



facility 755652
facility 755653
project 10243

Metals

Case Narrative

COGCC

PW NORM 2017 -- 10048

Work Order Number: 1706286

1. This report consists of 4 water samples.
2. The samples were received intact at varying temperatures by ALS on 06/12/17.
3. The samples for dissolved metals had been filtered prior to receipt. All samples had a pH less than 2 upon receipt.
4. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by Trace ICP, samples 1706286-2 and -4 were digested following method 3005A and the current revision of SOP 806.

For analysis by Trace ICP and ICP-MS, samples 1706286-1 and -3 were digested following method 3010A and the current revision of SOP 806.

5. Analysis by Trace ICP followed method 6010B and the current revision of SOP 834.

Analysis by ICP-MS followed method 6020A and the current revision of SOP 827.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

- A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.



- The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes.
- All laboratory control sample criteria were met.
- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples and high standard read-backs associated with Method 6010B were within acceptance criteria.
- The interference check samples associated with Method 6020A were analyzed.

9. Matrix specific quality control procedures.

Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. All four samples were analyzed at a dilution in order to protect the Trace ICP from the high metal content of the samples. These samples required a further dilution to bring sodium into the analytical range of the Trace ICP.

It is a standard practice that samples for ICP-MS are analyzed at a dilution. Samples -1 and -3 required a further dilution to bring several analytes into the analytical range of the ICP-MS.

11. Sodium Adsorption Ration (SAR) was determined by calculation based on a reference from the client. Calcium, magnesium, and sodium concentrations were determined by ICP, Method SW6010.

$$SAR = Na / (((Ca+Mg)/2)^{1/2})$$

The analyte results are the me/L concentrations based on conversions from their mg/L concentrations. Please note that the SAR value is unitless.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Lyons
Emily Lyons
Inorganics Primary Data Reviewer

8/7/17
Date

[Signature]
Inorganics Final Data Reviewer

8/8/2017
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses:

- Result qualifier -- A “J” is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a “U” is entered. For samples, negative values are reported as non-detects (“U” flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is “J” flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Chain of Custody

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1706286

Client Name: COGCC

Client Project Name: PW NORM 2017

Client Project Number: 10048

Client PO Number: CT 2017-3066

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
755652 Coalview	1706286-1		WATER	13-Jun-17	10:16
755652 Coalview	1706286-2		WATER	13-Jun-17	10:16
755653 Oscar Y	1706286-3		WATER	13-Jun-17	11:36
755653 Oscar Y	1706286-4		WATER	13-Jun-17	11:36



Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALSWORKORDER #

982907

[illegible]



2225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.

ALS WORKORDER #

7829071

[illegible]



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC

Workorder No: 1706286

Project Manager: SS

Initials: JNS

Date: 6/13/17

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	<u>NONE</u>	YES	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<u>YES</u>	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u> </u> < green pea <u> </u> > green pea	N/A	<u>YES</u>	NO
15. Do any water samples contain sediment? Amount Amount of sediment: <u> </u> dusting <u>X</u> moderate <u> </u> heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <u>#4</u>	RAD ONLY	<u>YES</u>	NO
Cooler #:	<u>1</u> <u>2</u> <u>3</u> <u>4</u>		
Temperature (°C):	<u>amb</u> <u>amb</u> <u>4</u> <u>3.6</u>		
No. of custody seals on cooler:	<u>0</u> <u>0</u> <u>0</u> <u>0</u>		
External µR/hr reading:	<u>1.2</u>		
Background µR/hr reading:	<u>1.0</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO NA Contact: Philab Date/Time:

Project Manager Signature / Date: Philab

Sample Results

Total ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755652 Coalview

Lab ID: 1706286-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 14-Jun-17

Date Analyzed: 20-Jun-17

Prep Method: SW3010 Rev A

Prep Batch: IP170614-3

QCBatchID: IP170614-3-1

Run ID: IT170620-2A8

Cleanup: NONE

Basis: As Received

File Name: 170620A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7440-41-7	BERYLLIUM	10	0.015	U	0.05	0.015
7440-42-8	BORON	10	15		1	0.3
7440-70-2	CALCIUM	10	260		10	3
7440-47-3	CHROMIUM	10	0.03	U	0.1	0.03
7439-89-6	IRON	10	47		1	0.3
7439-93-2	LITHIUM	10	5.8		0.1	0.03
7439-95-4	MAGNESIUM	10	30		10	3
7440-02-0	NICKEL	10	0.06	U	0.2	0.06
7723-14-0	PHOSPHORUS	10	0.6	U	2	0.6
7440-09-7	POTASSIUM	10	43		10	3
7440-21-3	SILICON	10	23		0.5	0.15
7440-23-5	SODIUM	500	4700		500	150
7704-34-9	SULFUR	10	3.1		2	0.6
7440-62-2	VANADIUM	10	0.03	U	0.1	0.03

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

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LIMS Version: 6.843

Page 1 of 4

Dissolved ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755652 Coalview

Lab ID: 1706286-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 17-Jul-17

Date Analyzed: 17-Jul-17

Prep Method: SW3005 Rev A

Prep Batch: IP170717-1

QCBatchID: IP170717-1-1

Run ID: IT170717-1A2

Cleanup: NONE

Basis: As Received

File Name: 170717A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7440-39-3	BARIUM	10	16		1	0.3
	SODIUM ADSORPTION RATIO	500	74		27	15
7440-70-2	CALCIUM	10	240		10	3
7439-89-6	IRON	10	45		1	0.3
7440-09-7	POTASSIUM	10	40		10	3
7439-95-4	MAGNESIUM	10	29		10	3
7440-23-5	SODIUM	500	4600		500	150
7440-21-3	SILICON	10	21		0.5	0.15
7440-24-6	STRONTIUM	10	39		0.1	0.03

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

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LIMS Version: 6.843

Page 2 of 4

Total ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755653 Oscar Y

Lab ID: 1706286-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 14-Jun-17

Date Analyzed: 20-Jun-17

Prep Method: SW3010 Rev A

Prep Batch: IP170614-3

QC Batch ID: IP170614-3-1

Run ID: IT170620-2A8

Cleanup: NONE

Basis: As Received

File Name: 170620A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7440-41-7	BERYLLIUM	10	0.015	U	0.05	0.015
7440-42-8	BORON	10	25		1	0.3
7440-70-2	CALCIUM	10	320		10	3
7440-47-3	CHROMIUM	10	0.03	U	0.1	0.03
7439-89-6	IRON	10	140		1	0.3
7439-93-2	LITHIUM	10	8.1		0.1	0.03
7439-95-4	MAGNESIUM	10	39		10	3
7440-02-0	NICKEL	10	0.22		0.2	0.06
7723-14-0	PHOSPHORUS	10	230		2	0.6
7440-09-7	POTASSIUM	10	91		10	3
7440-21-3	SILICON	10	37		0.5	0.15
7440-23-5	SODIUM	500	7100		500	150
7704-34-9	SULFUR	10	190		2	0.6
7440-62-2	VANADIUM	10	0.03	U	0.1	0.03

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 3 of 4

Dissolved ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755653 Oscar Y

Lab ID: 1706286-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 17-Jul-17

Date Analyzed: 17-Jul-17

Prep Method: SW3005 Rev A

Prep Batch: IP170717-1

QC Batch ID: IP170717-1-1

Run ID: IT170717-1A2

Cleanup: NONE

Basis: As Received

File Name: 170717A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7440-39-3	BARIUM	10	1.2		1	0.3
	SODIUM ADSORPTION RATIO	500	97		27	15
7440-70-2	CALCIUM	10	300		10	3
7439-89-6	IRON	10	120		1	0.3
7440-09-7	POTASSIUM	10	84		10	3
7439-95-4	MAGNESIUM	10	37		10	3
7440-23-5	SODIUM	500	6700		500	150
7440-21-3	SILICON	10	34		0.5	0.15
7440-24-6	STRONTIUM	10	43		0.1	0.03

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 4 of 4

Total ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755652 Coalview

Lab ID: 1706286-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 14-Jun-17

Date Analyzed: 15-Jun-17

Prep Method: SW3010 Rev A

Prep Batch: IP170614-3

QC Batch ID: IP170614-3-2

Run ID: IM170615-10A11

Cleanup: NONE

Basis: As Received

File Name: 030SMPL_

Analyst: Hannah M. Alt

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	0.05	U	0.1	0.05
7440-38-2	ARSENIC	10	0.0015	J	0.002	0.00091
7440-39-3	BARIUM	100	18		0.05	0.036
7440-43-9	CADMIUM	10	0.00095	U	0.002	0.00095
7440-48-4	COBALT	10	0.0022	U	0.005	0.0022
7440-50-8	COPPER	10	0.012	U	0.02	0.012
7439-92-1	LEAD	10	0.0014	U	0.002	0.0014
7439-96-5	MANGANESE	100	0.64		0.05	0.023
7439-98-7	MOLYBDENUM	10	0.0024		0.002	0.00098
7782-49-2	SELENIUM	10	0.0049	U	0.01	0.0049
7440-22-4	SILVER	10	0.00022	U	0.0005	0.00022
7440-23-5	SODIUM	100	5100		10	4.6
7440-24-6	STRONTIUM	100	43		0.05	0.03
7440-28-0	THALLIUM	100	0.00062	U	0.001	0.00062
7440-29-1	THORIUM	10	0.000091	U	0.0002	0.000091
7440-61-1	URANIUM	10	0.000075	U	0.0001	0.000075
7440-66-6	ZINC	10	0.048	U	0.1	0.048

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 2

Total ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Field ID: 755653 Oscar Y

Lab ID: 1706286-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 13-Jun-17

Date Extracted: 14-Jun-17

Date Analyzed: 15-Jun-17

Prep Method: SW3010 Rev A

Prep Batch: IP170614-3

QC Batch ID: IP170614-3-2

Run ID: IM170615-10A11

Cleanup: NONE

Basis: As Received

File Name: 031SMPL_

Analyst: Hannah M. Alt

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	0.07	J	0.1	0.05
7440-38-2	ARSENIC	10	0.11		0.002	0.00091
7440-39-3	BARIUM	100	4.5		0.05	0.036
7440-43-9	CADMIUM	10	0.00095	U	0.002	0.00095
7440-48-4	COBALT	10	0.025		0.005	0.0022
7440-50-8	COPPER	10	2.2		0.02	0.012
7439-92-1	LEAD	10	0.0014	U	0.002	0.0014
7439-96-5	MANGANESE	100	2.6		0.05	0.023
7439-98-7	MOLYBDENUM	10	0.012		0.002	0.00098
7782-49-2	SELENIUM	10	0.0049	U	0.01	0.0049
7440-22-4	SILVER	10	0.00022	U	0.0005	0.00022
7440-23-5	SODIUM	100	7500		10	4.6
7440-24-6	STRONTIUM	100	49		0.05	0.03
7440-28-0	THALLIUM	100	0.00062	U	0.001	0.00062
7440-29-1	THORIUM	10	0.000091	U	0.0002	0.000091
7440-61-1	URANIUM	10	0.0031		0.0001	0.000075
7440-66-6	ZINC	10	0.58		0.1	0.048

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 2

Summary Report Forms

ICP Metals

Method SW6010B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IP170614-3MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 14-Jun-17

Date Analyzed: 20-Jun-17

Prep Batch: IP170614-3

QCBatchID: IP170614-3-1

Run ID: IT170620-2A8

Cleanup: NONE

Basis: N/A

File Name: 170620A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7440-41-7	BERYLLIUM	1	0.0015	U	0.005	0.0015
7440-42-8	BORON	1	0.03	U	0.1	0.03
7440-70-2	CALCIUM	1	0.3	U	1	0.3
7440-47-3	CHROMIUM	1	0.003	U	0.01	0.003
7439-89-6	IRON	1	0.062	J	0.1	0.03
7439-93-2	LITHIUM	1	0.0032	J	0.01	0.003
7439-95-4	MAGNESIUM	1	0.3	U	1	0.3
7440-02-0	NICKEL	1	0.006	U	0.02	0.006
7723-14-0	PHOSPHORUS	1	0.07	J	0.2	0.06
7440-09-7	POTASSIUM	1	0.3	U	1	0.3
7440-21-3	SILICON	1	0.019	J	0.05	0.015
7440-23-5	SODIUM	1	0.3	U	1	0.3
7704-34-9	SULFUR	1	0.06	U	0.2	0.06
7440-62-2	VANADIUM	1	0.003	U	0.01	0.003
	SODIUM ADSORPTION RATIO	1	0.17	S	0.17	0.093

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 2

ICP Metals

Method SW6010B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IP170717-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 17-Jul-17

Date Analyzed: 17-Jul-17

Prep Batch: IP170717-1

QCBatchID: IP170717-1-1

Run ID: IT170717-1A2

Cleanup: NONE

Basis: N/A

File Name: 170717A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7440-39-3	BARIUM	1	0.03	U	0.1	0.03
	SODIUM ADSORPTION RATIO	1	0.17	S	0.17	0.093
7440-70-2	CALCIUM	1	0.3	U	1	0.3
7439-89-6	IRON	1	0.03	U	0.1	0.03
7440-09-7	POTASSIUM	1	0.3	U	1	0.3
7439-95-4	MAGNESIUM	1	0.3	U	1	0.3
7440-23-5	SODIUM	1	0.3	U	1	0.3
7440-21-3	SILICON	1	0.015	U	0.05	0.015
7440-24-6	STRONTIUM	1	0.003	U	0.01	0.003

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 2

ICP Metals

Method SW6010B

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IP170614-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 06/14/2017

Date Analyzed: 06/20/2017

Prep Method: SW3010A

Prep Batch: IP170614-3

QCBatchID: IP170614-3-1

Run ID: IT170620-2A8

Cleanup: NONE

Basis: N/A

File Name: 170620A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-41-7	BERYLLIUM	0.05	0.0504	0.005		101	80 - 120%
7440-42-8	BORON	0.1	0.1	0.1		100	80 - 120%
7440-70-2	CALCIUM	40	38.8	1		97	80 - 120%
7440-47-3	CHROMIUM	0.2	0.204	0.01		102	80 - 120%
7439-89-6	IRON	1	1.09	0.1		109	80 - 120%
7439-93-2	LITHIUM	0.5	0.49	0.01		98	80 - 120%
7439-95-4	MAGNESIUM	40	39.4	1		99	80 - 120%
7440-02-0	NICKEL	0.5	0.499	0.02		100	80 - 120%
7723-14-0	PHOSPHORUS	10	9.98	0.2		100	80 - 120%
7440-09-7	POTASSIUM	40	38.2	1		96	80 - 120%
7440-21-3	SILICON	1	1.04	0.05		104	80 - 120%
7440-23-5	SODIUM	40	38.7	1		97	80 - 120%
7704-34-9	SULFUR	10	10.3	0.2		103	80 - 120%
7440-62-2	VANADIUM	0.5	0.516	0.01		103	80 - 120%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 2

ICP Metals

Method SW6010

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IP170717-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 07/17/2017

Date Analyzed: 07/17/2017

Prep Method: SW3005A

Prep Batch: IP170717-1

QCBatchID: IP170717-1-1

Run ID: IT170717-1A2

Cleanup: NONE

Basis: N/A

File Name: 170717A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-39-3	BARIUM	1	0.995	0.1		99	80 - 120%
7440-70-2	CALCIUM	40	39.1	1		98	80 - 120%
7439-89-6	IRON	1	1.04	0.1		104	80 - 120%
7440-09-7	POTASSIUM	40	37.3	1		93	80 - 120%
7439-95-4	MAGNESIUM	40	40.2	1		100	80 - 120%
7440-23-5	SODIUM	40	40	1		100	80 - 120%
7440-21-3	SILICON	1	1.05	0.05		105	80 - 120%
7440-24-6	STRONTIUM	0.5	0.482	0.01		96	80 - 120%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 2

Prep Batch ID: IP170614-3

Start Date: 06/14/17

End Date: 06/14/17

Concentration Method: NONE

Batch Created By: jml

Start Time: 12:51

End Time: 18:00

Extract Method: SW3010A

Date Created: 06/14/17

Prep Analyst: Jill M. Latelle

Initial Volume Units: ml

Time Created: 12:52

Comments:

Final Volume Units: ml

Validated By: jml

Date Validated: 06/14/17

Time Validated: 14:29

QC Batch ID: IP170614-3-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP170614-3	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
IP170614-3	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1706185-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706185
1706185-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706185
1706271-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706271
1706271-2	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706271
1706286-1	SMP	755652 Coalview	WATER	6/13/2017	50	50	NONE	1	1706286
1706286-3	SMP	755653 Oscar Y	WATER	6/13/2017	50	50	NONE	1	1706286

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

Prep Batch ID: IP170717-1

Start Date: 07/17/17

End Date: 07/17/17

Concentration Method: NONE

Batch Created By: jml

Start Time: 9:11

End Time: 18:00

Extract Method: SW3005A

Date Created: 07/17/17

Prep Analyst: Jill M. Latelle

Initial Volume Units: ml

Time Created: 9:49

Comments:

Final Volume Units: ml

Validated By: jml

Date Validated: 07/17/17

Time Validated: 11:32

QC Batch ID: IP170717-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP170717-1	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354
IP170717-1	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354
1706354-3	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354
1706354-3	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354
1706354-3	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354
1706286-2	SMP	755652 Coalview	WATER	6/13/2017	50	50	NONE	1	1706286
1706286-4	SMP	755653 Oscar Y	WATER	6/13/2017	50	50	NONE	1	1706286
1706299-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706299
1706299-4	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706299
1706329-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706329
1706329-4	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706329
1706354-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706354

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICV

QC Type: Initial Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 9:58

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.25	0.254	0.005		102	90 - 110%
7440-42-8	BORON	0.5	0.505	0.1		101	90 - 110%
7440-70-2	CALCIUM	25	25.6	1		103	90 - 110%
7440-47-3	CHROMIUM	0.5	0.507	0.01		101	90 - 110%
7439-89-6	IRON	10	10.0	0.1		100	90 - 110%
7439-93-2	LITHIUM	0.25	0.245	0.01		98	90 - 110%
7439-95-4	MAGNESIUM	25	25.9	1		103	90 - 110%
7440-02-0	NICKEL	0.5	0.517	0.02		103	90 - 110%
7723-14-0	PHOSPHORUS	2.5	2.44	0.2		98	90 - 110%
7440-09-7	POTASSIUM	25	25.6	1		103	90 - 110%
7440-21-3	SILICON	2.5	2.48	0.05		99	90 - 110%
7440-23-5	SODIUM	25	25.7	1		103	90 - 110%
7704-34-9	SULFUR	2.5	2.56	0.2		102	90 - 110%
7440-62-2	VANADIUM	0.25	0.252	0.01		101	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:05

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.490	0.005		98	90 - 110%
7440-42-8	BORON	1	0.999	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.9	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.979	0.01		98	90 - 110%
7439-89-6	IRON	20	19.7	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.525	0.01		105	90 - 110%
7439-95-4	MAGNESIUM	50	50.7	1		101	90 - 110%
7440-02-0	NICKEL	1	0.997	0.02		100	90 - 110%
7723-14-0	PHOSPHORUS	5	4.95	0.2		99	90 - 110%
7440-09-7	POTASSIUM	50	53.4	1		107	90 - 110%
7440-21-3	SILICON	5	4.82	0.05		96	90 - 110%
7440-23-5	SODIUM	50	52.8	1		106	90 - 110%
7704-34-9	SULFUR	5	5.01	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.489	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:34

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.491	0.005		98	90 - 110%
7440-42-8	BORON	1	1.00	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.8	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.980	0.01		98	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.511	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	50.8	1		102	90 - 110%
7440-02-0	NICKEL	1	0.994	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	4.68	0.2		94	90 - 110%
7440-09-7	POTASSIUM	50	52.5	1		105	90 - 110%
7440-21-3	SILICON	5	4.85	0.05		97	90 - 110%
7440-23-5	SODIUM	50	52.2	1		104	90 - 110%
7704-34-9	SULFUR	5	4.98	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.491	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 3 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV3

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:56

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.490	0.005		98	90 - 110%
7440-42-8	BORON	1	0.998	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.5	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.973	0.01		97	90 - 110%
7439-89-6	IRON	20	19.4	0.1		97	90 - 110%
7439-93-2	LITHIUM	0.5	0.508	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	50.6	1		101	90 - 110%
7440-02-0	NICKEL	1	0.991	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	4.73	0.2		95	90 - 110%
7440-09-7	POTASSIUM	50	52.1	1		104	90 - 110%
7440-21-3	SILICON	5	4.83	0.05		97	90 - 110%
7440-23-5	SODIUM	50	51.6	1		103	90 - 110%
7704-34-9	SULFUR	5	4.99	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.487	0.01		97	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 4 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV4

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:09

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.493	0.005		99	90 - 110%
7440-42-8	BORON	1	1.00	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.7	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.981	0.01		98	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.513	0.01		103	90 - 110%
7439-95-4	MAGNESIUM	50	51.0	1		102	90 - 110%
7440-02-0	NICKEL	1	0.987	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	4.79	0.2		96	90 - 110%
7440-09-7	POTASSIUM	50	52.5	1		105	90 - 110%
7440-21-3	SILICON	5	4.89	0.05		98	90 - 110%
7440-23-5	SODIUM	50	51.2	1		102	90 - 110%
7704-34-9	SULFUR	5	5.05	0.2		101	90 - 110%
7440-62-2	VANADIUM	0.5	0.490	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 5 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV5

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:33

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.498	0.005		100	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	50.3	1		101	90 - 110%
7440-47-3	CHROMIUM	1	0.992	0.01		99	90 - 110%
7439-89-6	IRON	20	19.7	0.1		99	90 - 110%
7439-93-2	LITHIUM	0.5	0.518	0.01		104	90 - 110%
7439-95-4	MAGNESIUM	50	51.5	1		103	90 - 110%
7440-02-0	NICKEL	1	0.993	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	5.05	0.2		101	90 - 110%
7440-09-7	POTASSIUM	50	53.0	1		106	90 - 110%
7440-21-3	SILICON	5	4.93	0.05		99	90 - 110%
7440-23-5	SODIUM	50	52.6	1		105	90 - 110%
7704-34-9	SULFUR	5	5.13	0.2		103	90 - 110%
7440-62-2	VANADIUM	0.5	0.496	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 6 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV6

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:46

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.500	0.005		100	90 - 110%
7440-42-8	BORON	1	1.00	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	50.6	1		101	90 - 110%
7440-47-3	CHROMIUM	1	0.994	0.01		99	90 - 110%
7439-89-6	IRON	20	19.8	0.1		99	90 - 110%
7439-93-2	LITHIUM	0.5	0.512	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	51.6	1		103	90 - 110%
7440-02-0	NICKEL	1	0.994	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	5.00	0.2		100	90 - 110%
7440-09-7	POTASSIUM	50	52.4	1		105	90 - 110%
7440-21-3	SILICON	5	4.92	0.05		98	90 - 110%
7440-23-5	SODIUM	50	52.0	1		104	90 - 110%
7704-34-9	SULFUR	5	5.09	0.2		102	90 - 110%
7440-62-2	VANADIUM	0.5	0.497	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 7 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV7

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 12:24

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.488	0.005		98	90 - 110%
7440-42-8	BORON	1	0.997	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.2	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.971	0.01		97	90 - 110%
7439-89-6	IRON	20	19.3	0.1		96	90 - 110%
7439-93-2	LITHIUM	0.5	0.507	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	50.5	1		101	90 - 110%
7440-02-0	NICKEL	1	0.979	0.02		98	90 - 110%
7723-14-0	PHOSPHORUS	5	4.89	0.2		98	90 - 110%
7440-09-7	POTASSIUM	50	51.9	1		104	90 - 110%
7440-21-3	SILICON	5	4.84	0.05		97	90 - 110%
7440-23-5	SODIUM	50	51.7	1		103	90 - 110%
7704-34-9	SULFUR	5	5.06	0.2		101	90 - 110%
7440-62-2	VANADIUM	0.5	0.487	0.01		97	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 8 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV8

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 12:46

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.499	0.005		100	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	50.2	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.992	0.01		99	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.511	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	51.6	1		103	90 - 110%
7440-02-0	NICKEL	1	0.982	0.02		98	90 - 110%
7723-14-0	PHOSPHORUS	5	4.73	0.2		95	90 - 110%
7440-09-7	POTASSIUM	50	52.2	1		104	90 - 110%
7440-21-3	SILICON	5	4.94	0.05		99	90 - 110%
7440-23-5	SODIUM	50	49.8	1		100	90 - 110%
7704-34-9	SULFUR	5	5.19	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.496	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 9 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV9

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 13:19

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.499	0.005		100	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	50.1	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.988	0.01		99	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.513	0.01		103	90 - 110%
7439-95-4	MAGNESIUM	50	51.5	1		103	90 - 110%
7440-02-0	NICKEL	1	0.976	0.02		98	90 - 110%
7723-14-0	PHOSPHORUS	5	4.89	0.2		98	90 - 110%
7440-09-7	POTASSIUM	50	52.1	1		104	90 - 110%
7440-21-3	SILICON	5	4.94	0.05		99	90 - 110%
7440-23-5	SODIUM	50	51.6	1		103	90 - 110%
7704-34-9	SULFUR	5	5.20	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.495	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 10 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV10

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 13:31

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.499	0.005		100	90 - 110%
7440-42-8	BORON	1	0.999	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	49.8	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.987	0.01		99	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.512	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	51.6	1		103	90 - 110%
7440-02-0	NICKEL	1	0.960	0.02		96	90 - 110%
7723-14-0	PHOSPHORUS	5	5.00	0.2		100	90 - 110%
7440-09-7	POTASSIUM	50	51.9	1		104	90 - 110%
7440-21-3	SILICON	5	4.98	0.05		100	90 - 110%
7440-23-5	SODIUM	50	51.7	1		103	90 - 110%
7704-34-9	SULFUR	5	5.28	0.2		106	90 - 110%
7440-62-2	VANADIUM	0.5	0.496	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 11 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV11

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 13:41

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.498	0.005		100	90 - 110%
7440-42-8	BORON	1	0.997	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	50.2	1		100	90 - 110%
7440-47-3	CHROMIUM	1	0.989	0.01		99	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.509	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	51.6	1		103	90 - 110%
7440-02-0	NICKEL	1	0.978	0.02		98	90 - 110%
7723-14-0	PHOSPHORUS	5	4.87	0.2		97	90 - 110%
7440-09-7	POTASSIUM	50	51.8	1		104	90 - 110%
7440-21-3	SILICON	5	4.92	0.05		98	90 - 110%
7440-23-5	SODIUM	50	51.9	1		104	90 - 110%
7704-34-9	SULFUR	5	5.21	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.495	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 12 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV12

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 16:37

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.486	0.005		97	90 - 110%
7440-42-8	BORON	1	0.975	0.1		97	90 - 110%
7440-70-2	CALCIUM	50	49.1	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.969	0.01		97	90 - 110%
7439-89-6	IRON	20	19.1	0.1		95	90 - 110%
7439-93-2	LITHIUM	0.5	0.503	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	50.7	1		101	90 - 110%
7440-02-0	NICKEL	1	0.950	0.02		95	90 - 110%
7723-14-0	PHOSPHORUS	5	4.92	0.2		98	90 - 110%
7440-09-7	POTASSIUM	50	50.7	1		101	90 - 110%
7440-21-3	SILICON	5	4.84	0.05		97	90 - 110%
7440-23-5	SODIUM	50	51.6	1		103	90 - 110%
7704-34-9	SULFUR	5	5.18	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.486	0.01		97	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 13 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV13

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 16:52

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.490	0.005		98	90 - 110%
7440-42-8	BORON	1	0.979	0.1		98	90 - 110%
7440-70-2	CALCIUM	50	49.6	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.976	0.01		98	90 - 110%
7439-89-6	IRON	20	19.0	0.1		95	90 - 110%
7439-93-2	LITHIUM	0.5	0.501	0.01		100	90 - 110%
7439-95-4	MAGNESIUM	50	51.0	1		102	90 - 110%
7440-02-0	NICKEL	1	0.966	0.02		97	90 - 110%
7723-14-0	PHOSPHORUS	5	4.92	0.2		98	90 - 110%
7440-09-7	POTASSIUM	50	50.7	1		101	90 - 110%
7440-21-3	SILICON	5	4.84	0.05		97	90 - 110%
7440-23-5	SODIUM	50	51.0	1		102	90 - 110%
7704-34-9	SULFUR	5	5.18	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.490	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 14 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV14

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 17:06

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.487	0.005		97	90 - 110%
7440-42-8	BORON	1	0.979	0.1		98	90 - 110%
7440-70-2	CALCIUM	50	49.5	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.974	0.01		97	90 - 110%
7439-89-6	IRON	20	19.2	0.1		96	90 - 110%
7439-93-2	LITHIUM	0.5	0.503	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	50.9	1		102	90 - 110%
7440-02-0	NICKEL	1	0.965	0.02		97	90 - 110%
7723-14-0	PHOSPHORUS	5	4.81	0.2		96	90 - 110%
7440-09-7	POTASSIUM	50	50.8	1		102	90 - 110%
7440-21-3	SILICON	5	4.82	0.05		96	90 - 110%
7440-23-5	SODIUM	50	51.4	1		103	90 - 110%
7704-34-9	SULFUR	5	5.16	0.2		103	90 - 110%
7440-62-2	VANADIUM	0.5	0.489	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 15 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV15

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 17:20

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.496	0.005		99	90 - 110%
7440-42-8	BORON	1	0.994	0.1		99	90 - 110%
7440-70-2	CALCIUM	50	50.6	1		101	90 - 110%
7440-47-3	CHROMIUM	1	0.993	0.01		99	90 - 110%
7439-89-6	IRON	20	19.5	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.509	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	51.9	1		104	90 - 110%
7440-02-0	NICKEL	1	0.982	0.02		98	90 - 110%
7723-14-0	PHOSPHORUS	5	4.87	0.2		97	90 - 110%
7440-09-7	POTASSIUM	50	51.4	1		103	90 - 110%
7440-21-3	SILICON	5	4.89	0.05		98	90 - 110%
7440-23-5	SODIUM	50	52.7	1		105	90 - 110%
7704-34-9	SULFUR	5	5.20	0.2		104	90 - 110%
7440-62-2	VANADIUM	0.5	0.497	0.01		99	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 16 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV16

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 17:41

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.485	0.005		97	90 - 110%
7440-42-8	BORON	1	0.978	0.1		98	90 - 110%
7440-70-2	CALCIUM	50	49.0	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.969	0.01		97	90 - 110%
7439-89-6	IRON	20	19.0	0.1		95	90 - 110%
7439-93-2	LITHIUM	0.5	0.503	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	50.9	1		102	90 - 110%
7440-02-0	NICKEL	1	0.958	0.02		96	90 - 110%
7723-14-0	PHOSPHORUS	5	4.74	0.2		95	90 - 110%
7440-09-7	POTASSIUM	50	50.8	1		102	90 - 110%
7440-21-3	SILICON	5	4.83	0.05		97	90 - 110%
7440-23-5	SODIUM	50	51.8	1		104	90 - 110%
7704-34-9	SULFUR	5	5.09	0.2		102	90 - 110%
7440-62-2	VANADIUM	0.5	0.488	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 17 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV17

QC Type: Continuing Calibration

File Name: 170620A.

