	4.9694	.59618	3.8978	14.515	7.4466	2.4916	.65438	3.6302	.63055

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	39.243	.75997	10.495	413.85	.71009	13.100	6.7402	.37906	11.305
Stddev	.565	.00841	.047	5.14	.00510	.212	.0133	.00274	.181
%RSD	1.4403	1.1062	.44335	1.2426	.71753	1.6171	.19689	.72170	1.6019
#1	39.765	.75650	10.441	419.27	.70699	13.307	6.7359	.37731	11.487
#2	39.321	.76956	10.523	413.23	.70730	13.110	6.7551	.37765	11.304
#3	38.642	.75386	10.521	409.04	.71597	12.883	6.7296	.38221	11.125

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2398	3.1570	8.7812	103.08
Stddev	.0087	.0172	.0664	2.20
%RSD	.70298	.54396	.75574	2.1362
#1	1.2337	3.1429	8.7455	105.58
#2	1.2358	3.1761	8.8578	102.25
#3	1.2497	3.1519	8.7403	101.42

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: S5 Acquired: 7/15/2025 19:22:54 Type: Cal
Method: METHOD 6010D, 200.7 M(v41) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3049.9	33546.	2609.5	2778.4	4389.1
Stddev	16.1	45.	43.1	11.7	10.7
%RSD	.52856	.13278	1.6511	.42068	.24461
#1	3053.0	33532.	2570.4	2790.9	4399.8
#2	3032.5	33510.	2602.4	2767.8	4378.3
#3	3064.3	33596.	2655.7	2776.4	4389.3

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICV01 Acquired: 7/15/2025 19:27:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.756499**	**3.794167**	**3.806208**	**3.831454**	**3.987402**	**7.768521**	**7.991583**
Stddev	.012268	.010263	.001185	.005596	.002107	.024778	.051312
%RSD	.3265724	.2704976	.0311454	.1460568	.0528420	.3189594	.6420813
#1	3.742757	3.783320	3.805770	3.836375	3.988581	7.740473	7.933666
#2	3.760392	3.795459	3.805303	3.832619	3.984970	7.787439	8.009716
#3	3.766348	3.803724	3.807549	3.825367	3.988656	7.777652	8.031367

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2069664**	**1.914691**	**19.43509**	**.7782337**	**1.959659**	**1.045636**	**4.091699**
Stddev	.0018923	.001864	.03564	.0049471	.001223	.011333	.052339
%RSD	.9143206	.0973512	.1833569	.6356782	.0624259	1.083816	1.279150
#1	.2048199	1.912839	19.39606	.7740852	1.958532	1.034015	4.046438
#2	.2076859	1.916567	19.44333	.7837088	1.959483	1.046235	4.079646
#3	.2083935	1.914666	19.46588	.7769072	1.960960	1.056657	4.149013

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.982803**	**19.92884**	**1.950008**	**1.033818**	**20.12239**	**1.995344**	**2.018191**
Stddev	.010076	.14281	.002959	.008591	.20311	.015283	.013006
%RSD	.5081613	.7166143	.1517628	.8310387	1.009351	.7659519	.6444387
#1	1.972997	19.78912	1.947311	1.029475	19.96916	1.980425	2.014594
#2	1.993129	19.92283	1.953174	1.043714	20.04525	2.010968	2.007362
#3	1.982283	20.07456	1.949540	1.028266	20.35277	1.994639	2.032617

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.69091**	**.0188433**	**.0345543**	**.0021059**	**.0112938**	**.0064033**	**.0077238**
Stddev	.17305	.0010073	.0016185	.0003074	.0012290	.0010224	.0008153
%RSD	.9258511	5.345777	4.683927	14.59695	10.88217	15.96635	10.55582
#1	18.59699	.0178117	.0338357	.0023670	.0120282	.0075165	.0079236
#2	18.58511	.0188938	.0364077	.0017671	.0098749	.0055063	.0068271
#3	18.89061	.0198244	.0334195	.0021835	.0119782	.0061870	.0084206

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICV01 Acquired: 7/15/2025 19:27:27 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006170	.0375427	.0005457
Stddev	.001528	.0068579	.0001179
%RSD	24.77116	18.26706	21.60404
#1	-.005967	.0332244	.0005197
#2	-.004753	.0339533	.0006744
#3	-.007789	.0454504	.0004430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3213.061	34866.07	2643.842	2879.186	4779.056
Stddev	7.263	282.59	10.200	11.841	11.516
%RSD	.2260397	.8105144	.3858026	.4112727	.2409589
#1	3216.887	34758.80	2655.558	2865.945	4785.549
#2	3204.685	34652.82	2639.029	2882.857	4765.760
#3	3217.611	35186.60	2636.939	2888.758	4785.858

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: LLICV01 Acquired: 7/15/2025 19:37:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184758	.0415986	.0117059	.0211118	.0507112	.0915918
Stddev	.0037775	.0010756	.0019120	.0016801	.0014087	.0057020
%RSD	20.44579	2.585574	16.33364	7.957881	2.777912	6.225456
#1	.0212851	.0407720	.0098011	.0198787	.0490860	.0953863
#2	.0199609	.0428146	.0136251	.0204314	.0515822	.0850347
#3	.0141814	.0412091	.0116916	.0230253	.0514655	.0943544

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1087635	.0066183	.0055743	2.089856	.0114917	.0307019
Stddev	.0015890	.0001176	.0000349	.028275	.0006308	.0004285
%RSD	1.460948	1.776470	.6252186	1.352975	5.489069	1.395722
#1	.1076725	.0065162	.0056136	2.107138	.0112451	.0302188
#2	.1105866	.0067468	.0055620	2.057226	.0110215	.0310359
#3	.1080315	.0065917	.0055471	2.105204	.0122085	.0308511

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231852	.1182445	.0238480	2.287664	.0396092	.0106564
Stddev	.0008337	.0027247	.0010253	.043472	.0005102	.0005230
%RSD	3.595959	2.304296	4.299326	1.900272	1.287973	4.907386
#1	.0224567	.1189326	.0248398	2.269481	.0401972	.0100536
#2	.0230043	.1152417	.0227922	2.256235	.0392846	.0109885
#3	.0240945	.1205592	.0239120	2.337274	.0393457	.0109272

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.969915	.0350152	.0434212	1.856514	.0182452	.1178480
Stddev	.021360	.0074437	.0005139	.015887	.0015301	.0014458
%RSD	1.084332	21.25866	1.183539	.8557222	8.386192	1.226805
#1	1.970012	.0425956	.0428307	1.873826	.0195059	.1188443
#2	1.991227	.0347338	.0436652	1.853111	.0165429	.1185099
#3	1.948507	.0277160	.0437676	1.842604	.0186868	.1161897

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: LLICV01 Acquired: 7/15/2025 19:37:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2024114	F .0081405	.4134749	.0439096	.0390513	F .0385080
Stddev	.0003790	.0028269	.0012727	.0009104	.0027807	.0023794
%RSD	.1872564	34.72591	.3078012	2.073259	7.120729	6.179049
#1	.2026082	.0064654	.4146785	.0428781	.0396027	.0376518
#2	.2026516	.0065518	.4121429	.0442504	.0415151	.0411971
#3	.2019745	.0114044	.4136033	.0446005	.0360362	.0366752

Elem	Sr4077
Units	ppm
Avg	.0216027
Stddev	.0001783
%RSD	.8251333
#1	.0216095
#2	.0217774
#3	.0214211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.801	36328.15	2663.038	2916.267	5228.314
Stddev	7.775	142.68	11.044	11.326	14.723
%RSD	.2332727	.3927528	.4147246	.3883571	.2815949
#1	3328.258	36246.86	2655.721	2926.271	5217.776
#2	3328.367	36244.70	2657.651	2903.971	5222.030
#3	3341.778	36492.90	2675.742	2918.560	5245.136

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICB01 Acquired: 7/15/2025 19:42:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**.0017539**	**.0015018**	**-.000172**	**.0024860**	**.0009901**	**-.010923**	**.0025713**
Stddev	.0011078	.0017636	.002105	.0007837	.0028126	.027446	.0008347
%RSD	63.15863	117.4321	1223.996	31.52560	284.0669	251.2707	32.46320
#1	.0008164	.0023564	.000812	.0029942	-.001002	-.027198	.0026376
#2	.0029763	.0026753	-.002589	.0028804	.004207	.020765	.0033709
#3	.0014691	-.000526	.001261	.0015834	-.000235	-.026335	.0017054

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001231**	**-.000001**	**.0443450**	**.0008665**	**-.000235**	**.0003343**	**-.005278**
Stddev	.0001652	.000081	.0316336	.0001669	.000090	.0009375	.001525
%RSD	134.1764	5837.260	71.33523	19.26331	38.47060	280.4763	28.89687
#1	.0003124	.000085	.0808108	.0007420	-.000338	.0006357	-.004430
#2	.0000491	-.000075	.0242764	.0010562	-.000197	.0010840	-.004365
#3	.0000079	-.000014	.0279478	.0008013	-.000170	-.000717	-.007039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013098**	**-.016872**	**.0001533**	**.0008235**	**.0195823**	**-.005765**	**.0008560**
Stddev	.0010267	.022130	.0002259	.0005098	.0051149	.007438	.0004116
%RSD	78.38122	131.1660	147.3272	61.90652	26.11991	129.0277	48.08185
#1	.0011726	-.035491	-.000098	.0003237	.0221035	.000173	.0012171
#2	.0023982	-.022721	.000339	.0008040	.0229471	-.014108	.0009430
#3	.0003587	.007595	.000219	.0013427	.0136963	-.003359	.0004079

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031060**	**-.002668**	**.0079426**	**-.000197**	**-.013074**	**-.001028**	**.0048158**
Stddev	.0029188	.000507	.0019132	.000609	.003996	.000383	.0004457
%RSD	93.97218	18.98523	24.08796	309.8162	30.56521	37.21918	9.255218
#1	.0017517	-.002664	.0075196	-.000854	-.013798	-.000593	.0050332
#2	.0011104	-.003177	.0100318	-.000087	-.016658	-.001179	.0051111
#3	.0064560	-.002164	.0062762	.000350	-.008765	-.001312	.0043031

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICB01 Acquired: 7/15/2025 19:42:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0069961	.0167017	.0003587
Stddev	.0079024	.0099137	.0000741
%RSD	112.9535	59.35756	20.65467
#1	.0158748	.0083650	.0004300
#2	.0007336	.0276639	.0003640
#3	.0043799	.0140761	.0002821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3337.693	35975.55	2604.229	2871.671	5260.439
Stddev	39.495	1425.04	15.971	89.100	57.474
%RSD	1.183313	3.961136	.6132634	3.102707	1.092571
#1	3356.228	36900.42	2585.788	2913.955	5283.347
#2	3364.511	36691.75	2613.491	2931.756	5302.926
#3	3292.339	34334.47	2613.409	2769.303	5195.043

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CRI01 Acquired: 7/15/2025 19:56:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199968**	**.0404020**	**.0105731**	**.0236338**	**.0484416**	**.0907159**
Stddev	.0021591	.0014437	.0010024	.0011117	.0008781	.0252212
%RSD	10.79732	3.573215	9.480524	4.703635	1.812681	27.80243
#1	.0213079	.0412467	.0094188	.0224963	.0491231	.0680582
#2	.0175048	.0387350	.0112240	.0236873	.0487509	.1178903
#3	.0211777	.0412242	.0110765	.0247177	.0474507	.0861993

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1120580**	**.0065598**	**.0056756**	**2.115222**	**.0109475**	**.0303783**
Stddev	.0003205	.0000745	.0000354	.024178	.0005571	.0002942
%RSD	.2859916	1.136138	.6236179	1.143071	5.089063	.9683080
#1	.1119185	.0066385	.0057071	2.142510	.0109528	.0306893
#2	.1124245	.0065508	.0056373	2.106687	.0103877	.0303411
#3	.1118309	.0064903	.0056825	2.096468	.0115020	.0301045

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0239473**	**.1127549**	**.0233323**	**2.378848**	**.0398964**	**.0112564**
Stddev	.0001956	.0010389	.0015176	.020981	.0006846	.0007533
%RSD	.8166244	.9213976	6.504104	.8819923	1.716058	6.691803
#1	.0239951	.1139516	.0216381	2.402339	.0402378	.0111393
#2	.0237323	.1122293	.0237915	2.372237	.0403433	.0120614
#3	.0241146	.1120838	.0245672	2.361969	.0391082	.0105686

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.967047**	**.0394776**	**.0440648**	**1.855601**	**.0168632**	**.1132648**
Stddev	.015926	.0053064	.0001772	.005725	.0010933	.0015784
%RSD	.8096349	13.44168	.4020577	.3085453	6.483130	1.393559
#1	1.983975	.0455118	.0439184	1.861787	.0156561	.1116616
#2	1.952361	.0373825	.0442617	1.854529	.0177867	.1133156
#3	1.964805	.0355385	.0440141	1.850487	.0171469	.1148172

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CRI01 Acquired: 7/15/2025 19:56:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1983732	F .0085173	.4161759	.0430441	.0446058	F .0387305
Stddev	.0008173	.0042173	.0018380	.0013815	.0004278	.0033916
%RSD	.4119970	49.51484	.4416527	3.209590	.9589657	8.756955
#1	.1992929	.0107681	.4180669	.0421416	.0443823	.0423357
#2	.1977301	.0036521	.4160650	.0423562	.0450990	.0356032
#3	.1980966	.0111319	.4143958	.0446345	.0443360	.0382525

Elem	Sr4077
Units	ppm
Avg	.0220438
Stddev	.0002170
%RSD	.9846196
#1	.0218864
#2	.0219535
#3	.0222914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3402.096	36667.91	2627.529	2891.659	5220.051
Stddev	5.170	52.32	3.389	15.533	3.100
%RSD	.1519553	.1426899	.1289628	.5371592	.0593769
#1	3399.217	36720.93	2628.070	2908.767	5217.309
#2	3408.064	36666.49	2623.903	2887.770	5219.431
#3	3399.007	36616.32	2630.615	2878.440	5223.414

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSA01 Acquired: 7/15/2025 20:01:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005019**	**.0017580**	**.0017968**	**-.006586**	**.0234523**	**238.6677**
Stddev	.001115	.0010851	.0004604	.006105	.0026491	.7041
%RSD	22.22276	61.72313	25.62616	92.69015	11.29573	.2950278
#1	-.006079	.0016539	.0012964	.000145	.0259329	238.1089
#2	-.003855	.0028914	.0022026	-.008139	.0237621	238.4357
#3	-.005125	.0007287	.0018914	-.011765	.0206619	239.4586

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089819**	**.0013162**	**-.001357**	**235.2365**	**.0468839**	**.0020654**
Stddev	.0001841	.0000126	.000061	1.1461	.0004998	.0002251
%RSD	2.049776	.9581428	4.509440	.4872099	1.066125	10.90051
#1	.0087727	.0013149	-.001341	234.4711	.0463546	.0020319
#2	.0090541	.0013294	-.001305	234.6841	.0473479	.0023054
#3	.0091190	.0013043	-.001424	236.5541	.0469491	.0018589

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006086**	**99.13980**	**.0052347**	**253.6911**	**.0035889**	**-.004704**
Stddev	.000699	.40421	.0006408	1.2723	.0000209	.000713
%RSD	11.48083	.4077154	12.24170	.5015249	.5823074	15.16178
#1	-.006889	99.35008	.0055385	253.6563	.0035715	-.005522
#2	-.005612	98.67380	.0056672	252.4365	.0036121	-.004375
#3	-.005758	99.39552	.0044985	254.9805	.0035832	-.004214

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1404028**	**.0022414**	**.0116104**	**.0006651**	**.0093671**	**.0294774**
Stddev	.0140559	.0041962	.0008666	.0004904	.0026102	.0011786
%RSD	10.01111	187.2100	7.464015	73.72413	27.86585	3.998198
#1	.1436609	-.002252	.0119824	.0012194	.0120101	.0306309
#2	.1250040	.002919	.0122289	.0002878	.0067909	.0282752
#3	.1525435	.006058	.0106199	.0004882	.0093003	.0295262

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSA01 Acquired: 7/15/2025 20:01:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063325	.0144602	-.008651	.0160111	-.000837	.0100190
Stddev	.0002170	.0021554	.003249	.0002968	.002026	.0050646
%RSD	3.427054	14.90547	37.55798	1.853689	242.0402	50.54979
#1	.0060953	.0145840	-.005545	.0160518	-.001571	.0152967
#2	.0063813	.0165510	-.012027	.0162854	.001453	.0095620
#3	.0065210	.0122456	-.008383	.0156960	-.002393	.0051984

Elem	Sr4077
Units	ppm
Avg	F .1022631
Stddev	.0008426
%RSD	.8239605
#1	.1025031
#2	.1013265
#3	.1029596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3142.939	32797.38	2547.827	2640.505	4214.137
Stddev	3.935	66.22	10.662	4.831	3.108
%RSD	.1252036	.2019145	.4184794	.1829414	.0737503
#1	3138.953	32724.19	2542.491	2646.052	4211.264
#2	3146.821	32814.79	2560.104	2637.222	4217.436
#3	3143.043	32853.15	2540.886	2638.241	4213.711

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSAB01 Acquired: 7/15/2025 20:05:48 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0941357**	**.0837256**	**.0479806**	**.0416890**	**.5779112**	**236.4525**
Stddev	.0018091	.0021856	.0013706	.0010866	.0062349	.5025
%RSD	1.921790	2.610368	2.856592	2.606476	1.078863	.2125037
#1	.0959282	.0818496	.0480222	.0408151	.5766704	236.1820
#2	.0941686	.0861255	.0493299	.0429057	.5723900	236.1433
#3	.0923104	.0832018	.0465896	.0413462	.5846731	237.0323

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5351460**	**.5112137**	**.9633411**	**232.9005**	**.5017556**	**.4777580**
Stddev	.0014895	.0041421	.0020177	.5377	.0029296	.0009482
%RSD	.2783264	.8102542	.2094498	.2308506	.5838696	.1984731
#1	.5334262	.5157896	.9610535	232.5926	.5051382	.4766717
#2	.5359948	.5101311	.9641025	232.5875	.5000964	.4784195
#3	.5360170	.5077203	.9648673	233.5213	.5000322	.4781829

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4868469**	**99.52460**	**.5105909**	**252.6397**	**.9532203**	**.1895164**
Stddev	.0037424	.17297	.0046238	.3162	.0016406	.0014323
%RSD	.7687006	.1737944	.9055719	.1251416	.1721079	.7557763
#1	.4911514	99.44075	.5158284	252.2759	.9516609	.1901582
#2	.4843644	99.40954	.5088698	252.7954	.9530684	.1878755
#3	.4850249	99.72351	.5070745	252.8478	.9549315	.1905156

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1547575**	**.5056029**	**1.044559**	**-.003201**	F **.0194116**	F **.0292175**
Stddev	.0198245	.0069539	.002628	.001897	.0052800	.0009066
%RSD	12.81006	1.375360	.2516034	59.25622	27.20002	3.103054
#1	.1741580	.5124768	1.042556	-.005189	.0184255	.0287787
#2	.1555800	.5057601	1.043585	-.003004	.0146942	.0286138
#3	.1345345	.4985717	1.047535	-.001411	.0251151	.0302601

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSAB01 Acquired: 7/15/2025 20:05:48 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0065945	F .0112298	F -.006311	F .0139431	F -.001789	F .0118801
Stddev	.0004446	.0021389	.000382	.0007696	.007124	.0014661
%RSD	6.742399	19.04692	6.050021	5.519792	398.2594	12.34052
#1	.0071043	.0134307	-.005877	.0137178	-.010006	.0119113
#2	.0062866	.0110998	-.006459	.0133113	.002644	.0133304
#3	.0063927	.0091588	-.006596	.0148002	.001996	.0103988

Elem	Sr4077
Units	ppm
Avg	F .1017203
Stddev	.0002207
%RSD	.2169267
#1	.1014735
#2	.1017886
#3	.1018986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3128.905	32975.44	2521.552	2645.126	4223.480
Stddev	7.429	227.62	9.690	28.903	4.283
%RSD	.2374253	.6902799	.3842765	1.092707	.1014075
#1	3126.986	33109.34	2530.575	2674.387	4225.236
#2	3137.105	33104.36	2522.769	2644.395	4226.606
#3	3122.625	32712.62	2511.311	2616.594	4218.598

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSADLX20 Acquired: 7/15/2025 20:10:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004831**	**.0018898**	**.0016114**	**-.001365**	**.0017273**	**11.81854**	**.0015579**
Stddev	.000289	.0025087	.0022157	.002498	.0025843	.06534	.0002608
%RSD	5.977520	132.7484	137.5044	183.0500	149.6114	.5528304	16.73795
#1	-.004794	-.000254	-.000677	-.000958	.0003694	11.84176	.0014986
#2	-.004562	.001275	.001765	-.004041	.0001051	11.86908	.0018432
#3	-.005136	.004649	.003747	.000905	.0047074	11.74476	.0013319

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001583**	**-.000079**	**11.79534**	**.0036096**	**.0057952**	**.0000862**	**5.531218**
Stddev	.0001746	.000053	.08416	.0003660	.0003786	.0008157	.061145
%RSD	110.3279	67.23709	.7135050	10.14006	6.532563	946.3213	1.105459
#1	.0003540	-.000029	11.82436	.0035260	.0055381	.0002669	5.580139
#2	.0001023	-.000135	11.86116	.0032926	.0056176	-.000805	5.550847
#3	.0000185	-.000073	11.70051	.0040101	.0062299	.000796	5.462669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025188**	**13.09109**	**.0004062**	**.0003542**	**.0278329**	**-.003878**	**.0021926**
Stddev	.0004806	.10526	.0000633	.0018206	.0129065	.001377	.0001667
%RSD	19.07993	.8040301	15.57230	514.0215	46.37120	35.51805	7.601182
#1	.0026174	13.16764	.0003343	-.000074	.0426963	-.002852	.0022571
#2	.0029424	13.13457	.0004535	-.001214	.0213430	-.003338	.0023174
#3	.0019965	12.97106	.0004308	.002351	.0194595	-.005443	.0020034

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.035470**	**.0011011**	**.0032657**	**.0011666**	**-.010878**	**-.005133**	**-.000071**
Stddev	.000395	.0016492	.0024558	.0002430	.000424	.001146	.000465
%RSD	1.113254	149.7799	75.19943	20.83318	3.902319	22.31653	657.2977
#1	-.035069	.0002172	.0060566	.0008927	-.011116	-.003820	.000250
#2	-.035482	.0000822	.0023049	.0013564	-.010387	-.005926	-.000604
#3	-.035859	.0030038	.0014356	.0012507	-.011129	-.005653	.000141

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSADLX20 Acquired: 7/15/2025 20:10:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009838	-.002140	.0052446
Stddev	.0019644	.001849	.0001321
%RSD	199.6689	86.42422	2.517742
#1	.0013297	-.000046	.0052337
#2	-.001131	-.002824	.0053818
#3	.002752	-.003549	.0051183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.985	37521.96	2620.707	2905.449	5206.654
Stddev	9.087	153.49	16.505	6.639	8.760
%RSD	.2630088	.4090734	.6297835	.2284905	.1682485
#1	3465.457	37599.07	2605.149	2909.634	5215.790
#2	3450.320	37621.62	2618.954	2908.919	5198.326
#3	3449.178	37345.20	2638.018	2897.795	5205.844

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSABDLX20 Acquired: 7/15/2025 20:20:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001505**	**.0042087**	**.0024459**	**.0012224**	**.0277363**	**11.20347**	**.0274689**
Stddev	.001093	.0020451	.0015429	.0016461	.0002113	.01947	.0007472
%RSD	72.59947	48.59114	63.08014	134.6579	.7618527	.1738008	2.720019
#1	-.002767	.0033414	.0040726	.0030583	.0275971	11.18389	.0268783
#2	-.000842	.0027402	.0022615	-.000122	.0279795	11.22284	.0283088
#3	-.000908	.0065445	.0010035	.000731	.0276324	11.20368	.0272195

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0242495**	**.0426673**	**11.24953**	**.0240594**	**.0270530**	**.0252574**	**5.176523**
Stddev	.0000218	.0001103	.01109	.0001008	.0003461	.0010967	.008460
%RSD	.0897572	.2584658	.0985440	.4190486	1.279539	4.342091	.1634258
#1	.0242595	.0427939	11.23734	.0239991	.0268029	.0239917	5.180788
#2	.0242645	.0426156	11.25226	.0241758	.0274481	.0258556	5.182002
#3	.0242245	.0425924	11.25900	.0240033	.0269081	.0259249	5.166780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0260453**	**12.59013**	**.0434165**	**.0094224**	**.0221657**	**.0225707**	**.0502258**
Stddev	.0020812	.04943	.0005229	.0008432	.0066380	.0046587	.0002556
%RSD	7.990733	.3926047	1.204369	8.948855	29.94741	20.64056	.5088181
#1	.0255913	12.54918	.0428649	.0099420	.0184334	.0224714	.0505175
#2	.0242286	12.64504	.0434794	.0084495	.0182338	.0272783	.0500416
#3	.0283160	12.57617	.0439050	.0098757	.0298297	.0179625	.0501182