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 17:49

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.486	0.005		97	90 - 110%
7440-42-8	BORON	1	0.970	0.1		97	90 - 110%
7440-70-2	CALCIUM	50	49.3	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.973	0.01		97	90 - 110%
7439-89-6	IRON	20	19.1	0.1		96	90 - 110%
7439-93-2	LITHIUM	0.5	0.501	0.01		100	90 - 110%
7439-95-4	MAGNESIUM	50	51.0	1		102	90 - 110%
7440-02-0	NICKEL	1	0.963	0.02		96	90 - 110%
7723-14-0	PHOSPHORUS	5	4.80	0.2		96	90 - 110%
7440-09-7	POTASSIUM	50	50.7	1		101	90 - 110%
7440-21-3	SILICON	5	4.82	0.05		96	90 - 110%
7440-23-5	SODIUM	50	51.7	1		103	90 - 110%
7704-34-9	SULFUR	5	5.09	0.2		102	90 - 110%
7440-62-2	VANADIUM	0.5	0.488	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 18 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICV

QC Type: Initial Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 12:09

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	0.5	0.498	0.1		100	90 - 110%
7440-70-2	CALCIUM	25	25.6	1		102	90 - 110%
7439-89-6	IRON	10	9.82	0.1		98	90 - 110%
7439-95-4	MAGNESIUM	25	25.4	1		102	90 - 110%
7440-09-7	POTASSIUM	25	25.3	1		101	90 - 110%
7440-21-3	SILICON	2.5	2.41	0.05		97	90 - 110%
7440-23-5	SODIUM	25	26.2	1		105	90 - 110%
7440-24-6	STRONTIUM	0.25	0.251	0.01		101	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 19 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 12:17

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.963	0.1		96	90 - 110%
7440-70-2	CALCIUM	50	49.8	1		100	90 - 110%
7439-89-6	IRON	20	19.1	0.1		96	90 - 110%
7439-95-4	MAGNESIUM	50	49.5	1		99	90 - 110%
7440-09-7	POTASSIUM	50	52.1	1		104	90 - 110%
7440-21-3	SILICON	5	4.64	0.05		93	90 - 110%
7440-23-5	SODIUM	50	53.0	1		106	90 - 110%
7440-24-6	STRONTIUM	0.5	0.487	0.01		97	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 20 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 13:01

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.987	0.1		99	90 - 110%
7440-70-2	CALCIUM	50	50.3	1		101	90 - 110%
7439-89-6	IRON	20	19.3	0.1		96	90 - 110%
7439-95-4	MAGNESIUM	50	50.6	1		101	90 - 110%
7440-09-7	POTASSIUM	50	51.3	1		103	90 - 110%
7440-21-3	SILICON	5	4.79	0.05		96	90 - 110%
7440-23-5	SODIUM	50	52.7	1		105	90 - 110%
7440-24-6	STRONTIUM	0.5	0.492	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 21 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV3

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 13:14

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.985	0.1		99	90 - 110%
7440-70-2	CALCIUM	50	50.3	1		101	90 - 110%
7439-89-6	IRON	20	19.2	0.1		96	90 - 110%
7439-95-4	MAGNESIUM	50	50.6	1		101	90 - 110%
7440-09-7	POTASSIUM	50	51.5	1		103	90 - 110%
7440-21-3	SILICON	5	4.77	0.05		95	90 - 110%
7440-23-5	SODIUM	50	53.1	1		106	90 - 110%
7440-24-6	STRONTIUM	0.5	0.491	0.01		98	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 22 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV4

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 15:49

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.958	0.1		96	90 - 110%
7440-70-2	CALCIUM	50	48.7	1		97	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-95-4	MAGNESIUM	50	49.8	1		100	90 - 110%
7440-09-7	POTASSIUM	50	48.7	1		97	90 - 110%
7440-21-3	SILICON	5	4.71	0.05		94	90 - 110%
7440-23-5	SODIUM	50	51.3	1		103	90 - 110%
7440-24-6	STRONTIUM	0.5	0.470	0.01		94	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 23 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV5

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 16:04

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.960	0.1		96	90 - 110%
7440-70-2	CALCIUM	50	49.2	1		98	90 - 110%
7439-89-6	IRON	20	19.7	0.1		99	90 - 110%
7439-95-4	MAGNESIUM	50	50.2	1		100	90 - 110%
7440-09-7	POTASSIUM	50	49.3	1		99	90 - 110%
7440-21-3	SILICON	5	4.73	0.05		95	90 - 110%
7440-23-5	SODIUM	50	50.9	1		102	90 - 110%
7440-24-6	STRONTIUM	0.5	0.473	0.01		95	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 24 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV6

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 16:18

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.954	0.1		95	90 - 110%
7440-70-2	CALCIUM	50	49.1	1		98	90 - 110%
7439-89-6	IRON	20	19.7	0.1		98	90 - 110%
7439-95-4	MAGNESIUM	50	50.1	1		100	90 - 110%
7440-09-7	POTASSIUM	50	49.3	1		99	90 - 110%
7440-21-3	SILICON	5	4.70	0.05		94	90 - 110%
7440-23-5	SODIUM	50	50.2	1		100	90 - 110%
7440-24-6	STRONTIUM	0.5	0.472	0.01		94	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 25 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV7

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 16:35

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.945	0.1		95	90 - 110%
7440-70-2	CALCIUM	50	48.4	1		97	90 - 110%
7439-89-6	IRON	20	19.4	0.1		97	90 - 110%
7439-95-4	MAGNESIUM	50	49.5	1		99	90 - 110%
7440-09-7	POTASSIUM	50	49.1	1		98	90 - 110%
7440-21-3	SILICON	5	4.64	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.0	1		102	90 - 110%
7440-24-6	STRONTIUM	0.5	0.474	0.01		95	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 26 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV8

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 16:44

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.946	0.1		95	90 - 110%
7440-70-2	CALCIUM	50	49.2	1		98	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-95-4	MAGNESIUM	50	50.1	1		100	90 - 110%
7440-09-7	POTASSIUM	50	49.4	1		99	90 - 110%
7440-21-3	SILICON	5	4.67	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.8	1		104	90 - 110%
7440-24-6	STRONTIUM	0.5	0.475	0.01		95	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 27 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV9

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 17:27

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.941	0.1		94	90 - 110%
7440-70-2	CALCIUM	50	48.3	1		97	90 - 110%
7439-89-6	IRON	20	19.5	0.1		97	90 - 110%
7439-95-4	MAGNESIUM	50	49.6	1		99	90 - 110%
7440-09-7	POTASSIUM	50	48.6	1		97	90 - 110%
7440-21-3	SILICON	5	4.65	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.0	1		102	90 - 110%
7440-24-6	STRONTIUM	0.5	0.468	0.01		94	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 28 of 29

ICP Metals

Method SW6010

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV10

QC Type: Continuing Calibration

File Name: 170717A.

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 17:37

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-39-3	BARIUM	1	0.944	0.1		94	90 - 110%
7440-70-2	CALCIUM	50	49.0	1		98	90 - 110%
7439-89-6	IRON	20	19.7	0.1		99	90 - 110%
7439-95-4	MAGNESIUM	50	50.3	1		101	90 - 110%
7440-09-7	POTASSIUM	50	48.8	1		98	90 - 110%
7440-21-3	SILICON	5	4.69	0.05		94	90 - 110%
7440-23-5	SODIUM	50	51.3	1		103	90 - 110%
7440-24-6	STRONTIUM	0.5	0.472	0.01		94	90 - 110%

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 29 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 9:59:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	-0.000211	0.005	J
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0119	1	U
7440-47-3	CHROMIUM	-0.0011	0.01	J
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	0.00343	0.01	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.178	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0672	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	-0.000816	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 1 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:06:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0139	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00587	0.1	J
7439-93-2	LITHIUM	0.00346	0.01	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.192	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0691	1	J
7704-34-9	SULFUR	-0.0146	0.2	J
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 2 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:35:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0302	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0131	0.1	J
7439-93-2	LITHIUM	0.00342	0.01	J
7439-95-4	MAGNESIUM	0.0245	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0177	0.2	J
7440-09-7	POTASSIUM	0.166	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0748	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 3 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB3

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 10:58:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0358	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0143	0.1	J
7439-93-2	LITHIUM	0.00341	0.01	J
7439-95-4	MAGNESIUM	0.0276	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.151	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0806	1	J
7704-34-9	SULFUR	-0.0146	0.2	J
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 4 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB4

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:10:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0482	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0184	0.1	J
7439-93-2	LITHIUM	0.00351	0.01	J
7439-95-4	MAGNESIUM	0.0391	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	-0.0347	0.2	J
7440-09-7	POTASSIUM	0.158	1	J
7440-21-3	SILICON	0.00792	0.05	J
7440-23-5	SODIUM	0.108	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 5 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB5

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:34:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	-0.00367	0.1	J
7440-70-2	CALCIUM	0.0382	1	J
7440-47-3	CHROMIUM	-0.000608	0.01	J
7439-89-6	IRON	0.0158	0.1	J
7439-93-2	LITHIUM	0.00345	0.01	J
7439-95-4	MAGNESIUM	0.0286	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0177	0.2	J
7440-09-7	POTASSIUM	0.151	1	J
7440-21-3	SILICON	0.00864	0.05	J
7440-23-5	SODIUM	0.0854	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	-0.000697	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 6 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB6

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 11:47:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0472	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0219	0.1	J
7439-93-2	LITHIUM	0.00352	0.01	J
7439-95-4	MAGNESIUM	0.0356	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.172	1	J
7440-21-3	SILICON	0.00889	0.05	J
7440-23-5	SODIUM	0.0941	1	J
7704-34-9	SULFUR	-0.012	0.2	J
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 7 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB7

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 12:25:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0538	1	J
7440-47-3	CHROMIUM	0.000589	0.01	J
7439-89-6	IRON	0.0256	0.1	J
7439-93-2	LITHIUM	0.00349	0.01	J
7439-95-4	MAGNESIUM	0.0461	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.14	1	J
7440-21-3	SILICON	0.00942	0.05	J
7440-23-5	SODIUM	0.0956	1	J
7704-34-9	SULFUR	-0.0146	0.2	J
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 8 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB8

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 12:47:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0617	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0294	0.1	J
7439-93-2	LITHIUM	0.00361	0.01	J
7439-95-4	MAGNESIUM	0.0499	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	-0.0348	0.2	J
7440-09-7	POTASSIUM	0.148	1	J
7440-21-3	SILICON	0.012	0.05	J
7440-23-5	SODIUM	0.161	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 9 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB9

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 1:20:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0655	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0307	0.1	J
7439-93-2	LITHIUM	0.00361	0.01	J
7439-95-4	MAGNESIUM	0.0547	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	-0.0348	0.2	J
7440-09-7	POTASSIUM	0.116	1	J
7440-21-3	SILICON	0.0148	0.05	J
7440-23-5	SODIUM	0.149	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 10 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB10

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 1:32:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0693	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0323	0.1	J
7439-93-2	LITHIUM	0.00359	0.01	J
7439-95-4	MAGNESIUM	0.0547	1	J
7440-02-0	NICKEL	0.000983	0.02	J
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.0203	0.05	J
7440-23-5	SODIUM	0.145	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 11 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB11

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 1:42:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000253	0.005	J
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0817	1	J
7440-47-3	CHROMIUM	0.000911	0.01	J
7439-89-6	IRON	0.0373	0.1	J
7439-93-2	LITHIUM	0.00367	0.01	J
7439-95-4	MAGNESIUM	0.0734	1	J
7440-02-0	NICKEL	0.00115	0.02	J
7723-14-0	PHOSPHORUS	-0.0308	0.2	J
7440-09-7	POTASSIUM	0.122	1	J
7440-21-3	SILICON	0.0162	0.05	J
7440-23-5	SODIUM	0.149	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 12 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB12

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 4:38:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	-0.00362	0.1	J
7440-70-2	CALCIUM	0.0119	1	U
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	0.0032	0.01	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00722	0.05	J
7440-23-5	SODIUM	0.0653	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 13 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB13

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 4:55:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	-0.00346	0.1	J
7440-70-2	CALCIUM	0.0122	1	J
7440-47-3	CHROMIUM	-0.000603	0.01	J
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	0.00338	0.01	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.0059	0.05	J
7440-23-5	SODIUM	0.0766	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 14 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB14

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 5:08:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	-0.00314	0.1	J
7440-70-2	CALCIUM	0.0254	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00918	0.1	J
7439-93-2	LITHIUM	0.00349	0.01	J
7439-95-4	MAGNESIUM	0.0187	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0197	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00916	0.05	J
7440-23-5	SODIUM	0.0992	1	J
7704-34-9	SULFUR	-0.00945	0.2	J
7440-62-2	VANADIUM	0.000564	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 15 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB15

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 5:22:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0394	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0128	0.1	J
7439-93-2	LITHIUM	0.00354	0.01	J
7439-95-4	MAGNESIUM	0.0254	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00748	0.05	J
7440-23-5	SODIUM	0.0987	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 16 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB16

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 5:42:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0706	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0205	0.1	J
7439-93-2	LITHIUM	0.00353	0.01	J
7439-95-4	MAGNESIUM	0.0419	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00933	0.05	J
7440-23-5	SODIUM	0.104	1	J
7704-34-9	SULFUR	-0.00945	0.2	J
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 17 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB17

QC Type: Continuing Calibration

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Time Analyzed: 5:50:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.005	U
7440-42-8	BORON	0.00309	0.1	U
7440-70-2	CALCIUM	0.0792	1	J
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.0236	0.1	J
7439-93-2	LITHIUM	0.00354	0.01	J
7439-95-4	MAGNESIUM	0.0473	1	J
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.0701	0.2	J
7440-09-7	POTASSIUM	0.176	1	J
7440-21-3	SILICON	0.00802	0.05	J
7440-23-5	SODIUM	0.105	1	J
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 18 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 12:10:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000722	0.1	J
7440-70-2	CALCIUM	0.0119	1	U
7439-89-6	IRON	0.00494	0.1	U
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0605	1	J
7440-24-6	STRONTIUM	-0.00189	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 19 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 12:18:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000692	0.1	J
7440-70-2	CALCIUM	0.0119	1	U
7439-89-6	IRON	0.0058	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.136	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0624	1	J
7440-24-6	STRONTIUM	-0.00189	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 20 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 1:02:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000692	0.1	J
7440-70-2	CALCIUM	0.0166	1	J
7439-89-6	IRON	0.00892	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00453	0.05	J
7440-23-5	SODIUM	0.0671	1	J
7440-24-6	STRONTIUM	-0.00184	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 21 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB3

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 1:15:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000663	0.1	J
7440-70-2	CALCIUM	0.02	1	J
7439-89-6	IRON	0.0117	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.111	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0662	1	J
7440-24-6	STRONTIUM	-0.00185	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 22 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB4

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 3:50:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000513	0.1	J
7440-70-2	CALCIUM	0.0198	1	J
7439-89-6	IRON	0.00895	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00487	0.05	J
7440-23-5	SODIUM	0.0656	1	J
7440-24-6	STRONTIUM	-0.00184	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 23 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB5

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 4:05:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000603	0.1	J
7440-70-2	CALCIUM	0.0227	1	J
7439-89-6	IRON	0.0103	0.1	J
7439-95-4	MAGNESIUM	0.015	1	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00614	0.05	J
7440-23-5	SODIUM	0.0947	1	J
7440-24-6	STRONTIUM	-0.00178	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 24 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB6

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 4:19:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000484	0.1	J
7440-70-2	CALCIUM	0.0228	1	J
7439-89-6	IRON	0.0101	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00513	0.05	J
7440-23-5	SODIUM	0.121	1	J
7440-24-6	STRONTIUM	-0.00178	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 25 of 29

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB7

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 4:36:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000484	0.1	J
7440-70-2	CALCIUM	0.0271	1	J
7439-89-6	IRON	0.0115	0.1	J
7439-95-4	MAGNESIUM	0.0138	1	J
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0915	1	J
7440-24-6	STRONTIUM	-0.00176	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 26 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB8

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 4:45:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000364	0.1	J
7440-70-2	CALCIUM	0.0381	1	J
7439-89-6	IRON	0.0158	0.1	J
7439-95-4	MAGNESIUM	0.0223	1	J
7440-09-7	POTASSIUM	0.189	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.095	1	J
7440-24-6	STRONTIUM	-0.00171	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 27 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB9

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 5:28:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000782	0.1	J
7440-70-2	CALCIUM	0.0119	1	U
7439-89-6	IRON	0.00497	0.1	J
7439-95-4	MAGNESIUM	0.013	1	U
7440-09-7	POTASSIUM	0.182	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0641	1	J
7440-24-6	STRONTIUM	-0.00187	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 28 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB10

QC Type: Continuing Calibration

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Time Analyzed: 5:38:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-39-3	BARIUM	-0.000334	0.1	J
7440-70-2	CALCIUM	0.0375	1	J
7439-89-6	IRON	0.00622	0.1	J
7439-95-4	MAGNESIUM	0.0291	1	J
7440-09-7	POTASSIUM	0.229	1	J
7440-21-3	SILICON	0.00443	0.05	U
7440-23-5	SODIUM	0.0802	1	J
7440-24-6	STRONTIUM	-0.00168	0.01	J

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 29 of 29

LIMS Version: 6.843

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7440-41-7	BERYLLIUM		0.5		0.49200	98
7440-42-8	BORON		1		1.01	101
7440-70-2	CALCIUM	250	250	255	252	101
7440-47-3	CHROMIUM		0.5		0.487	97
7439-89-6	IRON	100	100	107	106	106
7439-93-2	LITHIUM		1		1.13	113
7439-95-4	MAGNESIUM	250	250	264	261	104
7440-02-0	NICKEL		1		0.99000	99
7723-14-0	PHOSPHORUS		1		1.07000	107
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.97100	97
7440-23-5	SODIUM					
7704-34-9	SULFUR		1		1.09000	109
7440-62-2	VANADIUM		0.5		0.49500	99

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA2	ICSAB2	ICSA2	ICSAB2	
7440-41-7	BERYLLIUM		0.5		0.49500	99
7440-42-8	BORON		1		1.02	102
7440-70-2	CALCIUM	250	250	256	250	100
7440-47-3	CHROMIUM		0.5		0.489	98
7439-89-6	IRON	100	100	107	104	104
7439-93-2	LITHIUM		1		1.10000	110
7439-95-4	MAGNESIUM	250	250	270	263	105
7440-02-0	NICKEL		1		0.964	96
7723-14-0	PHOSPHORUS		1		1.08000	108
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.997	100
7440-23-5	SODIUM					
7704-34-9	SULFUR		1		1.10000	110
7440-62-2	VANADIUM		0.5		0.498	100

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170620-2A8

Date Analyzed: 06/20/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA3	ICSAB3	ICSA3	ICSAB3	
7440-41-7	BERYLLIUM		0.5		0.49300	99
7440-42-8	BORON		1		0.997	100
7440-70-2	CALCIUM	250	250	254	251	100
7440-47-3	CHROMIUM		0.5		0.48800	98
7439-89-6	IRON	100	100	105	104	104
7439-93-2	LITHIUM		1		1.09000	109
7439-95-4	MAGNESIUM	250	250	269	265	106
7440-02-0	NICKEL		1		0.963	96
7723-14-0	PHOSPHORUS		1		1.11000	111
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.987	99
7440-23-5	SODIUM					
7704-34-9	SULFUR		1		1.10000	110
7440-62-2	VANADIUM		0.5		0.498	100

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 3 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7440-39-3	BARIUM		0.5		0.502	100
7440-70-2	CALCIUM	250	250	255	249	100
7439-89-6	IRON	100	100	105	103	103
7439-95-4	MAGNESIUM	250	250	258	252	101
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.92100	92
7440-23-5	SODIUM					
7440-24-6	STRONTIUM		1		0.992	99

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 4 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA2	ICSAB2	ICSA2	ICSAB2	
7440-39-3	BARIUM		0.5		0.51300	103
7440-70-2	CALCIUM	250	250	258	252	101
7439-89-6	IRON	100	100	106	104	104
7439-95-4	MAGNESIUM	250	250	264	257	103
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.945	94
7440-23-5	SODIUM					
7440-24-6	STRONTIUM		1		0.99800	100

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 5 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA3	ICSAB3	ICSA3	ICSAB3	
7440-39-3	BARIUM		0.5		0.49700	99
7440-70-2	CALCIUM	250	250	253	246	98
7439-89-6	IRON	100	100	107	105	105
7439-95-4	MAGNESIUM	250	250	262	256	102
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.932	93
7440-23-5	SODIUM					
7440-24-6	STRONTIUM		1		0.97200	97

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 6 of 7

ICP Metals

Method SW6010

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IT170717-1A2

Date Analyzed: 07/17/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA4	ICSAB4	ICSA4	ICSAB4	
7440-39-3	BARIUM		0.5		0.496	99
7440-70-2	CALCIUM	250	250	253	247	99
7439-89-6	IRON	100	100	109	107	107
7439-95-4	MAGNESIUM	250	250	265	258	103
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.942	94
7440-23-5	SODIUM					
7440-24-6	STRONTIUM		1		0.965	96

Data Package ID: IT1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 7 of 7

Metals Linear Ranges

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Instrument ID: ICPTTrace2

Active Date: 03/02/2010

Expiration Date: 05/31/2018

CASNO	Target Analyte	Concentration (ppm)
7429-90-5	ALUMINUM	500
7440-38-2	ARSENIC	5
7440-39-3	BARIUM	10
7440-41-7	BERYLLIUM	1
7440-42-8	BORON	10
7440-43-9	CADMIUM	5
7440-70-2	CALCIUM	500
7440-47-3	CHROMIUM	10
7440-48-4	COBALT	5
7440-50-8	COPPER	10
7439-89-6	IRON	200
7439-92-1	LEAD	10
7439-93-2	LITHIUM	5
7439-95-4	MAGNESIUM	500
7439-96-5	MANGANESE	10
7439-98-7	MOLYBDENUM	10
7440-02-0	NICKEL	10
7723-14-0	PHOSPHORUS	50
7440-09-7	POTASSIUM	250
7782-49-2	SELENIUM	5
7440-21-3	SILICON	50
7440-22-4	SILVER	2
7440-23-5	SODIUM	150
7440-24-6	STRONTIUM	10
7704-34-9	SULFUR	50
7440-28-0	THALLIUM	5
7440-29-1	THORIUM	1
7440-61-1	URANIUM	50
7440-62-2	VANADIUM	5
7440-66-6	ZINC	10

ICP Interelement Correction Factors

Lab Name: ALS -- Fort Collins
 Work Order Number: 1706286
 Client Name: COGCC
 ClientProject ID: PW NORM 2017 10048

Instrument ID: ICPTTrace2
 Active Date: 5/4/2017
 Expiration Date: 5/4/2018

Analyte	Lamda (nm)	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Th
ALUMINIUM																	
BERYLLIUM																	
CADMIUM				0.00755													
CHROMIUM																	
COBALT					-0.001400												
COPPER																	
LEAD		0.000214										0.000036					
SELENIUM												-0.00013					
SILICON																	
SILVER																	
THALLIUM												-0.000025			-0.00019		
URANIUM												0.001035					
VANADIUM									-0.0014			-0.000244					
ZINC									-0.044								

ICP Interelement Correction Factors

Lab Name: ALS -- Fort Collins
 Work Order Number: 1706286
 Client Name: COGCC
 ClientProject ID: PW NORM 2017 10048

Instrument ID: ICPTTrace2
 Active Date: 5/4/2017
 Expiration Date: 5/4/2018

Analyte	Lamda (nm)	K	Se	Ag	Na	Tl	V	Zn	Sn	Ti	Mo	Li	Sr	B	Si	U	Zr
ALUMINUM							0.0286				0.0033239					-0.0246	
BERYLLIUM							0.00189									0.0001	
CADMIUM																	
CHROMIUM																	
COBALT										0.002105						0.0006733	
COPPER																0.000521	
LEAD										-0.000832	-0.00212					0.0013	
SELENIUM																0.0000151	
SILICON										0.007	-0.0051					0.000318	
SILVER																0.0006982	
THALLIUM							-0.00016			0.00002						-0.000582	
URANIUM																	
VANADIUM																	
ZINC																	

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2

File Name: 170620A.

AnalRunID: IT170620-2A1

CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		MIXAHIGH	1	6/20/2017	09:48
		MIXBHIGH	1	6/20/2017	09:49
		MIXCHIGH	1	6/20/2017	09:50
		ICV	1	6/20/2017	09:58
		ICB	1	6/20/2017	09:59
		CRI1	1	6/20/2017	10:01
		LIV	1	6/20/2017	10:02
		ICSA1	1	6/20/2017	10:03
		ICSAB1	1	6/20/2017	10:04
		CCV1	1	6/20/2017	10:05
		CCB1	1	6/20/2017	10:06
		IP170613-1MB	1	6/20/2017	10:08
		IP170613-1LCS	1	6/20/2017	10:10
- Fe,Pb,Se,Ti,U,V		1705533-2	1	6/20/2017	10:11
- Fe,Pb,Se,Ti,U,V		1705533-2DUP	1	6/20/2017	10:12
- Fe,Pb,Se,Ti,U,V		1705533-2SER	5	6/20/2017	10:14
- Fe,Pb,Se,Ti,U,V		1705533-2MS	1	6/20/2017	10:15
- Fe,Pb,Se,Ti,U,V		1705533-2MSD	1	6/20/2017	10:16
- Fe,Pb,Se,Ti,U,V		1705533-2A	1	6/20/2017	10:30
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1705533-2	2	6/20/2017	10:32
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1705533-2DUP	2	6/20/2017	10:33
		CCV2	1	6/20/2017	10:34
		CCB2	1	6/20/2017	10:35
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1705533-2SER	10	6/20/2017	10:36
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1705533-2MS	2	6/20/2017	10:37
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1705533-2MSD	2	6/20/2017	10:38
		FP170613-3MB	1	6/20/2017	10:46
		IP170613-3MB	1	6/20/2017	10:48
		IP170613-3LCS	1	6/20/2017	10:49
		1706089-1	1	6/20/2017	10:50
		1706089-1DUP	1	6/20/2017	10:51
		1706089-1SER	5	6/20/2017	10:53
		1706089-1MS	1	6/20/2017	10:55
		CCV3	1	6/20/2017	10:56
		CCB3	1	6/20/2017	10:58

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2
 File Name: 170620A.
 AnalRunID: IT170620-2A1
 CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		1706089-1MSD	1	6/20/2017	10:59
		1706089-2	1	6/20/2017	11:00
		1706089-3	1	6/20/2017	11:01
		1706089-4	1	6/20/2017	11:02
- S		1706126-1	1	6/20/2017	11:03
- S		1706126-2	1	6/20/2017	11:04
- S		1706126-3	1	6/20/2017	11:05
- S		1706126-4	1	6/20/2017	11:06
- Na,S		1706236-1	1	6/20/2017	11:07
- Na		1706236-2	1	6/20/2017	11:08
		CCV4	1	6/20/2017	11:09
		CCB4	1	6/20/2017	11:10
- Al,Ba,Ca,Co,Fe,K,Mn,Na,P,Pb,S,Se,Si,Ti,U,V,Zr		1706236-3	1	6/20/2017	11:12
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706236-1	10	6/20/2017	11:16
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706236-2	10	6/20/2017	11:17
Ag,As,B,Be,Bi,Cd,Cr,Cu,Li,Mg,Mo,Ni,Sb,Sn,Sr,Ti,Zn		1706236-3	10	6/20/2017	11:18
		IP170614-2MB	1	6/20/2017	11:25
		IP170614-2LCS	1	6/20/2017	11:26
		1705328-1	1	6/20/2017	11:27
		1705328-1DUP	1	6/20/2017	11:28
		1705328-1SER	5	6/20/2017	11:31
		1705328-1MS	1	6/20/2017	11:32
		CCV5	1	6/20/2017	11:33
		CCB5	1	6/20/2017	11:34
		1705328-1MSD	1	6/20/2017	11:35
		1705328-2	1	6/20/2017	11:36
		1705328-3	1	6/20/2017	11:38
		1705328-4	1	6/20/2017	11:39
		1705328-5	1	6/20/2017	11:40
		1705328-6	1	6/20/2017	11:41
		1705328-7	1	6/20/2017	11:42
		1705328-8	1	6/20/2017	11:43
		1705328-9	1	6/20/2017	11:44
		1705577-2	1	6/20/2017	11:45
		CCV6	1	6/20/2017	11:46

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2

File Name: 170620A.

AnalRunID: IT170620-2A1

CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCB6	1	6/20/2017	11:47
		1705577-2DUP	1	6/20/2017	11:48
		1705577-2SER	5	6/20/2017	11:50
- Na		1705577-2MS	1	6/20/2017	11:53
- Na		1705577-2MSD	1	6/20/2017	11:54
- Fe,Pb,Se,Ti,U,V		1706210-2	1	6/20/2017	11:55
		1705328-1A	1	6/20/2017	12:07
		1705577-2A	1	6/20/2017	12:08
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705577-2MS	2	6/20/2017	12:09
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705577-2MSD	2	6/20/2017	12:10
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Se,Sn,Sr,Ti,Zn,Zr		1706210-2	2	6/20/2017	12:11
		CCV7	1	6/20/2017	12:24
		CCB7	1	6/20/2017	12:25
		FP170614-3MB	1	6/20/2017	12:28
		IP170614-3MB	1	6/20/2017	12:29
		IP170614-3LCS	1	6/20/2017	12:31
- Na		1705515-1	1	6/20/2017	12:33
- Na		1705515-1DUP	1	6/20/2017	12:34
- Na		1705515-1SER	5	6/20/2017	12:35
- Na		1705515-1MS	1	6/20/2017	12:41
- Na		1705515-1MSD	1	6/20/2017	12:42
- Na		1705515-3	1	6/20/2017	12:43
- Na,Sr		1706185-1	10	6/20/2017	12:44
		CCV8	1	6/20/2017	12:46
		CCB8	1	6/20/2017	12:47
- Na		1706185-3	10	6/20/2017	12:48
- K,Na,S		1706271-1	10	6/20/2017	12:49
- Na		1706271-2	10	6/20/2017	13:02
- Na	755652 Coalview	1706286-1	10	6/20/2017	13:03
- Na	755653 Oscar Y	1706286-3	10	6/20/2017	13:04
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-1	10	6/20/2017	13:14
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-1DUP	10	6/20/2017	13:15
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-1SER	50	6/20/2017	13:16
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-1MS	10	6/20/2017	13:17
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-1MSD	10	6/20/2017	13:18

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2

File Name: 170620A.

AnalRunID: IT170620-2A1

CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCV9	1	6/20/2017	13:19
		CCB9	1	6/20/2017	13:20
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-3	10	6/20/2017	13:22
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706185-1	500	6/20/2017	13:23
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706185-3	500	6/20/2017	13:24
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706271-1	500	6/20/2017	13:25
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706271-2	500	6/20/2017	13:26
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr	755652 Coalview	1706286-1	500	6/20/2017	13:27
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr	755653 Oscar Y	1706286-3	500	6/20/2017	13:28
		CCV10	1	6/20/2017	13:31
		CCB10	1	6/20/2017	13:32
		CRI2	1	6/20/2017	13:33
		LCV1	1	6/20/2017	13:36
		ICSA2	1	6/20/2017	13:37
		ICSAB2	1	6/20/2017	13:40
		CCV11	1	6/20/2017	13:41
		CCB11	1	6/20/2017	13:42
		CCV12	1	6/20/2017	16:37
		CCB12	1	6/20/2017	16:38
		IP170619-8MB	1	6/20/2017	16:40
		IP170619-8LCS	1	6/20/2017	16:43
- Na		1705515-2	1	6/20/2017	16:44
- Na		1705515-4	1	6/20/2017	16:45
		1705609-1	1	6/20/2017	16:46
		1706114-21	1	6/20/2017	16:47
- Li		1706114-22	1	6/20/2017	16:48
		1706114-23	1	6/20/2017	16:49
		1706114-24	1	6/20/2017	16:50
		1706114-25	1	6/20/2017	16:51
		CCV13	1	6/20/2017	16:52
		CCB13	1	6/20/2017	16:55
		1706114-26	1	6/20/2017	16:56
		1706114-27	1	6/20/2017	16:57
		1706114-28	1	6/20/2017	16:58
		1706114-29	1	6/20/2017	16:59

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2

File Name: 170620A.

AnalRunID: IT170620-2A1

CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		1706114-30	50	6/20/2017	17:00
		1706114-30DUP	50	6/20/2017	17:01
		1706114-30SER	250	6/20/2017	17:02
		1706114-30MS	50	6/20/2017	17:03
		1706114-30MSD	50	6/20/2017	17:04
- Na,S		1706244-1	1	6/20/2017	17:05
		CCV14	1	6/20/2017	17:06
		CCB14	1	6/20/2017	17:08
- Na,S		1706244-2	1	6/20/2017	17:09
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-2	10	6/20/2017	17:11
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1705515-4	10	6/20/2017	17:12
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706114-22	50	6/20/2017	17:13
		IP170619-9MB	1	6/20/2017	17:14
		IP170619-9LCS	1	6/20/2017	17:15
		1706229-1	1	6/20/2017	17:16
		1706229-1DUP	1	6/20/2017	17:17
		1706229-1SER	5	6/20/2017	17:18
- Ca		1706229-1MS	1	6/20/2017	17:19
		CCV15	1	6/20/2017	17:20
		CCB15	1	6/20/2017	17:22
		1706229-1MSD	1	6/20/2017	17:24
- Fe,Pb,Se,Tl,U,V		1706349-1	10	6/20/2017	17:25
- Fe,Pb,Se,Tl,U,V		1706349-2	10	6/20/2017	17:26
- Fe,Pb,Se,Tl,U,V		1706349-3	10	6/20/2017	17:27
- Mn,Tl		1706349-4	10	6/20/2017	17:28
- Mn,Tl		1706349-5	10	6/20/2017	17:29
		Z	1	6/20/2017	17:31
		Z	1	6/20/2017	17:32
		CCV16	1	6/20/2017	17:41
		CCB16	1	6/20/2017	17:42
		CRI3	1	6/20/2017	17:43
		LCV2	1	6/20/2017	17:46
		ICSA3	1	6/20/2017	17:47
		ICSAB3	1	6/20/2017	17:48
		CCV17	1	6/20/2017	17:49

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 6/20/2017

Instrument ID: ICPTrace2

File Name: 170620A.

AnalRunID: IT170620-2A1

CalibRefID: IT170620-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCB17	1	6/20/2017	17:50

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 7/17/2017

Instrument ID: ICPTrace2

File Name: 170717A.

AnalRunID: IT170717-1A1

CalibRefID: IT170717-1A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		MIXAHIGH	1	7/17/2017	12:01
		MIXBHIGH	1	7/17/2017	12:02
		MIXCHIGH	1	7/17/2017	12:03
		ICV	1	7/17/2017	12:09
		ICB	1	7/17/2017	12:10
		CRI1	1	7/17/2017	12:11
		LIV	1	7/17/2017	12:14
		ICSA1	1	7/17/2017	12:15
		ICSAB1	1	7/17/2017	12:16
		CCV1	1	7/17/2017	12:17
		CCB1	1	7/17/2017	12:18
		IP170714-2MB	1	7/17/2017	12:19
		Z	1	7/17/2017	12:20
- Fe,Pb,Se,Ti,U,V		1706546-2	1	7/17/2017	12:21
- Fe,Pb,Se,Ti,U,V		1706546-2DUP	1	7/17/2017	12:22
- Fe,Pb,Se,Ti,U,V		1706546-2SER	5	7/17/2017	12:25
- Fe,Pb,Se,Ti,U,V		1706546-2MS	1	7/17/2017	12:32
- Fe,Pb,Se,Ti,U,V		1706546-2MSD	1	7/17/2017	12:34
- Fe,Pb,Se,Ti,U,V		1706628-2	1	7/17/2017	12:35
		IP170714-2LCS	1	7/17/2017	12:57
- Fe,Pb,Se,Ti,U,V		1706546-2A	1	7/17/2017	13:00
		CCV2	1	7/17/2017	13:01
		CCB2	1	7/17/2017	13:02
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706546-2	2	7/17/2017	13:03
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706546-2DUP	2	7/17/2017	13:04
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706546-2SER	10	7/17/2017	13:05
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706546-2MS	2	7/17/2017	13:06
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706546-2MSD	2	7/17/2017	13:07
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,K,Li,Mg,Mn,Mo,Na,Ni,P,S,Sb,Sn,Sr,Ti,Zn,Zr		1706628-2	2	7/17/2017	13:09
		CRI2	1	7/17/2017	13:10
		LCV1	1	7/17/2017	13:11
		ICSA2	1	7/17/2017	13:12
		ICSAB2	1	7/17/2017	13:13
		CCV3	1	7/17/2017	13:14
		CCB3	1	7/17/2017	13:15

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 7/17/2017

Instrument ID: ICPTrace2

File Name: 170717A.

AnalRunID: IT170717-1A1

CalibRefID: IT170717-1A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCV4	1	7/17/2017	15:49
		CCB4	1	7/17/2017	15:50
		IP170717-1MB	1	7/17/2017	15:51
		IP170717-1LCS	1	7/17/2017	15:54
- Na	755652 Coalview	1706286-2	10	7/17/2017	15:55
- Na	755653 Oscar Y	1706286-4	10	7/17/2017	15:56
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706299-3	10	7/17/2017	15:57
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706299-4	10	7/17/2017	15:59
- Li,Na		1706329-3	10	7/17/2017	16:00
- Li,Na,S		1706329-4	10	7/17/2017	16:01
		1706354-3	1	7/17/2017	16:02
		1706354-3DUP	1	7/17/2017	16:03
		CCV5	1	7/17/2017	16:04
		CCB5	1	7/17/2017	16:05
		1706354-3SER	5	7/17/2017	16:06
		1706354-3MS	1	7/17/2017	16:07
		1706354-3MSD	1	7/17/2017	16:08
		1706354-4	1	7/17/2017	16:09
		1706354-5	1	7/17/2017	16:10
		1706354-6	1	7/17/2017	16:11
- Mg,Na,S,Sr		1706509-1	1	7/17/2017	16:12
		1706655-1	1	7/17/2017	16:15
		1706655-1DUP	1	7/17/2017	16:16
		1706655-1SER	5	7/17/2017	16:17
		CCV6	1	7/17/2017	16:18
		CCB6	1	7/17/2017	16:19
		1706655-1MS	1	7/17/2017	16:20
		1706655-1MSD	1	7/17/2017	16:21
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr	755652 Coalview	1706286-2	500	7/17/2017	16:24
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr	755653 Oscar Y	1706286-4	500	7/17/2017	16:25
- Na		1706299-3	1	7/17/2017	16:26
- Na		1706299-4	1	7/17/2017	16:27
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706329-3	500	7/17/2017	16:28
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Sr,Ti,Tl,U,V,Zn,Zr		1706329-4	500	7/17/2017	16:29
		Z	1	7/17/2017	16:30

Data Package ID: IT1706286-1

ICPTrace2 Run Log -- 7/17/2017

Instrument ID: ICPTrace2

File Name: 170717A.

AnalRunID: IT170717-1A1

CalibRefID: IT170717-1A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mn,Mo,Ni,P,Pb,S,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1706509-1	100	7/17/2017	16:32
		CCV7	1	7/17/2017	16:35
		CCB7	1	7/17/2017	16:36
		CRI3	1	7/17/2017	16:37
		LCV2	1	7/17/2017	16:41
		ICSA3	1	7/17/2017	16:42
		ICSAB3	1	7/17/2017	16:43
		CCV8	1	7/17/2017	16:44
		CCB8	1	7/17/2017	16:45
		CCV9	1	7/17/2017	17:27
		CCB9	1	7/17/2017	17:28
		1706655-2	1	7/17/2017	17:29
		CRI4	1	7/17/2017	17:30
		LCV3	1	7/17/2017	17:33
		ICSA4	1	7/17/2017	17:34
		ICSAB4	1	7/17/2017	17:36
		CCV10	1	7/17/2017	17:37
		CCB10	1	7/17/2017	17:38

Data Package ID: IT1706286-1

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IP170614-3MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 14-Jun-17

Date Analyzed: 14-Jun-17

Prep Batch: IP170614-3

QCBatchID: IP170614-3-2

Run ID: IM170614-10A18

Cleanup: NONE

Basis: N/A

File Name: 127SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	0.05	U	0.1	0.05
7440-38-2	ARSENIC	10	0.00091	U	0.002	0.00091
7440-39-3	BARIUM	10	0.0036	U	0.005	0.0036
7440-43-9	CADMIUM	10	0.00095	U	0.002	0.00095
7440-48-4	COBALT	10	0.0022	U	0.005	0.0022
7440-50-8	COPPER	10	0.012	U	0.02	0.012
7439-92-1	LEAD	10	0.0014	U	0.002	0.0014
7439-96-5	MANGANESE	10	0.0023	U	0.005	0.0023
7439-98-7	MOLYBDENUM	10	0.00098	U	0.002	0.00098
7782-49-2	SELENIUM	10	0.0049	U	0.01	0.0049
7440-22-4	SILVER	10	0.00022	U	0.0005	0.00022
7440-23-5	SODIUM	10	0.46	U	1	0.46
7440-24-6	STRONTIUM	10	0.003	U	0.005	0.003
7440-28-0	THALLIUM	10	0.000062	U	0.0001	0.000062
7440-29-1	THORIUM	10	0.000091	U	0.0002	0.000091
7440-61-1	URANIUM	10	0.000075	U	0.0001	0.000075
7440-66-6	ZINC	10	0.075	J	0.1	0.048

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 1

101 of 609

ICPMS Metals

Method SW6020A

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: IM170614-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 06/14/2017

Date Analyzed: 06/14/2017

Prep Method: SW3010A

Prep Batch: IP170614-3

QCBatchID: IP170614-3-2

Run ID: IM170614-10A18

Cleanup: NONE

Basis: N/A

File Name: 128SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5	4.83	0.1		97	80 - 120%
7440-38-2	ARSENIC	0.1	0.103	0.002		103	80 - 120%
7440-39-3	BARIUM	0.1	0.108	0.005		108	80 - 120%
7440-43-9	CADMIUM	0.03	0.0298	0.002		99	80 - 120%
7440-48-4	COBALT	0.1	0.101	0.005		101	80 - 120%
7440-50-8	COPPER	1	1.02	0.02		102	80 - 120%
7439-92-1	LEAD	0.05	0.051	0.002		102	80 - 120%
7439-96-5	MANGANESE	0.1	0.0998	0.005		100	80 - 120%
7439-98-7	MOLYBDENUM	0.1	0.0957	0.002		96	80 - 120%
7782-49-2	SELENIUM	0.1	0.101	0.01		101	80 - 120%
7440-22-4	SILVER	0.01	0.01	0.0005		100	80 - 120%
7440-23-5	SODIUM	10	10.2	1		102	80 - 120%
7440-24-6	STRONTIUM	0.1	0.0977	0.005		98	80 - 120%
7440-28-0	THALLIUM	0.002	0.00212	0.0001		106	80 - 120%
7440-29-1	THORIUM	0.01	0.00998	0.0002		100	80 - 120%
7440-61-1	URANIUM	0.01	0.0104	0.0001		104	80 - 120%
7440-66-6	ZINC	2	1.99	0.1		99	80 - 120%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 1

Prep Batch ID: IP170614-3

Start Date: 06/14/17

End Date: 06/14/17

Concentration Method: NONE

Batch Created By: jml

Start Time: 12:51

End Time: 18:00

Extract Method: SW3010A

Date Created: 06/14/17

Prep Analyst: Jill M. Latelle

Initial Volume Units: ml

Time Created: 12:52

Comments:

Final Volume Units: ml

Validated By: jml

Date Validated: 06/14/17

Time Validated: 14:29

QC Batch ID: IP170614-3-2

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP170614-3	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
IM170614-3	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1705515-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1705515
1706185-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706185
1706185-3	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706185
1706271-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706271
1706271-2	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706271
1706286-1	SMP	755652 Coalview	WATER	6/13/2017	50	50	NONE	1	1706286
1706286-3	SMP	755653 Oscar Y	WATER	6/13/2017	50	50	NONE	1	1706286

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICV

QC Type: Initial Calibration

File Name: 001SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 10:51

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	1	0.949	0.01		95	90 - 110%
7440-38-2	ARSENIC	0.02	0.0196	0.0002		98	90 - 110%
7440-39-3	BARIUM	0.02	0.0203	0.0005		101	90 - 110%
7440-43-9	CADMIUM	0.006	0.00579	0.0002		96	90 - 110%
7440-48-4	COBALT	0.02	0.0198	0.0005		99	90 - 110%
7440-50-8	COPPER	0.2	0.207	0.002		103	90 - 110%
7439-92-1	LEAD	0.01	0.0105	0.0002		105	90 - 110%
7439-96-5	MANGANESE	0.04	0.0393	0.0005		98	90 - 110%
7439-98-7	MOLYBDENUM	0.02	0.0191	0.0002		96	90 - 110%
7782-49-2	SELENIUM	0.02	0.0202	0.001		101	90 - 110%
7440-22-4	SILVER	0.002	0.00201	0.00005		101	90 - 110%
7440-23-5	SODIUM	20	19.6	0.1		98	90 - 110%
7440-24-6	STRONTIUM	0.02	0.0204	0.0005		102	90 - 110%
7440-28-0	THALLIUM	0.0004	0.000404	0.00001		101	90 - 110%
7440-29-1	THORIUM	0.002	0.00193	0.00002		96	90 - 110%
7440-61-1	URANIUM	0.002	0.00197	0.00001		99	90 - 110%
7440-66-6	ZINC	0.4	0.390	0.01		97	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 1 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 006SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 11:18

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.480	0.01		96	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.0101	0.0005		101	90 - 110%
7440-43-9	CADMIUM	0.003	0.00299	0.0002		100	90 - 110%
7440-48-4	COBALT	0.01	0.00981	0.0005		98	90 - 110%
7440-50-8	COPPER	0.1	0.103	0.002		103	90 - 110%
7439-92-1	LEAD	0.005	0.00492	0.0002		98	90 - 110%
7439-96-5	MANGANESE	0.02	0.0194	0.0005		97	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00956	0.0002		96	90 - 110%
7782-49-2	SELENIUM	0.01	0.00982	0.001		98	90 - 110%
7440-22-4	SILVER	0.001	0.000999	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	9.95	0.1		99	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00966	0.0005		97	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000200	0.00001		100	90 - 110%
7440-29-1	THORIUM	0.001	0.000949	0.00002		95	90 - 110%
7440-61-1	URANIUM	0.001	0.000997	0.00001		100	90 - 110%
7440-66-6	ZINC	0.2	0.201	0.01		100	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 2 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 024SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 15:50

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.489	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0101	0.0002		101	90 - 110%
7440-39-3	BARIUM	0.01	0.0103	0.0005		103	90 - 110%
7440-43-9	CADMIUM	0.003	0.00304	0.0002		101	90 - 110%
7440-48-4	COBALT	0.01	0.00994	0.0005		99	90 - 110%
7440-50-8	COPPER	0.1	0.105	0.002		105	90 - 110%
7439-92-1	LEAD	0.005	0.00510	0.0002		102	90 - 110%
7439-96-5	MANGANESE	0.02	0.0197	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00969	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.00989	0.001		99	90 - 110%
7440-22-4	SILVER	0.001	0.00104	0.00005		104	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00973	0.0005		97	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000202	0.00001		101	90 - 110%
7440-29-1	THORIUM	0.001	0.000966	0.00002		97	90 - 110%
7440-61-1	URANIUM	0.001	0.00103	0.00001		103	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 3 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV3

QC Type: Continuing Calibration

File Name: 030SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 16:17

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.493	0.01		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0101	0.0005		101	90 - 110%
7440-43-9	CADMIUM	0.003	0.00312	0.0002		104	90 - 110%
7440-48-4	COBALT	0.01	0.0100	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.105	0.002		105	90 - 110%
7439-92-1	LEAD	0.005	0.00507	0.0002		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0199	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00983	0.0002		98	90 - 110%
7782-49-2	SELENIUM	0.01	0.00999	0.001		100	90 - 110%
7440-22-4	SILVER	0.001	0.00104	0.00005		104	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00978	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000203	0.00001		101	90 - 110%
7440-29-1	THORIUM	0.001	0.000987	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00102	0.00001		102	90 - 110%
7440-66-6	ZINC	0.2	0.207	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 4 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV4

QC Type: Continuing Calibration

File Name: 041SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 17:04

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.488	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0103	0.0005		103	90 - 110%
7440-43-9	CADMIUM	0.003	0.00293	0.0002		98	90 - 110%
7440-48-4	COBALT	0.01	0.00996	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-92-1	LEAD	0.005	0.00510	0.0002		102	90 - 110%
7439-96-5	MANGANESE	0.02	0.0197	0.0005		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00970	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.0103	0.001		103	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	10.0	0.1		100	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00984	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000206	0.00001		103	90 - 110%
7440-29-1	THORIUM	0.001	0.000997	0.00002		100	90 - 110%
7440-61-1	URANIUM	0.001	0.00104	0.00001		104	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 5 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV5

QC Type: Continuing Calibration

File Name: 053SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 17:57

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.488	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0105	0.0002		105	90 - 110%
7440-39-3	BARIUM	0.01	0.0107	0.0005		107	90 - 110%
7440-43-9	CADMIUM	0.003	0.00304	0.0002		101	90 - 110%
7440-48-4	COBALT	0.01	0.00997	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-92-1	LEAD	0.005	0.00509	0.0002		102	90 - 110%
7439-96-5	MANGANESE	0.02	0.0196	0.0005		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00958	0.0002		96	90 - 110%
7782-49-2	SELENIUM	0.01	0.0101	0.001		101	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00968	0.0005		97	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000204	0.00001		102	90 - 110%
7440-29-1	THORIUM	0.001	0.000985	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00102	0.00001		102	90 - 110%
7440-66-6	ZINC	0.2	0.204	0.01		102	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 6 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV6

QC Type: Continuing Calibration

File Name: 065SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 18:44

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.492	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.0101	0.0005		101	90 - 110%
7440-43-9	CADMIUM	0.003	0.00298	0.0002		99	90 - 110%
7440-48-4	COBALT	0.01	0.00998	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.103	0.002		103	90 - 110%
7439-92-1	LEAD	0.005	0.00499	0.0002		100	90 - 110%
7439-96-5	MANGANESE	0.02	0.0195	0.0005		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00953	0.0002		95	90 - 110%
7782-49-2	SELENIUM	0.01	0.00987	0.001		99	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00955	0.0005		96	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000202	0.00001		101	90 - 110%
7440-29-1	THORIUM	0.001	0.000980	0.00002		98	90 - 110%
7440-61-1	URANIUM	0.001	0.00102	0.00001		102	90 - 110%
7440-66-6	ZINC	0.2	0.201	0.01		101	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 7 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV7

QC Type: Continuing Calibration

File Name: 081SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 19:57

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.504	0.01		101	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0106	0.0005		106	90 - 110%
7440-43-9	CADMIUM	0.003	0.00295	0.0002		98	90 - 110%
7440-48-4	COBALT	0.01	0.0101	0.0005		101	90 - 110%
7440-50-8	COPPER	0.1	0.106	0.002		106	90 - 110%
7439-92-1	LEAD	0.005	0.00506	0.0002		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0201	0.0005		101	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00971	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.0101	0.001		101	90 - 110%
7440-22-4	SILVER	0.001	0.00101	0.00005		101	90 - 110%
7440-23-5	SODIUM	10	10.3	0.1		103	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00980	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000201	0.00001		100	90 - 110%
7440-29-1	THORIUM	0.001	0.000994	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00102	0.00001		102	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 8 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV8

QC Type: Continuing Calibration

File Name: 089SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 20:29

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.491	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0103	0.0005		103	90 - 110%
7440-43-9	CADMIUM	0.003	0.00289	0.0002		96	90 - 110%
7440-48-4	COBALT	0.01	0.0100	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-92-1	LEAD	0.005	0.00510	0.0002		102	90 - 110%
7439-96-5	MANGANESE	0.02	0.0198	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00974	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.0100	0.001		100	90 - 110%
7440-22-4	SILVER	0.001	0.00103	0.00005		103	90 - 110%
7440-23-5	SODIUM	10	10.4	0.1		104	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00965	0.0005		96	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000206	0.00001		103	90 - 110%
7440-29-1	THORIUM	0.001	0.000988	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00105	0.00001		105	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 9 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV9

QC Type: Continuing Calibration

File Name: 101SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 21:14

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.489	0.01		98	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.0102	0.0005		102	90 - 110%
7440-43-9	CADMIUM	0.003	0.00301	0.0002		100	90 - 110%
7440-48-4	COBALT	0.01	0.0101	0.0005		101	90 - 110%
7440-50-8	COPPER	0.1	0.105	0.002		105	90 - 110%
7439-92-1	LEAD	0.005	0.00508	0.0002		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0198	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00974	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.0102	0.001		102	90 - 110%
7440-22-4	SILVER	0.001	0.00102	0.00005		102	90 - 110%
7440-23-5	SODIUM	10	10.3	0.1		103	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00983	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000197	0.00001		98	90 - 110%
7440-29-1	THORIUM	0.001	0.000967	0.00002		97	90 - 110%
7440-61-1	URANIUM	0.001	0.00102	0.00001		102	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 10 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV10

QC Type: Continuing Calibration

File Name: 113SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 22:02

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.487	0.01		97	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.0104	0.0005		104	90 - 110%
7440-43-9	CADMIUM	0.003	0.00296	0.0002		99	90 - 110%
7440-48-4	COBALT	0.01	0.00994	0.0005		99	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-92-1	LEAD	0.005	0.00504	0.0002		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0196	0.0005		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00962	0.0002		96	90 - 110%
7782-49-2	SELENIUM	0.01	0.00980	0.001		98	90 - 110%
7440-22-4	SILVER	0.001	0.00101	0.00005		101	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00958	0.0005		96	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000199	0.00001		99	90 - 110%
7440-29-1	THORIUM	0.001	0.000987	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00103	0.00001		103	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 11 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV11

QC Type: Continuing Calibration

File Name: 124SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 22:46

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.493	0.01		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0103	0.0005		103	90 - 110%
7440-43-9	CADMIUM	0.003	0.00296	0.0002		99	90 - 110%
7440-48-4	COBALT	0.01	0.00996	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-92-1	LEAD	0.005	0.00508	0.0002		102	90 - 110%
7439-96-5	MANGANESE	0.02	0.0199	0.0005		100	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00959	0.0002		96	90 - 110%
7782-49-2	SELENIUM	0.01	0.0102	0.001		102	90 - 110%
7440-22-4	SILVER	0.001	0.00102	0.00005		102	90 - 110%
7440-23-5	SODIUM	10	10.1	0.1		101	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00980	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000201	0.00001		100	90 - 110%
7440-29-1	THORIUM	0.001	0.000977	0.00002		98	90 - 110%
7440-61-1	URANIUM	0.001	0.00103	0.00001		103	90 - 110%
7440-66-6	ZINC	0.2	0.207	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 12 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV12

QC Type: Continuing Calibration

File Name: 136SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 23:34

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.494	0.01		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.0104	0.0005		104	90 - 110%
7440-43-9	CADMIUM	0.003	0.00300	0.0002		100	90 - 110%
7440-48-4	COBALT	0.01	0.0100	0.0005		100	90 - 110%
7440-50-8	COPPER	0.1	0.105	0.002		105	90 - 110%
7439-92-1	LEAD	0.005	0.00505	0.0002		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0198	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00973	0.0002		97	90 - 110%
7782-49-2	SELENIUM	0.01	0.0101	0.001		101	90 - 110%
7440-22-4	SILVER	0.001	0.00103	0.00005		103	90 - 110%
7440-23-5	SODIUM	10	10.2	0.1		102	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00976	0.0005		98	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000205	0.00001		102	90 - 110%
7440-29-1	THORIUM	0.001	0.000978	0.00002		98	90 - 110%
7440-61-1	URANIUM	0.001	0.00104	0.00001		104	90 - 110%
7440-66-6	ZINC	0.2	0.206	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 13 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV13

QC Type: Continuing Calibration

File Name: 149SMPL_

Run ID: IM170614-10A18

Date Analyzed: 06/15/2017

Time Analyzed: 0:42

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.493	0.01		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.0100	0.0005		100	90 - 110%
7440-43-9	CADMIUM	0.003	0.00297	0.0002		99	90 - 110%
7440-48-4	COBALT	0.01	0.0101	0.0005		101	90 - 110%
7440-50-8	COPPER	0.1	0.105	0.002		105	90 - 110%
7439-92-1	LEAD	0.005	0.00515	0.0002		103	90 - 110%
7439-96-5	MANGANESE	0.02	0.0198	0.0005		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00982	0.0002		98	90 - 110%
7782-49-2	SELENIUM	0.01	0.0101	0.001		101	90 - 110%
7440-22-4	SILVER	0.001	0.00103	0.00005		103	90 - 110%
7440-23-5	SODIUM	10	10.3	0.1		103	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00993	0.0005		99	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000206	0.00001		103	90 - 110%
7440-29-1	THORIUM	0.001	0.000986	0.00002		99	90 - 110%
7440-61-1	URANIUM	0.001	0.00103	0.00001		103	90 - 110%
7440-66-6	ZINC	0.2	0.207	0.01		103	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 14 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICV

QC Type: Initial Calibration

File Name: 001SMPL_

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 17:53

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	1	0.903	0.01		90	90 - 110%
7440-38-2	ARSENIC	0.02	0.0197	0.0002		99	90 - 110%
7440-43-9	CADMIUM	0.006	0.00573	0.0002		96	90 - 110%
7440-48-4	COBALT	0.02	0.0189	0.0005		95	90 - 110%
7440-50-8	COPPER	0.2	0.202	0.002		101	90 - 110%
7439-92-1	LEAD	0.01	0.0103	0.0002		103	90 - 110%
7439-98-7	MOLYBDENUM	0.02	0.0187	0.0002		93	90 - 110%
7782-49-2	SELENIUM	0.02	0.0193	0.001		96	90 - 110%
7440-22-4	SILVER	0.002	0.00199	0.00005		100	90 - 110%
7440-29-1	THORIUM	0.002	0.00189	0.00002		95	90 - 110%
7440-61-1	URANIUM	0.002	0.00196	0.00001		98	90 - 110%
7440-66-6	ZINC	0.4	0.384	0.01		96	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 15 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 006SMPL_

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 18:19

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.471	0.01		94	90 - 110%
7440-38-2	ARSENIC	0.01	0.0100	0.0002		100	90 - 110%
7440-43-9	CADMIUM	0.003	0.00290	0.0002		97	90 - 110%
7440-48-4	COBALT	0.01	0.00961	0.0005		96	90 - 110%
7440-50-8	COPPER	0.1	0.103	0.002		103	90 - 110%
7439-92-1	LEAD	0.005	0.00495	0.0002		99	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00943	0.0002		94	90 - 110%
7782-49-2	SELENIUM	0.01	0.00950	0.001		95	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-29-1	THORIUM	0.001	0.000940	0.00002		94	90 - 110%
7440-61-1	URANIUM	0.001	0.000979	0.00001		98	90 - 110%
7440-66-6	ZINC	0.2	0.199	0.01		99	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 16 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 020SMPL_

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 19:36

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.470	0.01		94	90 - 110%
7440-38-2	ARSENIC	0.01	0.0100	0.0002		100	90 - 110%
7440-43-9	CADMIUM	0.003	0.00286	0.0002		95	90 - 110%
7440-48-4	COBALT	0.01	0.00960	0.0005		96	90 - 110%
7440-50-8	COPPER	0.1	0.103	0.002		103	90 - 110%
7439-92-1	LEAD	0.005	0.00498	0.0002		100	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00933	0.0002		93	90 - 110%
7782-49-2	SELENIUM	0.01	0.00992	0.001		99	90 - 110%
7440-22-4	SILVER	0.001	0.000980	0.00005		98	90 - 110%
7440-29-1	THORIUM	0.001	0.000935	0.00002		93	90 - 110%
7440-61-1	URANIUM	0.001	0.000980	0.00001		98	90 - 110%
7440-66-6	ZINC	0.2	0.199	0.01		99	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 17 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCV3

QC Type: Continuing Calibration

File Name: 037SMPL_

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 20:46

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.469	0.01		94	90 - 110%
7440-38-2	ARSENIC	0.01	0.00992	0.0002		99	90 - 110%
7440-43-9	CADMIUM	0.003	0.00288	0.0002		96	90 - 110%
7440-48-4	COBALT	0.01	0.00951	0.0005		95	90 - 110%
7440-50-8	COPPER	0.1	0.102	0.002		102	90 - 110%
7439-92-1	LEAD	0.005	0.00492	0.0002		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00920	0.0002		92	90 - 110%
7782-49-2	SELENIUM	0.01	0.00988	0.001		99	90 - 110%
7440-22-4	SILVER	0.001	0.000999	0.00005		100	90 - 110%
7440-29-1	THORIUM	0.001	0.000909	0.00002		91	90 - 110%
7440-61-1	URANIUM	0.001	0.000960	0.00001		96	90 - 110%
7440-66-6	ZINC	0.2	0.195	0.01		98	90 - 110%

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 18 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 10:57:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000036	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000026	0.0002	J
7439-96-5	MANGANESE	0.000019	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 1 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 11:24:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000027	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000025	0.0002	J
7439-96-5	MANGANESE	0.0000158	0.0005	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 2 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 3:56:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000014	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-96-5	MANGANESE	0.0000158	0.0005	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 3 of 18

124 of 609

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB3

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 4:23:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000014	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-96-5	MANGANESE	0.0000158	0.0005	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 4 of 18

125 of 609

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB4

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 5:10:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000048	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-96-5	MANGANESE	0.00004	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 5 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB5

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 6:05:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.00006	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-96-5	MANGANESE	0.000025	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 6 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB6

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 6:50:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.00003	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-96-5	MANGANESE	0.0000158	0.0005	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 7 of 18

128 of 609

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB7

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 8:03:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000026	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000018	0.0002	J
7439-96-5	MANGANESE	0.000018	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 8 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB8

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 8:35:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.00003	0.0002	J
7439-96-5	MANGANESE	0.00002	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 9 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB9

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 9:20:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000025	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000025	0.0002	J
7439-96-5	MANGANESE	0.000017	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 10 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB10

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 10:08:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000052	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000026	0.0002	J
7439-96-5	MANGANESE	0.000016	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 11 of 18

132 of 609

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB11

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 10:52:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000749	0.01	J
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000024	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000029	0.0002	J
7439-96-5	MANGANESE	0.000017	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 12 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB12

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Time Analyzed: 11:40:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.00123	0.01	J
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000026	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000023	0.0002	J
7439-96-5	MANGANESE	0.000017	0.0005	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0207	0.1	J
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 13 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB13

QC Type: Continuing Calibration

Run ID: IM170614-10A18

Date Analyzed: 06/15/2017

Time Analyzed: 12:48:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.00188	0.01	J
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.000018	0.0005	J
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	-0.000034	0.0002	J
7439-96-5	MANGANESE	0.0000158	0.0005	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0319	0.1	J
7440-24-6	STRONTIUM	0.0000216	0.0005	U
7440-28-0	THALLIUM	0.0000014	0.00001	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 14 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 5:59:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 15 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 6:25:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 16 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 7:42:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 17 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Lab ID: CCB3

QC Type: Continuing Calibration

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Time Analyzed: 8:52:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-92-1	LEAD	0.000015	0.0002	J
7439-98-7	MOLYBDENUM	0.0000325	0.0002	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-29-1	THORIUM	0.0000014	0.00002	U
7440-61-1	URANIUM	1.21E-06	0.00001	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

Page 18 of 18

LIMS Version: 6.843

ICPMS Metals

Method SW6020

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7429-90-5	ALUMINUM	10	10.5	9.39000	10.1000	96
7440-38-2	ARSENIC		0.01		0.01020	102
7440-39-3	BARIUM		0.01		0.01070	107
7440-43-9	CADMIUM		0.003		0.00295	98
7440-48-4	COBALT		0.01		0.01020	102
7440-50-8	COPPER		0.1		0.10300	103
7439-92-1	LEAD		0.005		0.00513	103
7439-96-5	MANGANESE		0.02		0.021	105
7439-98-7	MOLYBDENUM	0.2	0.21	0.20700	0.22100	105
7782-49-2	SELENIUM		0.01		0.00993	99
7440-22-4	SILVER		0.001		0.00101	101
7440-23-5	SODIUM	25	35	25.4	36	103
7440-24-6	STRONTIUM		0.01		0.01070	107
7440-28-0	THALLIUM		0.0002		0.00021	102
7440-29-1	THORIUM		0.001		0.00102	102
7440-61-1	URANIUM		0.001		0.00103	103
7440-66-6	ZINC		0.2		0.20100	101