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000403**	**-.001603**	**.0018463**	**.0007073**	**-.009266**	**-.001689**	**.0057005**
Stddev	.001117	.000556	.0007881	.0001624	.003753	.000596	.0007315
%RSD	277.3649	34.69139	42.68447	22.96663	40.49834	35.30967	12.83162
#1	-.000759	-.002004	.0011952	.0007419	-.004985	-.001014	.0051455
#2	.000849	-.001837	.0027224	.0005304	-.011984	-.001907	.0065294
#3	-.001298	-.000968	.0016214	.0008497	-.010830	-.002146	.0054266

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: ICSABDLX20 Acquired: 7/15/2025 20:20:58 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0039889	.0044742	.0052158
Stddev	.0022680	.0090679	.0001618
%RSD	56.85764	202.6719	3.101932
#1	.0059120	-.005621	.0050346
#2	.0014879	.007116	.0053459
#3	.0045667	.011928	.0052668

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3420.300	36701.49	2612.928	2830.680	5040.646
Stddev	4.033	116.90	3.044	16.188	4.101
%RSD	.1179031	.3185233	.1165083	.5718592	.0813615
#1	3419.923	36741.48	2615.024	2815.260	5045.378
#2	3416.468	36793.15	2614.324	2847.539	5038.430
#3	3424.507	36569.84	2609.436	2829.242	5038.129

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV01 Acquired: 7/15/2025 20:25:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.864943**	**5.026442**	**4.933873**	**4.661125**	**4.674811**	**9.680690**	**10.76907**
Stddev	.012045	.006668	.006739	.015018	.010584	.048057	.04960
%RSD	.2475970	.1326558	.1365952	.3221984	.2264017	.4964177	.4606102
#1	4.869270	5.033862	4.941486	4.667598	4.679489	9.736016	10.71792
#2	4.874228	5.020954	4.928670	4.671820	4.682249	9.649329	10.77233
#3	4.851332	5.024509	4.931462	4.643955	4.662694	9.656724	10.81697

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2535771**	**2.457117**	**24.86753**	**.9362366**	**2.461558**	**1.292397**	**5.245699**
Stddev	.0012745	.001704	.05933	.0030858	.001755	.000689	.010739
%RSD	.5026250	.0693455	.2385771	.3296010	.0713036	.0533127	.2047114
#1	.2542326	2.458833	24.84629	.9363832	2.462940	1.292927	5.255678
#2	.2521083	2.455426	24.93455	.9392465	2.459583	1.291619	5.247085
#3	.2543906	2.457091	24.82174	.9330800	2.462152	1.292646	5.234336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.653412**	**26.25495**	**2.464646**	**1.154223**	**25.59669**	**2.702345**	**2.637064**
Stddev	.010853	.17161	.002317	.003841	.05191	.031974	.009767
%RSD	.4090107	.6536357	.0939941	.3327577	.2027988	1.183186	.3703788
#1	2.641650	26.10128	2.467309	1.150332	25.56704	2.669237	2.625902
#2	2.655551	26.22345	2.463532	1.154326	25.56640	2.704748	2.644044
#3	2.663036	26.44013	2.463097	1.158011	25.65663	2.733049	2.641246

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.59283**	**4.957541**	**5.241195**	**4.740942**	**4.862505**	**5.201182**	**4.966494**
Stddev	.00460	.007747	.008245	.008096	.018979	.003564	.012036
%RSD	.0187193	.1562768	.1573203	.1707673	.3903146	.0685167	.2423441
#1	24.59502	4.966481	5.240362	4.743990	4.884217	5.202710	4.976119
#2	24.59594	4.952790	5.249825	4.747071	4.849070	5.197109	4.952999
#3	24.58754	4.953351	5.233397	4.731764	4.854228	5.203727	4.970364

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV01 Acquired: 7/15/2025 20:25:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.263839	5.454424	5.275561
Stddev	.021749	.028941	.018372
%RSD	.4131784	.5305879	.3482487
#1	5.238770	5.428691	5.254817
#2	5.275081	5.448827	5.282084
#3	5.277667	5.485754	5.289781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3315.384	35782.28	2566.207	2772.909	4641.250
Stddev	10.628	121.66	7.102	17.630	3.008
%RSD	.3205633	.3400049	.2767559	.6357847	.0648046
#1	3314.632	35922.12	2573.198	2793.172	4640.746
#2	3305.151	35723.99	2566.424	2764.465	4638.525
#3	3326.367	35700.73	2558.999	2761.089	4644.477

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB01 Acquired: 7/15/2025 20:29:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000600**	**.0010417**	**-.000730**	**.0040021**	**-.001253**	**-.016997**
Stddev	.001763	.0019930	.002423	.0025642	.003095	.019915
%RSD	293.6868	191.3158	331.9221	64.07059	247.0867	117.1643
#1	.000011	.0008189	-.001758	.0017698	-.001810	-.031584
#2	.000776	-.000830	-.002470	.0068028	-.004030	.005691
#3	-.002588	.003137	.002038	.0034339	.002083	-.025099

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029938**	**.0001414**	**.0000837**	**.0141411**	**.0012790**	**-.000191**
Stddev	.0004641	.0001622	.0000633	.0069310	.0012338	.000100
%RSD	15.50349	114.7376	75.57657	49.01295	96.46824	52.32845
#1	.0026055	.0000844	.0001501	.0201842	.0006747	-.000087
#2	.0028681	.0003244	.0000241	.0156636	.0026985	-.000200
#3	.0035079	.0000154	.0000769	.0065754	.0004638	-.000286

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006667**	**-.003436**	**.0000163**	**.0313644**	**-.000183**	**.0009313**
Stddev	.0005458	.002727	.0003783	.0137588	.000299	.0007253
%RSD	81.86036	79.36977	2322.470	43.86759	163.4781	77.88256
#1	.0002348	-.000311	.0004244	.0255122	-.000272	.0011091
#2	.0004851	-.004660	-.000053	.0214991	.000151	.0015511
#3	.0012801	-.005338	-.000323	.0470818	-.000427	.0001336

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0261225**	**.0002477**	**.0003764**	**-.001364**	**-.000607**	F **.0159061**
Stddev	.0109814	.0076138	.0003663	.001666	.001405	.0015750
%RSD	42.03819	3073.564	97.32276	122.1588	231.3350	9.901902
#1	.0263842	-.008065	.0007693	-.002326	-.000603	.0162026
#2	.0369708	.001925	.0000442	.000560	.000795	.0173117
#3	.0150126	.006883	.0003157	-.002325	-.002014	.0142039

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB01 Acquired: 7/15/2025 20:29:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000495**	**-.012189**	**.0002786**	**.0042268**	**-.000268**	**.0100383**
Stddev	.000232	.001437	.0004489	.0008556	.001510	.0115525
%RSD	47.00136	11.78806	161.1404	20.24184	563.6247	115.0842
#1	-.000424	-.011713	-.000086	.0049958	.001112	.0214437
#2	-.000754	-.011051	.000142	.0033052	-.000036	-.001656
#3	-.000306	-.013804	.000780	.0043793	-.001880	.010327

Elem	Sr4077
Units	ppm
Avg	**.0000157**
Stddev	.0002950
%RSD	1878.524
#1	-.000323
#2	.000218
#3	.000152

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3432.692**	**37093.93**	**2618.717**	**2852.191**	**5266.507**
Stddev	10.936	22.07	18.047	7.797	14.216
%RSD	.3185926	.0595056	.6891683	.2733765	.2699331
#1	3424.268	37073.28	2606.400	2843.871	5253.804
#2	3428.758	37091.30	2639.433	2853.371	5281.862
#3	3445.052	37117.19	2610.318	2859.332	5263.857

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: PB168772BL Acquired: 7/15/2025 20:34:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013051**	**.0003855**	**-.000894**	**-.000387**	**-.000678**	**-.003385**	**.0027118**
Stddev	.0014099	.0005354	.000447	.000625	.003821	.017878	.0007430
%RSD	108.0321	138.8816	49.98261	161.3138	563.3411	528.2197	27.40002
#1	.0006019	.0005577	-.000699	-.000290	-.002517	.014004	.0028038
#2	.0029282	-.000215	-.000577	-.001055	.003714	-.021715	.0019271
#3	.0003850	.000813	-.001405	.000183	-.003233	-.002443	.0034046

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001895**	**-.000020**	**.0282758**	**.0015965**	**-.000208**	**.0004844**	**-.001702**
Stddev	.0000410	.000053	.0315346	.0000007	.000099	.0011311	.000365
%RSD	21.63859	258.1435	111.5249	.0448225	47.51389	233.4966	21.42461
#1	.0002017	-.000010	.0583359	.0015958	-.000196	-.000821	-.001853
#2	.0002230	.000026	.0310426	.0015964	-.000312	.001118	-.001286
#3	.0001438	-.000078	-.004551	.0015972	-.000116	.001157	-.001966

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008827**	**.0473650**	**.0000050**	**.0030650**	**.0214153**	**-.002621**	**.0005568**
Stddev	.0012484	.0257498	.0001217	.0004617	.0068367	.000574	.0002202
%RSD	141.4204	54.36469	2428.025	15.06494	31.92456	21.90094	39.55768
#1	.0000652	.0183301	-.000023	.0029403	.0275538	-.001994	.0003073
#2	.0023197	.0674309	.000138	.0035763	.0140472	-.002748	.0006390
#3	.0002633	.0563339	-.000100	.0026784	.0226450	-.003120	.0007241

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000150**	**.0001486**	**.0079284**	**-.000408**	**-.014853**	**.0008524**	**.0052363**
Stddev	.001349	.0013110	.0005435	.000574	.004843	.0015878	.0004015
%RSD	900.8329	882.2404	6.854988	140.6626	32.60596	186.2768	7.667572
#1	.000631	-.001073	.0074216	-.000995	-.009628	.0012472	.0049982
#2	-.001708	-.000015	.0078613	-.000383	-.015739	-.000896	.0050109
#3	.000628	.001534	.0085023	.000153	-.019191	.002206	.0056999

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: PB168772BL Acquired: 7/15/2025 20:34:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001005	.0051114	.0000804
Stddev	.001885	.0090956	.0001061
%RSD	187.4473	177.9486	131.9434
#1	-.002617	.0095040	.0002026
#2	.001067	-.005347	.0000129
#3	-.001466	.011177	.0000257

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3446.400	37366.89	2597.069	2857.856	5255.987
Stddev	3.688	169.41	4.635	25.307	13.661
%RSD	.1070078	.4533721	.1784648	.8855258	.2599194
#1	3448.169	37273.82	2592.430	2842.287	5259.452
#2	3448.871	37264.42	2597.076	2844.224	5267.582
#3	3442.161	37562.43	2601.700	2887.057	5240.927

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: PB168772BS Acquired: 7/15/2025 21:01:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6955637**	**1.978176**	**.9276863**	**1.776344**	**.7268799**	**1.933873**
Stddev	.0025943	.007415	.0040619	.007269	.0033748	.031048
%RSD	.3729744	.3748587	.4378522	.4092246	.4642917	1.605499
#1	.6983788	1.975125	.9279524	1.784305	.7298642	1.901673
#2	.6932692	1.972774	.9234979	1.770059	.7275580	1.963625
#3	.6950432	1.986631	.9316086	1.774667	.7232175	1.936321

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2187381**	**.2074204**	**.1844584**	**1.120440**	**.3627702**	**.1907627**
Stddev	.0017568	.0015887	.0004337	.013674	.0006426	.0006704
%RSD	.8031516	.7659224	.2351004	1.220379	.1771364	.3514563
#1	.2177984	.2056621	.1845329	1.114535	.3621009	.1914758
#2	.2207649	.2087525	.1839924	1.136074	.3633822	.1906672
#3	.2176511	.2078466	.1848501	1.110712	.3628275	.1901452

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3273951**	**3.449174**	**.2187313**	**2.164920**	**.4795984**	**.0700626**
Stddev	.0023119	.026399	.0004607	.050133	.0008642	.0007520
%RSD	.7061589	.7653703	.2106409	2.315675	.1801828	1.073355
#1	.3251044	3.421512	.2185836	2.144548	.4787695	.0706383
#2	.3297277	3.474096	.2183624	2.128180	.4795316	.0703378
#3	.3273532	3.451913	.2192477	2.222031	.4804940	.0692118

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.906521**	**.3235624**	**.2161276**	F **8.121394**	**5.423809**	**.3097349**
Stddev	.023666	.0015416	.0006132	.085526	.011705	.0035533
%RSD	.8142227	.4764449	.2837014	1.053096	.2158073	1.147213
#1	2.879855	.3248804	.2168082	8.024746	5.433429	.3057860
#2	2.914678	.3218672	.2156183	8.187297	5.410777	.3126741
#3	2.925028	.3239396	.2159564	8.152140	5.427222	.3107446

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: PB168772BS Acquired: 7/15/2025 21:01:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3688903	F -.013839	.9698558	.6724599	.2090339	F .2438343
Stddev	.0011833	.003949	.0108222	.0019025	.0035248	.0113769
%RSD	.3207672	28.53204	1.115851	.2829119	1.686233	4.665817
#1	.3681832	-.018136	.9581756	.6708935	.2049970	.2454104
#2	.3702564	-.013014	.9795427	.6719093	.2115017	.2543410
#3	.3682314	-.010369	.9718493	.6745769	.2106029	.2317516

Elem	Sr4077
Units	ppm
Avg	.2108540
Stddev	.0002576
%RSD	.1221823
#1	.2105672
#2	.2109289
#3	.2110658

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3476.609	37101.95	2592.417	2831.010	5106.068
Stddev	14.616	81.21	19.477	16.002	14.379
%RSD	.4204187	.2188711	.7513002	.5652576	.2816116
#1	3473.114	37031.28	2609.906	2812.812	5096.587
#2	3464.056	37083.92	2571.427	2837.329	5099.003
#3	3492.656	37190.66	2595.918	2842.887	5122.613

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05 Acquired: 7/15/2025 21:06:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1960244**	**-.056835**	**2.050471**	**.0584177**	**.0260619**	**110.5486**	**.5860409**
Stddev	.0039393	.002683	.022244	.0049248	.0032910	.3401	.0026221
%RSD	2.009583	4.721029	1.084818	8.430267	12.62754	.3076553	.4474282
#1	.1953326	-.054939	2.057409	.0535522	.0228129	110.3336	.5885147
#2	.1924768	-.055661	2.025585	.0583012	.0259796	110.9407	.5863158
#3	.2002637	-.059905	2.068419	.0633997	.0293933	110.3715	.5832922

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112072**	**-.001572**	**60.45051**	**.2286017**	**-.001007**	**.2737287**	**272.5472**
Stddev	.0002630	.000101	.16964	.0015811	.000613	.0018066	1.7431
%RSD	2.347005	6.425739	.2806188	.6916461	60.85403	.6599926	.6395741
#1	.0113543	-.001541	60.50295	.2270500	-.000540	.2758138	271.7763
#2	.0113639	-.001685	60.58773	.2302107	-.000780	.2727396	271.3224
#3	.0109036	-.001490	60.26085	.2285445	-.001701	.2726325	274.5429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.425708**	**30.63213**	**.1373445**	**-.006243**	**2.528638**	**.4328162**	**1.457879**
Stddev	.012246	.08997	.0006179	.001843	.071283	.0070272	.009320
%RSD	.5048424	.2937057	.4498606	29.51492	2.819022	1.623604	.6393082
#1	2.428022	30.64680	.1367726	-.007247	2.476895	.4400935	1.447899
#2	2.436631	30.71387	.1372611	-.007366	2.609946	.4322860	1.459380
#3	2.412470	30.53573	.1379999	-.004117	2.499072	.4260691	1.466358

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.42859**	**7.614001**	**.0961041**	**.0123968**	**5.793116**	**13.31615**	**.2354501**
Stddev	4.50272	.101265	.0028031	.0000255	.074744	.03632	.0027473
%RSD	33.53084	1.329981	2.916775	.2057721	1.290224	.2727139	1.166820
#1	10.68247	7.623373	.0972242	.0124245	5.804915	13.32773	.2374831
#2	10.97823	7.508377	.0929141	.0123743	5.713174	13.34527	.2323246
#3	18.62508	7.710255	.0981739	.0123917	5.861259	13.27546	.2365426

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05 Acquired: 7/15/2025 21:06:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.390526	.1009059	.2794668
Stddev	.013347	.0065762	.0009215
%RSD	.9598573	6.517105	.3297422
#1	1.391930	.0986646	.2794537
#2	1.403116	.1083098	.2803948
#3	1.376533	.0957435	.2785518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3901.330	41568.85	2996.717	3208.424	4647.019
Stddev	18.002	150.55	17.760	34.659	15.634
%RSD	.4614217	.3621740	.5926544	1.080256	.3364356
#1	3918.253	41583.48	2978.919	3211.532	4662.347
#2	3882.416	41711.55	3014.439	3241.425	4647.612
#3	3903.321	41411.51	2996.793	3172.316	4631.096

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05DUP Acquired: 7/15/2025 21:11:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2057133**	**-.061555**	**2.298164**	**.0626933**	**.0224436**	**112.8249**
Stddev	.0020070	.003810	.019682	.0130364	.0004509	.4375
%RSD	.9756413	6.190300	.8564146	20.79387	2.009265	.3877850
#1	.2077324	-.065941	2.279296	.0777368	.0229234	112.3629
#2	.2037185	-.059062	2.296626	.0547069	.0220285	113.2329
#3	.2056889	-.059661	2.318569	.0556362	.0223791	112.8790

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5615934**	**.0113752**	**-.002084**	**54.90859**	**.2321220**	**-.009710**
Stddev	.0019653	.0007433	.001264	.10669	.0032360	.008895
%RSD	.3499452	6.534399	60.64416	.1942977	1.394073	91.60961
#1	.5594080	.0122064	-.003542	54.79792	.2301301	-.019970
#2	.5621565	.0107743	-.001410	54.91706	.2303801	-.004998
#3	.5632156	.0111450	-.001300	55.01078	.2358557	-.004161

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.016664**	**284.6258**	**2.335055**	**28.01451**	**.1225714**	**-.003333**
Stddev	.061440	28.2510	.019681	.06993	.0005246	.007796
%RSD	6.043266	9.925653	.8428445	.2496266	.4279953	233.9265
#1	1.087078	317.2355	2.312379	28.07468	.1222567	.005669
#2	.988955	269.0776	2.347691	27.93779	.1222805	-.007738
#3	.973959	267.5642	2.345095	28.03106	.1231770	-.007928

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.830381**	**.4538695**	**1.502580**	**12.03552**	**7.712829**	**.1113291**
Stddev	.323731	.0060702	.010773	2.23995	.089010	.0149220
%RSD	11.43774	1.337429	.7169692	18.61114	1.154047	13.40349
#1	3.170970	.4492319	1.512453	14.56125	7.622251	.1279067
#2	2.526665	.4516368	1.504198	10.29008	7.716053	.1071089
#3	2.793506	.4607399	1.491090	11.25522	7.800183	.0989717

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05DUP Acquired: 7/15/2025 21:11:20 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119496	5.645099	F 19.31248	.0742022	1.392471	.0832000
Stddev	.0003290	.063618	1.32882	.0013151	.010741	.0013849
%RSD	2.753381	1.126964	6.880620	1.772299	.7713653	1.664503
#1	.0118113	5.590177	20.84686	.0726897	1.380232	.0845788
#2	.0123252	5.630310	18.54658	.0748417	1.400328	.0818091
#3	.0117124	5.714809	18.54398	.0750753	1.396854	.0832121

Elem	Sr4077
Units	ppm
Avg	.2357529
Stddev	.0013551
%RSD	.5747980
#1	.2341913
#2	.2366188
#3	.2364487

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3841.671	40000.24	2827.399	3120.416	4688.412
Stddev	19.888	1456.85	242.429	78.583	28.840
%RSD	.5177010	3.642093	8.574294	2.518363	.6151415
#1	3845.523	38330.64	2547.514	3037.575	4707.659
#2	3859.352	41013.13	2962.798	3129.768	4702.325
#3	3820.139	40656.96	2971.883	3193.905	4655.253

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05LX5 Acquired: 7/15/2025 21:15:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0370614**	**-.014325**	**.3985788**	**.0128076**	**.0034453**	**25.17178**	**.1354708**
Stddev	.0046419	.001918	.0031364	.0033035	.0035748	.01135	.0004328
%RSD	12.52496	13.39031	.7868966	25.79312	103.7583	.0451084	.3194806
#1	.0377533	-.014218	.4009916	.0090503	-.000666	25.16128	.1356282
#2	.0413186	-.016295	.3997113	.0152564	.005179	25.17023	.1358029
#3	.0321124	-.012463	.3950334	.0141161	.005823	25.18383	.1349814

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025196**	**-.000877**	**13.83995**	**.0507975**	**-.000325**	**.0632784**	**66.72387**
Stddev	.0001438	.000052	.02071	.0015085	.000050	.0014649	1.18593
%RSD	5.705541	5.936109	.1496107	2.969553	15.53094	2.315034	1.777372
#1	.0026583	-.000919	13.84174	.0519911	-.000351	.0649695	67.96527
#2	.0023713	-.000892	13.85971	.0512994	-.000357	.0624010	66.60380
#3	.0025291	-.000819	13.81842	.0491021	-.000267	.0624646	65.60254

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5596447**	**7.144489**	**.0260862**	**.0007452**	**.5573024**	**.0965564**	**.3255399**
Stddev	.0034249	.024393	.0005070	.0005325	.0326445	.0016694	.0011285
%RSD	.6119830	.3414235	1.943739	71.45662	5.857599	1.728894	.3466661
#1	.5628030	7.126079	.0265951	.0011999	.5948446	.0948044	.3267214
#2	.5560043	7.172155	.0260826	.0008765	.5414641	.0981285	.3244730
#3	.5601268	7.135232	.0255810	.0001594	.5355984	.0967363	.3254254

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.967722**	**1.414080**	**.0269543**	**.0029238**	**1.060486**	**2.816718**	**.0484077**
Stddev	.119920	.009499	.0008521	.0002837	.010282	.056614	.0004385
%RSD	6.094348	.6717710	3.161159	9.704858	.9695409	2.009924	.9058175
#1	2.105283	1.417673	.0263073	.0032507	1.061382	2.875540	.0479920
#2	1.885219	1.421259	.0279197	.0027791	1.070291	2.812007	.0488659
#3	1.912662	1.403308	.0266360	.0027415	1.049786	2.762606	.0483652

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05LX5 Acquired: 7/15/2025 21:15:53 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3086091	.0232205	.0639346
Stddev	.0044528	.0070215	.0005831
%RSD	1.442872	30.23822	.9120509
#1	.3127512	.0312657	.0642602
#2	.3038999	.0183278	.0632614
#3	.3091763	.0200680	.0642822

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3582.562	38122.94	2703.499	2924.407	5001.499
Stddev	15.779	215.88	6.701	38.849	20.236
%RSD	.4404484	.5662621	.2478679	1.328449	.4046062
#1	3571.319	38282.72	2697.311	2968.768	4995.860
#2	3575.767	38208.74	2702.570	2907.999	4984.680
#3	3600.601	37877.35	2710.617	2896.453	5023.956

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05MS Acquired: 7/15/2025 21:20:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.008912**	**1.965291**	**3.201153**	**1.644416**	**.2827624**	**152.0740**
Stddev	.004225	.015212	.025316	.012711	.0007125	.1546
%RSD	.4187307	.7740209	.7908535	.7729699	.2519694	.1016537
#1	1.006204	1.962689	3.176836	1.629920	.2819486	152.1174
#2	1.013780	1.981636	3.227363	1.653655	.2832735	151.9023
#3	1.006752	1.951548	3.199260	1.649672	.2830652	152.2022

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8029586**	**.2004780**	**.2033966**	**60.66439**	**.5956514**	**.2030309**
Stddev	.0017510	.0016700	.0018585	.05201	.0048955	.0022648
%RSD	.2180627	.8329953	.9137428	.0857368	.8218738	1.115499
#1	.8041356	.2018221	.2016993	60.70990	.5957469	.2011532
#2	.8037938	.1986086	.2053826	60.67558	.6004985	.2055462
#3	.8009464	.2010035	.2031078	60.60769	.5907089	.2023934