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 1 of 3

ICPMS Metals

Method SW6020

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IM170614-10A18

Date Analyzed: 06/14/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA2	ICSAB2	ICSA2	ICSAB2	
7429-90-5	ALUMINUM	10	10.5	9.57	10.4	99
7440-38-2	ARSENIC		0.01		0.01030	103
7440-39-3	BARIUM		0.01		0.01090	109
7440-43-9	CADMIUM		0.003		0.00296	98
7440-48-4	COBALT		0.01		0.0101	101
7440-50-8	COPPER		0.1		0.10400	104
7439-92-1	LEAD		0.005		0.00505	101
7439-96-5	MANGANESE		0.02		0.0212	106
7439-98-7	MOLYBDENUM	0.2	0.21	0.20800	0.22100	105
7782-49-2	SELENIUM		0.01		0.01	100
7440-22-4	SILVER		0.001		0.00102	102
7440-23-5	SODIUM	25	35	25.9	36.7000	105
7440-24-6	STRONTIUM		0.01		0.01070	107
7440-28-0	THALLIUM		0.0002		0.00021	105
7440-29-1	THORIUM		0.001		0.00104	104
7440-61-1	URANIUM		0.001		0.00104	104
7440-66-6	ZINC		0.2		0.203	101

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 2 of 3

ICPMS Metals

Method SW6020

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Run ID: IM170615-10A11

Date Analyzed: 06/15/2017

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7429-90-5	ALUMINUM	10	10.5	8.86	9.48	90
7440-38-2	ARSENIC		0.01		0.0101	101
7440-43-9	CADMIUM		0.003		0.00286	95
7440-48-4	COBALT		0.01		0.00965	97
7440-50-8	COPPER		0.1		0.102	102
7439-92-1	LEAD		0.005		0.00508	102
7439-98-7	MOLYBDENUM	0.2	0.21	0.198	0.20900	100
7782-49-2	SELENIUM		0.01		0.00975	98
7440-22-4	SILVER		0.001		0.00098	98
7440-29-1	THORIUM		0.001		0.00101	101
7440-61-1	URANIUM		0.001		0.001	100
7440-66-6	ZINC		0.2		0.197	99

Data Package ID: IM1706286-1

Date Printed: Thursday, July 27, 2017

ALS -- Fort Collins

LIMS Version: 6.843

Page 3 of 3

Metals Linear Ranges

Lab Name: ALS -- Fort Collins

Work Order Number: 1706286

Client Name: COGCC

ClientProject ID: PW NORM 2017 10048

Instrument ID: ICPMS2

Active Date: 03/14/2016

Expiration Date: 06/12/2020

CASNO	Target Analyte	Concentration (ppm)
7429-90-5	ALUMINUM	50
7440-38-2	ARSENIC	1
7440-39-3	BARIUM	1
7440-41-7	BERYLLIUM	0.5
7440-42-8	BORON	10
7440-43-9	CADMIUM	0.3
7440-70-2	CALCIUM	500
7440-47-3	CHROMIUM	5
7440-48-4	COBALT	1
7440-50-8	COPPER	10
7439-89-6	IRON	50
7439-92-1	LEAD	0.5
7439-93-2	LITHIUM	10
7439-95-4	MAGNESIUM	100
7439-96-5	MANGANESE	2
7439-98-7	MOLYBDENUM	1
7440-02-0	NICKEL	5
7440-09-7	POTASSIUM	500
7782-49-2	SELENIUM	1
7440-22-4	SILVER	0.1
7440-23-5	SODIUM	1000
7440-24-6	STRONTIUM	1
7440-28-0	THALLIUM	0.02
7440-29-1	THORIUM	0.1
7440-61-1	URANIUM	0.1
7440-62-2	VANADIUM	1
7440-66-6	ZINC	20

ICPMS2 Run Log -- 6/14/2017

Instrument ID: ICPMS2
 File Name: 001CALB.
 AnalRunID: IM170614-10A1
 CalibRefID: IM170614-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		blank	1	6/14/2017	10:01
		blank	1	6/14/2017	10:07
		blank	1	6/14/2017	10:13
		blank	1	6/14/2017	10:19
		H/1000	1	6/14/2017	10:25
		H/100	1	6/14/2017	10:28
		H/10	1	6/14/2017	10:31
		HIGH	1	6/14/2017	10:37
		ICV	1	6/14/2017	10:51
		ICB	1	6/14/2017	10:57
		LIV	1	6/14/2017	11:03
		ICSA1	1	6/14/2017	11:06
		ICSAB1	1	6/14/2017	11:12
		CCV1	1	6/14/2017	11:18
		CCB1	1	6/14/2017	11:24
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705538-14	100	6/14/2017	14:51
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		IP170612-2RBMB	10	6/14/2017	14:57
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		IP170612-2MB	10	6/14/2017	15:03
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		IM170612-2LCS	10	6/14/2017	15:09
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		IM170612-2LCSD	10	6/14/2017	15:15
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705316-1	10	6/14/2017	15:21
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705316-2	10	6/14/2017	15:29
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705316-3	10	6/14/2017	15:35
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705316-4	10	6/14/2017	15:38
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705316-5	10	6/14/2017	15:44
		CCV2	1	6/14/2017	15:50
		CCB2	1	6/14/2017	15:56
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705541-6	10	6/14/2017	15:59
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1705541-6SER	50	6/14/2017	16:02
		LCV1	1	6/14/2017	16:14
		CCV3	1	6/14/2017	16:17
		CCB3	1	6/14/2017	16:23
		IP170613-1MB	10	6/14/2017	16:25
		IM170613-1LCS	10	6/14/2017	16:28
		1705533-2	10	6/14/2017	16:34

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/14/2017

Instrument ID: ICPMS2

File Name: 035SMPL_

AnalRunID: IM170614-10A1

CalibRefID: IM170614-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		1705533-2SER	50	6/14/2017	16:37
		1705533-2DUP	10	6/14/2017	16:40
		1705533-2MS	10	6/14/2017	16:43
		1705533-2MSD	10	6/14/2017	16:46
		1705533-2A	10	6/14/2017	16:52
		1705542-7	10	6/14/2017	16:58
		CCV4	1	6/14/2017	17:04
		CCB4	1	6/14/2017	17:10
		1705542-8	10	6/14/2017	17:24
		1705542-9	10	6/14/2017	17:27
		1705542-10	10	6/14/2017	17:30
		1705542-11	10	6/14/2017	17:33
		1705542-12	10	6/14/2017	17:36
		1705542-13	10	6/14/2017	17:39
		1705542-14	10	6/14/2017	17:42
		1705542-15	10	6/14/2017	17:45
		1706115-1	10	6/14/2017	17:48
		1706115-3	10	6/14/2017	17:51
		CCV5	1	6/14/2017	17:57
		CCB5	1	6/14/2017	18:05
		1706115-4	10	6/14/2017	18:08
		1706115-5	10	6/14/2017	18:11
		1706115-6	10	6/14/2017	18:14
		1706115-7	10	6/14/2017	18:17
		1706115-8	10	6/14/2017	18:20
		1706118-1	10	6/14/2017	18:23
		1706118-2	10	6/14/2017	18:26
		1706118-3	10	6/14/2017	18:29
		LCV2	1	6/14/2017	18:41
		CCV6	1	6/14/2017	18:44
		CCB6	1	6/14/2017	18:50
		ZZZ	1	6/14/2017	18:59
		IP170613-2MB	10	6/14/2017	19:06
		IM170613-2LCS	10	6/14/2017	19:12
		1705603-1	10	6/14/2017	19:15

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/14/2017

Instrument ID: ICPMS2

File Name: 072SMPL_

AnalRunID: IM170614-10A1

CalibRefID: IM170614-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		1705603-1SER	50	6/14/2017	19:18
		1705603-1DUP	10	6/14/2017	19:21
		1705603-1MS	10	6/14/2017	19:24
		1705603-1MSD	10	6/14/2017	19:27
		1705603-2	10	6/14/2017	19:33
		1705603-3	10	6/14/2017	19:36
		1705603-4	10	6/14/2017	19:39
		ICSA2	1	6/14/2017	19:45
		ICSAB2	1	6/14/2017	19:51
		CCV7	1	6/14/2017	19:57
		CCB7	1	6/14/2017	20:03
		1705603-5	10	6/14/2017	20:06
		1705603-6	10	6/14/2017	20:09
		1705603-7	10	6/14/2017	20:12
		1706221-1	10	6/14/2017	20:15
		LCV3	1	6/14/2017	20:26
		CCV8	1	6/14/2017	20:29
		CCB8	1	6/14/2017	20:35
		FP170613-3MB	10	6/14/2017	20:38
		IP170613-3MB	10	6/14/2017	20:41
		IM170613-3LCS	10	6/14/2017	20:44
		1706070-1	10	6/14/2017	20:50
		1706070-2	10	6/14/2017	20:53
		1706087-1	10	6/14/2017	20:56
		1706089-1	10	6/14/2017	20:59
		1706089-1SER	50	6/14/2017	21:02
		1706089-1DUP	10	6/14/2017	21:05
		1706089-1MS	10	6/14/2017	21:08
		CCV9	1	6/14/2017	21:14
		CCB9	1	6/14/2017	21:20
		1706089-1MSD	10	6/14/2017	21:23
		1706089-2	10	6/14/2017	21:29
		1706089-3	10	6/14/2017	21:32
		1706089-4	10	6/14/2017	21:35
		1706125-1	10	6/14/2017	21:38

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/14/2017

Instrument ID: ICPMS2
 File Name: 108SMPL_
 AnalRunID: IM170614-10A1
 CalibRefID: IM170614-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		1706125-2	10	6/14/2017	21:41
		1706126-1	10	6/14/2017	21:47
		1706126-2	10	6/14/2017	21:50
		1706126-3	10	6/14/2017	21:53
		1706126-4	10	6/14/2017	21:56
		CCV10	1	6/14/2017	22:02
		CCB10	1	6/14/2017	22:08
		1706153-1	10	6/14/2017	22:11
		1706153-3	10	6/14/2017	22:14
		1706192-1	10	6/14/2017	22:19
		1706197-1	10	6/14/2017	22:22
		1706236-1	10	6/14/2017	22:25
		1706236-2	10	6/14/2017	22:28
		1706236-3	100	6/14/2017	22:31
		LCV4	1	6/14/2017	22:43
		CCV11	1	6/14/2017	22:46
		CCB11	1	6/14/2017	22:52
		FP170614-3MB	10	6/14/2017	22:55
		IP170614-3MB	10	6/14/2017	22:58
		IM170614-3LCS	10	6/14/2017	23:01
		1705515-1	10	6/14/2017	23:07
		1705515-1SER	50	6/14/2017	23:10
		1705515-1DUP	10	6/14/2017	23:13
		1705515-1MS	10	6/14/2017	23:16
		1705515-1MSD	10	6/14/2017	23:19
		1705515-3	10	6/14/2017	23:25
Ag,Al,As,Cd,Co,Cu,Mo,Pb,Se,Sr,Th,U,Zn		1706185-1	100	6/14/2017	23:28
		CCV12	1	6/14/2017	23:34
		CCB12	1	6/14/2017	23:40
Ag,Al,As,Cd,Co,Cu,Mo,Pb,Se,Sr,Th,U,Zn		1706185-3	100	6/14/2017	23:43
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Ce,Co,Cr,Cu,Fe,Ga,In,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1706193-1	100	6/14/2017	23:48
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Ce,Co,Cr,Cu,Fe,Ga,In,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sc,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1706193-2	100	6/14/2017	23:54
		1706201-1	10	6/15/2017	00:00
		1706271-1	100	6/15/2017	00:03
Ag,Al,As,Cd,Co,Cu,Mo,Pb,Se,Sr,Th,U,Zn		1706271-2	100	6/15/2017	00:09

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/15/2017

Instrument ID: ICPMS2

File Name: 144SMPL_

AnalRunID: IM170614-10A1

CalibRefID: IM170614-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
Ag,Al,As,Cd,Co,Cu,Mo,Pb,Se,Th,U,Zn	755652 Coalview	1706286-1	100	6/15/2017	00:15
Ag,Al,As,Cd,Co,Cu,Mo,Pb,Se,Th,U,Zn	755653 Oscar Y	1706286-3	100	6/15/2017	00:21
		LCV5	1	6/15/2017	00:39
		CCV13	1	6/15/2017	00:42
		CCB13	1	6/15/2017	00:48

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/15/2017

Instrument ID: ICPMS2
 File Name: 001CALB.
 AnalRunID: IM170615-10A1
 CalibRefID: IM170615-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		blank	1	6/15/2017	17:10
		blank	1	6/15/2017	17:15
		blank	1	6/15/2017	17:21
		blank	1	6/15/2017	17:27
		H/1000	1	6/15/2017	17:33
		H/100	1	6/15/2017	17:36
		H/10	1	6/15/2017	17:39
		HIGH	1	6/15/2017	17:45
		ICV	1	6/15/2017	17:53
		ICB	1	6/15/2017	17:59
		LIV	1	6/15/2017	18:05
		ICSA1	1	6/15/2017	18:08
		ICSAB1	1	6/15/2017	18:14
		CCV1	1	6/15/2017	18:19
		CCB1	1	6/15/2017	18:25
		1706270-1	100	6/15/2017	18:28
		1706270-2	100	6/15/2017	18:34
		1706270-3	100	6/15/2017	18:40
		1706275-2	100	6/15/2017	18:52
		1706275-3	100	6/15/2017	18:58
		1706149-1	1	6/15/2017	19:10
		1706275-1	100	6/15/2017	19:16
		ZZZ	1	6/15/2017	19:27
		LCV1	1	6/15/2017	19:33
		CCV2	1	6/15/2017	19:36
		CCB2	1	6/15/2017	19:42
		1706149-1	10	6/15/2017	19:47
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sc,Se,Sn,Th,Ti,Tl,U,V,Y,Zn		1706185-1	1000	6/15/2017	19:50
- B,Ba,Be,Ca,Ce,Cr,Fe,K,La,Li,Mg,Mn,Na,Nd,Ni,Pr,Sb,Sc,Sn,Sr,Ti,Tl,V,Y		1706185-1	10	6/15/2017	19:53
- B,Ba,Be,Ca,Ce,Cr,Fe,K,La,Li,Mg,Mn,Na,Nd,Ni,Pr,Sb,Sc,Sn,Ti,Tl,V,Y		1706185-3	10	6/15/2017	19:56
		1706193-1	10	6/15/2017	19:59
		1706193-2	10	6/15/2017	20:02
		ZZZ	10	6/15/2017	20:05
- B,Ba,Be,Ca,Ce,Cr,Fe,K,La,Li,Mg,Mn,Na,Nd,Ni,Pr,Sb,Sc,Sn,Ti,Tl,V,Y		1706271-2	10	6/15/2017	20:08
- B,Ba,Be,Ca,Ce,Cr,Fe,K,La,Li,Mg,Mn,Na,Nd,Ni,Pr,Sb,Sc,Sn,Ti,Tl,V,Y	755652 Coalview	1706286-1	10	6/15/2017	20:11

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/15/2017

Instrument ID: ICPMS2

File Name: 031SMPL_

AnalRunID: IM170615-10A1

CalibRefID: IM170615-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
- B,Ba,Be,Ca,Ce,Cr,Fe,K,La,Li,Mg,Mn,Na,Nd,Ni,Pr,Sb,Sc,Sn,Ti,V,Y	755653 Oscar Y	1706286-3	10	6/15/2017	20:14
		ZZZ	1	6/15/2017	20:25
		ZZZ	1	6/15/2017	20:31
		LCV2	1	6/15/2017	20:43
		CCV3	1	6/15/2017	20:46
		CCB3	1	6/15/2017	20:52
- Na		IP170614-2MB	10	6/15/2017	20:55
- Na		IM170614-2LCS	10	6/15/2017	20:58
		1705328-1	10	6/15/2017	21:04
		1705328-1SER	50	6/15/2017	21:07
		1705328-1DUP	10	6/15/2017	21:10
		1705328-1MS	10	6/15/2017	21:13
		1705328-1MSD	10	6/15/2017	21:16
		1705328-1A	10	6/15/2017	21:22
		1705328-2	10	6/15/2017	21:28
		1705328-3	10	6/15/2017	21:31
		CCV4	1	6/15/2017	21:37
		CCB4	1	6/15/2017	21:42
		1705328-4	10	6/15/2017	21:45
		1705328-5	10	6/15/2017	21:48
		1705328-6	10	6/15/2017	21:54
		1705328-7	10	6/15/2017	21:57
		1705328-8	10	6/15/2017	22:03
		1705328-9	10	6/15/2017	22:09
		1705577-2	10	6/15/2017	22:12
		1705577-2SER	50	6/15/2017	22:15
		1705577-2DUP	10	6/15/2017	22:18
		1705577-2MS	10	6/15/2017	22:21
		CCV5	1	6/15/2017	22:27
		CCB5	1	6/15/2017	22:33
		1705577-2MSD	10	6/15/2017	22:36
		1705577-2A	10	6/15/2017	22:42
- Na		1705610-1	10	6/15/2017	22:48
- Na		1705610-2	10	6/15/2017	22:51
- Na		1705610-3	10	6/15/2017	22:54

Data Package ID: IM1706286-1

ICPMS2 Run Log -- 6/15/2017

Instrument ID: ICPMS2

File Name: 068SMPL_

AnalRunID: IM170615-10A1

CalibRefID: IM170615-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
- Na		1705610-4	10	6/15/2017	23:00
- Na		1705610-6	10	6/15/2017	23:02
		1706119-1	10	6/15/2017	23:08
		1706119-2	10	6/15/2017	23:11
		1706210-2	10	6/15/2017	23:17
		CCV6	1	6/15/2017	23:23
		CCB6	1	6/15/2017	23:29
		1706216-1	10	6/15/2017	23:32
		1706219-1	10	6/15/2017	23:35
		LCV3	1	6/15/2017	23:47
		CCV7	1	6/15/2017	23:50
		CCB7	1	6/15/2017	23:56
		1706079-1	10	6/15/2017	23:59
		1706079-2	10	6/16/2017	00:05
- Na,U		1706080-1	10	6/16/2017	00:11
- Mg,Na,Sr		1706080-2	10	6/16/2017	00:14
- Sr		1706082-1	10	6/16/2017	00:17
- Mg,Sr		1706083-1	10	6/16/2017	00:23
- Sr		1706175-1	10	6/16/2017	00:26
- Sr		1706175-2	10	6/16/2017	00:31
		1706176-1	10	6/16/2017	00:34
		1706177-1	10	6/16/2017	00:40
		CCV8	1	6/16/2017	00:46
		CCB8	1	6/16/2017	00:52

Data Package ID: IM1706286-1

Raw Data

HEADER INFORMATION FOR ANALYTICAL SEQUENCE 170620A

Instrument: Trace2

Analyst: Steve Workman

Analysis Date: 06/20/2017

STANDARD SOLUTION CODES

Stock A (ST150604-1) Exp. 4-30-2020		
<u>Element</u>		<u>ug/ml</u>
Al, Ca, Mg		1000
K		500
Na		300
Fe		400
Li		20
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
A1	1/2 of Stock A	5ml of Stock A to 10ml final volume.
A2	1/2.5 of Stock A1	2ml of Stock A1 to a 5ml final volume.
A3	1/5 of Stock A1	1ml of Stock A1 to a 5ml final volume.
A4	1/10 of A1	1ml of Standard A1 up to a 10ml final volume.
A5	1/10 of A4	1ml of Standard A4 up to a 10ml final volume.
Stock B (ST170420-2) Exp. 04-30-2018		
<u>Element</u>		<u>ug/ml</u>
P, Si		100
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Sn, Sr, Ti, Zn		20
As, Cd, Co, Se, Tl, V		10
Sb		4
Be		2
Stock Ag- 1000 ug/ml (ST170531-1) Exp. 5-31-22		
The following dilutions of Stock Ag and Stock B are made to provide the daily calibration Standards.		
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
B1	1/2 of Stock B	5ml of Stock B, 0.02ml of Stock Ag
	1/500 Ag	up to a 10ml final volume.
B2	1/10 of B1	1.0ml of Standard B1 up to a 10ml final volume.
B3	1/10 of B2	1.0ml of Standard B2 up to a 10ml final volume.
Stock C (ST150701-1) Exp. 7/31/18		
<u>Element</u>		<u>ug/ml</u>
S, U		100
Bi, Zr		10
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
C1	1/2 of Stock C	5ml of Stock C up to a 10ml final volume.
C2	1/10 of C1	1.0ml of Standard C1 up to a 10ml final volume.
C3	1/10 of C2	1.0ml of Standard C2 up to a 10ml final volume.
RL STD (Reporting Limit Standard) Intermediate. (ST170322-2) Exp. 7-31-2018		
<u>Element</u>		<u>ug/ml</u>
K, Na		500
Ca, Mg		200
Al, U		100
B, Fe, P, S, Si		50
Li, Mo, Sn, Sr, Ti		10
Sb		8
Ni, As, Bi, Se, Tl, Zn, Zr		5
Pb		3
Ag, Ba, Co, Cr, Cu, Mn, V, Th		2
Be, Cd		1

RL STD (working standard) made daily by diluting the intermediate above 1000 fold. This working standard has concentration levels at the normal ALS-FC reporting limits for all elements except Ca, Mg and Na, K which are at 0.2ppm and 0.5ppm; this is below the normal ALS-FC reporting limit.

RL2 (working standard) made daily by diluting the intermediate above 333 fold.

Blank Solution

Double D.I. water, 3% HNO₃ and 5%HCl
Used for Std. Blank, ICB and CCB

CCV (ST170605-4) Exp. 10-19-2017	
<u>Element</u>	<u>ug/ml</u>
Al, Ca, Mg, K, Na	50
Fe	20
U, P, S, Si	5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	1
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.5
Ag, Th	0.2

ICV (ST170605-4) Exp. 10-19-2017

Prepared daily by diluting the CCV (described above) ½.
The 1/2 dilution is made by diluting 5ml of the CCV to a 10ml final volume.
The resulting concentrations are:

<u>Element</u>	<u>ug/ml</u>
Al, Ca, Mg, K, Na	25
Fe	10
U, P, S, Si	2.5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	0.5
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.25
Ag, Th	0.1

CRI (ST170605-3) Exp. 10-19-2017

Made By diluting
1.0ml of CRI Stock (ST170605-2) Exp. 10-19-2017
to a 100ml final volume.

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, K, Na	5.0
Al, B, Ba	0.4
Fe, U, P, S	0.2
Sb	0.12
Co, Si, Sn, V, Th	0.1
Ni	0.08
Cu, Bi, Zr	0.05
Zn	0.04
Mn	0.03
Ag, Cr, Li, Mo, Sr, Ti, Tl	0.02
Be, Cd, As, Se,	0.01
Pb	0.006

ICSA (ST170601-6)

Exp. 06-01-18

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, Al	250
Fe	100

ICSAB (ST170602-1) Exp. 10-19-17

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, Al	250

Fe	100
U	10
B, Si, Li, Mo, Sn, Sr, Ti, Cd, Zn, Ni, P, S	1.0
Sb	0.6
Ba, Be, Co, V, Cr, Cu, Mn, Bi, Zr	0.5
Ag	0.2
As, Tl	0.1
Se, Pb, Th	0.05

Pipette ID Numbers

1.0ml to 5.0ml --- M-88
0.1ml to 1.0ml --- M-86
0.01ml to 0.1ml --- M-56

Acid Lot Numbers

HCl – J35042
HNO₃ – J41037

Inter Element Correction Information

The following table summarizes spectral interferences that have been identified and for which IEC's are used. If a sample contains a concentration of an interfering element that exceeds the upper analytical range, and an affected element is being determined, it is necessary to dilute the sample to bring the interfering element into analytical range.

<u>Interfering Element (ug/ml)</u>	<u>Affected Element</u>
Al (500)	Pb
Mg (500)	Th
Fe (200)	Se, Tl, V, Pb, U
Si (50)	Zr
U (50)	Al, Cr, Cu, Bi, Pb, Se, Ag, Tl, Si, Be
Ba (10)	Co
Cr (10)	Sb
Cu (10)	Bi
Mn (10)	Tl
Mo (10)	Al, Si, Pb, Sb
Ti (10)	Co, Bi, Si, Sn, Tl, Pb, Zr
As (5)	Cd
V (5)	Al, Be, Tl
Zr (5)	Ag

The following table lists element concentrations (ug/ml) that no significant spectral interferences have been observed.

<u>Element</u>	<u>Concentration</u>	<u>Element</u>	<u>Concentration</u>	<u>Element</u>	<u>Concentration</u>
K	500	Se	10	Li	5
Na	500	Pb	10	Cd	5
Ca	500	Zn	10	Co	5
P	50	Sr	10	Ag	2
S	50	Sn	10	Sb	2
Ni	10	Bi	5	Be	1
B	10	Tl	5		

2X – Dilution made by diluting 2.5ml of sample up to a 5ml final volume.
3X - Dilution made by diluting 2.0ml of sample up to a 6ml final volume.
4X - Dilution made by diluting 2.0ml of sample up to a 8ml final volume.
5X - Dilution made by diluting 1.0ml of sample to a 5ml final volume.
10X - Dilution made by diluting 0.5ml of sample to a 5ml final volume.
20X – Dilution made by diluting 0.25ml of sample to a 5ml final volume.
25X – Dilution made by diluting 0.2ml of sample to a 5ml final volume.

50X – Dilution made by diluting 0.1ml of sample to a 5ml final volume.

100X – Dilution made by diluting 0.05ml of sample to a 5ml final volume.

1000X – Dilution made by diluting a 10X dilution 100X.

Comments

1. Please see run log and work orders for elements of interest.

Daily Maintenance

1. Check/ Change Peristaltic pump tubing.
2. Check the torch for deposits, clean if necessary.
3. Check/ Empty drain water.

Daily Maintenance done by _____ SMW _____.

Monthly Maintenance

1. Check/Clean nebulizer and spray chamber.
2. Clean air filters
3. Check/Clean entrance slit.
4. Fill water re-circulating reservoir.

Monthly maintenance done by: SMW 06-14-2017

Major problems / adjustments / repairs recorded in the ICP Maintenance Log (3716).

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
MIXAHIGH	0.0001	495.0604	-0.0031	-0.0055	0.0021	0.0009	0.0108	494.3823	0.0003	0.0006	-0.0010	-0.0081
MIXBHIGH	2.0080	0.0539	5.0267	10.0455	10.0298	0.9927	0.0074	-0.0774	5.0013	5.0127	10.0270	10.0538
MIXCHIGH	-0.0061	0.3552	0.0002	0.0225	0.0012	-0.0001	4.9664	-0.0946	-0.0007	0.0067	-0.0097	0.0052
ICV	0.1001	25.6295	0.2573	0.5053	0.5044	0.2545	0.2494	25.6272	0.2480	0.2425	0.5072	0.4997
ICB	-0.0005	-0.0173	0.0026	-0.0028	-0.0003	-0.0002	-0.0038	0.0076	-0.0004	-0.0005	-0.0011	0.0003
CRI	0.0206	0.4370	0.0109	0.4250	0.4363	0.0106	0.0509	5.4168	0.0103	0.1047	0.0210	0.0547
LIV	0.0098	0.1873	0.0313	0.0996	0.1055	0.0052	0.0187	1.0538	0.0046	0.0193	0.0103	0.0211
ICSA	-0.0002	257.8535	-0.0004	-0.0042	0.0011	0.0004	-0.0005	255.0631	0.0001	0.0001	-0.0009	-0.0022
ICSAB	0.2039	255.2212	0.1061	1.0089	0.5271	0.4915	0.4829	252.0009	1.0004	0.4698	0.4870	0.5337
CCV	0.1965	50.4105	0.4941	0.9986	0.9882	0.4899	0.4882	49.8887	0.4844	0.4696	0.9786	0.9821
CCB	0.0003	-0.0120	0.0037	-0.0004	-0.0001	-0.0002	0.0015	0.0139	-0.0001	0.0000	-0.0002	0.0007
IP170613-1MB	-0.0009	-0.0107	0.0018	-0.0029	-0.0003	-0.0002	-0.0021	0.0144	-0.0003	-0.0005	-0.0007	-0.0003
IP170613-1LCS	0.0010	1.9545	0.9447	0.0931	1.0080	0.0492	0.0008	38.3123	0.4755	0.4703	0.2010	0.2631
1705533-2	-0.0014	118.4420	0.0193	0.0511	1.2043	0.0078	0.0113	301.0138	-0.0001	0.1563	0.2805	0.2227
1705533-2D	-0.0011	116.7713	0.0226	0.0519	1.0392	0.0071	0.0145	247.0195	0.0004	0.1360	0.2785	0.2172
1705533-2L 5X	-0.0014	23.9675	0.0068	0.0084	0.2456	0.0016	-0.0016	59.8438	-0.0002	0.0322	0.0589	0.0439
1705533-2MS	-0.0013	135.0668	0.9720	0.1539	2.0243	0.0563	0.0117	272.8070	0.4826	0.5915	0.4861	0.4603
1705533-2MSD	-0.0014	139.7110	0.9858	0.1595	2.0476	0.0573	0.0121	259.0540	0.4894	0.6037	0.4954	0.4651
1705533-2A	-0.0005	113.7634	0.9608	0.1487	2.1166	0.0544	0.0135	315.1669	0.4700	0.5940	0.4686	0.4724
1705533-2 2X	-0.0004	59.2386	0.0154	0.0254	0.6078	0.0040	0.0124	147.7438	-0.0001	0.0803	0.1431	0.1115
1705533-2D 2X	-0.0013	58.8020	0.0117	0.0245	0.5264	0.0037	0.0051	123.1014	0.0000	0.0692	0.1432	0.1081
CCV	0.1973	50.6476	0.4974	1.0026	0.9943	0.4915	0.4891	49.8357	0.4849	0.4703	0.9802	0.9850
CCB	0.0001	-0.0014	-0.0026	-0.0028	0.0001	-0.0001	0.0043	0.0302	-0.0002	-0.0002	-0.0005	0.0012
1705533-2L 10X	0.0002	11.9066	0.0035	0.0031	0.1236	0.0006	0.0058	29.7853	-0.0002	0.0167	0.0300	0.0226
1705533-2MS 2X	0.0000	68.1028	0.5000	0.0778	1.0306	0.0291	0.0063	136.8735	0.2441	0.3072	0.2528	0.2286
1705533-2MSD 2X	-0.0009	71.7282	0.5102	0.0803	1.0601	0.0298	0.0044	130.6462	0.2486	0.3138	0.2586	0.2345
FP170613-3MB	-0.0006	-0.0234	0.0014	-0.0036	0.0001	-0.0002	-0.0006	0.0522	-0.0007	-0.0001	-0.0004	0.0011
IP170613-3MB	-0.0009	-0.0157	0.0041	-0.0051	0.0001	-0.0001	-0.0005	0.0506	-0.0004	0.0001	-0.0004	-0.0003
IP170613-3LCS	0.1013	2.0381	1.0248	0.1019	1.0301	0.0516	-0.0002	39.7368	0.4955	0.4876	0.2051	0.2597
1706089-1	-0.0008	-0.0109	0.0069	0.0316	0.0645	-0.0001	0.0044	89.6122	-0.0001	-0.0002	0.0065	0.0006
1706089-1D	-0.0002	-0.0059	0.0088	0.0331	0.0653	0.0000	0.0004	91.7460	-0.0001	-0.0003	0.0068	0.0003
1706089-1L 5X	-0.0011	-0.0136	-0.0012	0.0027	0.0125	-0.0001	-0.0009	17.7844	-0.0001	-0.0005	0.0008	0.0003
1706089-1MS	0.1009	1.9655	1.0122	0.1414	1.0733	0.0502	0.0064	130.5600	0.4884	0.4710	0.2045	0.2584
CCV	0.1961	50.4208	0.4915	0.9976	0.9925	0.4896	0.4863	49.5144	0.4805	0.4687	0.9730	0.9800
CCB	-0.0004	0.0025	0.0027	-0.0024	0.0000	0.0000	0.0003	0.0358	-0.0002	-0.0002	-0.0004	0.0004
1706089-1MSD	0.0999	1.9373	1.0086	0.1387	1.0785	0.0504	0.0005	131.0751	0.4823	0.4718	0.2067	0.2542
1706089-2	-0.0008	-0.0310	0.0044	0.0331	0.0672	-0.0002	-0.0016	92.7608	0.0000	0.0000	0.0069	0.0013
1706089-3	-0.0007	-0.0247	0.0079	0.0053	0.0366	-0.0002	0.0001	48.4394	-0.0003	0.0002	0.0016	0.0012
1706089-4	-0.0011	-0.0037	0.0039	0.0049	0.0375	-0.0002	-0.0023	48.5703	-0.0003	-0.0005	0.0150	0.0027
1706126-1	0.0000	-0.0323	0.0049	0.0049	0.0685	-0.0002	0.0003	118.4057	0.0000	0.0004	0.0043	0.0010
1706126-2	0.0004	-0.0274	0.0105	0.0071	0.0723	-0.0002	-0.0007	117.8552	-0.0002	0.0002	0.0115	0.0015
1706126-3	0.0002	-0.0307	0.0077	0.0062	0.0669	-0.0002	0.0051	108.6280	0.0002	0.0002	0.0022	0.0021
1706126-4	-0.0002	-0.0323	0.0072	0.0061	0.0666	-0.0002	-0.0034	108.8080	0.0000	0.0000	0.0028	0.0027
1706236-1	0.0002	11.6392	0.0063	0.5582	0.1745	0.0007	-0.0027	83.7225	-0.0001	0.0037	0.0103	0.0098
1706236-2	-0.0004	19.1200	0.0138	0.2857	0.4031	0.0011	0.0070	109.2556	0.0003	0.0292	0.0366	0.0304
CCV	0.1970	50.9723	0.4972	1.0021	1.0051	0.4927	0.4908	49.7215	0.4806	0.4708	0.9813	0.9885
CCB	-0.0001	0.0058	-0.0004	-0.0027	0.0003	0.0000	-0.0025	0.0482	0.0000	0.0001	-0.0003	0.0014
1706236-3	-0.0089	838.7607	0.4037	0.5031	18.8945	0.1108	0.1120	1068.4903	0.0249	0.5238	0.6581	0.8815
1706236-1 10X	0.0004	1.1660	0.0023	0.0507	0.0190	-0.0001	0.0011	8.5453	0.0002	0.0012	0.0012	0.0027
1706236-2 10X	-0.0007	1.9086	0.0040	0.0237	0.0413	-0.0001	0.0001	10.9285	-0.0003	0.0025	0.0027	0.0034

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
1706236-3 10X	-0.0017	85.7741	0.0450	0.0523	2.0796	0.0129	0.0112	112.7547	0.0025	0.0608	0.0775	0.0872
IP170614-2MB	0.0003	-0.0291	0.0022	-0.0037	-0.0003	-0.0003	0.0033	0.0151	-0.0001	-0.0002	-0.0002	0.0011
IP170614-2LCS	0.0004	1.9677	0.9557	0.0936	1.0306	0.0498	0.0009	38.5389	0.4738	0.4778	0.2042	0.2648
1705328-1	-0.0019	47.5768	0.0231	0.0093	0.9011	0.0058	0.0093	22.7130	0.0012	0.0342	0.0499	0.0630
1705328-1D	-0.0016	47.2110	0.0189	0.0111	0.9343	0.0057	0.0057	27.6566	0.0007	0.0333	0.0528	0.0608
1705328-1L 5X	0.0003	9.2745	0.0045	-0.0005	0.1767	0.0010	0.0026	4.5587	0.0001	0.0072	0.0101	0.0128
1705328-1MS	-0.0016	80.8521	1.0075	0.1077	2.0173	0.0580	0.0040	70.5965	0.4940	0.5288	0.2651	0.3415
CCV	0.1992	51.4973	0.5025	1.0107	1.0146	0.4981	0.4889	50.2847	0.4838	0.4753	0.9917	0.9976
CCB	-0.0006	-0.0065	-0.0024	-0.0037	0.0001	-0.0001	-0.0043	0.0382	-0.0004	-0.0008	-0.0006	0.0008
1705328-1MSD	-0.0009	78.8733	1.0021	0.1044	2.0229	0.0578	0.0030	61.7502	0.4893	0.5290	0.3712	0.3404
1705328-2	-0.0025	37.7523	0.0268	0.0127	0.8273	0.0048	0.0046	64.9619	0.0008	0.0233	0.0412	0.0528
1705328-3	-0.0017	52.0036	0.0192	0.0120	1.0200	0.0054	0.0045	20.9224	0.0008	0.0311	0.0499	0.0564
1705328-4	-0.0017	53.0212	0.0296	0.0086	1.0822	0.0058	0.0060	15.1672	0.0013	0.0361	0.0526	0.0631
1705328-5	0.0012	34.2343	0.0137	-0.0625	1.2141	0.0042	0.0037	62.0072	0.0008	0.0231	0.0406	0.0634
1705328-6	-0.0019	42.2474	0.0184	0.0093	0.7251	0.0046	-0.0019	66.3288	0.0008	0.0259	0.0528	0.0512
1705328-7	-0.0017	54.9212	0.0296	0.0125	0.9127	0.0067	0.0080	46.1856	0.0005	0.0322	0.0489	0.0586
1705328-8	-0.0022	57.2536	0.0240	0.0207	1.0563	0.0066	0.0066	31.8728	0.0011	0.0335	0.0526	0.0588
1705328-9	-0.0015	76.1121	0.0220	0.0074	1.0902	0.0075	0.0080	15.8917	0.0006	0.0392	0.0570	0.0499
1705577-2	-0.0011	15.7944	0.0056	0.0118	1.8775	0.0015	-0.0005	27.3913	0.0003	0.0133	0.0413	0.0189
CCV	0.1989	51.1141	0.5000	1.0049	1.0101	0.5001	0.4933	50.5574	0.4842	0.4764	0.9944	0.9887
CCB	-0.0002	0.0073	0.0000	-0.0025	0.0003	-0.0001	-0.0013	0.0472	0.0002	-0.0001	-0.0001	0.0008
1705577-2D	0.0003	14.8509	0.0025	0.0114	2.0039	0.0013	0.0019	27.7602	0.0004	0.0146	0.0568	0.0294
1705577-2L 5X	-0.0007	3.1461	0.0020	-0.0004	0.3785	0.0000	0.0034	5.6771	-0.0002	0.0029	0.0080	0.0041
1705577-2MS	-0.0006	16.1883	0.9376	0.1069	2.1702	0.0500	-0.0039	65.5992	0.4629	0.4764	0.3204	0.3011
1705577-2MSD	-0.0003	21.9717	0.9730	0.1081	2.7148	0.0519	0.0033	65.7309	0.4778	0.4929	0.2382	0.2888
1706210-2	-0.0014	120.4435	0.0082	0.0665	1.3333	0.0071	0.0101	240.7600	0.0004	0.1258	0.3011	0.1625
1705328-1A	-0.0014	45.9417	0.9782	0.1094	1.8570	0.0547	0.0060	58.3919	0.4688	0.5031	0.2435	0.3211
1705577-2A	0.0000	17.4599	0.9724	0.1154	2.8732	0.0521	0.0040	26.5892	0.4790	0.5004	0.2441	0.2889
1705577-2MS 2X	-0.0007	8.3106	0.4900	0.0531	1.1047	0.0258	0.0019	33.9397	0.2405	0.2474	0.1659	0.1531
1705577-2MSD 2X	-0.0007	11.2337	0.5064	0.0533	1.3854	0.0267	-0.0007	33.7752	0.2475	0.2551	0.1229	0.1471
1706210-2 2X	0.0002	59.2020	0.0106	0.0303	0.6694	0.0038	0.0050	118.6556	0.0020	0.0646	0.1533	0.0810
CCV	0.1961	50.6599	0.4895	0.9970	1.0037	0.4877	0.4909	49.2116	0.4746	0.4667	0.9710	0.9885
CCB	0.0002	0.0176	0.0030	-0.0030	0.0004	0.0001	0.0078	0.0538	0.0002	0.0002	0.0006	0.0013
FP170614-3MB	-0.0003	-0.0375	-0.0013	-0.0051	-0.0004	-0.0003	-0.0015	0.0088	-0.0003	-0.0003	-0.0005	0.0001
IP170614-3MB	-0.0002	-0.0287	0.0018	-0.0046	-0.0004	-0.0004	-0.0021	0.0326	0.0001	-0.0006	-0.0002	0.0012
IP170614-3LCS	0.0001	1.9359	0.9638	0.0967	1.0375	0.0504	-0.0001	38.8207	0.4726	0.4784	0.2036	0.2610
1705515-1	0.0001	-0.0079	0.0002	0.3976	0.6159	-0.0002	0.0003	2.6701	0.0003	-0.0002	0.0000	0.0017
1705515-1D	0.0000	-0.0101	0.0020	0.4090	0.6293	-0.0003	0.0028	2.7089	-0.0003	-0.0004	-0.0001	0.0012
1705515-1L 5X	-0.0003	-0.0254	0.0020	0.0791	0.1280	-0.0002	-0.0015	0.5841	-0.0001	-0.0009	-0.0009	0.0002
1705515-1MS	-0.0001	1.9678	0.9617	0.4974	1.5831	0.0476	-0.0002	38.7944	0.4693	0.4616	0.1928	0.2553
1705515-1MSD	0.0001	2.0194	0.9896	0.5107	1.6241	0.0490	-0.0028	39.8630	0.4809	0.4733	0.1967	0.2616
1705515-3	0.0004	0.0038	0.0005	0.0356	0.7170	-0.0002	0.0032	2.5709	0.0003	0.0006	0.0005	0.0012
1706185-1 10X	-0.0019	-0.0091	0.0002	4.7169	5.9916	-0.0002	-0.0014	70.1029	-0.0004	0.0022	0.0115	0.0008
CCV	0.1984	51.4424	0.4961	1.0109	1.0189	0.4987	0.4850	50.2311	0.4751	0.4749	0.9915	0.9940
CCB	-0.0006	0.0146	0.0037	0.0002	0.0008	0.0000	0.0037	0.0617	0.0000	0.0004	0.0001	0.0018
1706185-3 10X	-0.0008	-0.0345	0.0028	4.8672	5.8518	-0.0003	0.0018	57.4495	-0.0004	0.0026	0.0017	0.0022
1706271-1 10X	0.0011	-0.0625	0.0331	5.5354	0.1711	-0.0009	0.0039	52.0958	0.0000	-0.0003	0.0011	0.0715
1706271-2 10X	-0.0004	-0.0284	-0.0008	3.1956	0.1331	-0.0002	0.0062	12.2256	-0.0001	0.0002	-0.0003	0.0030
1706286-1 10X	-0.0006	-0.0282	-0.0005	1.5006	1.7818	-0.0003	0.0010	25.5112	-0.0002	0.0009	0.0007	0.0017
1706286-3 10X	-0.0011	-0.0305	0.0152	2.4687	0.4429	-0.0002	-0.0013	32.2239	-0.0005	0.0017	0.0007	0.2181

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
1705515-1 10X	-0.0004	-0.0231	0.0033	0.0392	0.0636	-0.0002	-0.0033	0.3113	0.0000	-0.0002	-0.0005	0.0013
1705515-1D 10X	-0.0007	-0.0310	0.0032	0.0406	0.0647	-0.0002	0.0011	0.2990	0.0000	0.0000	-0.0003	0.0015
1705515-1L 50X	-0.0002	-0.0275	0.0026	0.0062	0.0128	-0.0002	0.0035	0.0781	-0.0002	0.0002	-0.0006	0.0009
1705515-1MS 10X	-0.0003	0.1682	0.1003	0.0468	0.1638	0.0048	-0.0017	4.1021	0.0469	0.0478	0.0202	0.0262
1705515-1MSD 10X	-0.0004	0.1858	0.1016	0.0508	0.1705	0.0050	0.0007	4.2537	0.0490	0.0496	0.0205	0.0275
CCV	0.1977	51.4448	0.4984	1.0051	1.0217	0.4989	0.4903	50.1113	0.4754	0.4752	0.9877	0.9927
CCB	-0.0005	0.0162	0.0042	-0.0012	0.0009	0.0001	-0.0006	0.0655	0.0002	0.0000	0.0002	0.0017
1705515-3 10X	0.0002	-0.0458	0.0009	0.0015	0.0744	-0.0004	0.0029	0.2861	-0.0001	0.0001	-0.0004	0.0017
1706185-1 500X	-0.0003	-0.0438	0.0000	0.0932	0.1330	-0.0004	0.0020	1.5416	0.0001	-0.0002	-0.0007	0.0017
1706185-3 500X	-0.0007	-0.0483	0.0029	0.0969	0.1292	-0.0004	0.0000	1.2842	-0.0002	-0.0001	0.0001	0.0014
1706271-1 500X	-0.0010	-0.0531	0.0024	0.1258	0.0046	-0.0003	0.0028	1.4042	-0.0001	0.0001	-0.0010	0.0028
1706271-2 500X	-0.0003	-0.0506	-0.0004	0.0617	0.0030	-0.0004	0.0035	0.2868	-0.0003	0.0003	-0.0010	0.0012
1706286-1 500X	-0.0006	-0.0470	0.0007	0.0270	0.0373	-0.0004	-0.0019	0.5672	-0.0001	-0.0003	-0.0005	0.0015
1706286-3 500X	-0.0008	-0.0492	0.0028	0.0447	0.0097	-0.0004	-0.0006	0.7187	-0.0004	0.0002	-0.0008	0.0053
CCV	0.1982	51.7052	0.4963	0.9985	1.0273	0.4992	0.4853	49.7855	0.4657	0.4734	0.9869	0.9936
CCB	-0.0001	0.0003	0.0016	-0.0023	0.0009	0.0000	0.0017	0.0693	0.0000	-0.0002	0.0000	0.0017
CRI	0.0213	0.4048	0.0112	0.4262	0.4539	0.0106	0.0564	5.4459	0.0101	0.1065	0.0218	0.0569
LCV	0.0095	0.1710	0.0311	0.1008	0.1084	0.0051	0.0194	1.0581	0.0045	0.0196	0.0104	0.0221
ICSA	-0.0005	264.8909	-0.0019	-0.0027	0.0012	0.0003	0.0096	256.2148	-0.0002	-0.0001	-0.0011	-0.0017
ICSAB	0.2043	258.9498	0.1038	1.0151	0.5419	0.4949	0.4850	250.0476	0.9727	0.4705	0.4886	0.5405
CCV	0.1983	51.2970	0.4997	0.9973	1.0190	0.4978	0.4883	50.1815	0.4728	0.4746	0.9892	0.9923
CCB	0.0005	0.0340	0.0009	0.0002	0.0010	0.0003	-0.0030	0.0817	0.0005	0.0006	0.0009	0.0023
CCV	0.1981	51.0474	0.4845	0.9747	1.0088	0.4857	0.4851	49.0641	0.4625	0.4654	0.9690	0.9934
CCB	-0.0001	-0.0213	0.0017	-0.0036	-0.0003	-0.0001	0.0025	0.0086	0.0000	-0.0003	-0.0005	0.0007
IP170619-8MB	-0.0001	-0.0211	0.0018	-0.0048	-0.0003	-0.0002	0.0010	0.0106	-0.0004	0.0001	-0.0003	0.0006
IP170619-8LCS	0.1007	2.0599	1.0098	0.0999	1.0477	0.0514	-0.0005	39.7135	0.4785	0.4860	0.2050	0.2646
1705515-2	-0.0011	0.0025	-0.0021	0.4190	0.6222	-0.0001	0.0015	2.7410	-0.0002	0.0005	-0.0005	0.0009
1705515-4	-0.0012	0.0138	0.0020	0.0362	0.7379	-0.0001	-0.0023	2.6013	-0.0005	0.0001	0.0000	0.0012
1705609-1	0.0002	5.9517	0.0049	0.0162	0.1231	0.0002	0.0019	32.4879	0.0005	0.0026	0.0064	0.0241
1706114-21	0.0088	1.4621	0.0189	0.0696	0.0346	0.0003	0.0309	14.3934	0.0021	0.0084	0.0083	0.0139
1706114-22	-0.0003	0.0064	0.0001	-0.0012	0.0001	-0.0002	0.0000	0.0592	0.0001	0.0000	-0.0005	0.0007
1706114-23	0.0000	1.7930	0.0015	0.0650	0.0416	0.0001	0.0010	16.0125	0.0000	0.0007	0.0012	0.0063
1706114-24	-0.0014	2.2184	0.0008	0.0676	0.0477	0.0001	-0.0046	21.1086	-0.0003	0.0006	0.0012	0.0072
1706114-25	0.0004	0.5706	0.0016	0.0720	0.0399	0.0000	0.0046	14.8023	-0.0001	0.0002	0.0003	0.0076
CCV	0.1985	51.0509	0.4992	0.9792	1.0099	0.4898	0.4803	49.5756	0.4657	0.4697	0.9758	0.9996
CCB	0.0000	-0.0135	0.0007	-0.0035	-0.0002	-0.0001	0.0010	0.0122	-0.0003	-0.0003	-0.0006	0.0004
1706114-26	-0.0010	0.6252	0.0007	0.0713	0.0461	0.0001	-0.0010	18.9432	-0.0005	0.0003	-0.0003	0.0080
1706114-27	-0.0002	1.3752	0.0047	0.0610	0.0555	0.0001	0.0013	17.1237	-0.0004	0.0011	0.0009	0.0067
1706114-28	0.0000	0.5176	0.0029	0.0627	0.0443	0.0000	0.0003	13.3268	0.0001	0.0009	0.0004	0.0054
1706114-29	-0.0012	6.8589	0.0053	0.0689	0.0983	0.0004	-0.0010	37.1657	-0.0002	0.0020	0.0051	0.0119
1706114-30 50X	-0.0002	-0.0093	0.0021	-0.0044	0.0003	-0.0001	0.0011	0.0329	-0.0001	-0.0003	-0.0006	0.0005
1706114-30D 50X	-0.0004	-0.0117	0.0009	-0.0051	0.0003	-0.0001	-0.0013	0.0227	-0.0001	-0.0004	-0.0003	0.0003
1706114-30L 250X	-0.0003	-0.0114	0.0018	-0.0038	0.0003	-0.0001	0.0004	0.0331	-0.0004	0.0005	0.0001	0.0009
1706114-30MS 50X	0.0015	0.0332	0.0234	-0.0016	0.0209	0.0009	0.0040	0.8165	0.0098	0.0105	0.0040	0.0060
1706114-30MSD 50X	0.0014	0.0335	0.0213	-0.0030	0.0211	0.0010	0.0011	0.8313	0.0096	0.0094	0.0036	0.0059
1706244-1	-0.0005	-0.0060	0.0013	0.1848	0.0098	0.0000	-0.0010	22.3956	-0.0004	0.0003	-0.0005	0.0003
CCV	0.1992	51.1011	0.4915	0.9787	1.0092	0.4873	0.4884	49.5186	0.4687	0.4682	0.9739	0.9993
CCB	-0.0001	0.0063	0.0029	-0.0031	0.0002	0.0000	-0.0025	0.0254	0.0000	0.0002	0.0000	0.0010
1706244-2	0.0005	-0.0021	0.0000	0.1838	0.0098	-0.0001	0.0039	22.4027	0.0000	-0.0003	-0.0002	0.0008
1705515-2 10X	0.0013	-0.0070	0.0007	0.0393	0.0639	-0.0001	0.0030	0.3156	0.0001	0.0007	0.0004	0.0015

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
1705515-4 10X	-0.0004	-0.0061	0.0027	-0.0002	0.0737	-0.0001	0.0024	0.2807	-0.0001	-0.0003	-0.0005	0.0007
1706114-22 50X	-0.0003	-0.0124	0.0020	-0.0046	0.0002	-0.0001	0.0015	0.0167	-0.0001	-0.0001	-0.0007	-0.0001
IP170619-9MB	-0.0002	-0.0101	0.0027	-0.0037	-0.0003	-0.0002	0.0025	0.0409	-0.0002	-0.0011	-0.0004	0.0073
IP170619-9LCS	0.0001	-0.0158	0.0034	-0.0036	-0.0003	-0.0003	-0.0006	0.0382	0.0002	-0.0006	0.0008	0.0076
1706229-1	-0.0009	17.7353	0.0283	0.0152	0.8706	0.0042	0.0027	311.2693	0.0007	0.0374	0.0594	0.2275
1706229-1D	-0.0005	16.4200	0.0595	0.0159	0.9703	0.0047	0.0070	350.2077	0.0006	0.0420	0.0534	0.1689
1706229-1L 5X	-0.0002	3.7437	0.0046	-0.0003	0.1809	0.0008	0.0003	63.5706	-0.0001	0.0081	0.0124	0.0462
1706229-1MS	0.0001	16.3088	0.0359	0.0174	1.7780	0.0039	0.0068	501.3106	0.0002	0.0381	0.0528	0.1639
CCV	0.2009	51.7616	0.5023	0.9943	1.0171	0.4961	0.4967	50.6353	0.4753	0.4769	0.9935	1.0061
CCB	0.0000	0.0123	0.0021	-0.0021	0.0003	0.0001	0.0035	0.0394	0.0001	0.0002	0.0000	0.0007
1706229-1MSD	-0.0004	16.3944	0.0336	0.0168	0.7825	0.0040	0.0088	304.7393	0.0004	0.0461	0.0540	0.6445
1706349-1 10X	-0.0001	8.6024	0.0103	0.0252	0.0892	0.0014	0.0104	143.6279	0.0005	0.0053	0.4185	0.0338
1706349-2 10X	0.0002	8.1902	0.0094	0.0164	0.0818	0.0014	0.0145	124.0961	0.0007	0.0054	0.3990	0.0300
1706349-3 10X	0.0009	8.3844	0.0095	0.0162	0.0836	0.0014	0.0152	126.2270	-0.0003	0.0065	0.4154	0.0306
1706349-4 10X	0.0013	16.6001	0.0051	0.0365	0.0860	0.0010	0.0064	208.6772	0.0006	0.0040	1.4341	0.0868
1706349-5 10X	0.0017	16.1473	0.0028	0.0339	0.0748	0.0009	0.0123	203.9835	0.0005	0.0046	1.4808	0.0774
Z	0.0198	0.4416	0.0135	0.4161	0.4441	0.0107	0.0513	5.4249	0.0099	0.1043	0.0217	0.0554
Z	-0.0023	-0.1775	0.0031	-0.0062	-0.0002	-0.0025	-0.0039	0.0056	-0.0003	-0.0018	-0.0013	-0.0099
CCV	0.1977	51.2445	0.4850	0.9779	1.0097	0.4846	0.4848	49.0193	0.4635	0.4674	0.9690	1.0007
CCB	0.0002	0.0129	0.0005	-0.0014	0.0005	0.0001	0.0022	0.0706	0.0002	0.0001	0.0004	0.0013
CRI	0.0219	0.4400	0.0123	0.4135	0.4446	0.0106	0.0483	5.3882	0.0100	0.1049	0.0220	0.0562
LCV	0.0100	0.1918	0.0295	0.0968	0.1069	0.0051	0.0223	1.0378	0.0045	0.0189	0.0105	0.0218
ICSA	-0.0005	263.5019	-0.0011	-0.0026	0.0013	0.0004	0.0042	253.6413	-0.0001	0.0004	-0.0013	-0.0025
ICSAB	0.2073	260.5308	0.1026	0.9968	0.5388	0.4926	0.4883	250.6453	0.9699	0.4723	0.4885	0.5455
CCV	0.1973	50.9699	0.4890	0.9701	1.0053	0.4865	0.4793	49.3290	0.4659	0.4674	0.9728	0.9950
CCB	-0.0003	0.0232	-0.0024	-0.0019	0.0005	0.0002	-0.0010	0.0792	0.0002	0.0004	0.0001	0.0010

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
MIXAHIGH	197.3959	9.9568	248.1704	495.2753	-0.0092	0.0020	149.0748	-0.0003	0.0701	-0.0059	0.0084	-0.0130
MIXBHIGH	0.0609	0.0650	0.6428	-0.0733	10.0054	10.0289	0.4898	10.0627	50.8165	10.0174	10.0541	9.9991
MIXCHIGH	0.0579	0.0647	0.6464	-0.0873	0.0048	0.0031	0.4743	-0.0006	0.0701	-0.0058	0.0000	-0.0087
ICV	10.0260	0.2451	25.6394	25.8516	0.5064	0.5023	25.6563	0.5174	2.4425	0.5135	0.5173	0.5115
ICB	0.0028	0.0034	0.1779	-0.0032	0.0000	-0.0007	0.0672	-0.0008	0.0701	-0.0009	-0.0055	0.0014
CRI	0.2358	0.0198	4.5125	5.3559	0.0334	0.0221	4.7298	0.0923	0.2275	0.0050	0.0001	0.0075
LIV	0.1178	0.0173	0.9440	1.0436	0.0107	0.0210	0.8755	0.0214	0.1750	0.0201	0.0167	0.0217
ICSA	107.2838	0.0047	0.1288	264.2363	-0.0055	0.0009	0.0933	0.0005	0.0701	-0.0008	0.0007	-0.0016
ICSAB	106.1469	1.1321	0.1384	260.8680	0.4813	0.9894	0.0829	0.9896	1.0689	0.0520	0.0532	0.0514
CCV	19.6634	0.5254	53.4168	50.6639	0.9793	0.9804	52.7820	0.9968	4.9460	0.9990	1.0135	0.9918
CCB	0.0059	0.0035	0.1920	0.0111	0.0001	-0.0010	0.0691	-0.0002	0.0701	-0.0002	-0.0010	0.0002
IP170613-1MB	0.0040	0.0035	0.1995	0.0060	-0.0002	0.0002	0.0657	0.0004	0.0177	-0.0018	-0.0067	0.0006
IP170613-1LCS	1.0521	0.5016	37.8924	38.1076	0.4900	0.9763	38.5554	0.5071	-0.0348	0.4870	0.4972	0.4818
1705533-2	303.1234	0.2231	29.0323	72.2087	9.0927	0.0009	2.7762	0.3156	5.2674	0.1116	0.1030	0.1159
1705533-2D	271.2816	0.2227	28.2635	84.3640	6.8199	0.0029	2.9331	0.3000	4.1975	0.1051	0.0983	0.1085
1705533-2L 5X	58.8830	0.0376	5.5982	15.1526	1.9251	0.0005	0.4944	0.0678	1.0162	0.0235	0.0173	0.0267
1705533-2MS	261.1264	0.8123	72.2246	117.3782	7.5706	0.9061	47.7102	0.7899	3.7176	0.5631	0.5694	0.5600
1705533-2MSD	272.9150	0.8312	73.5935	121.6669	7.1804	0.9181	48.2946	0.8115	4.0908	0.5862	0.5843	0.5872
1705533-2A	275.4372	0.7668	69.6167	111.3830	8.8451	0.9436	46.4083	0.7690	4.4645	0.5668	0.5737	0.5633
1705533-2 2X	149.8487	0.1000	13.3217	36.7313	4.6423	-0.0005	1.2837	0.1619	2.5485	0.0555	0.0549	0.0557
1705533-2D 2X	134.4587	0.1006	13.0818	43.0643	3.5032	0.0011	1.3681	0.1557	2.1248	0.0538	0.0487	0.0563
CCV	19.5795	0.5106	52.4776	50.8399	0.9812	0.9802	52.1565	0.9943	4.6784	1.0076	1.0118	1.0054
CCB	0.0131	0.0034	0.1665	0.0245	0.0003	0.0001	0.0748	0.0009	0.0177	0.0001	0.0010	-0.0004
1705533-2L 10X	28.5404	0.0189	2.3254	7.6139	0.9746	0.0001	0.2843	0.0352	0.5427	0.0105	0.0093	0.0112
1705533-2MS 2X	131.2633	0.3757	34.7965	60.1193	3.9322	0.4628	22.9367	0.4093	2.0719	0.2943	0.2972	0.2929
1705533-2MSD 2X	138.5488	0.3923	36.1446	62.7947	3.7564	0.4703	23.6873	0.4229	2.1777	0.3054	0.2994	0.3084
FP170613-3MB	0.0282	0.0033	0.1218	0.0029	0.0003	-0.0003	0.0799	-0.0003	0.0701	-0.0014	-0.0056	0.0007
IP170613-3MB	0.0263	0.0033	0.1365	-0.0019	0.0001	-0.0003	0.0801	0.0004	0.0701	-0.0020	-0.0044	-0.0009
IP170613-3LCS	1.1591	0.5074	39.5917	40.2650	0.5021	1.0003	40.1137	0.5161	0.0701	0.5131	0.5124	0.5135
1706089-1	0.0196	0.0120	9.9714	26.8746	0.0004	0.0015	26.0663	0.0006	-0.0348	0.0005	-0.0049	0.0032
1706089-1D	0.0191	0.0121	10.1471	27.4680	-0.0001	0.0015	26.6124	0.0004	-0.0348	-0.0005	-0.0045	0.0015
1706089-1L 5X	0.0051	0.0047	2.1219	5.3871	0.0000	-0.0002	5.2805	0.0002	0.0701	0.0004	-0.0042	0.0027
1706089-1MS	1.0747	0.5491	52.5390	66.8122	0.4845	0.9780	68.5721	0.5015	-0.0348	0.4965	0.4997	0.4949
CCV	19.4233	0.5081	52.1373	50.5610	0.9739	0.9775	51.5516	0.9910	4.7319	0.9993	1.0053	0.9963
CCB	0.0143	0.0034	0.1508	0.0276	0.0003	0.0012	0.0806	0.0008	0.0701	-0.0008	-0.0047	0.0011
1706089-1MSD	0.9772	0.5463	52.3696	67.2637	0.4888	0.9798	68.1369	0.4954	0.0701	0.5078	0.5047	0.5093
1706089-2	0.0159	0.0123	10.3476	27.7895	0.0007	0.0015	27.0665	0.0005	0.0701	0.0006	-0.0050	0.0034
1706089-3	0.0653	0.0086	6.4253	13.7212	0.0087	0.0014	12.3669	0.0103	0.0701	-0.0004	-0.0039	0.0014
1706089-4	0.1520	0.0086	6.4899	13.8064	0.0098	0.0017	12.5528	0.0162	0.0701	-0.0008	-0.0069	0.0023
1706126-1	0.0272	0.0117	10.1593	31.7854	0.0037	0.0023	21.4784	0.0038	0.2275	-0.0014	-0.0032	-0.0005
1706126-2	0.0607	0.0117	10.0730	31.6538	0.0036	0.0022	21.3795	0.0063	0.2800	-0.0001	0.0021	-0.0012
1706126-3	0.0156	0.0114	9.8831	29.8131	0.0008	0.0004	18.3364	0.0028	0.0701	0.0005	-0.0005	0.0010
1706126-4	0.0290	0.0112	9.8130	29.7855	0.0007	0.0017	18.1394	0.0044	0.0177	-0.0005	-0.0024	0.0004
1706236-1	14.8494	0.3652	12.3569	135.8031	0.1979	0.0010	310.3783	0.0099	0.3850	0.0130	0.0127	0.0132
1706236-2	41.8523	0.1874	11.7211	95.2381	0.9397	0.0011	277.5736	0.0603	1.6490	0.0262	0.0224	0.0280
CCV	19.5539	0.5128	52.5429	50.9742	0.9807	0.9809	51.1819	0.9866	4.7854	1.0073	1.0123	1.0047
CCB	0.0184	0.0035	0.1579	0.0391	0.0003	0.0005	0.1081	-0.0002	-0.0347	0.0014	-0.0004	0.0024
1706236-3	705.5858	1.3432	293.4730	469.5003	56.8606	0.0092	185.7938	1.1357	57.2918	2.2050	2.1915	2.2117
1706236-1 10X	1.6009	0.0309	0.9868	13.3874	0.0287	0.0006	34.0858	0.0024	0.0177	-0.0003	0.0027	-0.0018
1706236-2 10X	4.1454	0.0173	0.9386	9.4407	0.1025	0.0003	29.9783	0.0060	0.2275	0.0024	-0.0027	0.0050