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5917205**	**293.3808**	**2.619564**	**33.94117**	**.6656794**	**.0566725**
Stddev	.0066316	6.0640	.012292	.17026	.0030353	.0024310
%RSD	1.120730	2.066949	.4692521	.5016293	.4559676	4.289543
#1	.5955144	296.5563	2.621480	34.05431	.6644088	.0573498
#2	.5840631	286.3884	2.630786	33.74536	.6691434	.0539747
#3	.5955839	297.1975	2.606426	34.02384	.6634858	.0586930

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.190184**	**.7901986**	**1.526618**	**22.41170**	**14.18420**	**.3317646**
Stddev	.036014	.0060905	.009201	.43568	.13949	.0078977
%RSD	.6938783	.7707612	.6026757	1.944004	.9834087	2.380504
#1	5.210881	.7956347	1.526687	22.89759	14.05467	.3365876
#2	5.148599	.7913447	1.517384	22.05581	14.33187	.3226503
#3	5.211072	.7836165	1.535784	22.28171	14.16608	.3360559

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05MS Acquired: 7/15/2025 21:20:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3264852	5.854841	F 19.29679	.7703749	1.656711	.3389298
Stddev	.0009724	.051781	.18795	.0029225	.002801	.0066792
%RSD	.2978381	.8844166	.9740055	.3793586	.1690840	1.970667
#1	.3260453	5.814166	19.41874	.7675032	1.659822	.3460106
#2	.3275998	5.913132	19.08034	.7733457	1.655923	.3380367
#3	.3258104	5.837227	19.39128	.7702757	1.654389	.3327421

Elem	Sr4077
Units	ppm
Avg	.4437439
Stddev	.0001019
%RSD	.0229680
#1	.4437831
#2	.4436282
#3	.4438203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3849.685	40630.46	2893.855	3111.688	4602.792
Stddev	23.669	79.34	30.943	10.450	25.456
%RSD	.6148415	.1952715	1.069274	.3358188	.5530615
#1	3822.736	40608.10	2877.581	3112.063	4573.722
#2	3859.214	40564.70	2929.539	3121.945	4613.555
#3	3867.105	40718.58	2874.445	3101.055	4621.099

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05MSD Acquired: 7/15/2025 21:24:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.086843**	**1.978047**	**3.232036**	**1.664941**	**.2847960**	**136.6070**
Stddev	.018482	.024552	.068246	.027754	.0026138	.5318
%RSD	1.700509	1.241227	2.111543	1.666985	.9177651	.3892621
#1	1.106997	2.005289	3.303533	1.695260	.2874462	137.1264
#2	1.070688	1.957628	3.167589	1.640787	.2847215	136.6308
#3	1.082844	1.971224	3.224986	1.658777	.2822203	136.0637

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7455326**	**.2058941**	**.2040059**	**49.66282**	**.5955066**	**.2021960**
Stddev	.0033762	.0008439	.0042191	.26660	.0011158	.0027033
%RSD	.4528564	.4098748	2.068123	.5368132	.1873638	1.336984
#1	.7466862	.2065320	.2084744	49.84356	.5962442	.2042201
#2	.7417309	.2062130	.2000909	49.78826	.5942230	.1991260
#3	.7481809	.2049371	.2034523	49.35664	.5960527	.2032419

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6156873**	**276.3126**	**2.357157**	**28.12277**	**.6564796**	**.0594079**
Stddev	.0033150	1.0657	.014885	.18612	.0049884	.0005616
%RSD	.5384262	.3856840	.6314608	.6617968	.7598707	.9452780
#1	.6194868	275.7979	2.373979	28.32012	.6614194	.0590743
#2	.6141901	277.5380	2.345692	28.09777	.6514440	.0590932
#3	.6133849	275.6020	2.351802	27.95041	.6565753	.0600563

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.506381**	**.7585941**	**1.582580**	**22.92500**	**13.26404**	**.3356066**
Stddev	.094131	.0051815	.009354	.77670	.29282	.0025291
%RSD	1.709485	.6830363	.5910525	3.388020	2.207608	.7535955
#1	5.403663	.7641349	1.580765	22.12036	13.58375	.3368549
#2	5.588520	.7577786	1.574268	23.67037	13.00889	.3372688
#3	5.526959	.7538687	1.592709	22.98427	13.19948	.3326960

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05MSD Acquired: 7/15/2025 21:24:39 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3343287	5.277398	F 18.03323	.7771793	1.576262	.3245343
Stddev	.0009852	.110070	.06370	.0144033	.001507	.0046894
%RSD	.2946874	2.085679	.3532268	1.853278	.0956227	1.444975
#1	.3345049	5.397454	18.05505	.7923207	1.574693	.3299474
#2	.3352140	5.181242	18.08315	.7636497	1.577699	.3219497
#3	.3332673	5.253499	17.96149	.7755675	1.576394	.3217058

Elem	Sr4077
Units	ppm
Avg	.4371005
Stddev	.0010060
%RSD	.2301486
#1	.4381795
#2	.4361885
#3	.4369335

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.686	40051.21	2852.075	3125.874	4586.248
Stddev	16.561	43.22	13.969	14.644	20.695
%RSD	.4400247	.1079035	.4897986	.4684809	.4512368
#1	3758.212	40004.58	2851.004	3128.356	4562.671
#2	3750.554	40059.16	2838.672	3139.119	4594.665
#3	3782.291	40089.91	2866.549	3110.147	4601.409

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05A Acquired: 7/15/2025 21:29:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9610953**	**1.906658**	**2.952029**	**1.614165**	**.6658764**	**109.2582**	**.7630913**
Stddev	.0092219	.016216	.027480	.014757	.0035720	.2340	.0023184
%RSD	.9595233	.8504731	.9308845	.9142120	.5364408	.2141495	.3038178
#1	.9554981	1.891022	2.922311	1.601318	.6634170	109.2281	.7623659
#2	.9560486	1.905556	2.957255	1.610895	.6642386	109.0407	.7612224
#3	.9717391	1.923397	2.976520	1.630283	.6699737	109.5058	.7656857

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1938450**	**.1917691**	**60.40296**	**.5393989**	**.1940011**	**.5653275**	**275.5894**
Stddev	.0045197	.0021464	.09666	.0031748	.0028289	.0118308	6.9515
%RSD	2.331585	1.119263	.1600197	.5885751	1.458170	2.092729	2.522396
#1	.1989282	.1895597	60.43875	.5430637	.1908838	.5784871	283.1565
#2	.1923276	.1919013	60.29352	.5374876	.1947145	.5619237	274.1247
#3	.1902794	.1938464	60.47662	.5376455	.1964049	.5555717	269.4870

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.573452**	**31.85126**	**.6333572**	**.0544687**	**5.003003**	**.7182422**	**1.608517**
Stddev	.009787	.05227	.0031872	.0021416	.113705	.0114663	.001064
%RSD	.3802962	.1640965	.5032290	3.931793	2.272728	1.596438	.0661536
#1	2.563999	31.89754	.6297646	.0569389	5.129671	.7086525	1.607503
#2	2.572815	31.79457	.6358450	.0533350	4.969587	.7151310	1.609625
#3	2.583541	31.86166	.6344621	.0531323	4.909750	.7309430	1.608424

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.74021**	**13.31961**	**.3650496**	**.3437171**	**5.699961**	**13.02682**	**.9372767**
Stddev	.70352	.21163	.0117434	.0012651	.107970	.27674	.0095065
%RSD	3.563870	1.588859	3.216924	.3680726	1.894224	2.124380	1.014264
#1	20.54588	13.13290	.3783602	.3434086	5.611622	13.33382	.9266143
#2	19.42741	13.27643	.3606368	.3426347	5.667942	12.95014	.9403478
#3	19.24735	13.54950	.3561519	.3451080	5.820319	12.79651	.9448679

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2564-05A Acquired: 7/15/2025 21:29:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.534363	.3012123	.4577895
Stddev	.008912	.0021371	.0012401
%RSD	.5808538	.7095025	.2708970
#1	1.530762	.3030570	.4572272
#2	1.527814	.2988704	.4569301
#3	1.544512	.3017094	.4592112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3862.480	41443.17	2913.840	3174.660	4614.334
Stddev	40.117	201.45	58.682	12.661	45.717
%RSD	1.038638	.4860981	2.013911	.3988048	.9907601
#1	3869.026	41288.74	2846.613	3185.833	4631.883
#2	3898.922	41671.04	2940.105	3177.238	4648.676
#3	3819.493	41369.74	2954.802	3160.909	4562.443

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2559-01 Acquired: 7/15/2025 21:33:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0328699**	**-.021093**	**.1043064**	**-.007947**	**.0189695**	**177.2567**
Stddev	.0010090	.002835	.0021422	.002926	.0011276	.3311
%RSD	3.069803	13.44063	2.053766	36.81612	5.944462	.1867883
#1	.0340327	-.021869	.1052825	-.004571	.0179102	177.1321
#2	.0323524	-.017950	.1057868	-.009514	.0188436	177.6320
#3	.0322247	-.023458	.1018500	-.009756	.0201549	177.0059

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9677222**	**.0070271**	**-.001451**	F **2467.846**	**.4262305**	**.0701411**
Stddev	.0080568	.0000722	.000128	55.328	.0037128	.0017989
%RSD	.8325542	1.028050	8.825848	2.241942	.8710783	2.564746
#1	.9677678	.0069437	-.001505	2524.659	.4242916	.0692844
#2	.9757561	.0070703	-.001544	2464.745	.4238885	.0689306
#3	.9596427	.0070673	-.001305	2414.133	.4305114	.0722083

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4479372**	**136.4699**	**5.291469**	**94.01346**	**.1594902**	**-.002922**
Stddev	.0162907	.6541	.032345	.68097	.0007925	.000464
%RSD	3.636834	.4793253	.6112605	.7243357	.4968769	15.87882
#1	.4349709	137.1695	5.298277	94.32905	.1591181	-.002966
#2	.4662227	136.3669	5.319867	94.47938	.1589523	-.003363
#3	.4426181	135.8734	5.256262	93.23194	.1604003	-.002438

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.035730**	**.2662874**	**2.096529**	**25.43180**	**10.62616**	**.4543060**
Stddev	.202253	.0137313	.039084	1.04709	.15358	.0064170
%RSD	3.350922	5.156584	1.864212	4.117239	1.445278	1.412485
#1	5.822930	.2594256	2.123812	25.98644	10.51769	.4490292
#2	6.225456	.2820972	2.051754	24.22406	10.55889	.4614493
#3	6.058802	.2573395	2.114021	26.08490	10.80189	.4524394

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2559-01 Acquired: 7/15/2025 21:33:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224406	F 110.1586	9.196639	.0221836	8.563348	.1577892
Stddev	.0006796	2.0154	.303837	.0044915	.083603	.0101963
%RSD	3.028498	1.829506	3.303781	20.24714	.9762841	6.461945
#1	.0217615	108.8157	8.911912	.0206355	8.540753	.1480981
#2	.0224396	109.1841	9.516526	.0186708	8.655926	.1684249
#3	.0231207	112.4760	9.161480	.0272444	8.493365	.1568446

Elem	Sr4077
Units	ppm
Avg	13.84762
Stddev	.75925
%RSD	5.482879
#1	14.48334
#2	14.05261
#3	13.00693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3215.065	31458.53	2644.987	2501.110	3568.198
Stddev	49.764	1684.56	44.519	143.285	59.645
%RSD	1.547852	5.354873	1.683143	5.728867	1.671567
#1	3244.371	29881.56	2593.662	2355.307	3603.676
#2	3243.218	33233.24	2673.149	2641.737	3601.582
#3	3157.606	31260.79	2668.149	2506.285	3499.337

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV02 Acquired: 7/15/2025 22:12:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.745154**	**4.940316**	**4.837831**	**4.778659**	**4.800276**	**9.544486**	**10.75861**
Stddev	.004729	.013400	.004660	.006449	.006161	.065652	.02186
%RSD	.0996564	.2712451	.0963200	.1349438	.1283414	.6878488	.2032320
#1	4.745280	4.925198	4.832888	4.781409	4.801775	9.557421	10.78278
#2	4.749819	4.945021	4.838462	4.783277	4.793505	9.473330	10.74019
#3	4.740364	4.950729	4.842143	4.771292	4.805550	9.602708	10.75287

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2496449**	**2.411745**	**24.57686**	**1.042913**	**2.424152**	**1.285421**	**5.227162**
Stddev	.0020502	.002652	.04311	.001508	.004074	.009912	.046546
%RSD	.8212424	.1099720	.1753892	.1446290	.1680456	.7710734	.8904573
#1	.2506902	2.409113	24.59743	1.041174	2.419800	1.291484	5.246971
#2	.2472827	2.411704	24.52732	1.043871	2.424782	1.273983	5.173989
#3	.2509617	2.414417	24.60582	1.043694	2.427874	1.290796	5.260527

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.656401**	**26.06104**	**2.422552**	**1.227767**	**25.25660**	**2.720671**	**2.626637**
Stddev	.003471	.10590	.002311	.002841	.30585	.009786	.005788
%RSD	.1306688	.4063693	.0953980	.2314095	1.210976	.3596861	.2203416
#1	2.654988	26.18293	2.420704	1.224490	25.28444	2.723799	2.632099
#2	2.653858	25.99165	2.421808	1.229536	24.93778	2.728510	2.620571
#3	2.660355	26.00852	2.425143	1.229275	25.54758	2.709703	2.627239

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.21201**	**4.903863**	**5.206775**	**4.577535**	**4.759934**	**5.176389**	**4.877045**
Stddev	.31086	.009377	.055894	.003917	.016440	.054809	.006177
%RSD	1.283927	.1912171	1.073494	.0855677	.3453788	1.058821	.1266484
#1	24.25143	4.896184	5.240464	4.581652	4.743230	5.204672	4.873876
#2	23.88331	4.901091	5.142254	4.573855	4.776096	5.113216	4.873095
#3	24.50128	4.914313	5.237606	4.577099	4.760478	5.211278	4.884162

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV02 Acquired: 7/15/2025 22:12:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.241365**	**5.469029**	**5.247620**
Stddev	.025028	.010774	.015151
%RSD	.4775127	.1969984	.2887218
#1	5.266769	5.481459	5.263830
#2	5.216731	5.462369	5.233815
#3	5.240594	5.463258	5.245214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.619**	**36197.54**	**2534.283**	**2747.505**	**4619.658**
Stddev	6.012	170.66	18.890	12.311	.786
%RSD	.1788326	.4714612	.7453660	.4480687	.0170067
#1	3354.680	36143.79	2516.586	2739.265	4618.952
#2	3364.941	36060.23	2554.174	2741.594	4619.520
#3	3365.237	36388.60	2532.089	2761.657	4620.504

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB02 Acquired: 7/15/2025 22:17:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000964	-.000404	-.000127	.0037843	-.001239	-.007648
Stddev	.002094	.000851	.001531	.0058379	.001390	.042404
%RSD	217.2924	210.5348	1206.505	154.2681	112.1507	554.4779
#1	-.002533	.000163	.000304	.0103437	-.001314	.027954
#2	.001414	.000008	-.001827	.0018504	.000186	.003663
#3	-.001772	-.001382	.001143	-.000841	-.002590	-.054560

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029888	.0000557	.0000331	.0273597	.0007888	-.000130
Stddev	.0006729	.0001000	.0000485	.0160594	.0001495	.000177
%RSD	22.51341	179.5184	146.6275	58.69742	18.95311	135.5182
#1	.0037636	-.000053	.0000767	.0396887	.0009021	-.000175
#2	.0025512	.000145	.0000418	.0331911	.0008449	-.000281
#3	.0026516	.000075	-.000019	.0091993	.0006193	.000064

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016012	-.001741	.0020440	.0380914	.0003681	.0013263
Stddev	.0003647	.001854	.0019287	.0235651	.0001373	.0003392
%RSD	22.77407	106.4386	94.35795	61.86462	37.28581	25.57264
#1	.0012024	-.003755	-.000054	.0633569	.0003478	.0013669
#2	.0019177	-.000106	.002447	.0167091	.0002422	.0009687
#3	.0016833	-.001363	.003740	.0342081	.0005144	.0016433

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159013	-.005411	.0007363	-.001131	-.001228	F .0249843
Stddev	.0032970	.004292	.0002457	.000709	.002038	.0013527
%RSD	20.73390	79.31972	33.37839	62.66214	165.9689	5.414156
#1	.0195268	-.000459	.0005610	-.001490	-.003057	.0264821
#2	.0130826	-.007715	.0010172	-.001589	.000969	.0238517
#3	.0150946	-.008060	.0006306	-.000315	-.001596	.0246190

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB02 Acquired: 7/15/2025 22:17:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000334	-.012114	.0026213	.0055871	.0051690	F .0229731
Stddev	.000202	.003197	.0025370	.0004528	.0030837	.0149624
%RSD	60.32903	26.39363	96.78584	8.103779	59.65779	65.13009
#1	-.000440	-.010977	.0001562	.0054786	.0076823	.0385189
#2	-.000460	-.009641	.0024829	.0060842	.0060967	.0086719
#3	-.000102	-.015725	.0052246	.0051984	.0017279	.0217283

Elem	Sr4077
Units	ppm
Avg	.0005260
Stddev	.0001416
%RSD	26.92000
#1	.0004010
#2	.0006798
#3	.0004972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3503.284	37549.17	2603.071	2831.363	5284.397
Stddev	6.271	180.28	6.117	4.861	8.183
%RSD	.1790061	.4801225	.2349762	.1716906	.1548542
#1	3497.189	37679.08	2606.009	2836.892	5275.279
#2	3509.718	37343.34	2596.039	2829.438	5291.101
#3	3502.945	37625.08	2607.164	2827.760	5286.813

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2559-01DLX5 Acquired: 7/15/2025 22:21:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001766**	**.0113535**	**.0328066**	**-.027326**	**.0185420**	**39.63796**	**.2191127**
Stddev	.005216	.0011726	.0023306	.003963	.0016446	.02660	.0012158
%RSD	295.3822	10.32844	7.104096	14.50342	8.869772	.0671021	.5548933
#1	-.006057	.0127068	.0306851	-.022802	.0182224	39.65489	.2191088
#2	-.003281	.0106377	.0324334	-.030189	.0170806	39.60730	.2178989
#3	.004040	.0107160	.0353013	-.028986	.0203229	39.65170	.2203305

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016003**	**-.000592**	**574.7517**	**.0983745**	**.0374797**	**.1150467**	**34.06271**
Stddev	.0001094	.000073	.7223	.0002129	.0004020	.0012258	.41802
%RSD	6.835733	12.39800	.1256682	.2163853	1.072721	1.065479	1.227211
#1	.0017235	-.000636	575.4369	.0981507	.0376721	.1152301	34.15300
#2	.0015148	-.000633	574.8210	.0985745	.0370176	.1161704	34.42821
#3	.0015625	-.000507	573.9973	.0983982	.0377493	.1137395	33.60692

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.238173**	**22.42581**	**.0318809**	**.0007189**	**1.768825**	**.0587213**	**.4596433**
Stddev	.006410	.16340	.0002993	.0005704	.033925	.0032351	.0013241
%RSD	.5177352	.7286375	.9388579	79.33584	1.917950	5.509206	.2880645
#1	1.234669	22.24526	.0321886	.0013145	1.780919	.0619877	.4590696
#2	1.245572	22.46866	.0315907	.0006646	1.795046	.0586578	.4611575
#3	1.234279	22.56353	.0318633	.0001777	1.730510	.0555185	.4587029

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.447518**	**2.012533**	**.1305269**	**.0082711**	**20.46937**	**2.271992**	**.0162336**
Stddev	.053729	.005372	.0017948	.0006697	.05929	.027950	.0017478
%RSD	1.208059	.2669523	1.375073	8.096398	.2896580	1.230210	10.76638
#1	4.452644	2.006665	.1318481	.0084590	20.43585	2.277394	.0168823
#2	4.498500	2.013723	.1312490	.0088267	20.43444	2.296847	.0142542
#3	4.391410	2.017210	.1284834	.0075275	20.53783	2.241735	.0175643

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2559-01DLX5 Acquired: 7/15/2025 22:21:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.944068	.0560656	3.185450
Stddev	.004476	.0082072	.008773
%RSD	.2302367	14.63862	.2754191
#1	1.940556	.0486897	3.183389
#2	1.949108	.0546003	3.195070
#3	1.942539	.0649068	3.177890

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3308.462	34760.13	2586.021	2694.810	4286.611
Stddev	13.337	85.57	25.779	1.705	12.958
%RSD	.4031211	.2461671	.9968654	.0632587	.3022912
#1	3297.329	34686.52	2576.815	2695.619	4279.872
#2	3304.813	34854.01	2566.108	2695.959	4278.411
#3	3323.244	34739.84	2615.139	2692.851	4301.550

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2520-06 Acquired: 7/15/2025 22:25:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008554**	**.0016838**	**.0019852**	**-.005365**	**.0022603**	**.2493185**	**.0327028**
Stddev	.002502	.0015931	.0021515	.004901	.0016435	.0168896	.0007046
%RSD	29.24306	94.61296	108.3756	91.34808	72.71446	6.774293	2.154677
#1	-.010684	.0034289	.0042099	-.000715	.0006055	.2647135	.0333968
#2	-.009180	.0003074	.0018303	-.010483	.0022828	.2519895	.0327238
#3	-.005799	.0013151	-.000085	-.004896	.0038924	.2312526	.0319879

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000127**	**-.000011**	**13.64167**	**.0016389**	**.0079950**	**.4437064**	**.0783974**
Stddev	.000061	.000022	.03336	.0003878	.0002818	.0016027	.0020846
%RSD	48.02191	198.5696	.2445761	23.66171	3.525008	.3612015	2.658952
#1	-.000196	-.000034	13.67320	.0012331	.0081321	.4454504	.0768541
#2	-.000101	-.000008	13.60673	.0020058	.0081820	.4433706	.0807687
#3	-.000082	.000009	13.64509	.0016779	.0076709	.4422982	.0775693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0277288**	**2.702434**	**.0237850**	**.0019117**	**21.86233**	**-.009529**	**.0365297**
Stddev	.0016671	.051846	.0004983	.0006032	.07702	.008804	.0004440
%RSD	6.012165	1.918488	2.095020	31.55111	.3522992	92.39167	1.215425
#1	.0295683	2.752613	.0243588	.0012567	21.78948	-.016241	.0370388
#2	.0273007	2.649068	.0234619	.0020343	21.94294	-.012787	.0362225
#3	.0263175	2.705619	.0235341	.0024442	21.85457	.000440	.0363279

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.103950**	**1.282524**	**.0203207**	**.0013405**	**2.014251**	**2.011370**	**-.000130**
Stddev	.003997	.003576	.0011715	.0001817	.004612	.009957	.000222
%RSD	.3620828	.2788581	5.764924	13.55341	.2289734	.4950603	171.4197
#1	1.099852	1.280642	.0207020	.0015496	2.012031	2.019812	.000092
#2	1.104160	1.286648	.0212541	.0012512	2.019554	2.013908	-.000129
#3	1.107838	1.280281	.0190061	.0012208	2.011169	2.000389	-.000352

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2520-06 Acquired: 7/15/2025 22:25:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0085970	-.015623	.0537587
Stddev	.0032309	.001697	.0001065
%RSD	37.58197	10.86144	.1980178
#1	.0105134	-.014562	.0536924
#2	.0104108	-.014727	.0537022
#3	.0048667	-.017580	.0538815

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3489.710	37892.33	2621.949	2852.302	5192.810
Stddev	9.018	87.17	8.008	8.249	7.706
%RSD	.2584290	.2300425	.3054029	.2891967	.1484066
#1	3500.090	37901.44	2613.791	2853.611	5200.370
#2	3485.235	37974.59	2622.258	2859.817	5184.965
#3	3483.804	37800.97	2629.797	2843.477	5193.094

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2520-04 Acquired: 7/15/2025 22:30:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006234	.0019495	.0024260	-.005978	.0009121	.9737518	.0280919
Stddev	.001363	.0016345	.0009776	.001481	.0007402	.0360428	.0004904
%RSD	21.86420	83.84310	40.29765	24.77173	81.14897	3.701434	1.745857
#1	-.004891	.0003092	.0027346	-.005079	.0017540	.9531827	.0275483
#2	-.006194	.0035782	.0032121	-.007688	.0003636	1.015370	.0285014
#3	-.007617	.0019611	.0013313	-.005168	.0006188	.952703	.0282259

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000041	.0000062	12.99406	.0014066	.0084036	.6347542	.0635937
Stddev	.000159	.0000628	.02833	.0000986	.0002063	.0022264	.0019252
%RSD	392.7689	1016.117	.2180525	7.007781	2.455194	.3507483	3.027329
#1	-.000203	.0000243	12.96372	.0014534	.0086047	.6351431	.0626442
#2	-.000033	-.000064	12.99864	.0014731	.0084137	.6323590	.0658091
#3	.000115	.000058	13.01983	.0012934	.0081924	.6367606	.0623276