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
1706236-3 10X	171.5672	0.1128	28.9902	50.6843	7.5129	0.0008	18.6437	0.1382	6.5037	0.2561	0.2514	0.2584
IP170614-2MB	0.0050	0.0033	0.1444	0.0035	0.0001	-0.0003	0.0629	-0.0002	-0.0872	-0.0023	-0.0024	-0.0022
IP170614-2LCS	1.0093	0.4890	37.8164	38.7185	0.4958	0.9904	38.3291	0.5065	0.0701	0.4961	0.5009	0.4937
1705328-1	76.9421	0.0434	11.3463	11.2124	2.5151	0.0025	0.5581	0.0497	1.2797	0.0951	0.0916	0.0968
1705328-1D	77.0131	0.0464	11.4100	11.9443	2.4699	0.0040	0.5787	0.0496	1.4907	0.0947	0.0973	0.0934
1705328-1L 5X	14.2233	0.0099	2.3088	2.2676	0.5003	0.0005	0.1422	0.0103	0.2800	0.0169	0.0203	0.0152
1705328-1MS	89.0817	0.6206	55.3380	52.8634	3.0262	0.9720	43.4132	0.5742	1.1742	0.6005	0.6108	0.5954
CCV	19.7225	0.5183	53.0169	51.5330	0.9916	0.9908	52.6378	0.9927	5.0531	1.0234	1.0181	1.0261
CCB	0.0158	0.0035	0.1513	0.0286	0.0003	0.0009	0.0854	0.0001	0.0177	-0.0002	-0.0054	0.0024
1705328-1MSD	89.2715	0.6149	55.1186	53.4590	3.1217	0.9809	42.8527	0.6529	1.0689	0.6038	0.6159	0.5978
1705328-2	72.2457	0.0597	9.1094	13.5668	1.8835	0.0026	0.9468	0.0495	3.3982	0.0680	0.0641	0.0700
1705328-3	75.3312	0.0510	10.9572	12.1844	2.3141	0.0035	0.5966	0.0518	1.9661	0.0851	0.0853	0.0850
1705328-4	82.7097	0.0472	11.8639	11.3757	2.6284	0.0040	0.5964	0.0498	1.0689	0.1110	0.1119	0.1105
1705328-5	63.4256	0.0526	6.9194	12.2527	1.7867	0.0121	0.7270	0.0491	2.1248	0.0588	0.0551	0.0606
1705328-6	81.9498	0.0552	10.3782	11.9111	2.4207	0.0040	0.9638	0.0479	1.7019	0.0679	0.0694	0.0671
1705328-7	78.2475	0.0581	12.6437	12.6454	2.2811	0.0028	0.6416	0.0553	1.7019	0.0953	0.0993	0.0933
1705328-8	80.6298	0.0552	12.5203	13.3967	2.6574	0.0037	1.7123	0.0543	1.6491	0.0997	0.0992	0.0999
1705328-9	93.7550	0.0601	13.1509	13.1449	2.8139	0.0034	0.5571	0.0580	0.9109	0.0910	0.0967	0.0881
1705577-2	28.1708	0.0287	6.1981	9.5972	0.6004	0.0020	115.2895	0.0340	0.5427	0.0243	0.0222	0.0254
CCV	19.7520	0.5118	52.4038	51.5898	0.9953	0.9921	51.9524	0.9943	4.9995	1.0224	1.0248	1.0212
CCB	0.0219	0.0035	0.1721	0.0356	0.0006	-0.0006	0.0941	-0.0002	0.0701	0.0016	-0.0006	0.0027
1705577-2D	26.9810	0.0268	5.7266	9.5051	0.6056	0.0044	111.5886	0.0404	0.7004	0.0246	0.0210	0.0264
1705577-2L 5X	5.5939	0.0074	1.1665	2.0107	0.1235	0.0009	23.0828	0.0074	0.1750	0.0021	0.0019	0.0021
1705577-2MS	21.5199	0.5810	48.2481	45.9467	0.9675	0.9688	151.5379	0.5520	0.4376	0.5015	0.5033	0.5006
1705577-2MSD	24.9654	0.5966	50.6602	47.3999	1.1016	0.9911	151.1167	0.5244	0.6478	0.5277	0.5236	0.5298
1706210-2	260.7729	0.2312	30.3875	78.2339	6.5260	0.0051	1.8384	0.3036	4.4111	0.0839	0.0721	0.0898
1705328-1A	70.0837	0.5475	50.5488	48.5609	2.7656	0.9776	40.2618	0.5408	1.1742	0.5742	0.5803	0.5711
1705577-2A	28.3725	0.0281	6.0420	9.3499	1.0814	1.0063	112.0680	0.5438	0.6478	0.5281	0.5307	0.5268
1705577-2MS 2X	10.9856	0.2749	23.2018	23.9912	0.5006	0.4949	79.6421	0.2909	0.2275	0.2617	0.2606	0.2632
1705577-2MSD 2X	12.6643	0.2829	24.4895	24.6901	0.5665	0.5096	79.6781	0.2759	0.3325	0.2721	0.2698	0.2732
1706210-2 2X	127.4702	0.1077	14.2196	39.4443	3.2902	0.0051	1.5520	0.1598	2.3895	0.0440	0.0393	0.0464
CCV	19.2741	0.5074	51.8894	50.5420	0.9679	0.9773	51.6562	0.9789	4.8924	0.9922	0.9991	0.9888
CCB	0.0256	0.0035	0.1402	0.0461	0.0009	0.0002	0.0956	-0.0007	0.0701	-0.0009	-0.0028	0.0000
FP170614-3MB	0.0020	0.0032	0.0987	0.0003	-0.0001	-0.0007	0.0603	-0.0008	0.0701	-0.0005	-0.0047	0.0015
IP170614-3MB	0.0624	0.0032	0.0668	0.0016	0.0003	0.0011	0.0603	0.0009	0.0701	-0.0004	-0.0034	0.0010
IP170614-3LCS	1.0884	0.4903	38.2035	39.4048	0.4984	0.9936	38.7243	0.4994	9.9767	0.5043	0.5039	0.5045
1705515-1	0.4801	0.2675	4.8774	0.7938	0.0071	0.0011	427.5670	0.0023	0.1226	0.0014	0.0013	0.0014
1705515-1D	0.4825	0.2747	4.9940	0.7999	0.0071	0.0005	416.7607	0.0001	-0.0348	-0.0008	-0.0018	-0.0003
1705515-1L 5X	0.1006	0.0478	0.8180	0.1671	0.0012	0.0000	114.1015	-0.0004	-0.0348	-0.0014	-0.0048	0.0003
1705515-1MS	1.3600	0.7623	48.7569	36.9213	0.4752	0.9703	427.7450	0.4764	9.9767	0.4860	0.4881	0.4850
1705515-1MSD	1.4066	0.7835	50.0876	37.7857	0.4868	0.9982	420.8983	0.4871	10.1407	0.5021	0.5008	0.5027
1705515-3	0.4176	0.0447	4.6532	0.8752	0.0074	0.0011	374.3609	0.0021	0.0701	0.0007	0.0007	0.0007
1706185-1 10X	12.6343	0.6298	11.6242	8.1535	0.1665	0.0003	501.7144	0.0009	-0.0871	-0.0018	-0.0064	0.0004
CCV	19.6463	0.5114	52.2301	51.5772	0.9894	0.9922	49.8072	0.9820	4.7319	1.0175	1.0144	1.0190
CCB	0.0294	0.0036	0.1483	0.0499	0.0010	0.0015	0.1606	0.0001	-0.0348	-0.0006	-0.0036	0.0009
1706185-3 10X	8.6501	0.5165	10.2864	6.8642	0.1161	0.0008	503.4754	0.0012	-0.3490	0.0013	-0.0028	0.0034
1706271-1 10X	1.1952	1.7713	446.6075	86.5777	0.2518	-0.0019	315.3469	0.0222	-0.5061	0.0261	0.0225	0.0280
1706271-2 10X	1.3469	0.3513	8.9269	2.1315	0.0259	-0.0006	389.8461	-0.0002	-0.1396	0.0030	-0.0003	0.0047
1706286-1 10X	4.7435	0.5773	4.3441	3.0410	0.0634	-0.0007	365.9350	0.0018	-0.1396	0.0013	-0.0013	0.0025
1706286-3 10X	13.6799	0.8105	9.0506	3.9179	0.2548	0.0004	442.6012	0.0216	23.0307	0.0014	-0.0049	0.0046

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
1705515-1 10X	0.0580	0.0240	0.3932	0.0928	0.0055	0.0002	60.2899	0.0008	0.0177	-0.0009	-0.0045	0.0008
1705515-1D 10X	0.0531	0.0243	0.4116	0.0902	0.0048	-0.0004	60.3818	0.0008	-0.0348	0.0003	-0.0011	0.0010
1705515-1L 50X	0.0148	0.0070	0.1375	0.0241	0.0055	-0.0002	12.1403	0.0006	0.0701	-0.0007	-0.0018	-0.0001
1705515-1MS 10X	0.1458	0.0720	4.6984	3.9370	0.0534	0.0964	62.5662	0.0507	1.0689	0.0512	0.0505	0.0516
1705515-1MSD 10X	0.1523	0.0753	4.9182	4.0824	0.0553	0.1017	65.6067	0.0526	0.9635	0.0528	0.0522	0.0530
CCV	19.6027	0.5128	52.1444	51.5078	0.9859	0.9917	51.5958	0.9764	4.8924	1.0222	1.0177	1.0244
CCB	0.0307	0.0036	0.1164	0.0547	0.0011	0.0010	0.1491	0.0008	-0.0348	0.0005	-0.0028	0.0022
1705515-3 10X	0.0470	0.0066	0.4128	0.0956	0.0048	0.0004	49.4457	0.0014	-0.0348	-0.0001	-0.0013	0.0005
1706185-1 500X	0.2795	0.0121	0.2374	0.1913	0.0077	0.0002	24.5934	0.0008	-0.0348	-0.0006	-0.0023	0.0002
1706185-3 500X	0.1928	0.0106	0.1977	0.1611	0.0066	-0.0010	23.9792	0.0000	0.0701	-0.0006	-0.0042	0.0012
1706271-1 500X	0.0347	0.0400	9.5041	2.3626	0.0105	0.0012	143.8694	0.0008	0.0177	0.0014	-0.0059	0.0051
1706271-2 500X	0.0326	0.0082	0.2173	0.0521	0.0047	-0.0003	10.0705	-0.0003	0.0177	-0.0016	-0.0054	0.0003
1706286-1 500X	0.1031	0.0113	0.1655	0.0718	0.0063	0.0002	9.4565	0.0011	-0.0348	0.0002	-0.0022	0.0014
1706286-3 500X	0.2948	0.0144	0.1950	0.0826	0.0107	-0.0021	14.1254	0.0003	0.4901	-0.0005	-0.0060	0.0022
CCV	19.5988	0.5122	51.9242	51.5753	0.9881	0.9842	51.6966	0.9604	4.9995	1.0191	1.0123	1.0225
CCB	0.0323	0.0036	0.0967	0.0547	0.0011	0.0011	0.1454	0.0010	0.0701	-0.0016	-0.0047	-0.0001
CRI	0.2369	0.0193	4.3167	5.4714	0.0342	0.0217	4.6711	0.0892	0.2275	0.0053	0.0040	0.0059
LCV	0.1173	0.0166	0.8283	1.0567	0.0107	0.0191	0.8618	0.0202	0.2275	0.0195	0.0179	0.0204
ICSA	106.6799	0.0046	0.0278	269.8579	-0.0058	0.0008	0.0967	-0.0004	0.0701	0.0000	-0.0034	0.0017
ICSAB	104.4908	1.0985	0.0233	263.2295	0.4800	0.9984	0.0848	0.9643	1.0816	0.0489	0.0525	0.0472
CCV	19.6162	0.5094	51.8262	51.5753	0.9839	0.9933	51.8850	0.9784	4.8651	1.0208	1.0174	1.0225
CCB	0.0373	0.0037	0.1220	0.0734	0.0013	0.0008	0.1487	0.0012	-0.0308	-0.0014	-0.0014	-0.0013
CCV	19.0706	0.5029	50.6954	50.6940	0.9526	0.9729	51.5683	0.9495	4.9166	0.9924	0.9947	0.9912
CCB	0.0026	0.0032	0.0459	0.0029	-0.0001	-0.0002	0.0653	-0.0006	0.0701	-0.0010	-0.0053	0.0012
IP170619-8MB	0.0023	0.0032	0.0521	0.0044	0.0000	-0.0008	0.0627	0.0000	0.0701	-0.0009	-0.0039	0.0006
IP170619-8LCS	0.9926	0.5036	38.6282	40.6051	0.4942	1.0003	40.0093	0.5013	0.0701	0.5103	0.5071	0.5119
1705515-2	0.3700	0.2730	4.8987	0.8288	0.0078	0.0008	440.0585	0.0021	-0.0308	-0.0013	-0.0044	0.0003
1705515-4	0.3243	0.0458	4.6912	0.8885	0.0083	0.0006	387.8798	0.0012	0.0197	-0.0003	-0.0037	0.0014
1705609-1	5.4026	0.0096	2.5864	3.5041	0.1510	0.0003	3.0686	0.0074	0.3225	0.0091	0.0101	0.0086
1706114-21	0.8047	0.0251	5.9055	7.6031	0.0340	0.1273	122.4693	0.0101	0.3225	-0.0017	0.0484	-0.0266
1706114-22	-0.1536	21.9430	0.0228	0.0029	0.0006	0.0003	0.1478	0.0041	0.0701	0.0009	0.0000	0.0014
1706114-23	0.9693	0.0333	5.9505	7.6457	0.0364	0.1160	120.5553	0.0011	0.1711	0.0007	-0.0017	0.0019
1706114-24	1.6756	0.0285	5.9908	8.3408	0.0615	0.1172	119.8357	0.0026	0.3730	0.0007	-0.0050	0.0035
1706114-25	0.2240	0.0251	5.6955	6.6206	0.0305	0.1335	124.3568	0.0020	0.1710	-0.0005	-0.0010	-0.0002
CCV	19.0160	0.5010	50.6785	51.0084	0.9588	0.9806	51.0439	0.9663	4.9166	0.9983	0.9989	0.9981
CCB	0.0034	0.0034	0.0543	0.0073	0.0000	-0.0002	0.0766	-0.0006	0.0701	-0.0006	-0.0048	0.0015
1706114-26	0.4493	0.0249	5.9280	8.3067	0.0455	0.1275	128.1273	0.0017	0.3225	0.0001	-0.0037	0.0020
1706114-27	0.9770	0.0252	5.8787	7.4753	0.0410	0.1265	118.6272	0.0025	0.3225	0.0005	-0.0027	0.0020
1706114-28	0.3386	0.0240	5.7768	6.4213	0.0249	0.1401	121.7936	0.0015	0.2720	-0.0002	0.0000	-0.0003
1706114-29	4.4122	0.0334	8.0292	11.8591	0.1261	0.1415	123.5030	0.0056	0.4236	0.0030	-0.0022	0.0057
1706114-30 50X	0.0072	0.4791	0.0766	0.0070	0.0058	0.0000	0.2477	-0.0002	0.0701	-0.0001	-0.0021	0.0008
1706114-30D 50X	0.0052	0.4668	0.0700	0.0054	0.0040	-0.0004	0.1797	0.0002	0.0701	0.0001	-0.0023	0.0013
1706114-30L 250X	0.0117	0.0948	0.1093	0.0099	0.0044	-0.0012	0.1973	0.0007	0.0701	-0.0004	-0.0008	-0.0002
1706114-30MS 50X	0.0255	0.4784	0.7789	0.8021	0.0142	0.0197	0.9143	0.0111	0.0701	0.0120	0.0121	0.0119
1706114-30MSD 50X	0.0245	0.4838	0.7786	0.8132	0.0143	0.0206	0.9068	0.0112	0.0701	0.0094	0.0060	0.0111
1706244-1	0.0103	0.0206	2.9168	4.5902	0.0384	0.0060	166.7938	0.0013	0.0701	-0.0010	-0.0021	-0.0004
CCV	19.1686	0.5027	50.8441	50.9387	0.9556	0.9773	51.3747	0.9653	4.8135	0.9919	0.9941	0.9908
CCB	0.0092	0.0035	0.0734	0.0187	0.0002	-0.0003	0.0992	0.0004	0.0197	0.0007	-0.0008	0.0014
1706244-2	0.0485	0.0204	2.9289	4.6020	0.0417	0.0060	166.7643	0.0004	0.0701	0.0001	-0.0010	0.0007
1705515-2 10X	0.0650	0.0240	0.3814	0.1026	0.0048	0.0006	60.4318	0.0022	0.0701	-0.0016	0.0023	-0.0035

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
1705515-4 10X	0.0562	0.0065	0.3571	0.0925	0.0048	-0.0004	49.7948	0.0002	0.0701	0.0005	-0.0028	0.0022
1706114-22 50X	0.0048	0.4750	0.0746	0.0010	0.0039	-0.0007	0.1783	0.0012	0.0701	-0.0003	-0.0020	0.0005
IP170619-9MB	0.2614	0.0034	0.0101	0.0032	0.0012	0.0009	0.0740	0.0020	0.0701	0.0025	-0.0037	0.0056
IP170619-9LCS	0.0446	0.0034	0.0592	0.0086	0.0021	-0.0001	0.0662	0.0022	0.0701	0.0030	0.0002	0.0044
1706229-1	95.7815	0.0267	11.3677	91.7335	2.7919	0.0041	0.4428	0.0601	3.5796	0.0738	0.0677	0.0769
1706229-1D	114.8750	0.0266	10.4284	96.7781	3.2130	0.0110	0.4362	0.0646	3.6822	1.0575	1.0598	1.0563
1706229-1L 5X	19.2247	0.0073	2.0019	19.4188	0.6061	-0.0002	0.1412	0.0140	0.8282	0.0167	0.0124	0.0188
1706229-1MS	83.0372	0.0280	10.9960	101.1441	2.9720	0.0047	0.6536	0.0554	3.2210	0.0696	0.0685	0.0701
CCV	19.5130	0.5090	51.3773	51.8755	0.9716	0.9938	52.6915	0.9816	4.8651	1.0130	1.0120	1.0135
CCB	0.0128	0.0035	0.0982	0.0254	0.0004	0.0006	0.0987	0.0007	0.0701	0.0000	-0.0004	0.0003
1706229-1MSD	89.6699	0.0244	10.5396	104.0676	3.0722	0.0048	0.4772	0.0601	3.5283	0.0767	0.0758	0.0771
1706349-1 10X	259.2005	0.0102	1.1542	20.1100	6.9136	0.0383	0.8524	0.0280	0.8789	0.0347	0.0296	0.0373
1706349-2 10X	327.1247	0.0139	0.5956	18.1027	6.7262	0.0365	0.4860	0.0226	0.8282	0.0192	0.0133	0.0222
1706349-3 10X	338.9053	0.0145	0.8069	18.5680	6.9566	0.0398	0.5611	0.0242	0.8282	0.0204	0.0154	0.0228
1706349-4 10X	189.4383	0.0104	0.3627	55.4673	20.7641	0.0421	0.6354	0.0337	2.4545	0.0399	0.0332	0.0433
1706349-5 10X	199.5974	0.0103	0.3499	54.0450	20.6558	0.0594	0.5722	0.0986	2.2506	0.0246	0.0249	0.0245
Z	0.2490	0.0190	4.2150	5.4294	0.0347	0.0208	4.6491	0.0888	0.3225	0.0062	-0.0022	0.0104
Z	0.0045	0.0052	1.1073	-0.0073	0.0003	-0.0001	0.0953	0.0001	0.0701	0.0035	-0.0070	0.0087
CCV	19.0387	0.5031	50.7972	50.9219	0.9528	0.9747	51.7518	0.9577	4.7414	0.9882	0.9879	0.9884
CCB	0.0205	0.0035	0.0781	0.0419	0.0008	0.0009	0.1041	0.0005	0.0701	0.0003	-0.0022	0.0016
CRI	0.2519	0.0189	4.1846	5.4084	0.0350	0.0225	4.6373	0.0877	0.1790	0.0064	0.0055	0.0069
LCV	0.1159	0.0164	0.8592	1.0548	0.0103	0.0204	0.8560	0.0208	0.1790	0.0198	0.0187	0.0204
ICSA	104.5699	0.0045	0.1039	268.9402	-0.0059	-0.0009	0.0932	0.0002	0.0701	-0.0007	0.0002	-0.0011
ICSAB	103.5583	1.0889	0.1086	265.4787	0.4740	0.9944	0.0822	0.9628	1.1069	0.0506	0.0564	0.0477
CCV	19.1084	0.5008	50.6574	51.0100	0.9545	0.9774	51.6972	0.9628	4.7969	0.9926	0.9926	0.9926
CCB	0.0236	0.0035	0.1756	0.0473	0.0008	0.0011	0.1048	0.0007	0.0701	0.0005	-0.0008	0.0011

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
MIXAHIGH	0.1514	0.0118	-0.0035	0.0108	-0.0106	0.0007	-0.0010	0.0039	-0.0029	-0.0190	0.0945	0.0058
MIXBHGH	0.0008	2.0558	4.9906	5.0271	4.9724	50.0824	10.0344	10.0552	10.0052	5.0380	-0.0622	5.0205
MIXCHIGH	49.8754	0.0046	0.0054	0.0066	0.0047	0.0631	0.0200	0.0010	0.0041	0.0057	49.7579	-0.0095
ICV	2.5554	0.2583	0.5080	0.5113	0.5064	2.4841	0.5315	0.2547	0.2500	0.2567	2.4619	0.2521
ICB	-0.0069	-0.0003	-0.0005	-0.0033	0.0009	-0.0009	-0.0037	-0.0014	-0.0009	-0.0004	-0.0120	-0.0008
CRI	0.2280	0.1316	0.0092	0.0031	0.0122	0.1181	0.1085	0.0205	0.0204	0.0242	0.1898	0.1076
LIV	0.2025	0.0547	0.0278	0.0219	0.0308	0.1003	0.0532	0.0193	0.0196	0.0294	0.1830	0.0203
ICSA	0.0493	0.0102	0.0026	0.0072	0.0002	0.0104	0.0009	0.0150	-0.0023	-0.0083	0.0421	0.0029
ICSAB	1.0909	0.6320	0.0518	0.0551	0.0502	0.9712	1.0505	1.0288	0.9655	0.0930	9.8623	0.4953
CCV	5.0100	0.5083	0.9951	1.0076	0.9889	4.8164	1.0360	0.4984	0.4853	0.5044	4.7768	0.4890
CCB	-0.0146	0.0028	-0.0010	-0.0060	0.0015	0.0007	-0.0054	-0.0013	-0.0011	-0.0008	-0.0028	0.0002
IP170613-1MB	-0.0094	-0.0022	-0.0001	-0.0050	0.0023	0.0018	-0.0041	-0.0014	-0.0008	-0.0062	-0.0224	0.0000
IP170613-1LCS	-0.0069	0.4928	1.7629	1.7855	1.7517	0.9431	0.5194	0.5067	0.4821	1.9280	-0.0097	0.5061
1705533-2	32.9610	0.0078	0.0103	0.0056	0.0126	25.4688	0.0177	0.5819	1.6622	-0.0265	0.0559	0.1922
1705533-2D	38.4908	0.0103	0.0071	0.0015	0.0098	25.1437	0.0303	0.4938	1.6227	-0.0235	0.0664	0.1964
1705533-2L 5X	6.9630	0.0004	0.0004	-0.0005	0.0009	5.4482	-0.0014	0.1185	0.3465	-0.0032	-0.0062	0.0385
1705533-2MS	34.7014	0.1688	1.8097	1.8357	1.7967	24.5700	0.5200	1.0099	2.4808	1.8805	0.0677	0.6889
1705533-2MSD	40.9096	0.1685	1.8486	1.8657	1.8400	23.9567	0.5314	1.0211	2.4369	1.9094	0.0503	0.7003
1705533-2A	31.1361	0.5012	1.8465	1.8618	1.8388	24.8495	0.5105	1.0371	1.9827	1.8686	0.0788	0.6580
1705533-2 2X	16.8721	0.0074	0.0008	-0.0003	0.0013	13.1229	0.0060	0.2943	0.8390	-0.0152	0.0292	0.0972
1705533-2D 2X	19.7345	0.0043	0.0057	0.0009	0.0081	13.0133	0.0138	0.2506	0.8263	-0.0187	0.0163	0.0995
CCV	4.9769	0.5102	0.9942	1.0035	0.9896	4.8529	1.0402	0.4995	0.4878	0.5014	4.8050	0.4906
CCB	-0.0069	0.0003	0.0002	-0.0015	0.0011	0.0042	0.0013	-0.0012	-0.0004	-0.0008	-0.0005	-0.0002
1705533-2L 10X	3.4861	-0.0002	0.0008	0.0003	0.0010	2.7564	-0.0012	0.0584	0.1760	-0.0060	-0.0122	0.0188
1705533-2MS 2X	18.0165	0.0880	0.9473	0.9598	0.9411	12.8093	0.2673	0.5116	1.2893	0.9754	0.0369	0.3535
1705533-2MSD 2X	21.3727	0.0895	0.9738	0.9821	0.9697	12.6699	0.2692	0.5242	1.2808	1.0029	0.0046	0.3621
FP170613-3MB	0.0084	0.0009	0.0015	-0.0051	0.0048	0.0221	-0.0014	-0.0012	-0.0006	-0.0036	-0.0109	-0.0002
IP170613-3MB	0.0084	-0.0008	0.0017	-0.0028	0.0040	0.0219	-0.0010	-0.0012	-0.0008	-0.0060	-0.0207	-0.0008
IP170613-3LCS	0.0135	0.5198	2.0776	2.1003	2.0663	1.0924	0.5205	0.5149	0.4918	2.0367	-0.0178	0.5167
1706089-1	47.8941	-0.0002	0.0093	0.0036	0.0122	18.4911	-0.0001	0.4792	-0.0007	0.0029	-0.0155	0.0136
1706089-1D	49.0632	0.0013	0.0118	0.0065	0.0145	18.9047	-0.0018	0.4875	-0.0009	0.0019	-0.0190	0.0139
1706089-1L 5X	9.6640	0.0004	0.0006	-0.0081	0.0050	3.7101	-0.0025	0.0951	-0.0012	-0.0024	-0.0063	0.0028
1706089-1MS	49.3373	0.5176	2.0744	2.1041	2.0595	19.5562	0.5207	0.9875	0.4717	2.0046	-0.0080	0.5146
CCV	4.9922	0.5053	0.9912	0.9976	0.9880	4.8309	1.0316	0.4974	0.4853	0.5096	4.7799	0.4874
CCB	-0.0146	-0.0015	-0.0005	-0.0075	0.0030	0.0020	-0.0018	-0.0012	-0.0010	0.0026	-0.0155	0.0003
1706089-1MSD	49.6263	0.5129	2.0777	2.0792	2.0770	19.6421	0.5194	0.9817	0.4823	1.9761	-0.0297	0.5175
1706089-2	49.2775	-0.0032	0.0103	0.0070	0.0120	19.4211	0.0007	0.4940	-0.0007	0.0021	-0.0207	0.0144
1706089-3	23.6356	-0.0013	0.0032	-0.0007	0.0051	18.8172	0.0003	0.2414	-0.0009	0.0027	-0.0127	0.0187
1706089-4	23.9663	-0.0024	0.0060	-0.0027	0.0104	18.8791	-0.0016	0.2432	0.0003	-0.0038	-0.0260	0.0184
1706126-1	85.7390	-0.0021	0.0212	0.0198	0.0220	18.9302	-0.0022	0.6025	-0.0012	0.0043	-0.0132	0.0147
1706126-2	85.2988	-0.0021	0.0139	0.0130	0.0144	18.7440	-0.0010	0.5995	-0.0006	-0.0020	0.0075	0.0149
1706126-3	79.1724	0.0020	0.0169	0.0218	0.0145	18.3296	-0.0025	0.5618	-0.0012	0.0025	-0.0097	0.0142
1706126-4	79.0497	-0.0028	0.0152	0.0148	0.0154	18.1624	0.0001	0.5597	-0.0007	0.0010	-0.0149	0.0139
1706236-1	203.8779	-0.0023	0.0037	-0.0008	0.0060	27.6818	0.0007	2.3438	0.2001	-0.0011	-0.0073	0.0207
1706236-2	39.5153	0.0020	0.0805	0.0800	0.0808	40.8777	-0.0008	1.3125	0.3803	0.0005	0.0005	0.0693
CCV	5.0483	0.5056	0.9998	1.0036	0.9979	4.8878	1.0339	0.5001	0.4895	0.4999	4.8418	0.4904
CCB	-0.0043	0.0009	0.0003	-0.0015	0.0012	0.0079	0.0009	-0.0011	-0.0007	-0.0014	-0.0023	-0.0001
1706236-3	72.5214	0.0413	-0.0303	0.0702	-0.0805	125.0823	0.0363	9.0738	1.3551	-0.4001	1.5809	1.0601
1706236-1 10X	22.4009	0.0019	0.0006	0.0026	-0.0004	2.8299	0.0036	0.2403	0.0199	0.0015	0.0019	0.0028
1706236-2 10X	3.8608	-0.0032	0.0084	0.0037	0.0108	4.1147	-0.0031	0.1337	0.0383	-0.0007	-0.0221	0.0061

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
1706236-3 10X	7.8892	0.0033	0.0076	0.0052	0.0088	13.5941	-0.0001	1.0227	0.1529	-0.0186	0.0303	0.1469
IP170614-2MB	-0.0094	-0.0007	-0.0001	0.0003	-0.0003	0.0106	-0.0039	-0.0013	-0.0010	0.0011	-0.0034	0.0003
IP170614-2LCS	0.0033	0.4976	1.8081	1.8097	1.8073	0.9701	0.5133	0.5112	0.4898	1.9628	-0.0096	0.5131
1705328-1	1.1853	0.0055	0.0046	0.0001	0.0069	28.5222	0.0162	0.1785	1.8815	-0.0139	0.0747	0.1236
1705328-1D	1.0781	0.0046	0.0049	0.0018	0.0064	27.3451	0.0132	0.1952	1.8567	-0.0144	0.0729	0.1237
1705328-1L 5X	0.2357	0.0021	0.0003	-0.0012	0.0010	5.7793	0.0003	0.0339	0.3717	-0.0034	0.0245	0.0243
1705328-1MS	1.1164	0.2789	1.8852	1.8957	1.8799	23.6902	0.5448	0.7234	2.7254	2.0100	0.0506	0.6520
CCV	5.1272	0.5122	1.0054	1.0060	1.0052	4.9323	1.0460	0.5052	0.4969	0.5119	4.8744	0.4960
CCB	0.0059	-0.0034	0.0030	-0.0013	0.0051	0.0086	-0.0043	-0.0012	-0.0010	-0.0020	-0.0293	-0.0007
1705328-1MSD	1.1828	0.2781	1.8839	1.9006	1.8756	27.4195	0.5347	0.7146	2.7287	1.9876	0.0694	0.6521
1705328-2	1.0220	0.0013	0.0014	-0.0085	0.0063	26.5261	0.0141	0.2687	1.2684	-0.0125	-0.0143	0.1148
1705328-3	0.9939	0.0032	0.0032	-0.0026	0.0061	27.2171	0.0182	0.1710	2.1387	-0.0153	0.0303	0.1234
1705328-4	0.8714	0.0089	0.0013	-0.0041	0.0039	22.3020	0.0162	0.1635	2.2084	-0.0108	0.0641	0.1362
1705328-5	0.5344	0.0013	0.0216	0.0090	0.0278	17.9523	0.0063	0.3475	1.1618	-0.0156	0.0426	0.1044
1705328-6	1.1624	0.0040	-0.0010	-0.0110	0.0040	23.7677	0.0149	0.2273	2.0424	-0.0157	0.0321	0.1132
1705328-7	1.0501	0.0065	0.0014	-0.0031	0.0037	30.3190	0.0214	0.2205	1.5524	-0.0168	0.0290	0.1086
1705328-8	1.1394	0.0025	0.0038	-0.0081	0.0098	28.7097	0.0191	0.2066	1.6951	-0.0121	0.0266	0.1207
1705328-9	0.4757	0.0072	0.0051	0.0055	0.0049	20.5058	0.0162	0.1602	2.6044	-0.0148	0.0239	0.1472
1705577-2	4.9769	0.0025	0.0011	-0.0004	0.0018	8.2464	0.0117	0.1202	0.4399	-0.0067	-0.0043	0.0241
CCV	5.0890	0.5081	1.0014	1.0083	0.9980	4.9183	1.0486	0.5021	0.4993	0.5050	4.8560	0.4968
CCB	-0.0120	-0.0019	0.0003	0.0012	-0.0002	0.0089	-0.0041	-0.0011	-0.0005	0.0002	-0.0144	-0.0005
1705577-2D	5.3157	0.0039	0.0028	0.0020	0.0032	7.6284	0.0111	0.1192	0.4418	-0.0071	0.0078	0.0229
1705577-2L 5X	1.0501	0.0010	0.0000	-0.0030	0.0015	1.7367	0.0016	0.0230	0.0903	-0.0082	-0.0132	0.0045
1705577-2MS	7.9935	0.3978	1.8042	1.8124	1.8001	8.9270	0.5144	0.6120	0.7932	1.9185	-0.0084	0.5112
1705577-2MSD	4.2839	0.3590	1.8617	1.8596	1.8628	11.1571	0.5292	0.6329	0.9397	1.9833	-0.0148	0.5308
1706210-2	39.3500	0.0104	0.0053	0.0037	0.0061	21.5604	0.0109	0.5139	2.0229	-0.0320	0.0496	0.1939
1705328-1A	1.1241	0.4884	1.8883	1.8964	1.8843	27.4580	0.5176	0.6657	2.2119	1.9233	0.0749	0.6142
1705577-2A	4.9234	0.5017	1.8716	1.8792	1.8678	9.0529	0.5256	0.6308	0.9263	1.9849	-0.0086	0.5397
1705577-2MS 2X	4.1820	0.2062	0.9487	0.9499	0.9481	4.7038	0.2567	0.3125	0.4041	0.9961	-0.0171	0.2628
1705577-2MSD 2X	2.2417	0.1915	0.9827	0.9851	0.9815	5.8504	0.2699	0.3243	0.4783	1.0270	-0.0182	0.2730
1706210-2 2X	20.0759	0.0062	0.0069	0.0035	0.0087	10.9722	0.0090	0.2577	1.0088	0.0018	0.0161	0.0996
CCV	5.0635	0.5065	0.9921	1.0012	0.9875	4.8445	1.0274	0.4993	0.4880	0.5050	4.8306	0.4873
CCB	-0.0146	-0.0022	0.0003	-0.0072	0.0040	0.0094	-0.0033	-0.0009	-0.0006	0.0037	-0.0080	-0.0001
FP170614-3MB	0.0008	-0.0008	-0.0025	-0.0034	-0.0020	0.0069	-0.0016	-0.0014	-0.0012	-0.0035	-0.0080	-0.0004
IP170614-3MB	-0.0171	0.0005	0.0003	-0.0046	0.0027	0.0188	-0.0012	-0.0013	-0.0012	-0.0040	-0.0046	0.0005
IP170614-3LCS	10.3273	0.4966	1.8919	1.8847	1.8955	1.0394	0.5116	0.5098	0.4962	1.9859	-0.0155	0.5156
1705515-1	0.0927	0.0030	-0.0002	-0.0038	0.0016	9.0211	-0.0043	0.7419	-0.0003	0.0039	-0.0108	0.0005
1705515-1D	0.0748	-0.0006	0.0004	0.0000	0.0006	9.2158	-0.0039	0.7589	-0.0012	-0.0025	-0.0154	0.0000
1705515-1L 5X	0.0186	-0.0027	-0.0005	-0.0063	0.0024	1.9206	-0.0033	0.1542	-0.0007	-0.0023	-0.0311	-0.0006
1705515-1MS	10.4162	0.4915	1.9066	1.9015	1.9091	9.8957	0.5104	1.2058	0.4651	1.9646	-0.0244	0.4872
1705515-1MSD	10.6550	0.5019	1.9535	1.9482	1.9562	10.2113	0.5276	1.2388	0.4767	2.0042	-0.0169	0.4989
1705515-3	0.1719	0.0012	0.0015	-0.0004	0.0025	6.5541	-0.0004	0.4277	-0.0007	-0.0020	-0.0067	0.0008
1706185-1 10X	0.3072	-0.0015	-0.0003	-0.0027	0.0009	3.8190	-0.0008	10.9237	-0.0013	0.0009	-0.0194	-0.0009
CCV	5.1909	0.5142	1.0132	1.0114	1.0141	4.9413	1.0402	0.5013	0.5025	0.5110	4.8958	0.4955
CCB	-0.0043	-0.0024	0.0006	-0.0016	0.0016	0.0120	-0.0028	-0.0008	-0.0004	-0.0046	-0.0115	0.0001
1706185-3 10X	0.3889	-0.0002	-0.0029	-0.0063	-0.0012	3.4641	-0.0039	8.9475	-0.0012	0.0013	-0.0181	-0.0009
1706271-1 10X	96.5638	-0.0016	-0.0005	-0.0039	0.0012	2.6086	-0.0029	1.9894	-0.0008	0.0067	-0.0213	-0.0004
1706271-2 10X	4.4954	-0.0038	-0.0002	-0.0032	0.0013	3.9598	-0.0035	1.3502	-0.0008	-0.0015	-0.0238	-0.0005
1706286-1 10X	0.3123	-0.0009	-0.0032	-0.0089	-0.0004	2.2999	-0.0046	4.2903	-0.0013	-0.0005	-0.0158	-0.0003
1706286-3 10X	19.2084	0.0011	-0.0007	-0.0076	0.0027	3.6777	0.0007	4.8187	-0.0006	-0.0059	-0.0193	-0.0006

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
1705515-1 10X	0.0237	0.0019	0.0011	-0.0037	0.0036	0.9473	0.0005	0.0776	-0.0010	-0.0012	-0.0288	0.0000
1705515-1D 10X	0.0059	0.0004	0.0002	-0.0025	0.0016	0.9691	0.0013	0.0774	-0.0010	-0.0008	-0.0104	-0.0002
1705515-1L 50X	-0.0069	0.0000	0.0017	0.0012	0.0019	0.1954	-0.0018	0.0152	-0.0009	-0.0004	-0.0161	0.0001
1705515-1MS 10X	1.0552	0.0476	0.2002	0.1977	0.2014	1.0480	0.0450	0.1244	0.0481	0.1908	-0.0202	0.0510
1705515-1MSD 10X	1.1139	0.0521	0.2031	0.2018	0.2038	1.0992	0.0490	0.1297	0.0498	0.2017	-0.0243	0.0524
CCV	5.1960	0.5082	1.0135	1.0230	1.0087	4.9380	1.0397	0.5018	0.5028	0.5059	4.8901	0.4951
CCB	0.0033	-0.0012	-0.0012	-0.0044	0.0004	0.0148	0.0005	-0.0007	-0.0007	0.0008	-0.0057	0.0002
1705515-3 10X	0.0186	0.0016	0.0002	-0.0061	0.0034	0.7033	0.0011	0.0434	-0.0006	0.0014	-0.0058	-0.0001
1706185-1 500X	0.0084	-0.0016	0.0000	-0.0028	0.0014	0.0919	0.0005	0.2419	-0.0008	0.0020	-0.0135	-0.0003
1706185-3 500X	-0.0018	-0.0009	0.0013	0.0001	0.0020	0.0807	-0.0050	0.1988	-0.0011	-0.0011	-0.0053	-0.0007
1706271-1 500X	2.0758	-0.0017	0.0008	-0.0017	0.0020	0.0672	-0.0008	0.0521	-0.0010	-0.0016	-0.0253	-0.0006
1706271-2 500X	0.0952	-0.0006	0.0019	0.0026	0.0015	0.0902	-0.0014	0.0279	-0.0010	-0.0016	-0.0109	0.0000
1706286-1 500X	-0.0043	-0.0022	0.0016	-0.0033	0.0041	0.0551	0.0009	0.0891	-0.0008	-0.0038	-0.0104	0.0002
1706286-3 500X	0.3863	-0.0029	-0.0013	-0.0024	-0.0007	0.0831	-0.0018	0.1027	-0.0008	-0.0042	-0.0256	-0.0003
CCV	5.2826	0.5065	1.0211	1.0196	1.0219	4.9809	1.0278	0.5009	0.5113	0.4996	4.9418	0.4958
CCB	0.0008	0.0005	0.0008	-0.0028	0.0027	0.0203	-0.0056	-0.0006	-0.0005	-0.0034	-0.0046	0.0000
CRI	0.2485	0.1328	0.0118	0.0094	0.0130	0.1327	0.1097	0.0207	0.0219	0.0190	0.2082	0.1097
LCV	0.2153	0.0514	0.0282	0.0226	0.0309	0.1106	0.0528	0.0193	0.0202	0.0262	0.1968	0.0208
ICSA	0.0569	0.0063	0.0004	0.0065	-0.0026	0.0199	0.0011	0.0151	-0.0025	-0.0106	0.0290	0.0013
ICSAB	1.0960	0.6329	0.0520	0.0588	0.0486	0.9967	1.0606	1.0313	0.9877	0.0948	10.0867	0.4977
CCV	5.2087	0.5098	1.0177	1.0110	1.0211	4.9221	1.0414	0.5002	0.5003	0.5123	4.8981	0.4946
CCB	0.0008	-0.0003	0.0014	0.0004	0.0019	0.0162	-0.0022	-0.0005	-0.0004	-0.0023	-0.0063	0.0003
CCV	5.1756	0.4998	0.9997	1.0047	0.9972	4.8395	1.0265	0.4956	0.4832	0.5018	4.7941	0.4857
CCB	-0.0018	-0.0020	-0.0008	-0.0089	0.0031	0.0072	0.0020	-0.0014	-0.0011	-0.0021	-0.0143	-0.0005
IP170619-8MB	-0.0043	0.0015	0.0013	-0.0018	0.0028	0.0061	0.0001	-0.0014	-0.0012	-0.0030	-0.0046	0.0001
IP170619-8LCS	0.0161	0.5155	2.1007	2.1076	2.0972	1.0932	0.5158	0.5120	0.4946	2.0373	-0.0326	0.5171
1705515-2	0.1233	-0.0033	0.0014	-0.0006	0.0024	9.4037	0.0003	0.7464	-0.0003	0.0047	-0.0199	-0.0003
1705515-4	0.2510	-0.0025	0.0018	-0.0011	0.0032	6.9699	0.0020	0.4368	0.0001	0.0014	-0.0152	-0.0002
1705609-1	1.9330	0.0044	0.0001	-0.0036	0.0020	14.4362	0.0066	0.0939	0.1564	0.0024	0.0008	0.0134
1706114-21	9.6259	0.0251	0.0025	0.0473	-0.0199	8.4416	0.0236	0.5124	0.0206	0.0176	0.1604	0.0102
1706114-22	0.0110	0.0007	0.0025	0.0003	0.0036	0.0295	-0.0031	-0.0010	-0.0012	0.0040	-0.0078	-0.0001
1706114-23	9.2599	-0.0016	-0.0017	-0.0084	0.0016	9.5723	0.0021	0.5397	0.0231	0.0069	-0.0159	0.0030
1706114-24	9.2344	-0.0008	0.0003	-0.0006	0.0007	10.6929	0.0007	0.5460	0.0279	0.0015	-0.0161	0.0034
1706114-25	9.9690	0.0006	0.0017	0.0054	-0.0001	5.8385	0.0015	0.5105	0.0076	0.0008	-0.0036	0.0019
CCV	5.1807	0.5035	1.0065	1.0138	1.0029	4.8417	1.0368	0.4975	0.4834	0.5063	4.7935	0.4896
CCB	0.0008	-0.0011	-0.0008	-0.0027	0.0002	0.0059	0.0022	-0.0013	-0.0012	0.0028	-0.0074	-0.0004
1706114-26	9.9055	0.0018	0.0018	-0.0013	0.0033	6.1135	0.0017	0.6172	0.0074	-0.0035	-0.0090	0.0016
1706114-27	9.3031	0.0021	0.0014	-0.0018	0.0031	8.2337	0.0013	0.5131	0.0170	-0.0054	-0.0015	0.0028
1706114-28	9.6996	-0.0009	0.0014	0.0001	0.0020	6.0212	-0.0012	0.4986	0.0085	-0.0013	-0.0038	0.0018
1706114-29	9.6971	-0.0017	0.0027	0.0017	0.0031	24.0718	0.0025	0.5824	0.1030	-0.0004	-0.0201	0.0085
1706114-30 50X	0.0084	-0.0004	0.0028	0.0034	0.0025	0.0106	0.0003	-0.0001	-0.0008	0.0006	-0.0115	0.0002
1706114-30D 50X	0.0059	0.0021	0.0009	-0.0036	0.0032	0.0025	-0.0016	-0.0004	-0.0009	-0.0007	-0.0189	-0.0002
1706114-30L 250X	-0.0069	0.0010	-0.0002	0.0005	-0.0005	0.0029	0.0005	-0.0003	-0.0009	0.0042	-0.0063	0.0003
1706114-30MS 50X	-0.0018	0.0087	0.0412	0.0392	0.0422	0.0234	0.0072	0.0098	0.0090	0.0414	-0.0069	0.0102
1706114-30MSD 50X	0.0008	0.0098	0.0409	0.0388	0.0420	0.0235	0.0095	0.0099	0.0090	0.0423	-0.0109	0.0103
IP6244-1	84.5111	-0.0017	-0.0046	-0.0133	-0.0003	3.2606	-0.0006	0.5890	-0.0009	0.0002	-0.0097	-0.0002
CCV	5.1603	0.4994	0.9997	1.0080	0.9955	4.8242	1.0310	0.4997	0.4801	0.5071	4.7894	0.4894
CCB	-0.0094	-0.0023	0.0011	0.0009	0.0012	0.0092	-0.0039	-0.0012	-0.0010	-0.0012	-0.0103	0.0006
1706244-2	84.3472	-0.0004	-0.0016	-0.0057	0.0005	3.2680	0.0030	0.5882	-0.0007	0.0031	-0.0104	0.0003
1705515-2 10X	0.0237	-0.0004	-0.0005	-0.0015	0.0001	0.9629	0.0032	0.0780	-0.0008	0.0025	0.0075	0.0006

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
1705515-4 10X	0.0289	-0.0028	-0.0013	-0.0109	0.0035	0.6925	0.0024	0.0437	-0.0007	-0.0056	-0.0155	-0.0005
1706114-22 50X	0.0008	-0.0001	-0.0008	-0.0067	0.0022	0.0022	-0.0046	-0.0004	-0.0012	-0.0029	-0.0201	-0.0004
IP170619-9MB	-0.0069	-0.0010	-0.0018	-0.0112	0.0029	0.0024	0.0183	-0.0013	-0.0017	-0.0094	-0.0163	-0.0004
IP170619-9LCS	9.9309	-0.0001	0.0006	-0.0038	0.0028	0.0012	0.0127	-0.0013	-0.0017	-0.0017	-0.0081	0.0006
1706229-1	4.0979	0.0061	0.0000	-0.0063	0.0032	5.0517	0.0182	0.2686	1.0631	-0.0131	0.0903	0.2057
1706229-1D	2.3768	0.0051	0.0032	-0.0047	0.0072	4.9008	0.0185	0.2941	0.9279	-0.0188	0.1275	0.1877
1706229-1L 5X	0.8663	-0.0021	0.0012	-0.0008	0.0023	1.1107	0.0036	0.0555	0.2270	-0.0033	-0.0043	0.0435
1706229-1MS	13.1177	0.0056	0.0016	0.0020	0.0014	4.5675	0.0227	7.4119	0.9672	-0.0042	0.1283	0.1683
CCV	5.2011	0.5057	0.9962	1.0049	0.9919	4.8891	1.0484	0.4990	0.4866	0.5179	4.8149	0.4974
CCB	0.0033	0.0007	0.0019	0.0026	0.0016	0.0075	0.0015	-0.0010	-0.0008	-0.0030	-0.0011	0.0005
1706229-1MSD	12.3615	0.0027	0.0016	-0.0028	0.0038	4.2192	0.0174	0.2472	0.9833	-0.0117	0.1059	0.2162
1706349-1 10X	3.1164	0.0064	0.0036	-0.0016	0.0062	0.4498	0.0097	0.1042	0.5781	-0.0157	0.0185	0.3176
1706349-2 10X	1.4635	0.0112	0.0034	-0.0006	0.0054	0.3136	0.0101	0.0917	0.5715	-0.0241	0.0547	0.3047
1706349-3 10X	1.5630	0.0084	0.0033	0.0038	0.0031	0.3266	0.0088	0.0935	0.5847	-0.0240	0.0545	0.3094
1706349-4 10X	1.6064	0.0068	0.0076	0.0028	0.0100	0.7372	0.0090	0.1306	1.1839	-0.0229	0.0360	0.9195
1706349-5 10X	1.5196	0.0091	0.0035	0.0021	0.0043	0.5110	0.0082	0.1250	1.1678	-0.0201	0.0404	0.9272
Z	0.2459	0.1275	0.0087	0.0058	0.0102	0.1174	0.1114	0.0205	0.0205	0.0183	0.1708	0.1076
Z	-0.0171	-0.0042	0.0001	-0.0110	0.0056	-0.0866	-0.0046	-0.0015	-0.0018	-0.0082	-0.0414	-0.0012
CCV	5.0865	0.5005	0.9913	0.9945	0.9897	4.8319	1.0213	0.4972	0.4796	0.5035	4.8131	0.4875
CCB	-0.0094	0.0004	0.0041	0.0023	0.0050	0.0093	0.0003	-0.0006	-0.0006	-0.0011	-0.0080	0.0002
CRI	0.2408	0.1308	0.0104	0.0113	0.0099	0.1236	0.1085	0.0204	0.0206	0.0201	0.2076	0.1085
LCV	0.1948	0.0507	0.0304	0.0307	0.0302	0.1025	0.0528	0.0190	0.0194	0.0273	0.1882	0.0205
ICSA	0.0493	0.0047	-0.0018	0.0007	-0.0030	0.0134	0.0076	0.0150	-0.0020	-0.0106	0.0334	0.0015
ICSAB	1.1011	0.6241	0.0500	0.0609	0.0446	0.9865	1.0476	1.0287	0.9614	0.0967	9.9551	0.4984
CCV	5.0941	0.4940	0.9919	0.9982	0.9888	4.8198	1.0284	0.4943	0.4780	0.5015	4.7860	0.4882
CCB	0.0033	-0.0022	0.0001	-0.0027	0.0015	0.0080	-0.0031	-0.0006	-0.0006	-0.0003	-0.0149	0.0000

Sample Id1	Zn	Zr
MIXAHIGH	0.0074	0.0077
MIXBHIGH	10.4478	-0.0131
MIXCHIGH	-0.0267	4.9711
ICV	0.5010	0.5079
ICB	0.0000	0.0000
CRI	0.0415	0.0549
LIV	0.0204	0.0214
ICSA	0.0044	0.0025
ICSAB	0.9254	0.4940
CCV	0.9603	0.9817
CCB	0.0008	0.0005
IP170613-1MB	0.0003	0.0000
IP170613-1LCS	0.4939	0.0010
1705533-2	0.5383	0.0419
1705533-2D	0.5148	0.0459
1705533-2L 5X	0.1142	0.0088
1705533-2MS	0.9724	0.0625
1705533-2MSD	0.9972	0.0629
1705533-2A	0.9931	0.0393
1705533-2 2X	0.2872	0.0215
1705533-2D 2X	0.2759	0.0235
CCV	1.0045	0.9821
CCB	0.0006	0.0005
1705533-2L 10X	0.0607	0.0050
1705533-2MS 2X	0.5333	0.0331
1705533-2MSD 2X	0.5467	0.0329
FP170613-3MB	0.0022	-0.0001
IP170613-3MB	0.0022	-0.0003
IP170613-3LCS	0.5249	0.0000
1706089-1	0.0017	-0.0037
1706089-1D	0.0014	-0.0039
1706089-1L 5X	0.0016	-0.0007
1706089-1MS	0.4906	-0.0035
CCV	0.9986	0.9787
CCB	0.0024	0.0006
1706089-1MSD	0.4961	-0.0032
1706089-2	0.0019	-0.0041
1706089-3	0.0176	-0.0039
1706089-4	0.0227	-0.0038
1706126-1	0.0050	-0.0037
1706126-2	0.0032	-0.0032
1706126-3	0.0025	-0.0034
1706126-4	0.0031	-0.0032
1706236-1	0.0482	0.0036
1706236-2	0.1184	0.0030
CCV	1.0014	0.9842
CCB	0.0014	0.0010
1706236-3	4.9184	0.1161
1706236-1 10X	0.0061	0.0013
1706236-2 10X	0.0130	0.0002

Sample Id1	Zn	Zr
1706236-3 10X	0.5992	0.0131
IP170614-2MB	0.0022	0.0001
IP170614-2LCS	0.5027	0.0008
1705328-1	0.2279	0.1143
1705328-1D	0.2322	0.1153
1705328-1L 5X	0.0461	0.0231
1705328-1MS	0.7413	0.1196
CCV	1.0146	0.9941
CCB	0.0027	0.0002
1705328-1MSD	0.7455	0.1129
1705328-2	0.2503	0.0782
1705328-3	0.3591	0.1204
1705328-4	0.2126	0.1233
1705328-5	0.1832	0.0627
1705328-6	0.2682	0.1053
1705328-7	0.3279	0.1287
1705328-8	0.2432	0.1307
1705328-9	0.2094	0.1688
1705577-2	0.1126	0.0251
CCV	1.0228	0.9912
CCB	0.0013	0.0009
1705577-2D	0.1137	0.0242
1705577-2L 5X	0.0249	0.0054
1705577-2MS	0.5741	0.0173
1705577-2MSD	0.6009	0.0281
1706210-2	0.5473	0.0526
1705328-1A	0.6860	0.1032
1705577-2A	0.6108	0.0237
1705577-2MS 2X	0.2975	0.0089
1705577-2MSD 2X	0.3105	0.0139
1706210-2 2X	0.2804	0.0265
CCV	0.9857	0.9781
CCB	0.0024	0.0010
FP170614-3MB	0.0006	-0.0001
IP170614-3MB	0.0007	0.0004
IP170614-3LCS	0.5003	-0.0005
1705515-1	0.0027	-0.0015
1705515-1D	0.0030	-0.0014
1705515-1L 5X	0.0000	-0.0006
1705515-1MS	0.4884	-0.0018
1705515-1MSD	0.4994	-0.0021
1705515-3	0.0010	-0.0007
1706185-1 10X	-0.0036	-0.0008
CCV	1.0115	0.9901
CCB	0.0021	0.0011
1706185-3 10X	-0.0019	-0.0002
1706271-1 10X	0.2823	-0.0005
1706271-2 10X	0.0033	-0.0006
1706286-1 10X	0.0088	-0.0002
1706286-3 10X	0.0616	-0.0007

Sample Id1	Zn	Zr
1705515-1 10X	0.0016	-0.0001
1705515-1D 10X	0.0021	-0.0001
1705515-1L 50X	0.0027	0.0002
1705515-1MS 10X	0.0507	0.0001
1705515-1MSD 10X	0.0524	-0.0003
CCV	1.0132	0.9908
CCB	0.0010	0.0010
1705515-3 10X	0.0022	0.0007
1706185-1 500X	0.0017	0.0003
1706185-3 500X	0.0007	0.0001
1706271-1 500X	0.0082	-0.0001
1706271-2 500X	0.0008	0.0001
1706286-1 500X	0.0014	0.0002
1706286-3 500X	0.0023	-0.0002
CCV	1.0102	0.9895
CCB	0.0021	0.0013
CRI	0.0439	0.0559
LCV	0.0213	0.0217
ICSA	0.0056	0.0022
ICSAB	0.9572	0.4986
CCV	1.0128	0.9916
CCB	0.0010	0.0014
CCV	0.9782	0.9725
CCB	-0.0001	0.0002
IP170619-8MB	0.0005	0.0002
IP170619-8LCS	0.5093	-0.0005
1705515-2	0.0020	-0.0016
1705515-4	-0.0009	-0.0013
1705609-1	0.1774	-0.0003
1706114-21	0.0203	0.0038
1706114-22	0.0140	0.0001
1706114-23	0.0168	-0.0010
1706114-24	0.0199	-0.0011
1706114-25	0.0153	-0.0007
CCV	0.9886	0.9782
CCB	0.0002	0.0002
1706114-26	0.0182	-0.0004
1706114-27	0.0137	-0.0007
1706114-28	0.0103	-0.0007
1706114-29	0.0254	-0.0015
1706114-30 50X	0.0025	0.0002
1706114-30D 50X	0.0020	0.0000
1706114-30L 250X	0.0032	0.0002
1706114-30MS 50X	0.0129	0.0002
1706114-30MSD 50X	0.0137	0.0000
1706244-1	-0.0001	-0.0005
CCV	0.9841	0.9768
CCB	0.0007	0.0007
1706244-2	0.0002	0.0002
1705515-2 10X	0.0027	0.0005

Sample Id1	Zn	Zr
1705515-4 10X	0.0011	0.0001
1706114-22 50X	0.0121	0.0001
IP170619-9MB	0.0208	0.0000
IP170619-9LCS	0.0212	0.0003
1706229-1	0.2416	0.0325
1706229-1D	0.3295	0.0331
1706229-1L 5X	0.0536	0.0071
1706229-1MS	0.1846	0.0331
CCV	1.0085	0.9895
CCB	0.0010	0.0008
1706229-1MSD	0.1893	0.0334
1706349-1 10X	0.2548	0.1122
1706349-2 10X	0.2353	0.1270
1706349-3 10X	0.2410	0.1311
1706349-4 10X	0.3898	0.1775
1706349-5 10X	0.3692	0.1805
Z	0.0439	0.0558
Z	-0.0009	-0.0003
CCV	0.9743	0.9740
CCB	0.0002	0.0011
CRI	0.0447	0.0558
LCV	0.0210	0.0213
ICSA	0.0037	0.0026
ICSAB	0.9590	0.4960
CCV	0.9856	0.9742
CCB	0.0005	0.0010

Method : Paragon2
SampleId1 : BLANK
Analysis commenced : 6/20/2017 09:31:17
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170620A
SampleId2 :
[STD]
Position : TUBE1

Printed : 6/20/2017 09:46:32

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	116.600	214.200	277.200	82.800	24.200	563.200	183.200	50.400	138.000	
#2	117.200	213.600	275.200	84.400	24.800	555.200	182.600	50.800	135.400	
Mean	116.900	213.900	276.200	83.600	24.500	559.200	182.900	50.600	136.700	
%RSD	0.363	0.198	0.512	1.353	1.732	1.012	0.232	0.559	1.345	

		Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	129.800	234.800	68.200	54.600	715.200	112.400	132.200	14.600	122.000	
#2	131.200	237.800	68.400	55.600	727.400	113.600	134.000	14.800	125.800	
Mean	130.500	236.300	68.300	55.100	721.300	113.000	133.100	14.700	123.900	
%RSD	0.759	0.898	0.207	1.283	1.196	0.751	0.956	0.962	2.169	

		Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	118.600	254.200	3.000	2508.000	765.200	10.400	201.200	626.000	434.000	
#2	119.600	261.000	3.000	2535.000	770.800	11.400	200.200	631.200	433.600	
Mean	119.100	257.600	3.000	2521.500	768.000	10.900	200.700	628.600	433.800	
%RSD	0.594	1.867	0.000	0.757	0.516	6.487	0.352	0.585	0.065	

		Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	334.800	122.400	40.200	219.400	332.800	182.800	157.800	28.200	279.800	
#2	334.800	122.800	40.400	222.800	326.200	184.400	160.800	28.600	282.400	
Mean	334.800	122.600	40.300	221.100	329.500	183.600	159.300	28.400	281.100	
%RSD	0.000	0.231	0.351	1.087	1.416	0.616	1.332	0.996	0.654	

		Pb	Se
Raw intensities			
	Reading		
#1			
#2			
Mean	0.000	0.000	
%RSD	0.000	0.000	

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : RL **SampleId2 :**
Analysis commenced : 6/20/2017 09:32:25
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:33
 [STD]

Position : TUBE2

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	124.800	247.600	287.200	197.600	32.200	669.800	192.800	180.000	154.000
#2	124.000	248.200	289.200	202.000	32.400	662.600	187.400	179.600	148.400
Mean	124.400	247.900	288.200	199.800	32.300	666.200	190.100	179.800	151.200
%RSD	0.455	0.171	0.491	1.557	0.438	0.764	2.009	0.157	2.619

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	136.800	250.000	72.200	132.000	883.200	358.200	215.400	18.800	158.400
#2	135.600	252.000	72.000	132.200	881.600	358.400	213.800	18.600	157.600
Mean	136.200	251.000	72.100	132.100	882.400	358.300	214.600	18.700	158.000
%RSD	0.623	0.563	0.196	0.107	0.128	0.039	0.527	0.756	0.358

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	1005.000	289.400	3.200	2570.000	793.800	12.800	208.800	644.400	445.400
#2	1006.200	284.400	3.200	2547.800	799.200	13.200	210.600	641.600	444.800
Mean	1005.600	286.900	3.200	2558.900	796.500	13.000	209.700	643.000	445.100
%RSD	0.084	1.232	0.000	0.613	0.479	2.176	0.607	0.308	0.095

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	401.600	127.800	185.400	366.200	343.600	205.200	168.400	32.200	335.200
#2	402.800	129.600	186.400	364.000	335.400	203.200	166.800	32.800	334.600
Mean	402.200	128.700	185.900	365.100	339.500	204.200	167.600	32.500	334.900
%RSD	0.211	0.989	0.380	0.426	1.708	0.693	0.675	1.305	0.127

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : RL2 SampleId2 :
Analysis commenced : 6/20/2017 09:33:32
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:33
[STD]

Position : TUBE3

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities								
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1 136.400	315.000	301.800	436.000	48.400	883.000	198.800	442.000	175.800
#2 133.200	316.200	295.800	433.200	48.000	881.600	200.000	440.800	174.200
Mean 134.800	315.600	298.800	434.600	48.200	882.300	199.400	441.400	175.000
%RSD 1.679	0.269	1.420	0.456	0.587	0.112	0.426	0.192	0.646

Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities								
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1 146.800	279.600	78.600	285.000	1223.200	878.400	380.400	27.200	217.000
#2 147.400	280.400	78.200	285.800	1222.000	881.200	377.000	27.000	217.200
Mean 147.100	280.000	78.400	285.400	1222.600	879.800	378.700	27.100	217.100
%RSD 0.288	0.202	0.361	0.198	0.069	0.225	0.635	0.522	0.065

Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities								
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1 2852.600	356.400	3.400	2669.600	855.200	17.800	232.000	666.800	469.400
#2 2861.400	354.600	3.400	2657.800	846.000	17.600	230.200	660.000	474.600
Mean 2857.000	355.500	3.400	2663.700	850.600	17.700	231.100	663.400	472.000
%RSD 0.218	0.358	0.000	0.313	0.765	0.799	0.551	0.725	0.779

Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities								
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1 537.600	139.400	480.000	649.000	372.200	244.400	188.200	39.800	451.400
#2 534.600	140.000	482.400	645.600	361.200	246.000	186.400	39.600	450.000
Mean 536.100	139.700	481.200	647.300	366.700	245.200	187.300	39.700	450.700
%RSD 0.396	0.304	0.353	0.371	2.121	0.461	0.680	0.356	0.220

Pb	Se
Raw intensities	
Reading	Reading
#1	
#2	
Mean 0.000	0.000
%RSD 0.000	0.000

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : B3 **SampleId2 :**
Analysis commenced : 6/20/2017 09:34:39
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:33
[STD]
 Position : TUBE4

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	164.000	213.600	364.800	291.000	348.000	1394.800	186.000	51.400	625.200
#2	164.200	212.800	362.800	291.600	349.800	1395.400	185.800	51.600	623.000
Mean	164.100	213.200	363.800	291.300	348.900	1395.100	185.900	51.500	624.100
%RSD	0.086	0.265	0.389	0.146	0.365	0.030	0.076	0.275	0.249

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	246.400	764.000	195.600	55.600	723.800	114.000	133.800	181.800	398.400
#2	248.200	763.000	195.000	55.400	718.800	112.400	133.200	182.200	397.600
Mean	247.300	763.500	195.300	55.500	721.300	113.200	133.500	182.000	398.000
%RSD	0.515	0.093	0.217	0.255	0.490	0.999	0.318	0.155	0.142

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	120.800	841.600	4.000	3155.000	1153.000	11.000	223.800	693.600	536.200
#2	120.200	831.200	4.000	3130.800	1139.400	10.800	224.800	691.000	543.200
Mean	120.500	836.400	4.000	3142.900	1146.200	10.900	224.300	692.300	539.700
%RSD	0.352	0.879	0.000	0.544	0.839	1.297	0.315	0.266	0.917