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0336517	2.561651	.0014558	.0013767	21.40821	-.002694	.0864170
Stddev	.0011201	.128673	.0002217	.0004067	.09054	.009031	.0003122
%RSD	3.328562	5.023063	15.22695	29.53813	.4229171	335.2622	.3613074
#1	.0328390	2.425889	.0012296	.0013801	21.43594	.000567	.0866142
#2	.0349295	2.681813	.0014651	.0009684	21.30705	-.012902	.0860570
#3	.0331867	2.577253	.0016727	.0017817	21.48165	.004254	.0865797

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.070940	1.082512	.0159340	.0012458	1.971786	1.976154	.0015681
Stddev	.004170	.008191	.0005067	.0001167	.011682	.003544	.0008157
%RSD	.3894171	.7566902	3.180074	9.370671	.5924639	.1793194	52.01956
#1	1.070454	1.073557	.0161541	.0012388	1.958307	1.980128	.0023281
#2	1.067034	1.084352	.0153545	.0011327	1.978968	1.973324	.0007062
#3	1.075332	1.089627	.0162935	.0013659	1.978085	1.975009	.0016701

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: Q2520-04 Acquired: 7/15/2025 22:30:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0041504	-.006958	.0503364
Stddev	.0033419	.004173	.0005557
%RSD	80.51976	59.96439	1.103946
#1	.0007314	-.005304	.0497064
#2	.0074093	-.003866	.0505461
#3	.0043104	-.011704	.0507567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3495.867	37714.99	2616.217	2869.206	5184.902
Stddev	3.297	173.68	12.257	19.662	10.798
%RSD	.0943071	.4605027	.4684922	.6852682	.2082653
#1	3494.818	37914.32	2621.512	2890.603	5179.510
#2	3499.560	37634.41	2624.936	2851.933	5197.335
#3	3493.222	37596.23	2602.203	2865.082	5177.862

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV03 Acquired: 7/15/2025 22:39:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**4.741089**	**4.925281**	**4.822192**	**4.818458**	**4.845166**	**9.537900**	**10.58438**
Stddev	.013718	.010942	.005265	.017624	.013139	.028740	.04658
%RSD	.2893400	.2221545	.1091916	.3657548	.2711714	.3013218	.4400541
#1	4.729097	4.925014	4.821885	4.807591	4.833816	9.565816	10.62848
#2	4.738124	4.914476	4.817087	4.808990	4.842123	9.539483	10.58901
#3	4.756048	4.936355	4.827604	4.838792	4.859559	9.508402	10.53567

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2475115**	**2.406171**	**24.47079**	**1.050744**	**2.416688**	**1.268682**	**5.093978**
Stddev	.0014704	.005512	.06564	.003561	.005360	.003153	.013136
%RSD	.5940856	.2290844	.2682450	.3389058	.2217962	.2485347	.2578714
#1	.2487721	2.405960	24.52643	1.048482	2.414773	1.271129	5.087230
#2	.2478662	2.400768	24.48754	1.048901	2.412548	1.269794	5.109116
#3	.2458961	2.411786	24.39840	1.054849	2.422742	1.265124	5.085587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.621544**	**25.78930**	**2.416021**	**1.237932**	**24.91906**	**2.671478**	**2.590962**
Stddev	.008917	.21063	.004839	.005031	.14941	.036592	.012302
%RSD	.3401365	.8167507	.2003028	.4064258	.5995620	1.369729	.4747879
#1	2.631344	26.02837	2.414982	1.232905	24.94460	2.698705	2.581495
#2	2.619379	25.63102	2.411786	1.237925	25.05404	2.685846	2.586524
#3	2.613909	25.70852	2.421296	1.242967	24.75853	2.629882	2.604867

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.76803**	**4.882709**	**5.113867**	**4.607798**	**4.772009**	**5.087655**	**4.867678**
Stddev	.27753	.008842	.011194	.012239	.014671	.003167	.008193
%RSD	1.167675	.1810865	.2188945	.2656044	.3074340	.0622443	.1683089
#1	23.65905	4.879055	5.122675	4.598292	4.772795	5.090690	4.868198
#2	24.08351	4.876280	5.117654	4.603496	4.756961	5.087903	4.859237
#3	23.56152	4.892792	5.101270	4.621607	4.786270	5.084371	4.875598

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCV03 Acquired: 7/15/2025 22:39:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.174213**	**5.352246**	**5.188073**
Stddev	.020023	.020220	.019876
%RSD	.3869856	.3777869	.3831046
#1	5.188630	5.374346	5.199034
#2	5.182659	5.347717	5.200056
#3	5.151350	5.334674	5.165131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.808**	**36015.49**	**2565.184**	**2767.622**	**4632.832**
Stddev	3.178	76.52	14.366	9.073	6.256
%RSD	.0951789	.2124710	.5600500	.3278228	.1350327
#1	3339.877	36092.05	2561.805	2776.511	4626.551
#2	3335.233	35939.01	2552.808	2758.375	4632.883
#3	3341.313	36015.39	2580.938	2767.981	4639.062

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB03 Acquired: 7/15/2025 22:43:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002336	-.000178	.0012201	.0040392	-.001300	-.001162
Stddev	.001101	.001272	.0022125	.0020024	.000883	.015229
%RSD	47.13093	715.7606	181.3428	49.57520	67.93142	1310.817
#1	-.002982	-.001180	-.000991	.0022552	-.000605	-.016844
#2	-.001065	-.000606	.003434	.0062051	-.001001	-.000209
#3	-.002960	.001253	.001217	.0036573	-.002294	.013568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023692	.0000730	.0000303	.0769335	.0010522	-.000100
Stddev	.0016225	.0001078	.0000565	.0160623	.0004698	.000044
%RSD	68.48382	147.7739	186.1550	20.87816	44.65175	43.75887
#1	.0017608	.0000906	-.000035	.0604470	.0015773	-.000060
#2	.0011388	-.000043	.000059	.0778184	.0006715	-.000147
#3	.0042079	.000171	.000067	.0925350	.0009079	-.000094

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008560	-.000869	.0008679	.0021762	.0001001	.0010714
Stddev	.0011557	.001746	.0018852	.0591968	.0007658	.0009973
%RSD	135.0177	200.9373	217.2203	2720.124	764.5630	93.08965
#1	.0021803	.000112	.0029231	-.027564	.0009795	.0019248
#2	.0000513	-.002885	.0004615	-.036254	-.000259	-.000025
#3	.0003363	.000166	-.000781	.070346	-.000420	.001314

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084258	.0008902	.0003927	-.002201	-.000131	F .0166392
Stddev	.0054606	.0025002	.0004205	.000801	.000559	.0009331
%RSD	64.80852	280.8450	107.0932	36.39620	427.1203	5.607716
#1	.0095853	.0025830	.0003760	-.002240	.000048	.0170142
#2	.0132136	-.001981	-.000019	-.001382	-.000758	.0173264
#3	.0024785	.002069	.000821	-.002983	.000317	.0155770

Reviewed By:jaswal
On:7/16/2025 6:31:51 PM
Inst Id :P5
LB :LB136488

Sample Name: CCB03 Acquired: 7/15/2025 22:43:21 Type: Unk
Method: METHOD 6010D, 200.7 M(v41) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001408	-.008678	.0027677	.0041472	.0000464	F .0209365
Stddev	.0004608	.004707	.0008844	.0003322	.0048282	.0085164
%RSD	327.2497	54.24232	31.95410	8.010811	10395.20	40.67724
#1	.0002687	-.011280	.0031544	.0038103	.0053150	.0113105
#2	-.000370	-.003244	.0017558	.0044745	-.001009	.0274912
#3	.000524	-.011509	.0033929	.0041568	-.004167	.0240077

Elem	Sr4077
Units	ppm
Avg	.0002850
Stddev	.0003138
%RSD	110.0870
#1	-.000018
#2	.000609
#3	.000264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3474.552	37672.44	2614.425	2860.054	5283.952
Stddev	8.401	83.53	10.209	16.148	15.239
%RSD	.2417731	.2217233	.3904699	.5645936	.2884095
#1	3478.362	37695.76	2613.988	2869.931	5290.082
#2	3464.922	37741.84	2604.442	2868.811	5266.602
#3	3480.373	37579.73	2624.845	2841.419	5295.171

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168771

SOP ID : M200.7-Trace Elements-22

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: 07/09/2025 **Time :** 10:25 **Temp :** 96 °C

End Digest Date: 07/09/2025 **Time :** 13:32 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLS

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	M6015
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#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07109125 14:32	SLS.met.dig	SG Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168771

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168771BL	PBW771	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
PB168771BS	LCS771	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	16
Q2520-01	A-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
Q2520-02	A-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	18
Q2520-03	A-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	19
Q2520-04	A-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	20
Q2520-05	A-5	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	21
Q2520-06	A-6	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22
Q2520-07	A-7	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
Q2520-08	A-8	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
Q2520-09	A-9	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	25
Q2520-10	A-10	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	26
Q2520-11	A-11	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	27
Q2520-12	A-12	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
Q2520-13	A-13	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	29
Q2520-14	A-14	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	30
Q2520-15	A-15	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
Q2520-16	A-16	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	32
Q2520-17	A-17	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	33
Q2520-18	A-18	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	34
Q2520-19	A-19	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	35
Q2520-20	A-20	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	36
Q2520-20MS	A-20MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	38
Q2520-20MSD	A-20MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	39
Q2520-20DUP	A-20DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	37

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168771 **WorkList ID :** 190609 **Department :** Digestion **Date :** 07-09-2025 09:44:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2520-01	A-1	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-02	A-2	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-03	A-3	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-04	A-4	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-05	A-5	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-06	A-6	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-07	A-7	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-08	A-8	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-09	A-9	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-10	A-10	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-11	A-11	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-12	A-12	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-13	A-13	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-14	A-14	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-15	A-15	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-16	A-16	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-17	A-17	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-18	A-18	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-19	A-19	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-20	A-20	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7

Date/Time 07/09/25 10:10
Raw Sample Received by: SKB.met.dig
Raw Sample Relinquished by: JD(SM)

Date/Time 07/09/25 11:10
Raw Sample Received by: JD(SM)
Raw Sample Relinquished by: SKB.met.dig

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168772

SOP ID : M200.7-Trace Elements-22

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: 07/09/2025 **Time :** 10:16 **Temp :** 96 °C

End Digest Date: 07/09/2025 **Time :** 13:20 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKG.

Supervisor Signature: SG

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6007
LFS-2	0.25	M6015
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#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07109125 14:20	SKG.met.dig	50 (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168772

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168772BL	PBW772	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB168772BS	LCS772	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	2
Q2520-21	A-21	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q2520-22	A-22	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q2520-23	A-23	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q2520-24	A-24	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6
Q2520-24MS	A-24MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	8
Q2520-24MSD	A-24MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6015	9
Q2520-24DUP	A-24DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
Q2532-01	001-WILLETS-PT-BLVD(MAY)	<2	50	25	Gray	Colorless	Cloudy	Clear	N/A	10
Q2532-02	002-35TH-AVE(MAY)	<2	50	25	Gray	Colorless	Cloudy	Clear	N/A	11
Q2533-01	001 WILLETS PT BLVD (JUNE)	<2	50	25	Gray	Colorless	Cloudy	Clear	N/A	12
Q2533-02	002-35TH-AVE(JUNE)	<2	50	25	Gray	Colorless	Cloudy	Clear	N/A	13

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168772 **WorkList ID :** 190610 **Department :** Digestion **Date :** 07-09-2025 09:47:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2520-21	A-21	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-22	A-22	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-23	A-23	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2520-24	A-24	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	O23	06/26/2025	200.7
Q2532-01	001-WILLETS-PT-BLVD(MAY)	Water	Metals Group 12	1:1 HNO3 to pH < 2	TULL01	O11	07/07/2025	200.7
Q2532-02	002-35th-Ave(May)	Water	Metals Group 12	1:1 HNO3 to pH < 2	TULL01	O11	07/07/2025	200.7
Q2533-01	001 WILLETS PT BLVD (JUNE)	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	A12	07/07/2025	200.7
Q2533-02	002-35th-Ave(JUNE)	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	A12	07/07/2025	200.7

Date/Time 07/09/25 10:05
Raw Sample Received by: SLB metals
Raw Sample Relinquished by: JDCSM

Date/Time 07/09/25 11:05
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: SLB. metals

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/10/25 16:46		Janvi	OK
2	S1	S1	CAL2	07/10/25 16:50		Janvi	OK
3	S2	S2	CAL3	07/10/25 16:55		Janvi	OK
4	S3	S3	CAL4	07/10/25 16:59		Janvi	OK
5	S4	S4	CAL5	07/10/25 17:03		Janvi	OK
6	S5	S5	CAL6	07/10/25 17:07		Janvi	OK
7	ICV01	ICV01	ICV	07/10/25 18:39	ICV fail for K,Ag (200.7) (95-105)	Janvi	OK
8	LLICV01	LLICV01	LLICV	07/10/25 18:51		Janvi	OK
9	ICB01	ICB01	ICB	07/10/25 18:55		Janvi	OK
10	CRI01	CRI01	CRDL	07/10/25 19:01		Janvi	OK
11	ICSA01	ICSA01	ICSA	07/10/25 19:11		Janvi	OK
12	ICSAB01	ICSAB01	ICSAB	07/10/25 19:15		Janvi	OK
13	ICSADL	ICSADL	ICSA	07/10/25 19:20		Janvi	OK
14	ICSABDL	ICSABDL	ICSAB	07/10/25 19:24		Janvi	OK
15	CCV01	CCV01	CCV	07/10/25 19:43		Janvi	OK
16	CCB01	CCB01	CCB	07/10/25 19:54		Janvi	OK
17	Q2532-01	001-WILLETS-PT-BL	SAM	07/10/25 19:58		Janvi	OK
18	Q2532-02	002-35th-AVE(MAY)	SAM	07/10/25 20:03		Janvi	OK

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Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

19	Q2533-01	001 WILLETS PT BLV	SAM	07/10/25 20:08		Janvi	OK
20	Q2533-02	002-35th-AVE(JUNE)	SAM	07/10/25 20:12		Janvi	OK
21	Q2509-01	AUD-25-0110-0111	SAM	07/10/25 20:17		Janvi	OK
22	Q2512-01	WATER TREATMENT	SAM	07/10/25 20:21		Janvi	OK
23	Q2520-24	A-24	SAM	07/10/25 20:26		Janvi	OK
24	Q2520-24DUP	A-24DUP	DUP	07/10/25 20:30		Janvi	OK
25	Q2520-24L	A-24L	SD	07/10/25 20:35		Janvi	OK
26	Q2520-24MS	A-24MS	MS	07/10/25 20:55		Janvi	OK
27	CCV02	CCV02	CCV	07/10/25 20:59		Janvi	OK
28	CCB02	CCB02	CCB	07/10/25 21:04		Janvi	OK
29	Q2520-24MSD	A-24MSD	MSD	07/10/25 21:09		Janvi	OK
30	Q2520-24A	A-24A	PS	07/10/25 21:14		Janvi	OK
31	PB168772BL	PB168772BL	MB	07/10/25 21:18	LCS fail for Fe	Janvi	Not Ok
32	Q2512-01DUP	WATER TREATMENT	DUP	07/10/25 21:27	K oversaturated	Janvi	Dilution
33	PB168772BS	PB168772BS	LCS	07/10/25 21:31	LCS fail for Fe	Janvi	Not Ok
34	Q2512-01L	WATER TREATMENT	SD	07/10/25 21:36		Janvi	OK
35	Q2512-01MS	WATER TREATMENT	MS	07/10/25 21:50	K oversaturated	Janvi	Dilution
36	Q2512-01MSD	WATER TREATMENT	MSD	07/10/25 21:59	K oversaturated	Janvi	Dilution
37	Q2512-01A	WATER TREATMENT	PS	07/10/25 22:03	K oversaturated	Janvi	Dilution
38	PB168705TB	PB168705TB	MB	07/10/25 22:07		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

39	CCV03	CCV03	CCV	07/10/25 22:32		Janvi	OK
40	CCB03	CCB03	CCB	07/10/25 22:36		Janvi	OK
41	Q2477-01	50728	SAM	07/10/25 22:41	confirm wt/vol	Janvi	OK
42	Q2477-01DUP	50728DUP	DUP	07/10/25 22:45		Janvi	OK
43	Q2477-01L	50728L	SD	07/10/25 22:49		Janvi	OK
44	Q2477-01MS	50728MS	MS	07/10/25 22:54		Janvi	OK
45	Q2477-01MSD	50728MSD	MSD	07/10/25 22:58		Janvi	OK
46	Q2477-01A	50728A	PS	07/10/25 23:02		Janvi	OK
47	Q2473-07	PIT#3	SAM	07/10/25 23:07		Janvi	OK
48	Q2473-08	PIT#4	SAM	07/10/25 23:11		Janvi	OK
49	PB168748BL	PB168748BL	MB	07/10/25 23:16		Janvi	OK
50	PB168748BS	PB168748BS	LCS	07/10/25 23:20		Janvi	OK
51	CCV04	CCV04	CCV	07/10/25 23:29		Janvi	OK
52	CCB04	CCB04	CCB	07/10/25 23:53		Janvi	OK
53	Q2512-01DL	WATER TREATMENT	SAM	07/10/25 23:57	5x for K	Janvi	Confirms
54	Q2512-01DUPDL	WATER TREATMENT	DUP	07/11/25 00:02	5x for K	Janvi	Confirms
55	Q2512-01LDL	WATER TREATMENT	SD	07/11/25 00:07		Janvi	OK
56	Q2512-01MSDL	WATER TREATMENT	MS	07/11/25 00:11	5x for K	Janvi	Confirms
57	Q2512-01MSDDL	WATER TREATMENT	MSD	07/11/25 00:16	5x for K	Janvi	Confirms
58	Q2512-01ADL	WATER TREATMENT	PS	07/11/25 00:20	5x for K	Janvi	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

59	PB168712BL	PB168712BL	MB	07/11/25 00:25		Janvi	OK
60	PB168712BS	PB168712BS	LCS	07/11/25 00:30		Janvi	OK
61	PB168740BL	PB168740BL	MB	07/11/25 00:34		Janvi	OK
62	PB168740BS	PB168740BS	LCS	07/11/25 00:38		Janvi	OK
63	CCV05	CCV05	CCV	07/11/25 00:47		Janvi	OK
64	CCB05	CCB05	CCB	07/11/25 00:51		Janvi	OK
65	PB168739BL	PB168739BL	MB	07/11/25 00:56		Janvi	OK
66	PB168739BS	PB168739BS	LCS	07/11/25 01:00		Janvi	OK
67	Q2481-01DL	CC0627-ALDL	SAM	07/11/25 01:04	Straight 10x for All elements	Janvi	OK
68	Q2481-01DUPDL	CC0627-ALDUPDL	DUP	07/11/25 01:09	Straight 10x for All elements	Janvi	OK
69	Q2481-01LDL	CC0627-ALLDL	SD	07/11/25 01:14	Straight 50x for All elements	Janvi	OK
70	Q2481-01MSDL	CC0627-ALMSDL	MS	07/11/25 01:19	Straight 10x for All elements	Janvi	OK
71	Q2481-01MSDDL	CC0627-ALMSDDL	MSD	07/11/25 01:24	Straight 10x for All elements	Janvi	OK
72	Q2481-01ADL	CC0627-ALADL	PS	07/11/25 01:29	Straight 10x for All elements	Janvi	OK
73	Q2481-02DL	CC0627-CLOXPLDL	SAM	07/11/25 01:34	Straight 10x for All elements	Janvi	OK
74	Q2481-03DL	CC0625-OXBLDL	SAM	07/11/25 01:39	Straight 10x for All elements	Janvi	OK
75	CCV06	CCV06	CCV	07/11/25 01:47		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

76	CCB06	CCB06	CCB	07/11/25 02:23		Janvi	OK
77	Q2481-04DL	CC0627-AOXLDL	SAM	07/11/25 02:27	Straight 5x for All elements	Janvi	OK
78	Q2481-05DL	CC0625-NLDL	SAM	07/11/25 02:32	Straight 5x for All elements	Janvi	OK
79	Q2481-06DL	CC0267-OXPLDL	SAM	07/11/25 02:36	Straight 5x for All elements	Janvi	OK
80	Q2481-07DL	CC0627-OXLDL	SAM	07/11/25 02:41	Straight 5x for All elements	Janvi	OK
81	Q2481-08	CC0627-CLOXAL	SAM	07/11/25 02:45		Janvi	OK
82	Q2481-09DL	CC0627-BLDL	SAM	07/11/25 02:50	Straight 10x for All elements	Janvi	OK
83	Q2481-10DL	CC0627-SFBLDL	SAM	07/11/25 02:55	Straight 5x for All elements	Janvi	OK
84	Q2481-03DL2	CC0625-OXBLDL2	SAM	07/11/25 02:59	NOT USE	Janvi	Not Ok
85	Q2487-11DL	G3(0-6)DL	SAM	07/11/25 03:04	5x for Zn, Still Zn high	Janvi	Dilution
86	Q2487-16DL	G1(6-12)DL	SAM	07/11/25 03:08	5x for Zn, Still Zn high	Janvi	Dilution
87	CCV07	CCV07	CCV	07/11/25 03:17		Janvi	OK
88	CCB07	CCB07	CCB	07/11/25 03:26		Janvi	OK
89	Q2487-14DL	G2(6-12)DL	SAM	07/11/25 03:30	5x for Zn, Still Zn high	Janvi	Confirms
90	Q2520-21	A-21	SAM	07/11/25 03:34		Janvi	OK
91	Q2520-22	A-22	SAM	07/11/25 03:39		Janvi	OK
92	Q2520-23	A-23	SAM	07/11/25 03:43		Janvi	OK
93	PB168771BL	PB168771BL	MB	07/11/25 03:48		Janvi	OK
94	PB168771BS	PB168771BS	LCS	07/11/25 03:52		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

95	Q2520-01	A-1	SAM	07/11/25 03:56		Janvi	OK
96	Q2520-02	A-2	SAM	07/11/25 04:01		Janvi	OK
97	Q2520-03	A-3	SAM	07/11/25 04:05		Janvi	OK
98	Q2520-24RE	A-24RE	SAM	07/11/25 04:10	Not Use	Janvi	Not Ok
99	CCV08	CCV08	CCV	07/11/25 04:18		Janvi	OK
100	CCB08	CCB08	CCB	07/11/25 04:27	CCB fail for Ag	Janvi	OK
101	Q2520-05	A-5	SAM	07/11/25 04:31		Janvi	OK
102	Q2520-06	A-6	SAM	07/11/25 04:36	Bad injection	Janvi	Not Ok
103	Q2520-07	A-7	SAM	07/11/25 04:40		Janvi	OK
104	Q2520-08	A-8	SAM	07/11/25 04:44		Janvi	OK
105	Q2520-09	A-9	SAM	07/11/25 04:49		Janvi	OK
106	Q2520-10	A-10	SAM	07/11/25 04:53		Janvi	OK
107	Q2520-11	A-11	SAM	07/11/25 04:58		Janvi	OK
108	Q2520-12	A-12	SAM	07/11/25 05:02		Janvi	OK
109	Q2520-13	A-13	SAM	07/11/25 05:06		Janvi	OK
110	Q2520-14	A-14	SAM	07/11/25 05:11		Janvi	OK
111	CCV09	CCV09	CCV	07/11/25 05:19		Janvi	OK
112	CCB09	CCB09	CCB	07/11/25 05:24		Janvi	OK
113	Q2520-15	A-15	SAM	07/11/25 05:33		Janvi	OK
114	Q2520-16	A-16	SAM	07/11/25 05:37		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136434

Review By	jaswal	Review On	7/12/2025 3:14:54 AM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

115	Q2520-17	A-17	SAM	07/11/25 05:41		Janvi	OK
116	Q2520-18	A-18	SAM	07/11/25 05:46		Janvi	OK
117	Q2520-19	A-19	SAM	07/11/25 05:50		Janvi	OK
118	Q2520-20	A-20	SAM	07/11/25 05:55		Janvi	OK
119	Q2520-20DUP	A-20DUP	DUP	07/11/25 05:59		Janvi	OK
120	Q2520-20L	A-20L	SD	07/11/25 06:03		Janvi	OK
121	Q2520-20MS	A-20MS	MS	07/11/25 06:08		Janvi	OK
122	CCV10	CCV10	CCV	07/11/25 06:16		Janvi	OK
123	CCB10	CCB10	CCB	07/11/25 06:21		Janvi	OK
124	Q2520-20MSD	A-20MSD	MSD	07/11/25 06:30		Janvi	OK
125	Q2520-20A	A-20A	PS	07/11/25 06:34		Janvi	OK
126	CCV11	CCV11	CCV	07/11/25 06:43		Janvi	OK
127	CCB11	CCB11	CCB	07/11/25 06:47		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136488

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/15/25 19:01		Janvi	OK
2	S1	S1	CAL2	07/15/25 19:05		Janvi	OK
3	S2	S2	CAL3	07/15/25 19:10		Janvi	OK
4	S3	S3	CAL4	07/15/25 19:14		Janvi	OK
5	S4	S4	CAL5	07/15/25 19:18		Janvi	OK
6	S5	S5	CAL6	07/15/25 19:22		Janvi	OK
7	ICV01	ICV01	ICV	07/15/25 19:27	As,K,Tl(Fail For 95-105)	Janvi	OK
8	LLICV01	LLICV01	LLICV	07/15/25 19:37		Janvi	OK
9	ICB01	ICB01	ICB	07/15/25 19:42		Janvi	OK
10	CRI01	CRI01	CRDL	07/15/25 19:56		Janvi	OK
11	ICSA01	ICSA01	ICSA	07/15/25 20:01		Janvi	OK
12	ICSAB01	ICSAB01	ICSAB	07/15/25 20:05		Janvi	OK
13	ICSADL	ICSADL	ICSA	07/15/25 20:10		Janvi	OK
14	ICSABDL	ICSABDL	ICSAB	07/15/25 20:20		Janvi	OK
15	CCV01	CCV01	CCV	07/15/25 20:25		Janvi	OK
16	CCB01	CCB01	CCB	07/15/25 20:29		Janvi	OK
17	PB168772BL	PB168772BL	MB	07/15/25 20:34		Janvi	OK
18	PB168772BS	PB168772BS	LCS	07/15/25 21:01		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136488

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	Q2564-05	ARS20-0039	SAM	07/15/25 21:06		Janvi	OK
20	Q2564-05DUP	ARS20-0039DUP	DUP	07/15/25 21:11		Janvi	OK
21	Q2564-05L	ARS20-0039L	SD	07/15/25 21:15		Janvi	OK
22	Q2564-05MS	ARS20-0039MS	MS	07/15/25 21:20		Janvi	OK
23	Q2564-05MSD	ARS20-0039MSD	MSD	07/15/25 21:24		Janvi	OK
24	Q2564-05A	ARS20-0039A	PS	07/15/25 21:29		Janvi	OK
25	Q2559-01	500-3B CONCRETE C	SAM	07/15/25 21:33	Ca High	Janvi	Dilution
26	CCV02	CCV02	CCV	07/15/25 22:12		Janvi	OK
27	CCB02	CCB02	CCB	07/15/25 22:17		Janvi	OK
28	Q2559-01DL	500-3B CONCRETE C	SAM	07/15/25 22:21	5X For Ca	Janvi	Confirms
29	Q2520-06	A-6	SAM	07/15/25 22:25		Janvi	OK
30	Q2520-04	A-4	SAM	07/15/25 22:30		Janvi	OK
31	CCV03	CCV03	CCV	07/15/25 22:39		Janvi	OK
32	CCB03	CCB03	CCB	07/15/25 22:43		Janvi	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2520

Test : Metals Group3

Prepbatch ID : PB168771,PB168772,

Sequence ID/Qc Batch ID: LB136434,LB136434,LB136434,LB136488,LB136488,

Standard ID :
MP85156,MP86192,MP86193,MP86194,MP86195,MP86196,MP86211,MP86212,MP86214,MP86216,MP86217,MP86218,MP86219,MP86220,

Chemical ID :
M5467,M5470,M5471,M5499,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5816,M5820,M5942,M5962,M5970,M5984,M5985,M5996,M5997,M6007,M6015,M6021,M6023,M6028,M6030,M6032,M6058,M6076,M6127,M6128,M6137,M6142,M6144,M6145,M6146,M6151,M6152,M6155,M6158,M6159,M6162,M6163,M6164,M6165,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)	MP86192	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = 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)	MP86193	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5470 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5970 + 5.00000ml of M5996 + 5.00000ml of M5997 + 5.00000ml of M6076 + 5.00000ml of M6146 + 455.00000ml of MP86192 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP86194	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 50.00000ml of MP86192 + 50.00000ml of MP86193 = 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	MP86195	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 25.00000ml of MP86193 + 75.00000ml of MP86192 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP86196	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 16.00000ml of MP86193 + 184.00000ml of MP86192 = 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	MP86211	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

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 M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5499 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP86192 = 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	MP86212	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 2.00000ml of MP86211 + 98.00000ml of MP86192 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP86214	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 10.00000ml of M6152 + 80.00000ml of MP86192 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP86216	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 50.00000ml of MP86192 + 50.00000ml of MP86193 = 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	MP86217	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP86218	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP86219	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.20000ml of M6058 + 0.20000ml of M6163 + 0.20000ml of M6164 + 0.20000ml of M6165 + 49.20000ml of MP86192 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP86220	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.10000ml of M6076 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.90000ml of MP86192 = Final Quantity: 100.000 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.	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.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	04/17/2025 / Janvi	03/17/2023 / bin	M5499

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	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.	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.	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	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 #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

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-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	05/07/2024 / JANVI	02/22/2024 / kareem	M5996

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	06/19/2025 / MOHAN	05/14/2024 / Jaswal	M6015

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	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

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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 #
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.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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 #
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	06/30/2025	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	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	05/22/2029	06/09/2025 / jaswal	06/06/2025 / jaswal	M6163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2	U2-MEB733713	06/01/2028	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	01/02/2030	06/09/2025 / jaswal	06/09/2025 / jaswal	M6165

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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

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Certified Reference Material CRM

M6032

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AR-1539 Certificate Number
https://Absolutestandards.com

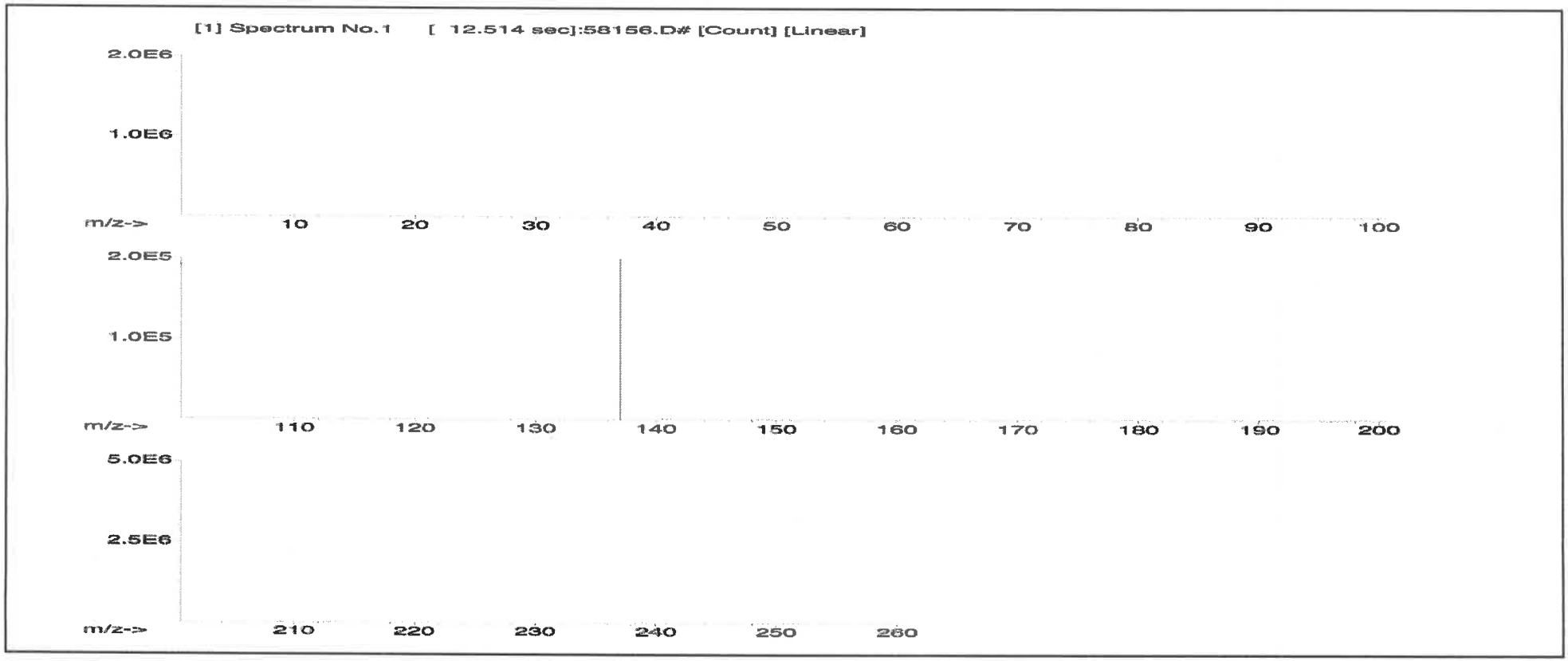
CERTIFIED WEIGHT REPORT:

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).

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

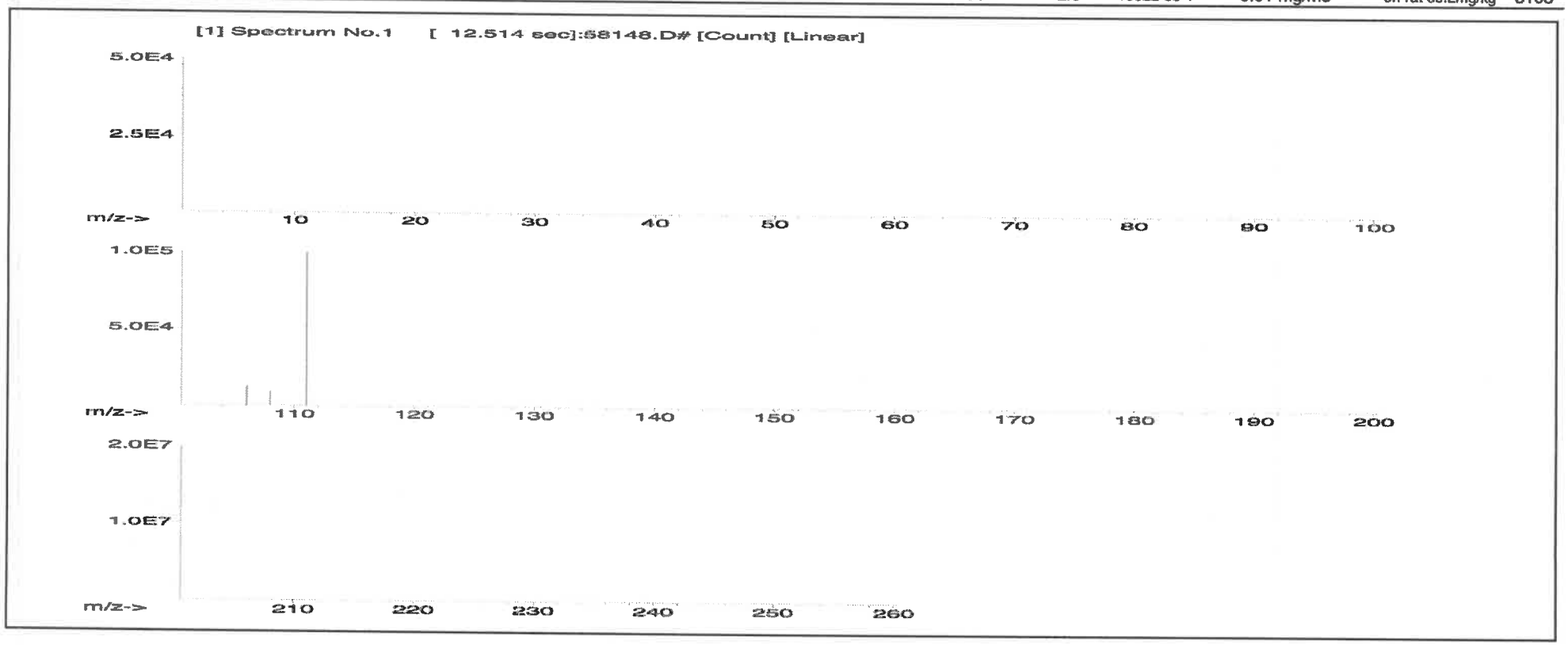
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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 Reference Material CRM

R : 01/03/24. M5810, M5811

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

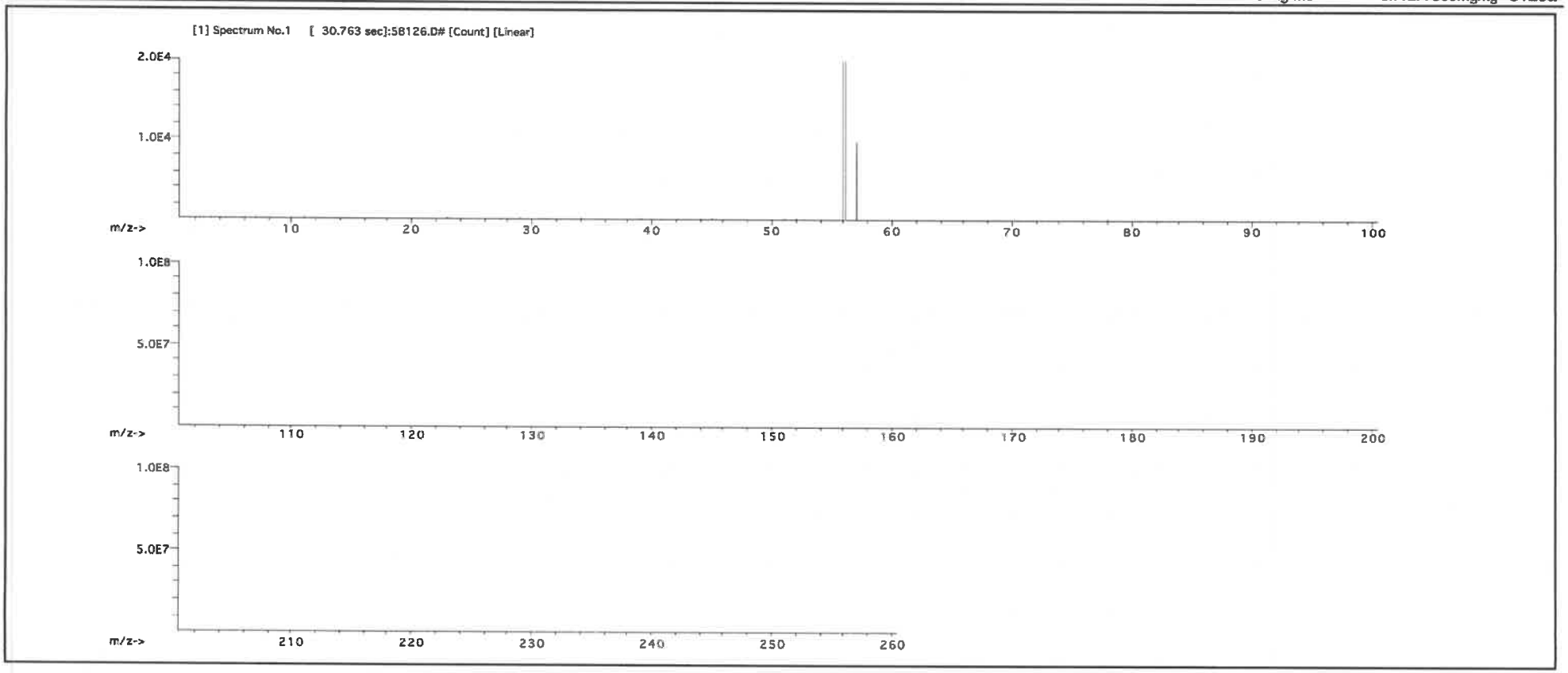
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		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:



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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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RD:05/14/2024

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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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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

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

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

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

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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 17, 2023

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

11.2 Lot Expiration Date

- March 17, 2028

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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www.absolutestandards.com

Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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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

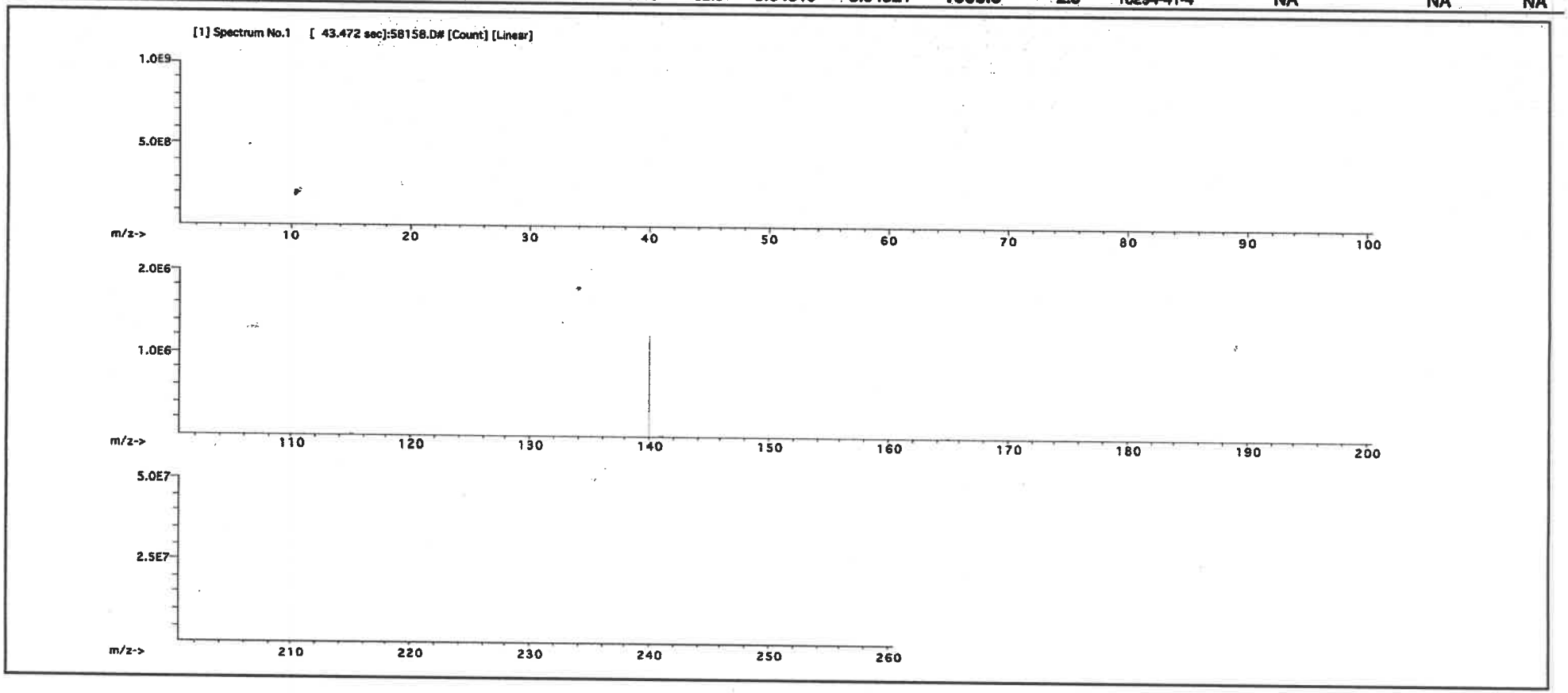
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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.

* 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).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5708
Added 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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M5658 R ! 8/25/23

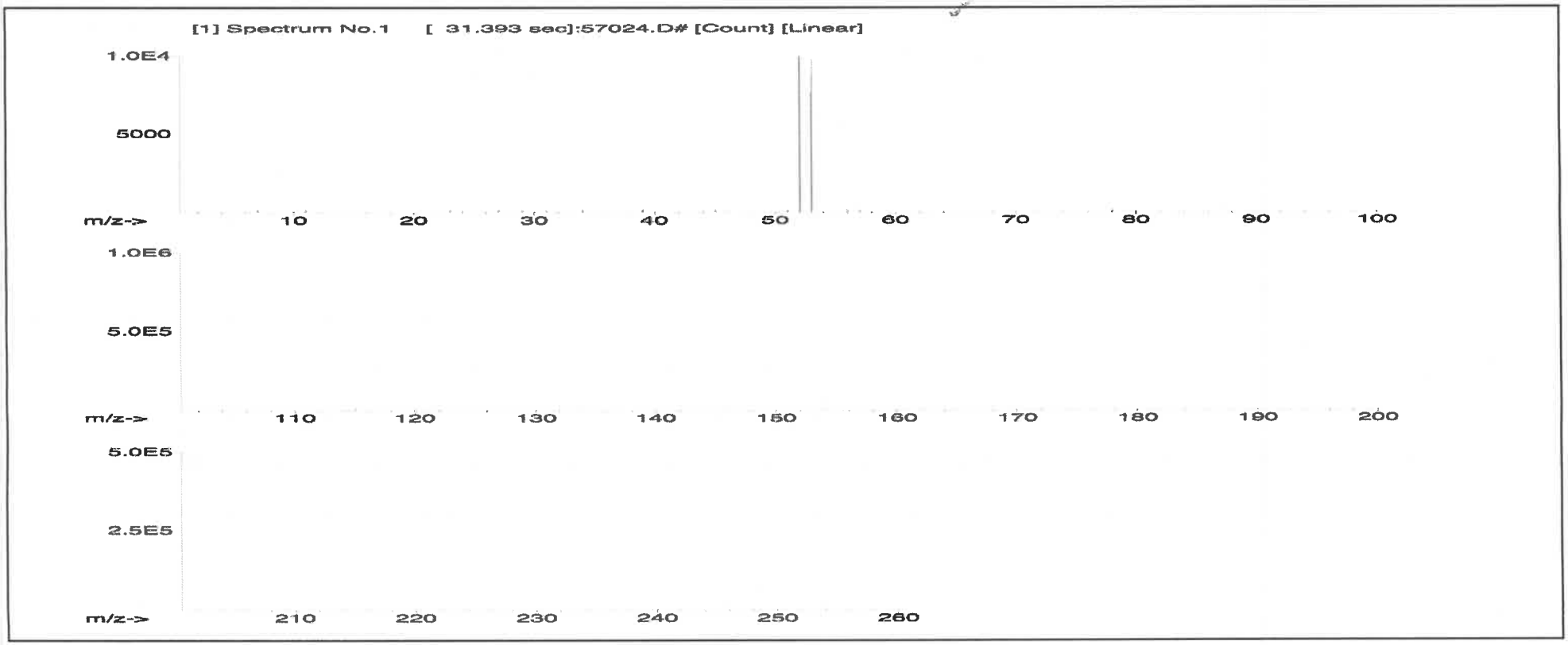
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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

		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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

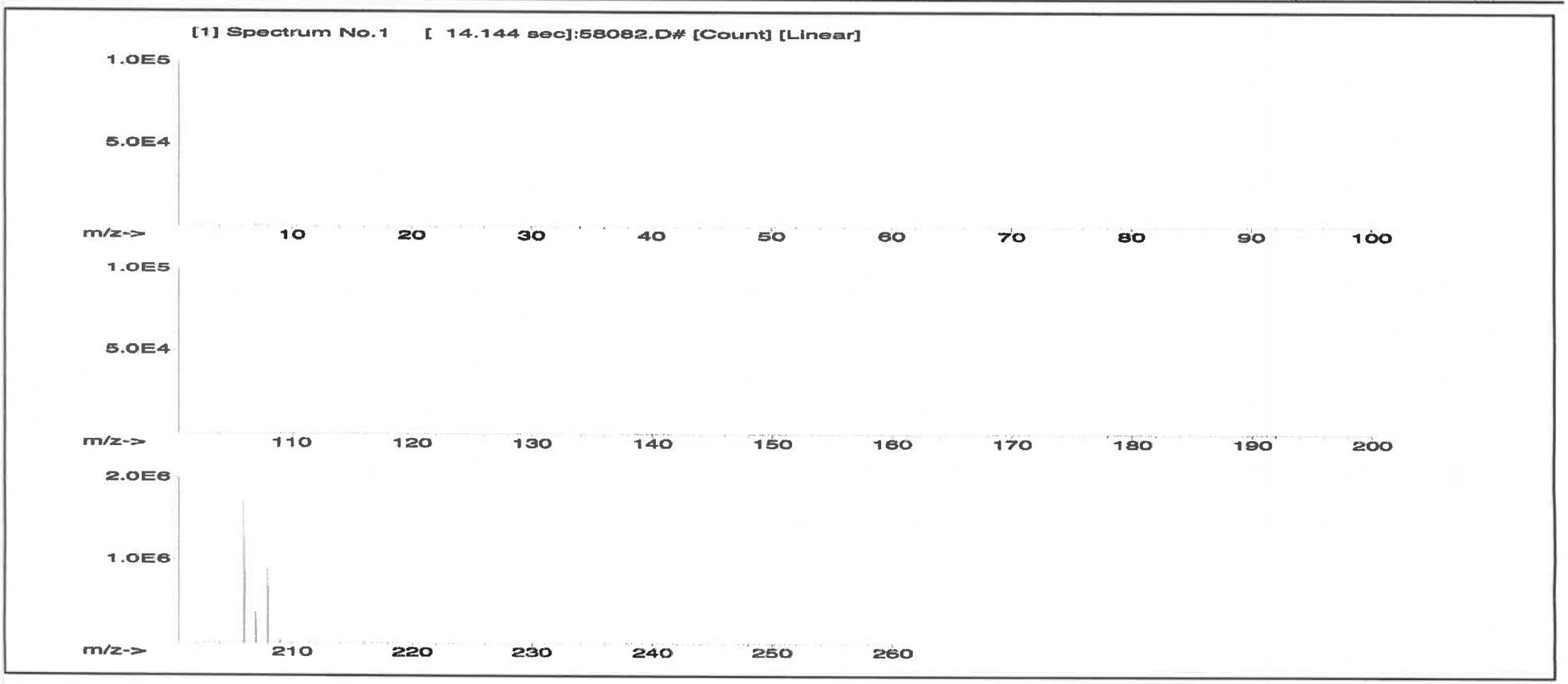
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* 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: 12/20/23 M5748

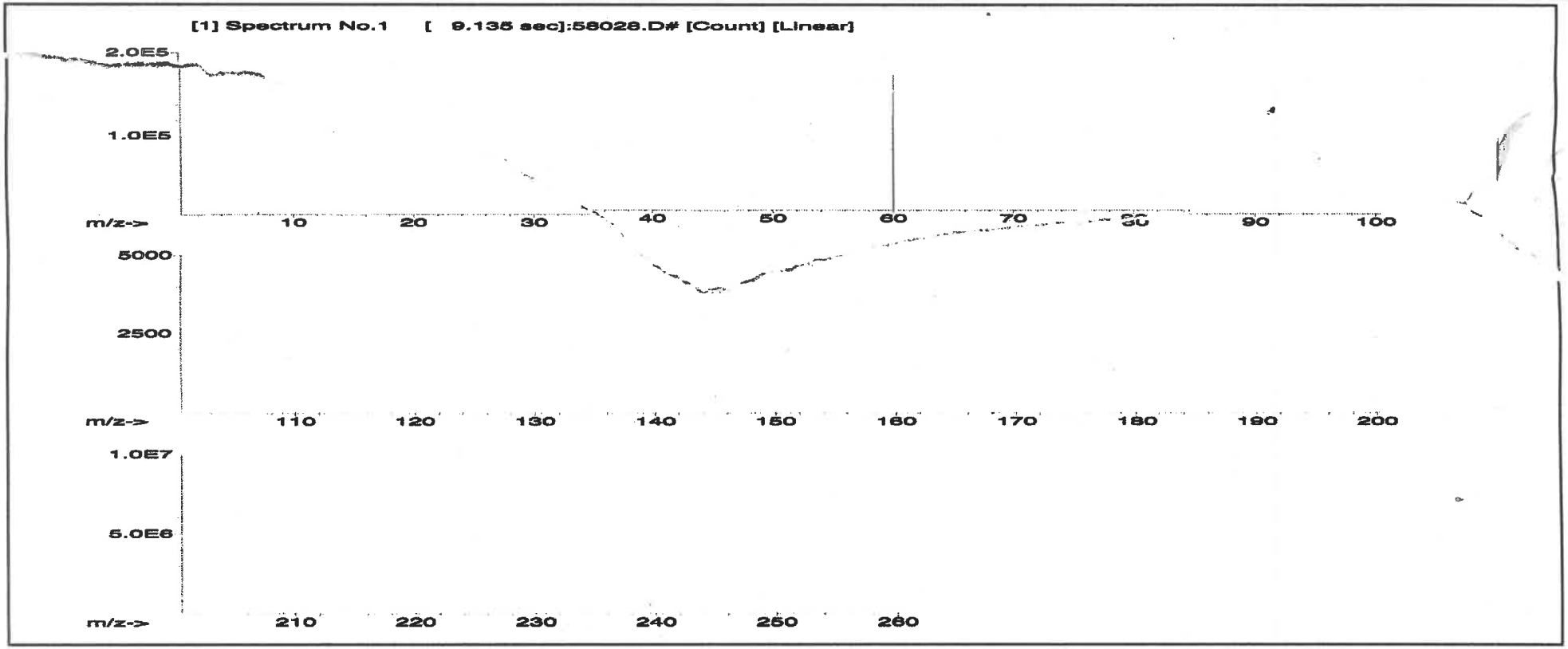
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CERTIFIED WEIGHT REPORT:

		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

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Certified Reference Material CRM

R: 8/25/23 M5751

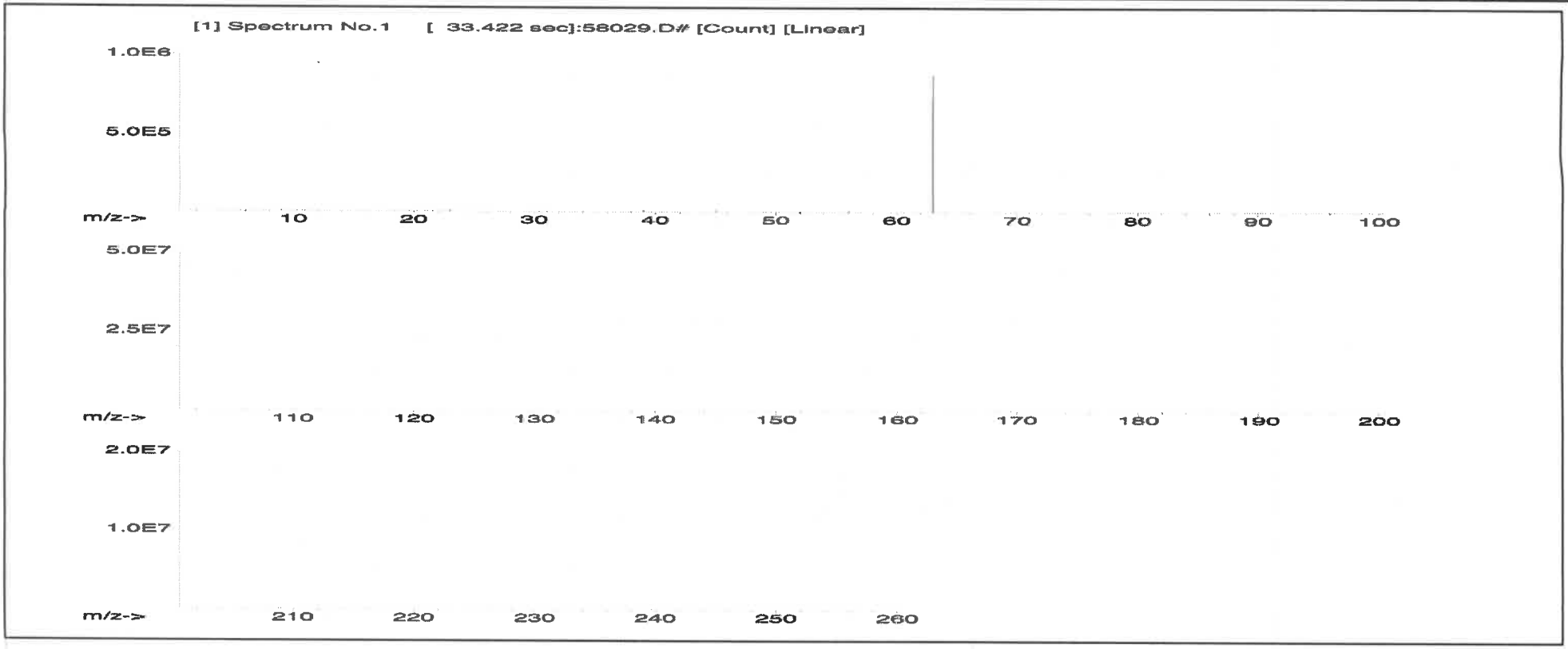
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CERTIFIED WEIGHT REPORT:

		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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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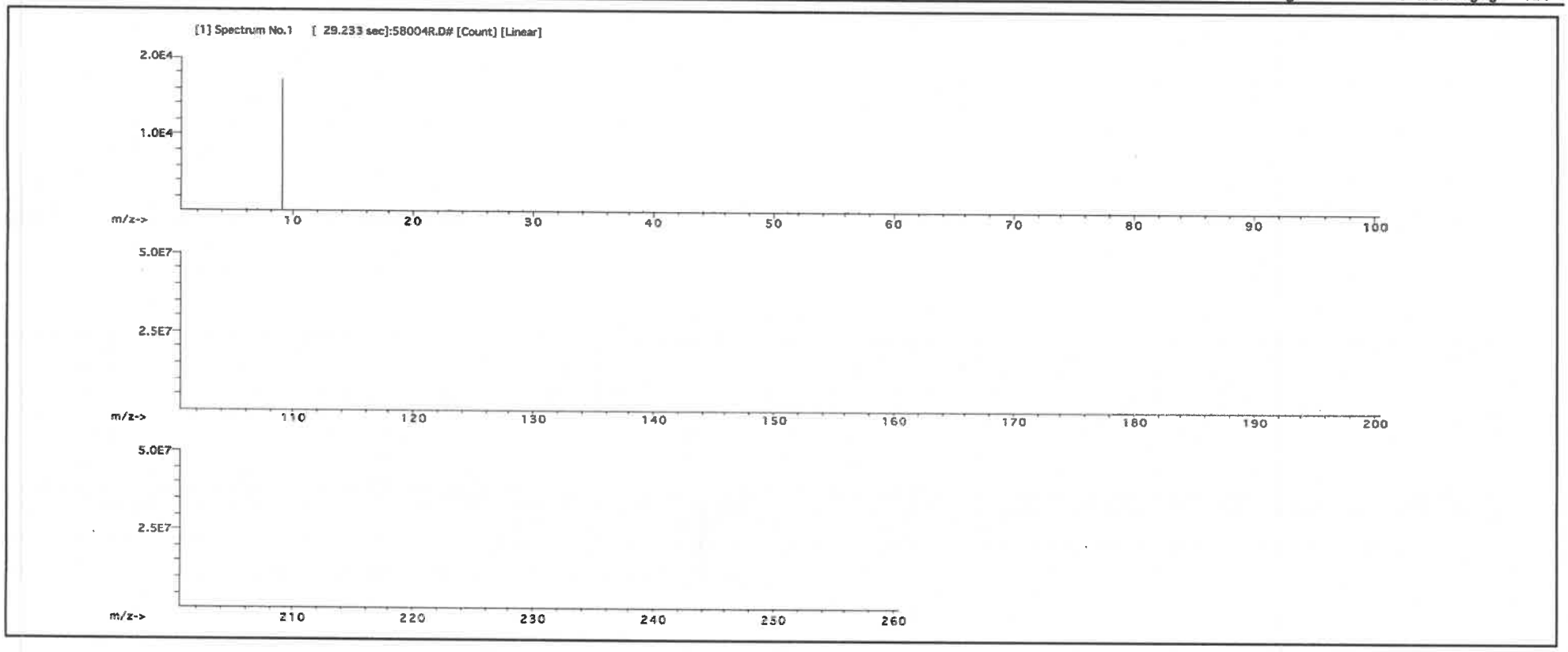
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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)

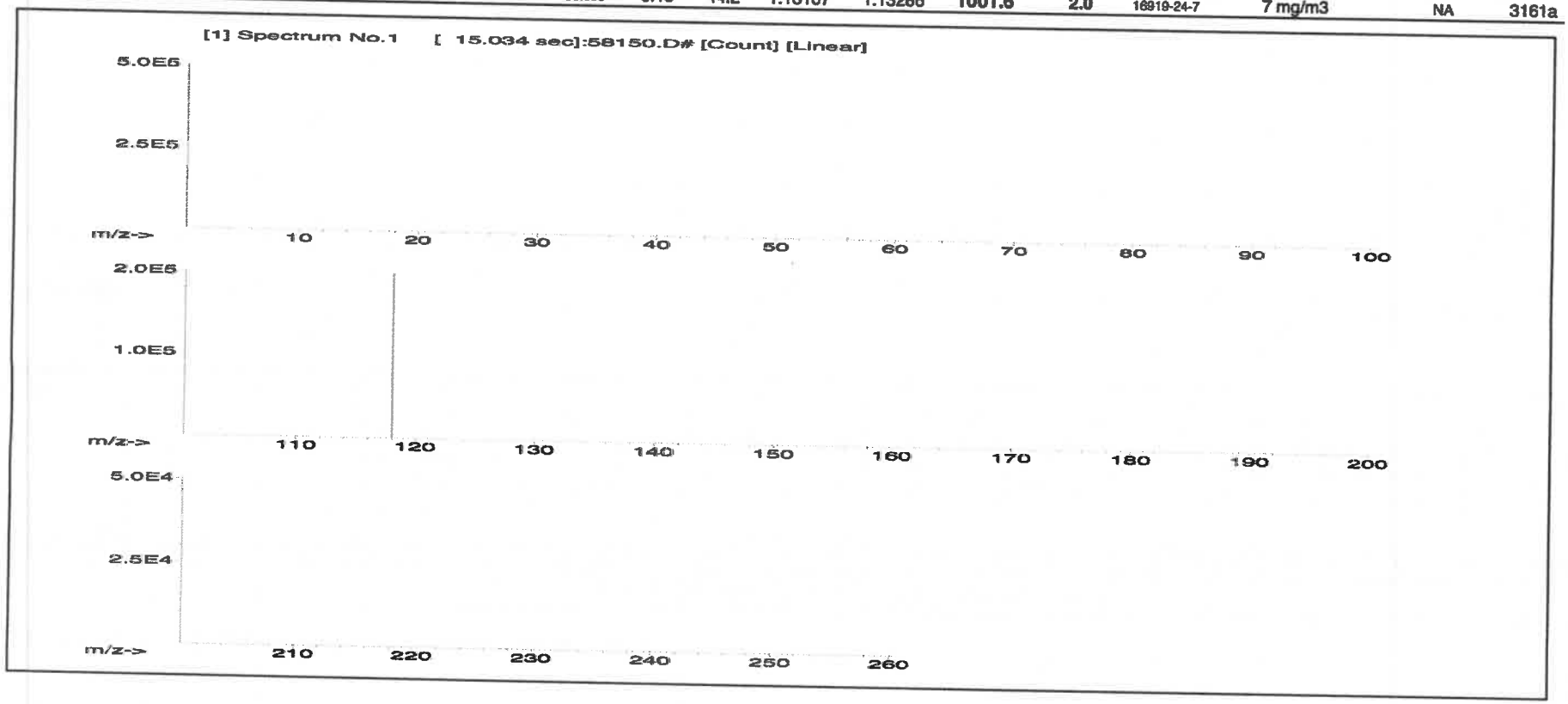
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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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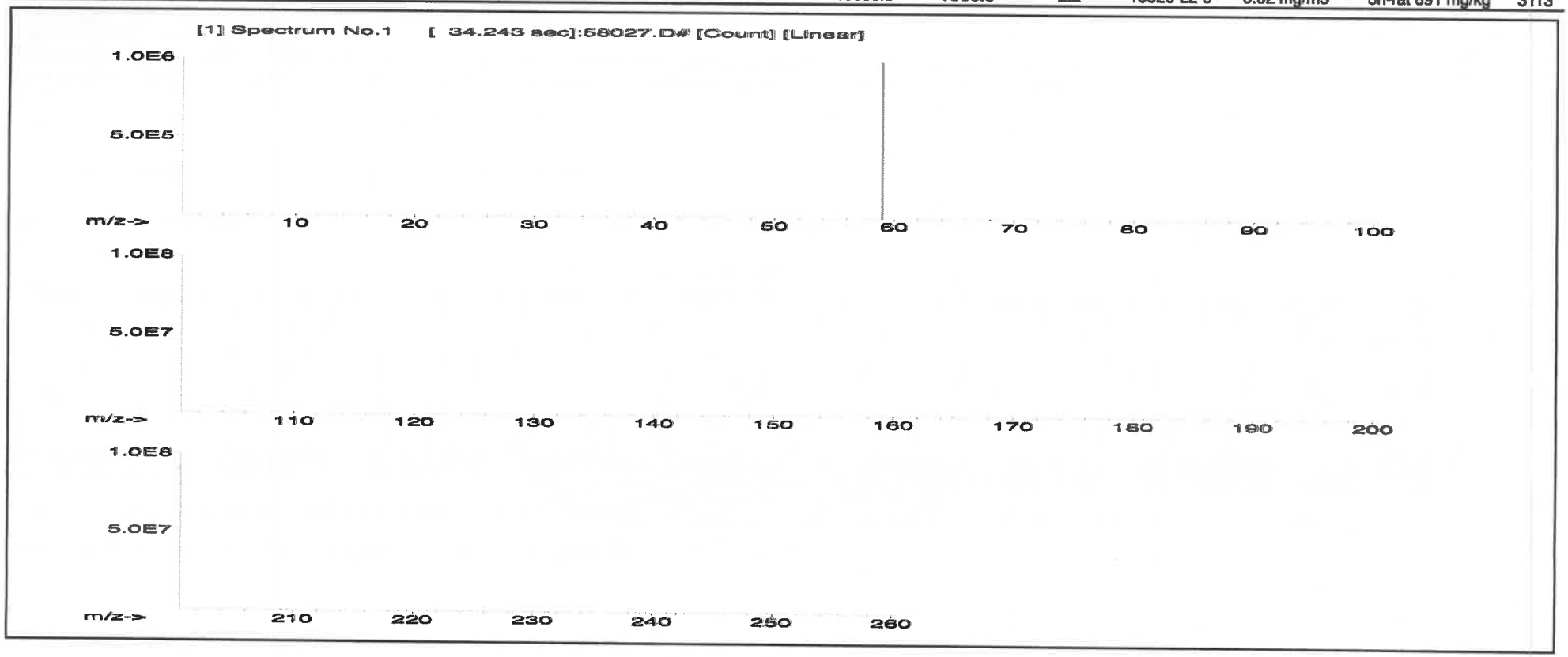
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CERTIFIED WEIGHT REPORT:

		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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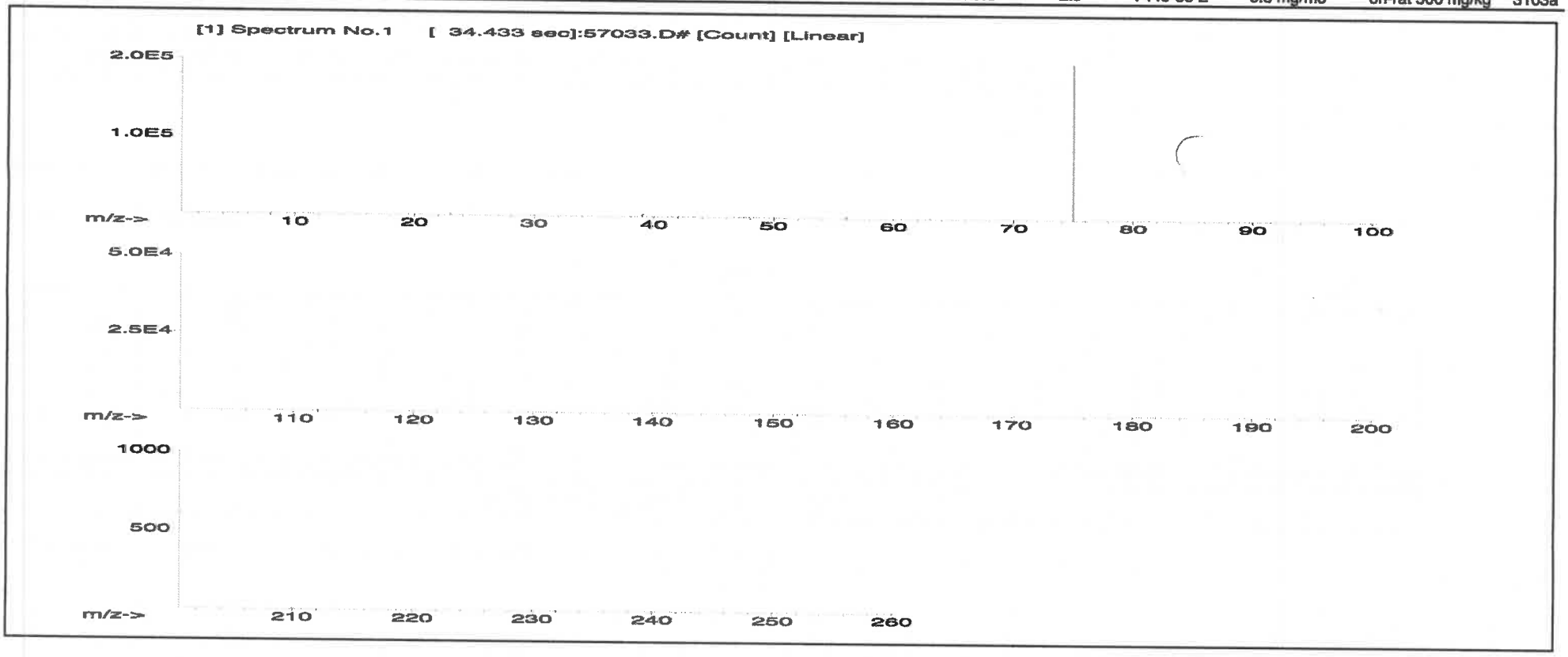
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CERTIFIED **WEIGHT** REPORT:

		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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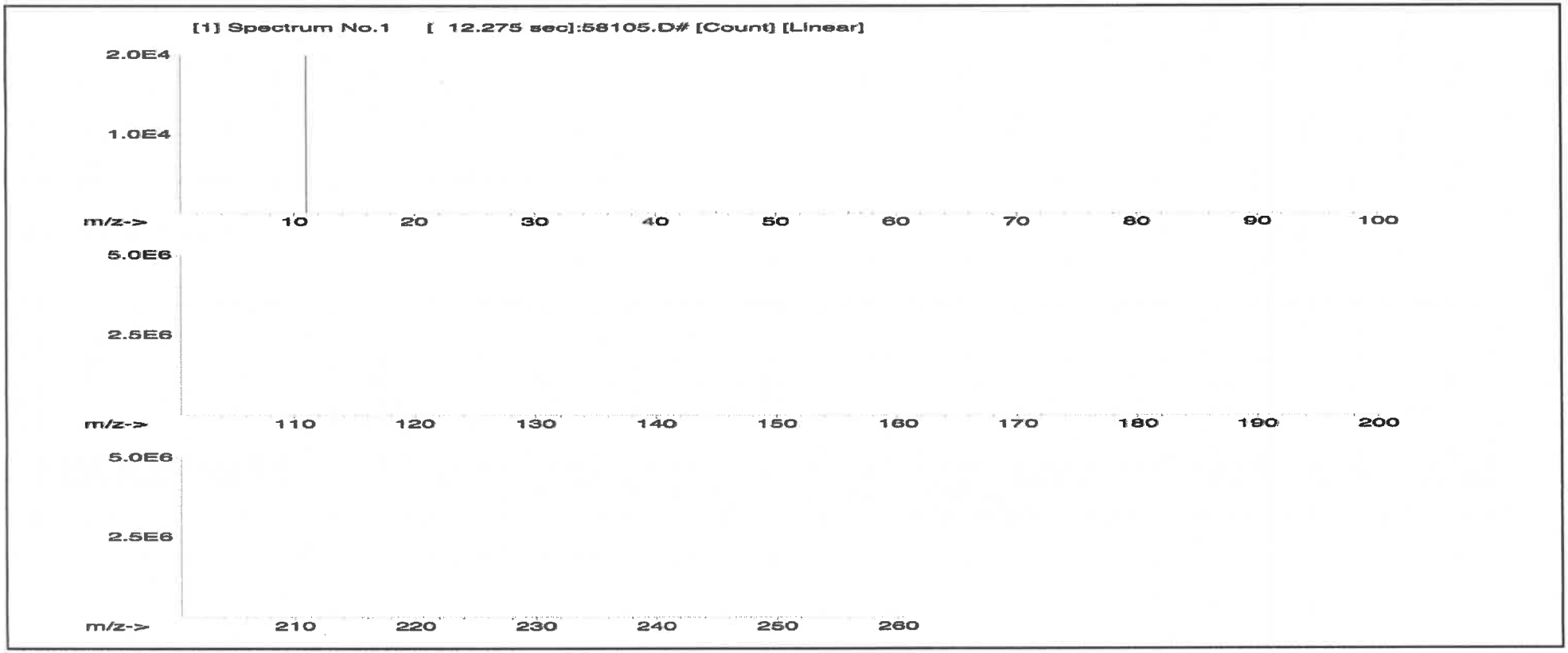
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CERTIFIED WEIGHT REPORT:

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:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5816

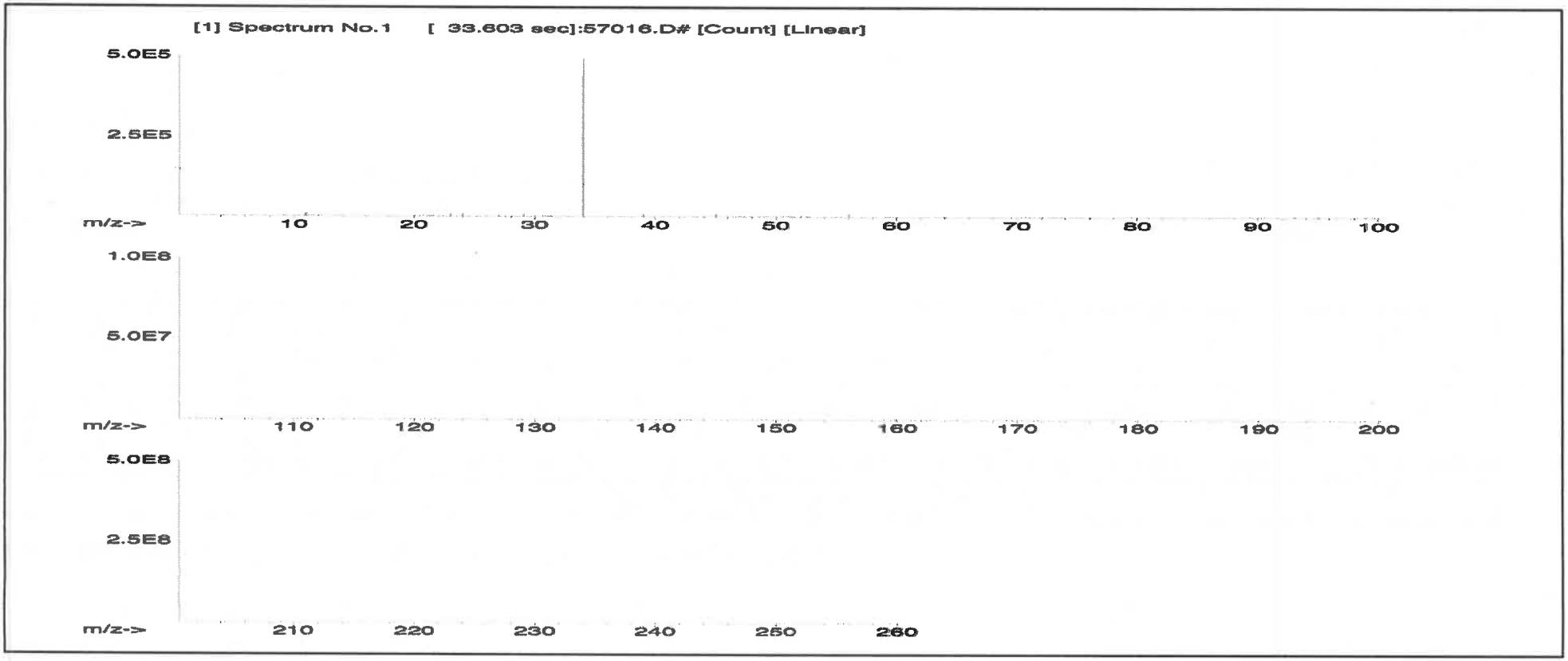
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5820

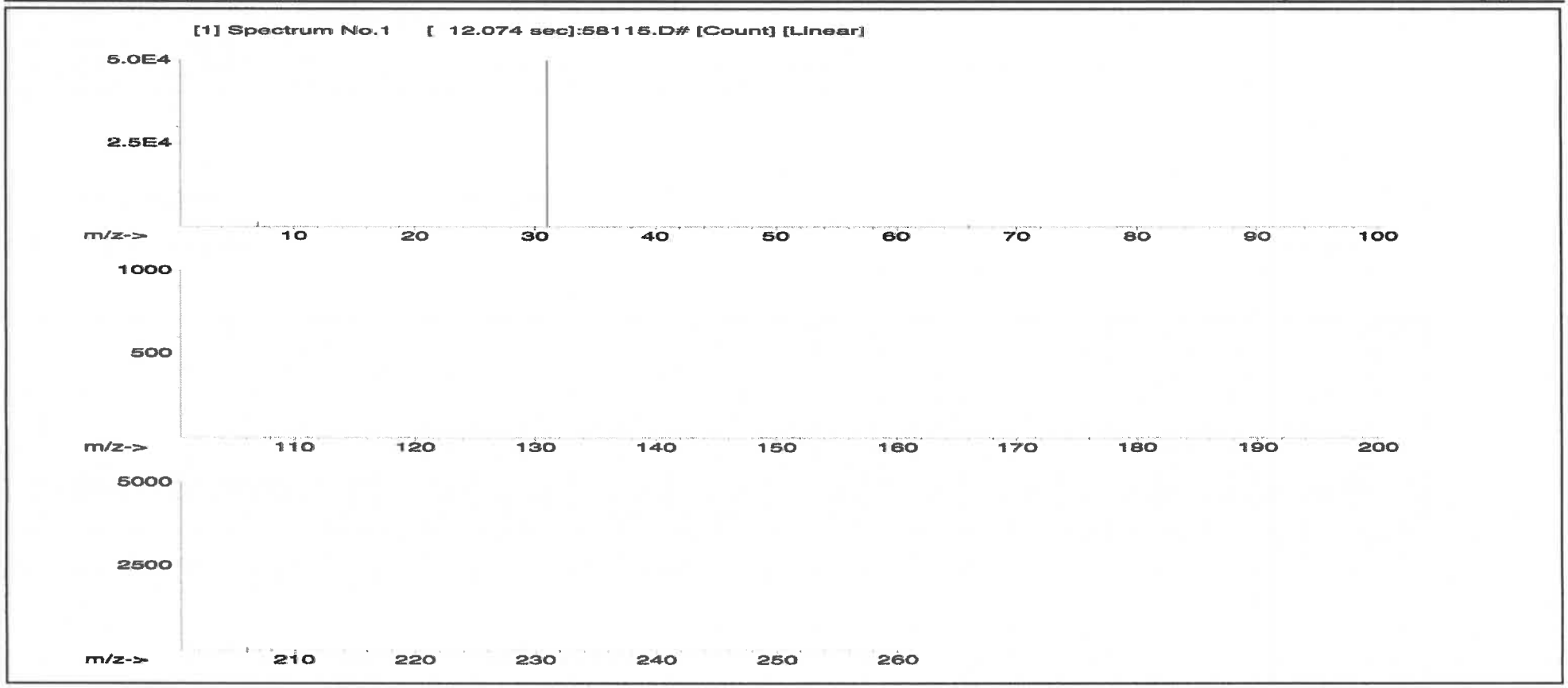
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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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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 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



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Certified Reference Material CRM

M5962 R! 06/14/24.

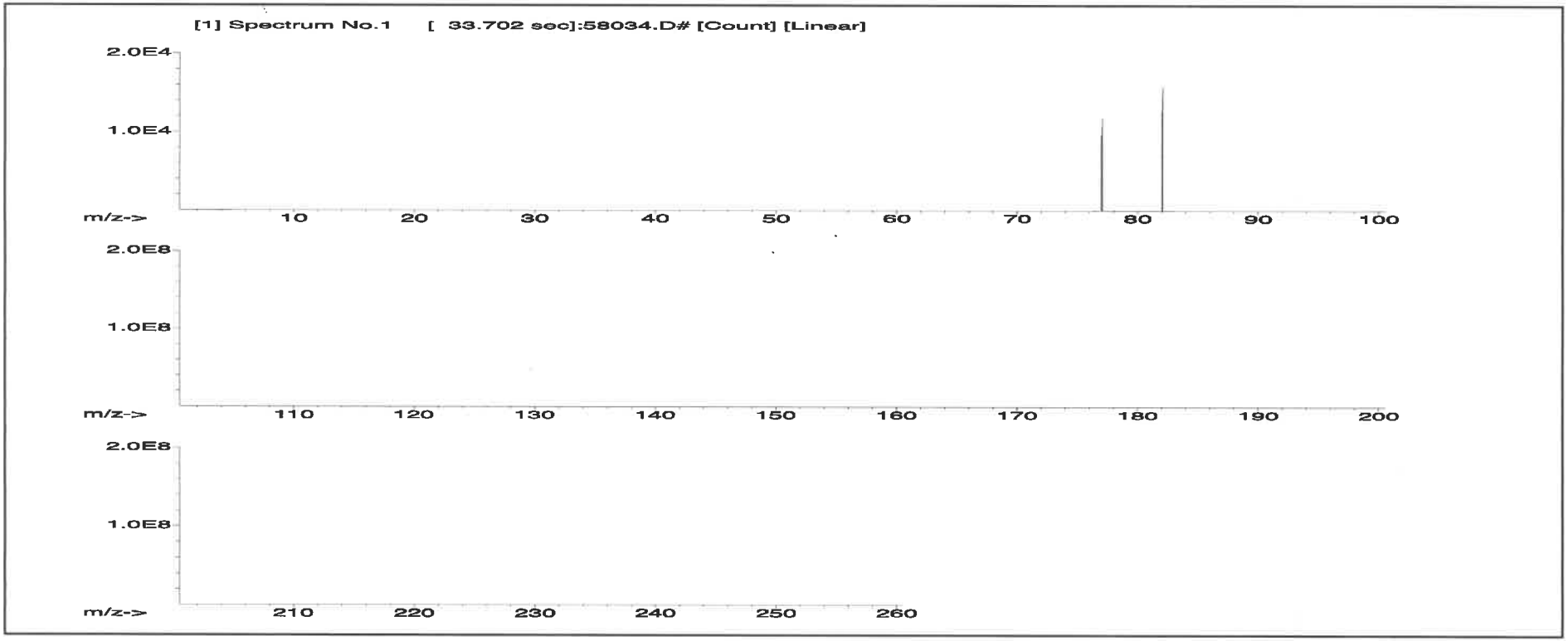
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https://Absolutestandards.com

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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M5970, M5971 R: 7/01/24

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https://Absolutestandards.com

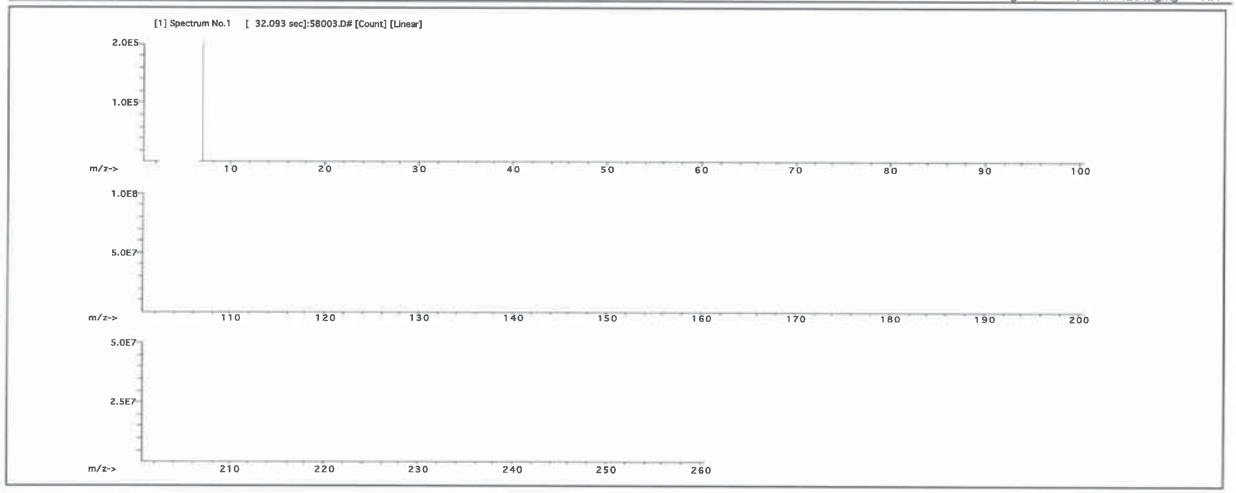
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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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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 °C)

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

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

11.2 Lot Expiration Date

- January 27, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

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



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

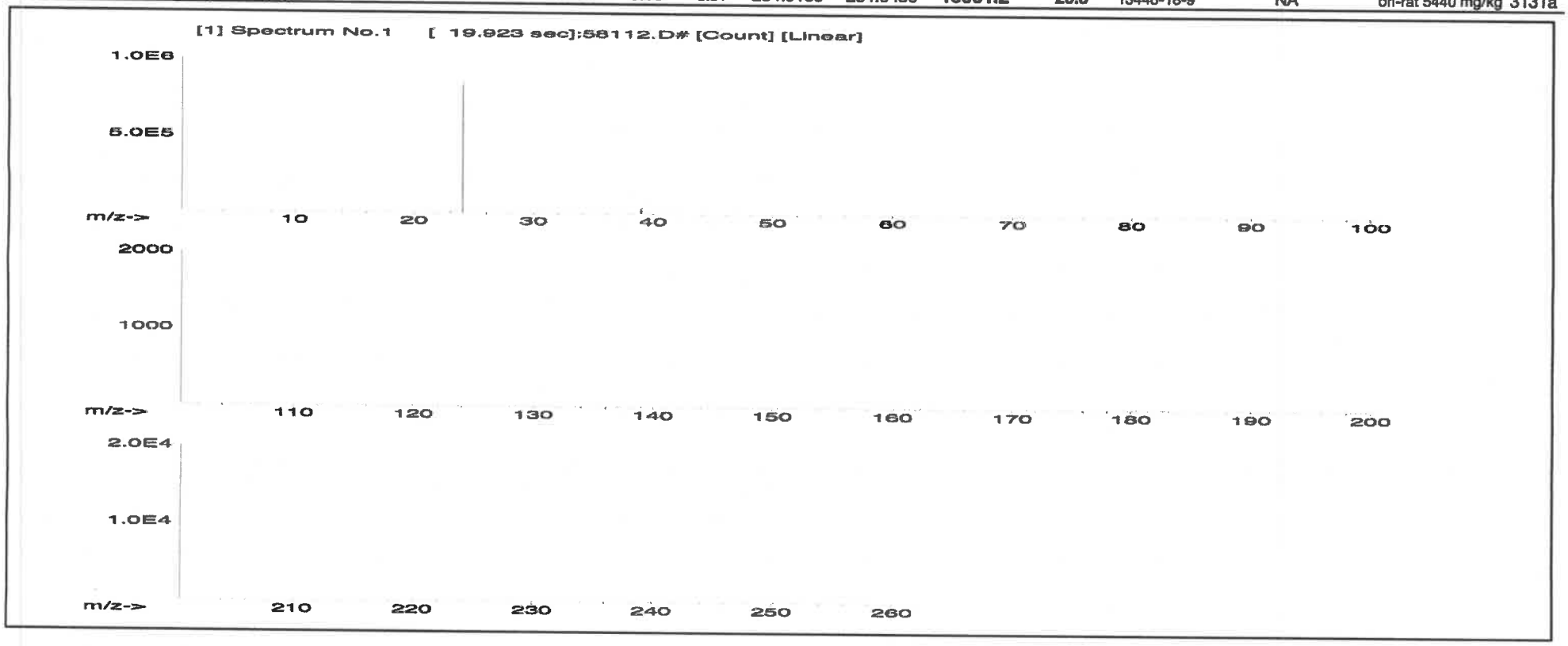
M 6127

			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	

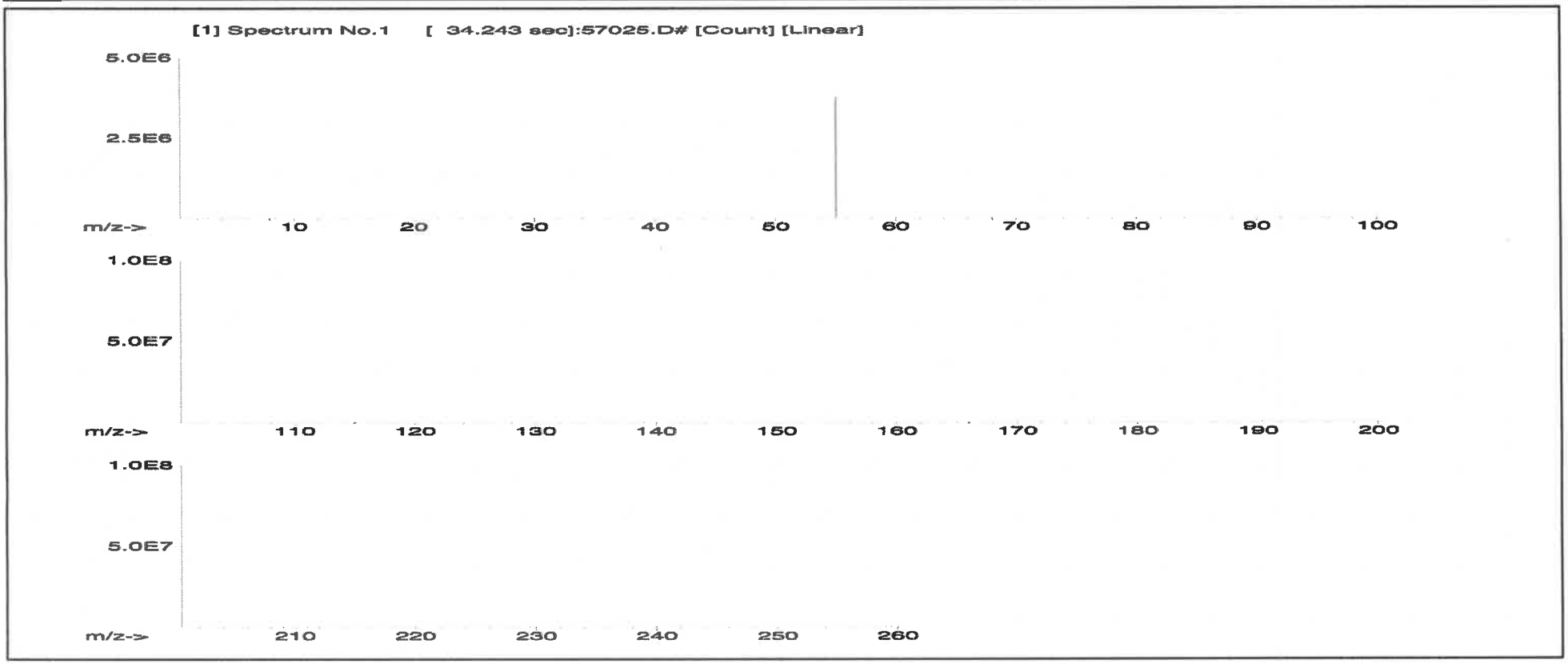
Giovanni Esposito

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.
* 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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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.

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	<	0.000310	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



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

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	

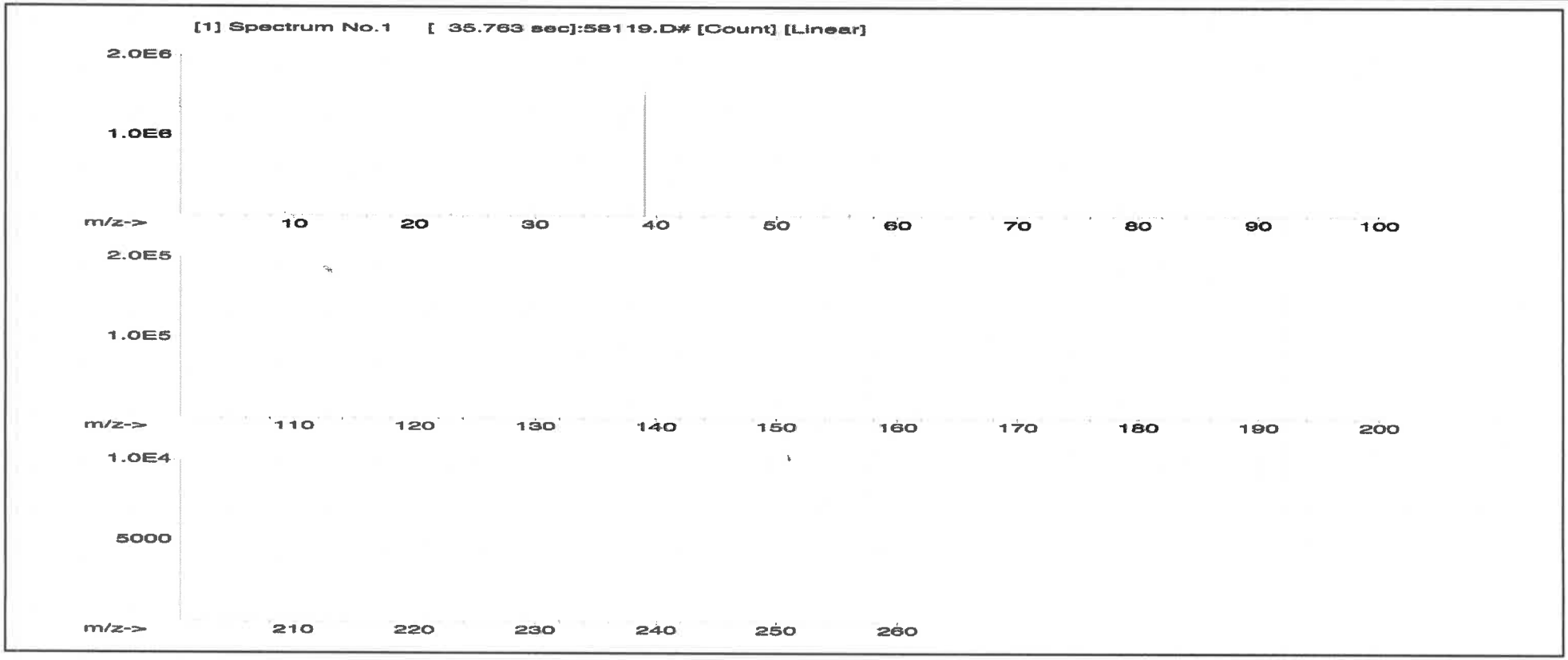
5E-05 Balance Uncertainty

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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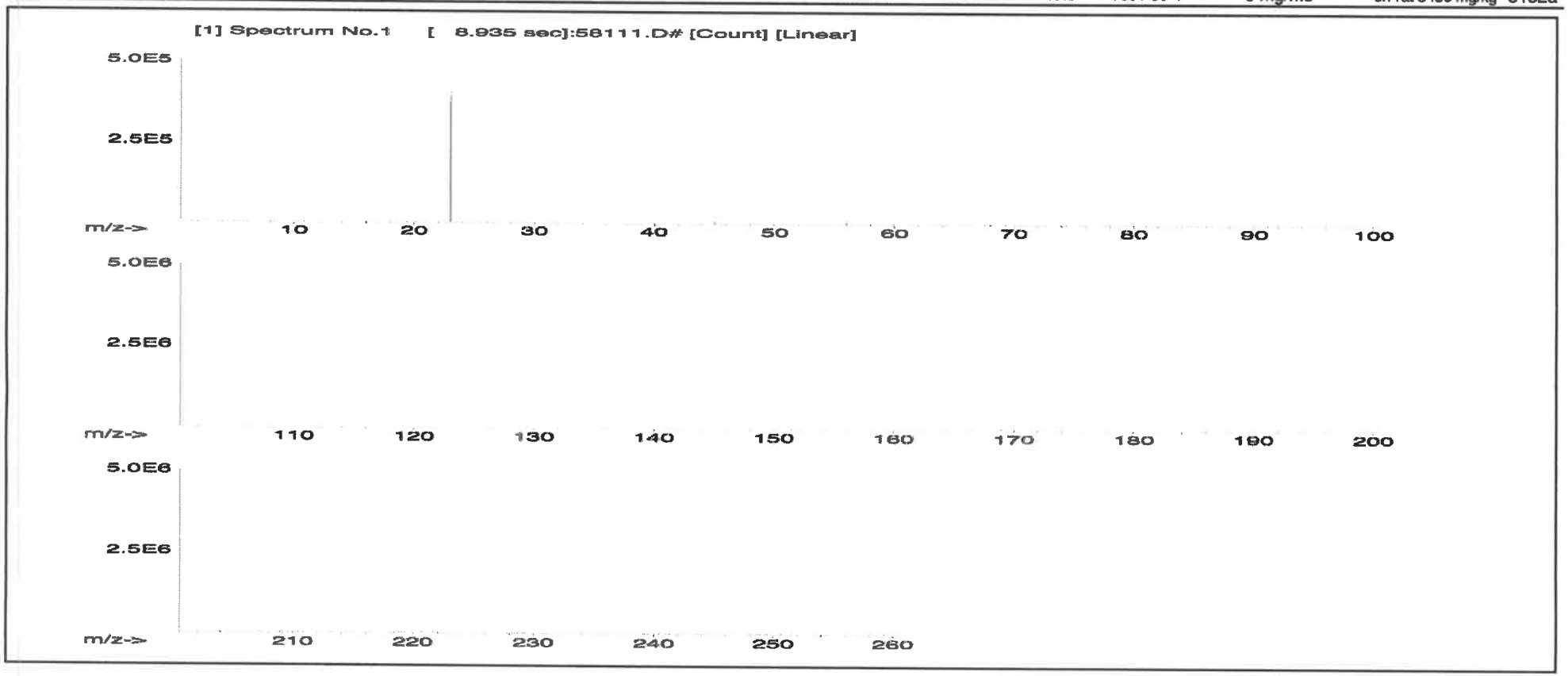
CERTIFIED WEIGHT REPORT:

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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ANAB ISO 17034 Accredited
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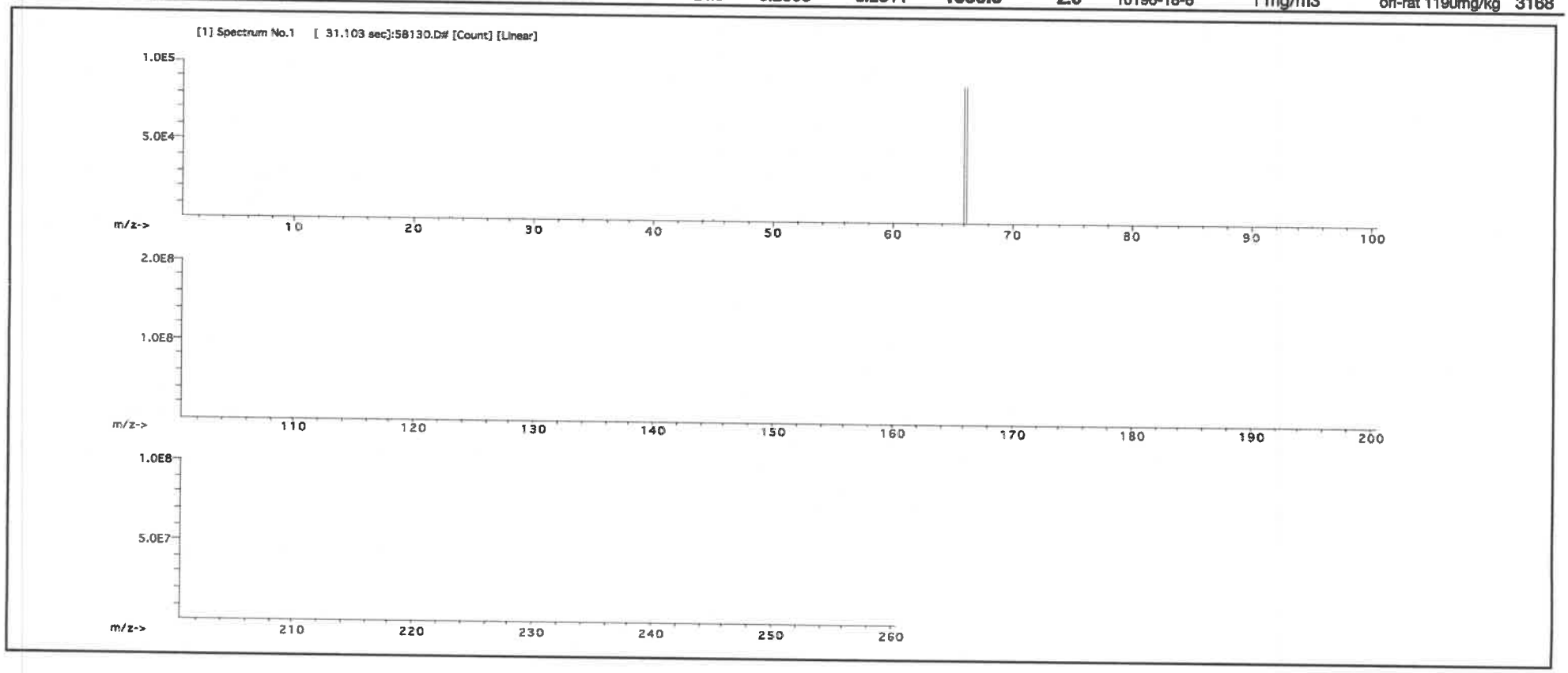
CERTIFIED WEIGHT REPORT:

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).

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

avantor™ | J.T.Baker®

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

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-5162

R. Date :- 04/27/2025

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
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	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 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	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 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	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
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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:	QCP-CICV-1
Lot Number:	V2-MEB744107
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 1 000 µg/mL ea: Aluminum, Barium, 500 µg/mL ea: Iron, 250 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 125 µg/mL ea: Silver, Copper, 100 µg/mL ea: Chromium, 25 µg/mL ea: Beryllium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**1 000 ± 4 µg/mL**	**Barium, Ba**	**1 000 ± 6 µg/mL**
Beryllium, Be	**24.98 ± 0.12 µg/mL**	**Calcium, Ca**	**2 500 ± 8 µg/mL**
Chromium, Cr	**99.9 ± 0.6 µg/mL**	**Cobalt, Co**	**250.2 ± 1.2 µg/mL**
Copper, Cu	**125.0 ± 0.5 µg/mL**	**Iron, Fe**	**500.0 ± 2.2 µg/mL**
Magnesium, Mg	**2 500 ± 11 µg/mL**	**Manganese, Mn**	**249.9 ± 1.1 µg/mL**
Nickel, Ni	**250.0 ± 1.2 µg/mL**	**Potassium, K**	**2 500 ± 11 µg/mL**
Silver, Ag	**125.0 ± 0.6 µg/mL**	**Sodium, Na**	**2 500 ± 11 µg/mL**
Vanadium, V	**250.0 ± 1.1 µg/mL**	**Zinc, Zn**	**249.9 ± 1.1 µg/mL**

Density: 1.081 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
Cu	ICP Assay	3114	120618
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	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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**

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

May 22, 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

- **May 22, 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

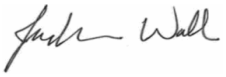
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-2
Lot Number:	U2-MEB733713
Matrix:	3% (w/v) Tartaric acid 1% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**500.0 ± 2.8 µg/mL**		

Density: 1.017 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

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**

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

June 01, 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

- **June 01, 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

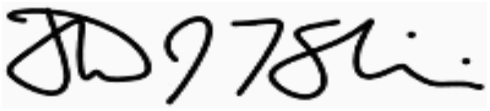
- Sealed TCT Bag Open Date: _____

- 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



Certificate of Analysis

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inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

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

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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 02, 2025

- 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 02, 2030**

- 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

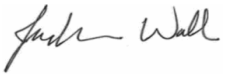
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

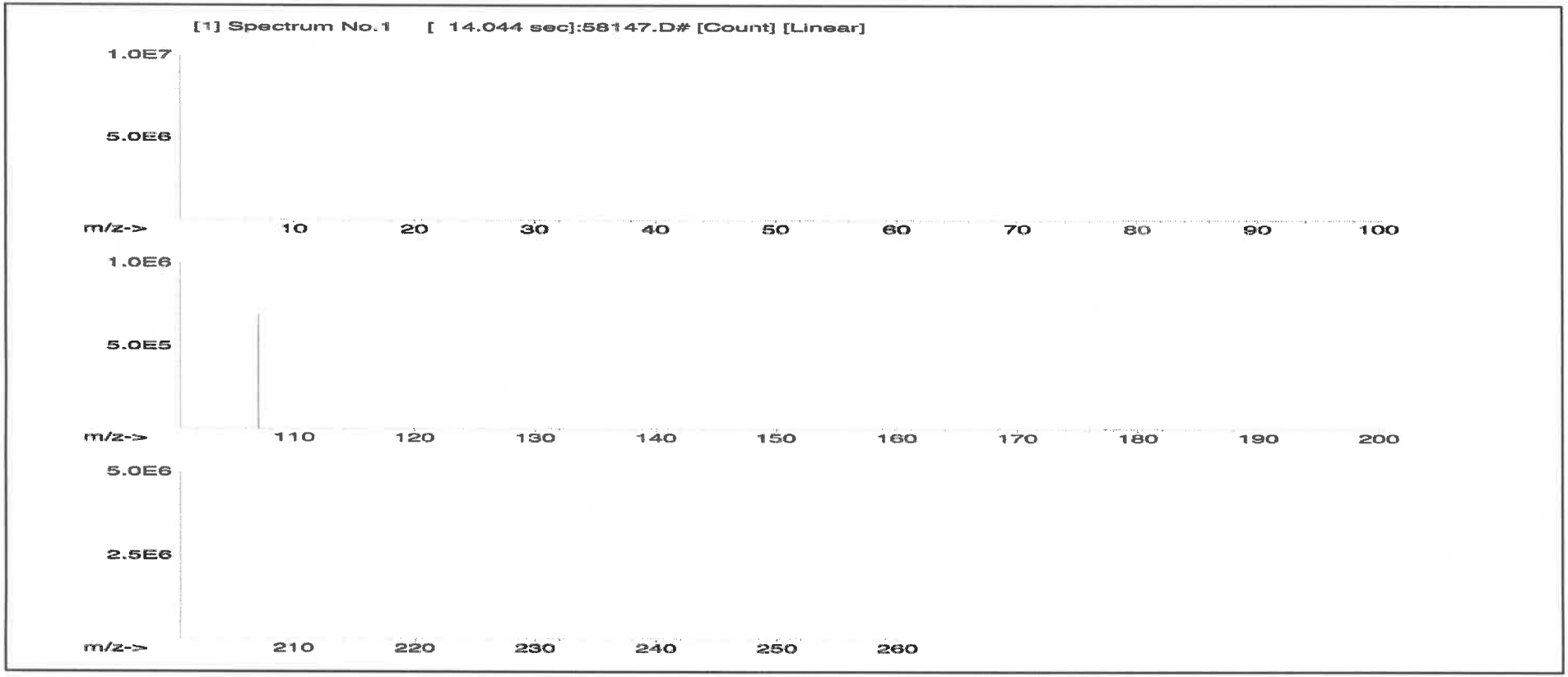
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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	

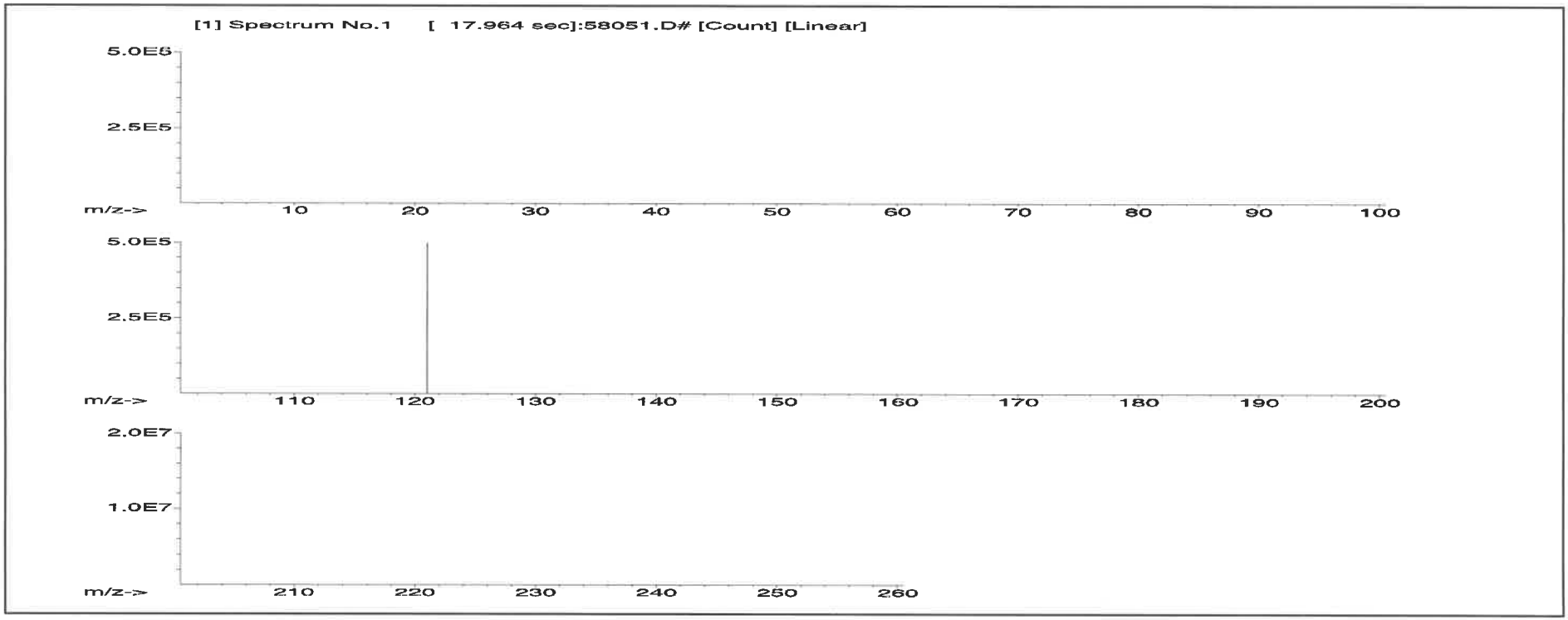
Giovanni Esposito

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
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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™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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				
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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

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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

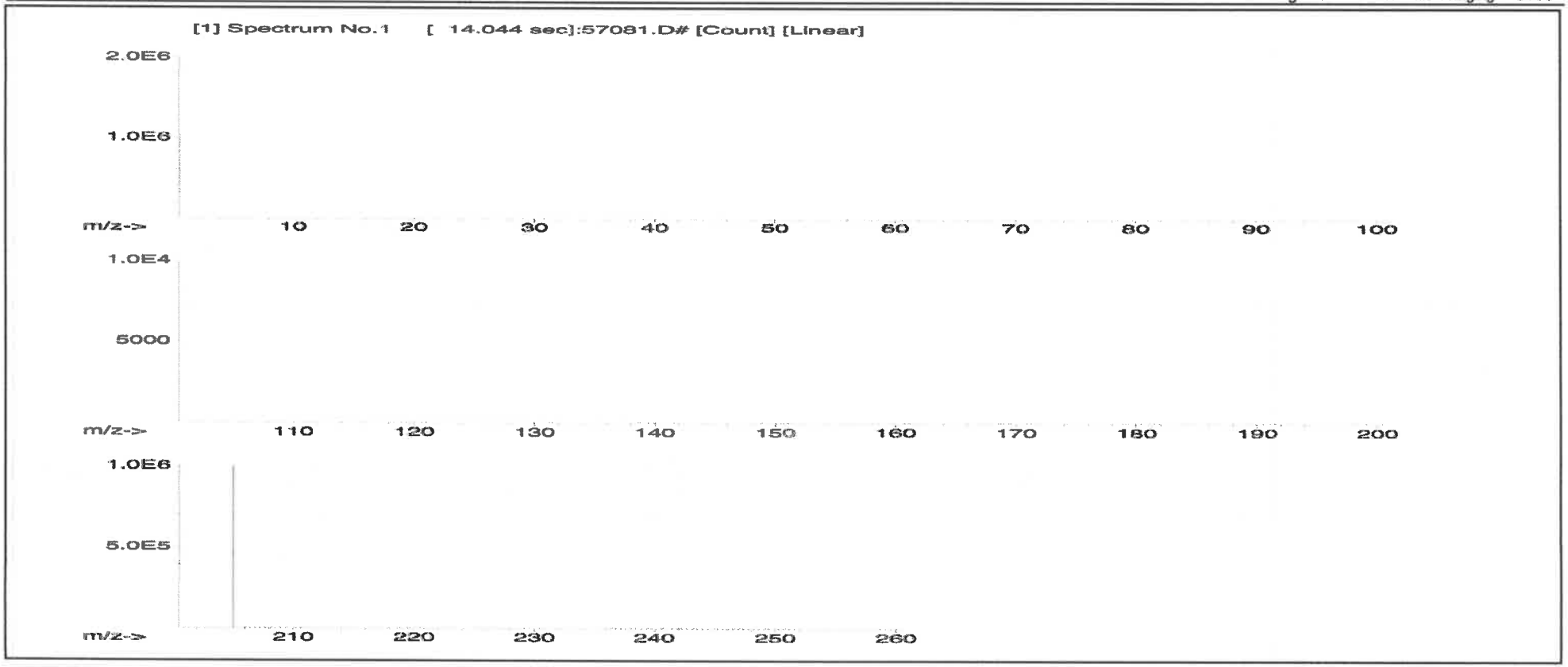
CERTIFIED WEIGHT REPORT:

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	

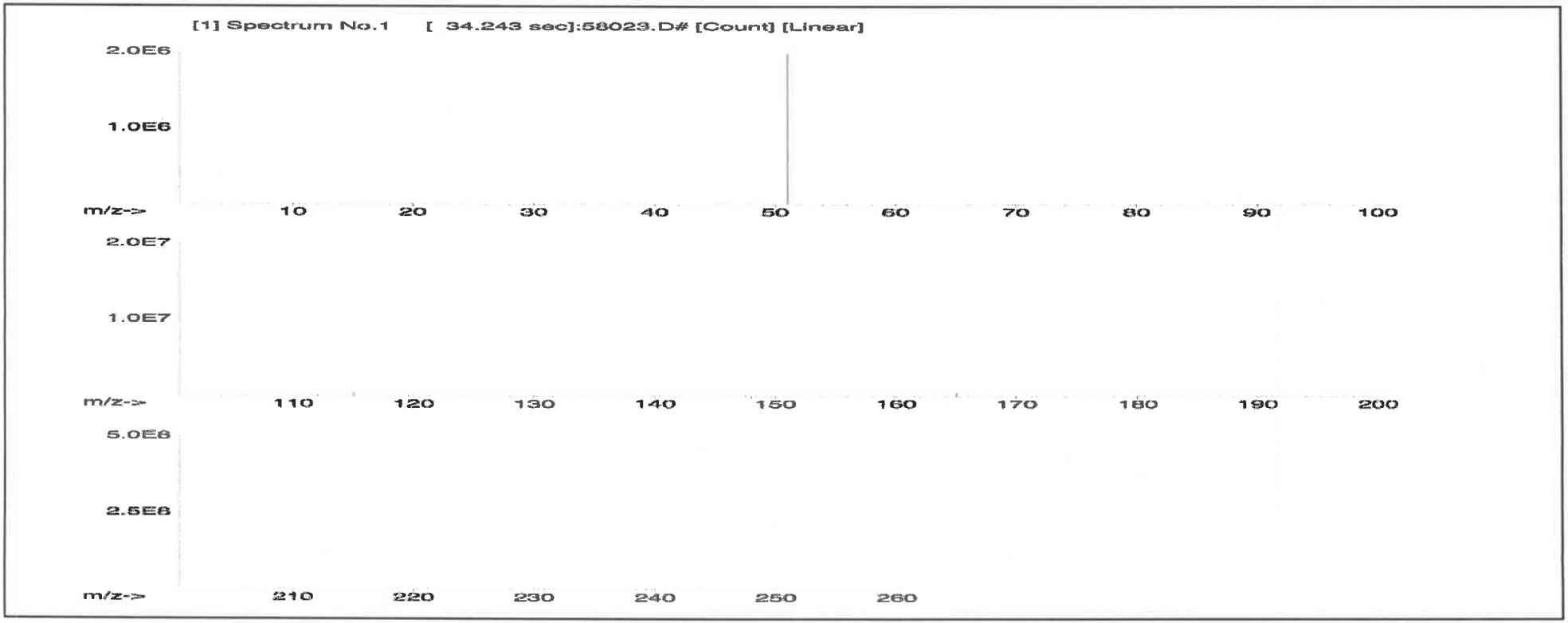
Aleah O'Brady

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.
* 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).



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO. 1 of 3
QUOTE NO.
COC Number 2044011 Q2520

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Safety Environmental
ADDRESS: 33 Clinton Avenue
CITY Staten-Island STATE: NY ZIP: 10301
ATTENTION: Dr Francis Cwoh
PHONE: 7183900914 FAX: 7183900915

CLIENT PROJECT INFORMATION

PROJECT NAME: Children School Montessori
PROJECT NO.: 25-6-140 LOCATION: 1000 Richmond Terrace Staten Island NY
PROJECT MANAGER: Dr Francis Cwoh
e-mail: Safetyenvironmental1@gmail.com
PHONE: 7183900914 FAX: 718 390-0915

CLIENT BILLING INFORMATION

BILL TO Safety Environmental PO#: 25-6-140
ADDRESS: 33 Clinton Ave
CITY Staten-Island STATE: NY ZIP: 10301
ATTENTION: Dr Francis Cwoh PHONE: 7183900914

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

Lead in Water 1 | Lead in Water 2 | Lead in Water 3 | 4 | 5 | 6 | 7 | 8 | 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. A-1	1st Run in water 1st Class Room			✓	6/26/25	9-11 AM	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2. A-2	2nd Run in water Class Room 1			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3. A-3	1st Run in water Class Room 2			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4. A-4	2nd Run in water Class Room 2			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5. A-5	1st Run in water Class Room 3			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6. A-6	2nd Run in water Class Room 3			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7. A-7	1st Run in water Kitchen			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8. A-8	2nd Run in water Kitchen			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9. A-9	1st Run in water Nicole classRM			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10. A-10	2nd Run in water Nicole classRM			✓			1	✓	✓	✓	✓	✓	✓	✓	✓	✓	

← 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. Francis	6/26/25 9-11 AM	1. 9/8/25 11:50
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.3°C °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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CHEMTECH
CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO. 2 of 3
QUOTE NO.
COC Number 2044012 24520

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Safety Environmental co NY INC
ADDRESS: 33 Clinton Avenue
CITY Staten-Island STATE: NY ZIP: 10301
ATTENTION: Dr Francis Owoh
PHONE: 718390-0914 FAX: 718390-0914

CLIENT PROJECT INFORMATION

PROJECT NAME: Harbor montessori children snug
PROJECT NO.: 25-6-142 LOCATION: 1009 Richmond Terrace, Staten Island
PROJECT MANAGER: Dr Francis Owoh
e-mail: Safetyenvironmentalinc@gmail.com
PHONE: 7183900914 FAX: 7183900915

CLIENT BILLING INFORMATION

BILL TO: Safety Environmental NY INC. PO#: 25-6-142
ADDRESS: 33 Clinton Avenue
CITY Staten-Island STATE: NY ZIP: 10301
ATTENTION: Dr Franar Owoh PHONE: 7183900914

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 Lead in Water	2 Lead in Water	3 Lead in Water	4 Lead in Water	5 Lead in Water	6 Lead in Water	7 Lead in Water	8 Lead in Water	9 Lead in Water	COMMENTS
1.	A-11	Water		✓	6/26/25	9-11 AM	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.	A-12	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3.	A-13	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4.	A-14	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5.	A-15	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6.	A-16	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7.	A-17	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8.	A-18	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9.	A-19	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10.	A-20	Water					1	✓	✓	✓	✓	✓	✓	✓	✓	✓	

← 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.	6-26-25 9-11 AM	1. 7/8/25 11:00
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.3°C °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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3 of 3

Q2520

DRINKING WATER SAMPLES ONLY

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: Safety Environmental Co of NY Inc

ADDRESS: 33 Clinton Avenue

CITY/STATE/ZIP: Staten Island, NY 10301

PHONE #: 718 390-0914 FAX: 718 390-0915

CONTACT: Dr Frances Iwu PROJECT:

EMAIL: Safety Environmental Co of NY Inc

* Expedited turnaround subject to additional charge

BILLING ADDRESS: Safety Environmental Co

BILLING CITY/STATE/ZIP: 33 Clinton Ave, S.I. NY 10301

PURCHASE ORDER: 25-6-110

CHEMTECH-FORD LABORATORIES

TURNAROUND TIME REQUIRED: 10 days / 10 days TAT

* Expedited turnaround subject to additional charge

State System Number	Send to State
	Yes ☐ No

TAT = 10 days

TESTS REQUESTED

Bacteria
R = Routine
I = Investigative
TR = Trigger Source
RP = Repeat

REPEAT
OR = Original Location
UP = Upstream
DN = Downstream

Lab Use Only	CLIENT SAMPLE INFORMATION						Coliform in Water	E. coli in Water	Enterococci in Water	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	LAB FAIL Ref #
	LOCATION	DATE	TIME	FACILITY ID (source code)	POINT CODE (DBP)	Field: Residual Chlorine							
A-21	1. Lobby 12 Bathroom Sink 4		9am-11am				✓						
A-22	2. 12th Floor Bathroom Sink 4		9am-11am				✓						
A-23	3. 4th Floor Bathroom Sinks		9am-11am				✓						
A-24	4. Lobby Bathroom Sinks 5		9am-11am				✓						
	5.												
	6.												
	7.												
	8.												
	9.												
	10.												

Sampled by: [print] Sampled by: [signature]

ON ICE NOT ON ICE Temp (C°): 5.3°C

Special Instructions:

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
			7/8/25 1100
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

CHEMTECH-FORD
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Client agrees to pay collection costs and attorney's fees.

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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