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	908.000	170.600	1314.800	1468.800	413.400	185.600	342.400	97.000	290.400
#2	906.400	171.600	1321.200	1470.000	418.200	185.600	345.000	97.200	287.400
Mean	907.200	171.100	1318.000	1469.400	415.800	185.600	343.700	97.100	288.900
%RSD	0.125	0.413	0.343	0.058	0.816	0.000	0.535	0.146	0.734

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : B2 **SampleId2 :**
Analysis commenced : 6/20/2017 09:35:45
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:33
[STD]

Position : TUBE5

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	579.000	221.600	1133.600	2176.200	3249.800	9134.000	197.600	53.200	4996.000
#2	576.000	221.600	1136.200	2195.000	3295.200	9149.200	193.600	52.000	5047.200
Mean	577.500	221.600	1134.900	2185.600	3272.500	9141.600	195.600	52.600	5021.600
%RSD	0.367	0.000	0.162	0.608	0.981	0.118	1.446	1.613	0.721

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	1318.600	5537.400	1342.200	60.600	734.800	116.000	136.600	1700.600	2894.200
#2	1319.400	5539.600	1364.400	58.600	715.600	112.800	133.800	1707.800	2898.600
Mean	1319.000	5538.500	1353.300	59.600	725.200	114.400	135.200	1704.200	2896.400
%RSD	0.043	0.028	1.160	2.373	1.872	1.978	1.464	0.299	0.107

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	141.200	6111.200	12.800	8909.800	4542.200	11.000	439.600	1342.800	1474.400
#2	139.200	6101.400	12.600	8913.800	4557.800	10.800	435.200	1342.200	1496.400
Mean	140.200	6106.300	12.700	8911.800	4550.000	10.900	437.400	1342.500	1485.400
%RSD	1.009	0.113	1.114	0.032	0.242	1.297	0.711	0.032	1.047

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	6070.400	615.600	12713.000	12699.000	1172.800	186.600	2009.400	727.600	304.400
#2	6154.800	616.800	12860.000	12816.800	1182.000	182.800	2018.000	722.000	295.400
Mean	6112.600	616.200	12786.500	12757.900	1177.400	184.700	2013.700	724.800	299.900
%RSD	0.976	0.138	0.813	0.653	0.553	1.455	0.302	0.546	2.122

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : B1 SampleId2 :
Analysis commenced : 6/20/2017 09:36:52
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:33
[STD]

Position : TUBE6

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	4756.200	312.200	8862.200	21136.600	31722.000	85961.400	270.800	64.800	47662.200
#2	4732.200	309.600	8847.200	20990.000	31541.000	85798.000	268.000	65.400	47491.400
Mean	4744.200	310.900	8854.700	21063.300	31631.500	85879.700	269.400	65.100	47576.800
%RSD	0.358	0.591	0.120	0.492	0.405	0.135	0.735	0.652	0.254

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	12022.600	53506.000	13160.200	96.000	722.600	122.800	151.800	16301.600	27535.000
#2	11980.000	53367.800	13034.400	96.400	729.000	124.400	153.200	16269.800	27464.200
Mean	12001.300	53436.900	13097.300	96.200	725.800	123.600	152.500	16285.700	27499.600
%RSD	0.251	0.183	0.679	0.294	0.624	0.915	0.649	0.138	0.182

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	153.200	58641.600	91.400	66982.000	38268.600	15.200	2575.600	7765.800	10732.400
#2	153.600	58462.600	92.800	66864.200	38704.000	14.400	2559.800	7687.600	10980.200
Mean	153.400	58552.100	92.100	66923.100	38486.300	14.800	2567.700	7726.700	10856.300
%RSD	0.184	0.216	1.075	0.124	0.800	3.822	0.435	0.716	1.614

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	57450.600	5074.400	119038.200	126584.000	8918.400	205.000	18808.800	6862.200	371.400
#2	56999.600	5066.400	118709.400	126139.200	8903.600	206.800	18723.800	6879.200	370.400
Mean	57225.100	5070.400	118873.800	126361.600	8911.000	205.900	18766.300	6870.700	370.900
%RSD	0.557	0.112	0.196	0.249	0.117	0.618	0.320	0.175	0.191

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : A5 SampleId2 :
Analysis commenced : 6/20/2017 09:37:58
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]
Position : TUBE7

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	120.000	1671.800	287.400	104.000	29.200	564.200	185.400	2902.600	145.800	
#2	117.600	1664.800	278.400	103.000	28.800	561.800	186.800	2891.200	144.800	
Mean	118.800	1668.300	282.900	103.500	29.000	563.000	186.100	2896.900	145.300	
%RSD	1.428	0.297	2.250	0.683	0.975	0.301	0.532	0.278	0.487	

		Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	133.200	248.800	71.400	2796.800	1515.800	2553.800	1856.000	17.400	142.400	
#2	131.200	245.200	70.800	2798.200	1512.400	2553.000	1851.800	17.000	137.000	
Mean	132.200	247.000	71.100	2797.500	1514.100	2553.400	1853.900	17.200	139.700	
%RSD	1.070	1.031	0.597	0.035	0.159	0.022	0.160	1.644	2.733	

		Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	2702.200	266.800	3.200	2567.400	793.600	10.800	209.800	643.600	447.800	
#2	2695.000	256.000	3.000	2569.400	793.800	10.800	205.400	638.800	449.600	
Mean	2698.600	261.400	3.100	2568.400	793.700	10.800	207.600	641.200	448.700	
%RSD	0.189	2.921	4.562	0.055	0.018	0.000	1.499	0.529	0.284	

		Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities										
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	400.400	125.000	58.400	261.200	343.600	191.400	165.600	29.800	282.400	
#2	384.200	125.200	57.200	255.000	341.000	189.000	164.000	29.800	280.800	
Mean	392.300	125.100	57.800	258.100	342.300	190.200	164.800	29.800	281.600	
%RSD	2.920	0.113	1.468	1.699	0.537	0.892	0.687	0.000	0.402	

		Pb	Se
Raw intensities			
	Reading		
#1			
#2			
Mean	0.000	0.000	
%RSD	0.000	0.000	

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : A4 **SampleId2 :**
Analysis commenced : 6/20/2017 09:39:05
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]

Position : TUBE8

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	123.400	14526.200	319.200	101.600	25.800	566.600	191.400	27330.400	144.000
#2	121.200	14702.000	316.000	98.800	25.800	565.000	184.400	27420.400	142.400
Mean	122.300	14614.100	317.600	100.200	25.800	565.800	187.900	27375.400	143.200
%RSD	1.272	0.851	0.712	1.976	0.000	0.200	2.634	0.232	0.790

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	136.000	273.000	71.600	25871.000	10656.800	32146.400	16608.600	18.200	153.400
#2	133.600	268.800	71.200	26009.200	10781.800	32568.800	16742.400	18.200	152.400
Mean	134.800	270.900	71.400	25940.100	10719.300	32357.600	16675.500	18.200	152.900
%RSD	1.259	1.096	0.396	0.377	0.825	0.923	0.567	0.000	0.462

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	30130.600	262.800	3.200	2947.200	897.600	12.200	257.000	739.600	509.400
#2	30483.800	257.400	3.200	2925.400	902.200	12.200	250.400	743.800	520.000
Mean	30307.200	260.100	3.200	2936.300	899.900	12.200	253.700	741.700	514.700
%RSD	0.824	1.468	0.000	0.525	0.361	0.000	1.840	0.400	1.456

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	390.600	139.200	53.200	262.000	391.000	228.200	185.000	35.400	301.000
#2	387.400	139.200	52.400	258.600	381.000	221.800	182.600	35.600	297.600
Mean	389.000	139.200	52.800	260.300	386.000	225.000	183.800	35.500	299.300
%RSD	0.582	0.000	1.071	0.924	1.832	2.011	0.923	0.398	0.803

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : A3 SampleId2 :
Analysis commenced : 6/20/2017 09:40:11
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]

Position : TUBE9

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	126.800	28335.600		353.600	106.400	26.600	578.000	193.000	52851.000	146.400
#2	125.800	28414.600		354.000	106.000	26.600	578.000	191.800	52999.200	149.400
Mean	126.300	28375.100		353.800	106.200	26.600	578.000	192.400	52925.100	147.900
%RSD	0.560	0.197		0.080	0.266	0.000	0.000	0.441	0.198	1.434

		Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	138.800	284.600		72.400	49163.200	21380.600	69396.800	32407.000	21.200	177.000
#2	139.000	285.600		72.400	49411.400	21435.200	69609.000	32529.800	21.400	178.400
Mean	138.900	285.100		72.400	49287.300	21407.900	69502.900	32468.400	21.300	177.700
%RSD	0.102	0.248		0.000	0.356	0.180	0.216	0.267	0.664	0.557

		Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	59586.400	270.600		3.200	3360.200	1035.400	13.400	306.400	853.600	582.000
#2	59638.400	264.800		3.200	3355.800	1042.200	13.600	306.400	854.200	593.400
Mean	59612.400	267.700		3.200	3358.000	1038.800	13.500	306.400	853.900	587.700
%RSD	0.062	1.532		0.000	0.093	0.463	1.048	0.000	0.050	1.372

		Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	415.800	153.600		61.800	273.000	434.800	254.000	199.600	42.400	311.600
#2	416.400	154.000		61.600	275.000	427.400	253.200	199.400	43.000	309.200
Mean	416.100	153.800		61.700	274.000	431.100	253.600	199.500	42.700	310.400
%RSD	0.102	0.184		0.229	0.516	1.214	0.223	0.071	0.994	0.547

		Pb	Se							
Raw intensities										
Reading										
#1										
#2										
Mean	0.000	0.000	0.000							
%RSD	0.000	0.000	0.000							

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : A2 **SampleId2 :**
Analysis commenced : 6/20/2017 09:41:18
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]

Position : TUBE10

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	129.200	55067.000	437.200	122.400	28.000	605.600	197.000	101232.600	163.600
#2	128.800	55009.800	425.200	122.400	28.000	599.000	196.600	101208.800	163.000
Mean	129.000	55038.400	431.200	122.400	28.000	602.300	196.800	101220.700	163.300
%RSD	0.219	0.073	1.968	0.000	0.000	0.775	0.144	0.017	0.260

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	148.000	306.600	73.600	91614.400	42170.000	147887.000	63401.400	27.200	230.800
#2	147.400	305.400	74.400	91619.200	42119.400	147513.200	63362.200	27.400	231.200
Mean	147.700	306.000	74.000	91616.800	42144.700	147700.100	63381.800	27.300	231.000
%RSD	0.287	0.277	0.764	0.004	0.085	0.179	0.044	0.518	0.122

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	111532.800	279.200	3.200	4179.000	1299.400	15.800	414.200	1074.000	743.200
#2	111279.000	277.600	3.400	4172.400	1305.200	16.800	410.000	1072.200	739.200
Mean	111405.900	278.400	3.300	4175.700	1302.300	16.300	412.100	1073.100	741.200
%RSD	0.161	0.406	4.285	0.112	0.315	4.338	0.721	0.119	0.382

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	451.800	185.200	78.400	293.600	531.200	297.400	224.800	56.200	322.400
#2	449.400	186.600	78.400	293.600	531.400	297.400	224.000	56.400	324.600
Mean	450.600	185.900	78.400	293.600	531.300	297.400	224.400	56.300	323.500
%RSD	0.377	0.533	0.000	0.000	0.027	0.000	0.252	0.251	0.481

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1	451.800	185.200
#2	449.400	186.600
Mean	450.600	185.900
%RSD	0.377	0.533

ted: 6/20/2017 09:46:35 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : A1 **SampleId2 :**
Analysis commenced : 6/20/2017 09:42:24
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]
 Position : TUBE11

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	136.000	126645.800	656.600	171.600	32.800	650.400	219.200	227927.000	197.800
#2	134.800	127052.000	663.600	170.400	32.800	651.800	215.800	227716.400	204.000
Mean	135.400	126848.900	660.100	171.000	32.800	651.100	217.500	227821.700	200.900
%RSD	0.627	0.226	0.750	0.496	0.000	0.152	1.105	0.065	2.182

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	173.600	357.400	79.000	191131.000	95285.000	379014.800	150826.600	44.400	395.200
#2	172.800	357.800	78.400	190827.600	95664.000	381061.800	151138.800	44.600	390.800
Mean	173.200	357.600	78.700	190979.300	95474.500	380038.300	150982.700	44.500	393.000
%RSD	0.327	0.079	0.539	0.112	0.281	0.381	0.146	0.318	0.792

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	221062.800	314.400	3.600	6616.000	2067.000	24.800	727.000	1750.000	1188.400
#2	221662.800	315.600	3.600	6628.000	2077.200	25.000	728.800	1738.200	1195.800
Mean	221362.800	315.000	3.600	6622.000	2072.100	24.900	727.900	1744.100	1192.100
%RSD	0.192	0.269	0.000	0.128	0.348	0.568	0.175	0.478	0.439

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities									
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	529.200	277.000	125.600	338.600	825.600	419.600	290.800	99.600	359.200
#2	528.200	277.200	125.600	336.000	842.600	421.000	291.000	100.000	358.800
Mean	528.700	277.100	125.600	337.300	834.100	420.300	290.900	99.800	359.000
%RSD	0.134	0.051	0.000	0.545	1.441	0.236	0.049	0.283	0.079

	Pb	Se
Raw intensities		
Reading	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : C3 SampleId2 :
Analysis commenced : 6/20/2017 09:43:31
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:34
[STD]
Position : TUBE12

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	121.200	227.400	277.600	86.200	24.400	554.600	229.600	74.400	138.000	
#2	119.800	225.600	273.000	85.800	24.400	552.600	232.000	71.200	136.400	
Mean	120.500	226.500	275.300	86.000	24.400	553.600	230.800	72.800	137.200	
%RSD	0.822	0.562	1.182	0.329	0.000	0.255	0.735	3.108	0.825	

		Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	130.800	246.200	70.200	85.000	731.600	134.200	153.400	15.000	120.400	
#2	130.600	241.800	69.600	79.200	729.000	131.600	152.200	15.000	123.400	
Mean	130.700	244.000	69.900	82.100	730.300	132.900	152.800	15.000	121.900	
%RSD	0.108	1.275	0.607	4.995	0.252	1.383	0.555	0.000	1.740	

		Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	168.000	257.400	3.000	2546.000	769.800	31.000	202.000	632.200	429.600	
#2	162.600	253.800	3.200	2512.200	763.600	31.200	202.000	626.200	428.400	
Mean	165.300	255.600	3.100	2529.100	766.700	31.100	202.000	629.200	429.000	
%RSD	2.310	0.996	4.562	0.945	0.572	0.455	0.000	0.674	0.198	

		Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	342.200	123.000	40.400	229.200	329.800	273.200	159.600	28.600	743.800	
#2	343.200	121.600	40.400	226.200	329.400	270.800	160.200	28.600	746.800	
Mean	342.700	122.300	40.400	227.700	329.600	272.000	159.900	28.600	745.300	
%RSD	0.206	0.809	0.000	0.932	0.086	0.624	0.265	0.000	0.285	

		Pb	Se	
Raw intensities				
Reading				
#1				
#2				
Mean	0.000	0.000		
%RSD	0.000	0.000		

ted: 6/20/2017 09:46:35 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : C2 SampleId2 :
Analysis commenced : 6/20/2017 09:44:38
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:35
[STD]
Position : TUBE13

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities				Reading	Reading	Reading	Reading	Reading	Reading
#1	146.200	240.800	270.800	95.200	24.800	592.600	625.600	66.800	138.800
#2	146.400	241.000	275.200	96.000	24.800	591.600	632.200	66.600	138.400
Mean	146.300	240.900	273.000	95.600	24.800	592.100	628.900	66.700	138.600
%RSD	0.097	0.059	1.140	0.592	0.000	0.119	0.742	0.212	0.204

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities				Reading	Reading	Reading	Reading	Reading	Reading
#1	134.800	305.600	78.600	70.600	726.800	120.400	198.800	17.000	123.600
#2	135.200	308.200	78.600	69.600	723.000	119.600	197.400	17.000	126.800
Mean	135.000	306.900	78.600	70.100	724.900	120.000	198.100	17.000	125.200
%RSD	0.210	0.599	0.000	1.009	0.371	0.471	0.500	0.000	1.807

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities				Reading	Reading	Reading	Reading	Reading	Reading
#1	141.200	262.600	3.200	2603.600	808.000	211.200	205.600	634.200	435.800
#2	141.000	265.400	3.200	2607.800	801.600	212.200	202.400	636.800	437.400
Mean	141.100	264.000	3.200	2605.700	804.800	211.700	204.000	635.500	436.600
%RSD	0.100	0.750	0.000	0.114	0.562	0.334	1.109	0.289	0.259

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities				Reading	Reading	Reading	Reading	Reading	Reading
#1	386.800	123.200	42.800	257.400	334.400	1087.200	180.400	29.200	5264.000
#2	387.800	125.600	42.600	258.600	328.800	1086.800	180.200	28.800	5297.400
Mean	387.300	124.400	42.700	258.000	331.600	1087.000	180.300	29.000	5280.700
%RSD	0.183	1.364	0.331	0.329	1.194	0.026	0.078	0.975	0.447

	Pb	Se
Raw intensities		
Reading		
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

ted: 6/20/2017 09:46:36 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : C1 SampleId2 :
Analysis commenced : 6/20/2017 09:45:45
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 09:46:35
[STD]
Position : TUBE14

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	403.600	483.600	298.400	176.800	29.200	989.000	4701.000	157.200	168.600	
#2	406.400	477.600	307.000	179.200	30.000	982.200	4663.400	156.800	168.600	
Mean	405.000	480.600	302.700	178.000	29.600	985.600	4682.200	157.000	168.600	
%RSD	0.489	0.883	2.009	0.953	1.911	0.488	0.568	0.180	0.000	

		Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	176.200	974.200	168.400	154.400	719.800	125.600	769.600	37.600	136.800	
#2	179.000	970.800	168.000	154.000	735.200	127.200	765.000	37.600	137.400	
Mean	177.600	972.500	168.200	154.200	727.500	126.400	767.300	37.600	137.100	
%RSD	1.115	0.247	0.168	0.183	1.497	0.895	0.424	0.000	0.309	

		Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	152.800	335.400	3.200	3439.800	1136.600	2045.000	225.000	721.000	480.200	
#2	153.600	343.400	3.200	3472.200	1136.600	2030.400	229.800	722.400	483.200	
Mean	153.200	339.400	3.200	3456.000	1136.600	2037.700	227.400	721.700	481.700	
%RSD	0.369	1.667	0.000	0.663	0.000	0.507	1.493	0.137	0.440	

		Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Raw intensities										
Reading				Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	862.800	142.200	66.800	577.800	375.600	9349.400	392.000	33.400	51611.800	
#2	861.400	143.000	67.400	574.400	385.200	9213.200	395.200	33.400	51198.200	
Mean	862.100	142.600	67.100	576.100	380.400	9281.300	393.600	33.400	51405.000	
%RSD	0.115	0.397	0.632	0.417	1.784	1.038	0.575	0.000	0.569	

		Pb	Se	
Raw intensities				
Reading				
#1				
#2				
Mean	0.000	0.000		
%RSD	0.000	0.000		

Line calibration information

Analyte	Reporting name	C0	C1	C2	C3	Correlation coefficient	Low limit	High limit	Date of last regression
Ag 328.068	Ag	-0.000131	0.0004576	0.0	0	1.0000	-0.300	4422.700	6/20/2017 09:47:15
Al 308.215	Al	-0.1956387	0.0035248	0.0	0	1.0000	55.200	122893.800	6/20/2017 09:47:15
As 189.042/2	As	0.0078035	0.0006361	0.0	0	1.0000	-12.300	7868.000	6/20/2017 09:47:15
B 249.678/2	B	-0.0066612	0.0005342	0.0	0	1.0000	2.150	18732.300	6/20/2017 09:47:15
Ba 493.409	Ba	-0.0004136	0.0003158	0.0	0	1.0000	0.300	30705.000	6/20/2017 09:47:15
Be 313.042	Be	-0.0067274	0.0000117	0.0	0	1.0000	559.200	85879.700	6/20/2017 09:47:16
Bi 223.061	Bi	0.0019065	0.0012945	0.0	0	1.0000	-2.600	3915.800	6/20/2017 09:47:16
Ca 317.933	Ca	-0.1361837	0.0018658	0.0	0	1.0000	4.400	219822.500	6/20/2017 09:47:16
Cd 226.502/2	Cd	-0.0006928	0.0001181	0.0	0	1.0000	3.300	41002.600	6/20/2017 09:47:16
Co 228.616	Co	0.0005415	0.0004315	0.0	0	1.0000	-0.900	11579.000	6/20/2017 09:47:16
Cr 267.716	Cr	-0.0008501	0.0001919	0.0	0	1.0000	4.000	52358.000	6/20/2017 09:47:16
Cu 324.753	Cu	-0.0114867	0.0008429	0.0	0	1.0000	13.700	12062.000	6/20/2017 09:47:16
Fe 259.94	Fe	0.0523014	0.0007326	0.0	0	1.0000	2.100	187558.800	6/20/2017 09:47:17
K 766.491	K	-1.0221358	0.0022615	0.0	0	0.99996	721.300	95474.500	6/20/2017 09:47:17
Li 670.784	Li	0.0612175	0.0000263	0.0	0	0.99978	113.000	380038.300	6/20/2017 09:47:17
Mg 279.078	Mg	-0.0535867	0.0031774	0.0	0	1.0000	1.000	146636.700	6/20/2017 09:47:17
Mn 257.610	Mn	-0.0002968	0.0005985	0.0	0	1.0000	0.500	16019.000	6/20/2017 09:47:17
Mo 202.030/2	Mo	-0.0009988	0.0003889	0.0	0	1.0000	0.000	25362.700	6/20/2017 09:47:17
Na 588.995	Na	0.4073779	0.0004126	0.0	0	0.99992	119.100	221362.800	6/20/2017 09:47:17
Ni 231.604	Ni	-0.0024144	0.0002003	0.0	0	1.0000	10.100	49820.700	6/20/2017 09:47:18
P 178.287/2	P	0.0701095	0.5245331	0.0005924	0	1.0000	-0.200	86.700	6/20/2017 09:47:18
Pb 220.351	Pb I	-0.0018038	0.0001625	0.0	0	1.0000	3.200	62182.200	6/20/2017 09:47:18
Pb 220.352/2	Pb II	-0.0065118	0.0002875	0.0	0	1.0000	5.500	34866.300	6/20/2017 09:47:18
S 182.04/2	S	-0.0094493	0.0255367	-0.0000002	0	1.0000	-0.100	1982.700	6/20/2017 09:47:18
Sb 206.838/2	Sb	-0.0043241	0.0010058	0.0	0	1.0000	2.600	2007.700	6/20/2017 09:47:18
Se 196.021	Se I	-0.0022149	0.0007361	0.0	0	1.0000	-3.000	6869.100	6/20/2017 09:47:18
Se 196.021/2	Se II	-0.000286	0.0004978	0.0	0	1.0000	2.000	9957.700	6/20/2017 09:47:19
Si 288.158	Si	-0.1055513	0.0008802	0.0	0	1.0000	114.300	56968.550	6/20/2017 09:47:19
Sn 189.989	Sn	0.0004855	0.0021012	0.0	0	1.0000	-1.100	9709.750	6/20/2017 09:47:19
Sr 421.552	Sr	-0.0014372	0.0000879	0.0	0	1.0000	0.700	170730.050	6/20/2017 09:47:19

Method report Paragon2

Ti 334.941	Ti	-0.000147	0.000087	0.0	0	1.0000	-11.500	116082.400	6/20/2017 09:47:19
Tl 190.864/2	Tl	0.0098389	0.0006625	0.0	0	1.0000	-15.600	7726.700	6/20/2017 09:47:19
U 385.958	U	-0.0126102	0.0057569	0.0	0	1.0000	2.300	8755.900	6/20/2017 09:47:20
V 292.402	V	-0.0005281	0.0002769	0.0	0	1.0000	2.400	18136.400	6/20/2017 09:47:20
Zn 206.2	Zn	-0.0005723	0.0014836	0.0	0	1.0000	0.400	6610.500	6/20/2017 09:47:20
Zr 339.198	Zr	-0.0003643	0.0001031	0.0	0	1.0000	7.100	49739.000	6/20/2017 09:47:22

Method : Paragon2
SampleId1 : MIXAHIGH
Analysis commenced : 6/20/2017 09:48:23
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170620A
SampleId2 :
Analysis commenced : 6/20/2017 09:48:23
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE11

Printed : 6/20/2017 17:51:26
[CV]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00004	493.66250	0.00042	-0.00602	0.00211	0.00087	0.01485	492.57880	0.00065
#2	0.00023	496.45829	-0.00670	-0.00506	0.00218	0.00084	0.00683	496.18576	0.00000
Mean	0.00009	495.06040	-0.00314	-0.00554	0.00214	0.00086	0.01084	494.38228	0.00032
%RSD	205.17354	0.39933	160.54221	12.27544	2.08272	3.13907	52.34532	0.51590	143.30851
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00081	-0.00091	-0.00816	196.73084	247.65291	9.94195	493.81652	-0.00903	0.00211
#2	0.00038	-0.00118	-0.00800	198.06093	248.68784	9.97162	496.73407	-0.00939	0.00196
Mean	0.00059	-0.00105	-0.00808	197.39589	248.17037	9.95679	495.27530	-0.00921	0.00203
%RSD	51.26217	18.32461	1.45531	0.47646	0.29488	0.21070	0.41654	2.75559	5.40651
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	148.80038	0.00051	0.07011	0.01046	-0.01669	0.13866	0.01260	0.01834	-0.01185
#2	149.34924	-0.00117	0.07011	0.00634	-0.00934	0.16419	0.01099	0.00333	-0.00938
Mean	149.07481	-0.00033	0.07011	0.00840	-0.01302	0.15143	0.01179	0.01083	-0.01062
%RSD	0.26034	358.69246	0.00000	34.69292	39.94476	11.92385	9.65026	97.97962	16.40339
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	-0.00010	0.00637	0.00393	-0.00263	-0.01622	0.09233	0.00572	0.00740	0.00761
#2	0.00149	-0.00834	0.00393	-0.00310	-0.02185	0.09671	0.00582	0.00739	0.00769
Mean	0.00070	-0.00098	0.00393	-0.00287	-0.01903	0.09452	0.00577	0.00739	0.00765
%RSD	161.02749	1059.09545	0.00000	11.57451	20.92549	3.27654	1.25806	0.11430	0.75909
	Pb	Se							
	calc	calc							
#1	-0.00765	-0.00179							
#2	-0.00412	-0.00515							
Mean	-0.00588	-0.00347							
%RSD	42.44187	68.34834							

Method : Paragon2
SampleId1 : MIXBHGH
Analysis commenced : 6/20/2017 09:49:29
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170620A
SampleId2 :
Analysis commenced : 6/20/2017 09:49:29
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE6

Printed : 6/20/2017 17:51:26
[CV]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.00576	0.05223	5.02456	10.02923	10.01510	0.99086	0.01013	-0.07760	4.99624
#2	2.01016	0.05554	5.02886	10.06171	10.04443	0.99454	0.00464	-0.07722	5.00637
Mean	2.00796	0.05389	5.02671	10.04547	10.02977	0.99270	0.00739	-0.07741	5.00131
%RSD	0.15481	4.33831	0.06053	0.22860	0.20680	0.26266	52.60809	0.34088	0.14332

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.00382	10.01281	10.03957	0.06226	0.64213	0.06501	-0.07265	9.98648	10.01027
#2	5.02154	10.04123	10.06801	0.05963	0.64349	0.06502	-0.07392	10.02431	10.04746
Mean	5.01268	10.02702	10.05379	0.06095	0.64281	0.06502	-0.07329	10.00540	10.02886
%RSD	0.24998	0.20040	0.20002	3.06002	0.14963	0.01143	1.22629	0.26738	0.26216

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49044	10.05774	50.56501	10.03906	9.93590	-0.00434	2.06195	5.02048	4.90647
#2	0.48920	10.06769	51.06805	10.06906	10.06225	0.00587	2.04966	5.03371	5.03835
Mean	0.48982	10.06272	50.81653	10.05406	9.99907	0.00077	2.05581	5.02709	4.97241
%RSD	0.17889	0.06987	0.69997	0.21097	0.89351	943.76043	0.42256	0.18615	1.87541

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.03779	10.01548	10.04874	9.97629	5.03299	-0.05297	5.01442	10.43116	-0.01257
#2	50.12692	10.05334	10.06173	10.03403	5.04305	-0.07139	5.02659	10.46448	-0.01362
Mean	50.08236	10.03441	10.05524	10.00516	5.03802	-0.06218	5.02050	10.44782	-0.01309
%RSD	0.12584	0.26679	0.09135	0.40813	0.14118	20.94568	0.17147	0.22555	5.66416

	Pb	Se
	calc	calc
#1	9.97025	4.94444
#2	10.06451	5.03681
Mean	10.01738	4.99062
%RSD	0.66539	1.30878

Method : Paragon2

File : 170620A

SampleId1 : MIXCHIGH

SampleId2 :

Analysis commenced : 6/20/2017 09:50:36

Dilution ratio : 1.00000 to 1.00000

Tray :

Printed : 6/20/2017 17:51:27

[CV]

Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00604	0.35621	0.00208	0.02272	0.00110	-0.00015	4.95243	-0.09439	-0.00083
#2	-0.00610	0.35427	-0.00161	0.02219	0.00123	-0.00013	4.98046	-0.09476	-0.00054
Mean	-0.00607	0.35524	0.00023	0.02245	0.00117	-0.00014	4.96645	-0.09458	-0.00068
%RSD	0.74648	0.38772	1117.59257	1.68233	7.66458	14.03784	0.39912	0.27901	29.80056

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00614	-0.00998	0.00533	0.05787	0.64894	0.06468	0.00485
Mean	0.00727	-0.00949	0.00515	0.05802	0.64395	0.06467	0.00473
%RSD	0.00670	-0.00973	0.00524	0.05794	0.64644	0.06467	0.00479
	11.84298	3.58982	2.45554	0.17881	0.54558	0.00575	1.76689

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47458	-0.00065	0.07011	-0.00246	-0.00700	49.72847	0.00460	0.00275	0.00315
#2	0.47408	-0.00045	0.07011	0.00237	-0.01033	50.02242	0.00460	0.01046	0.00634
Mean	0.47433	-0.00055	0.07011	-0.00004	-0.00866	49.87545	0.00460	0.00660	0.00474
%RSD	0.07388	25.65763	0.00000	7927.56229	27.18199	0.41674	0.04721	82.54617	47.40186

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07022	0.02107	0.00095	0.00429	0.00027	49.58339	-0.00895	-0.02682	4.95893
#2	0.05602	0.01897	0.00104	0.00385	0.01108	49.93250	-0.01011	-0.02651	4.98325
Mean	0.06312	0.02002	0.00100	0.00407	0.00567	49.75795	-0.00953	-0.02666	4.97109
%RSD	15.90067	7.41886	6.22961	7.55286	134.65495	0.49611	8.62661	0.84440	0.34588

	Pb	Se
	calc	calc
#1	-0.00548	0.00302
#2	-0.00610	0.00771
Mean	-0.00579	0.00536
%RSD	7.49603	61.80841

Method : Paragon2
SampleId1 : ICV
SampleId2 :
Analysis commenced : 6/20/2017 09:58:50
Dilution ratio : 1.00000 to 1.00000 Tray :
File : 170620A

Printed : 6/20/2017 17:51:27
[CV]

Position : STD5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10034	25.63986	0.26019	0.50631	0.50313	0.25405	0.24825	25.60996	0.24790
#2	0.09993	25.61917	0.25446	0.50428	0.50573	0.25487	0.25054	25.64442	0.24815
Mean	0.10013	25.62951	0.25733	0.50530	0.50443	0.25446	0.24939	25.62719	0.24803
%RSD	0.28961	0.05706	1.57282	0.28409	0.36421	0.22800	0.64915	0.09506	0.07314

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.24227	0.50671	0.49882	10.01199	25.61328	0.24480	25.81510	0.50584	0.49943
#2	0.24278	0.50766	0.50049	10.04009	25.66544	0.24539	25.88813	0.50696	0.50512
Mean	0.24253	0.50718	0.49966	10.02604	25.63936	0.24509	25.85162	0.50640	0.50227
%RSD	0.15086	0.13204	0.23583	0.19824	0.14385	0.16964	0.19976	0.15611	0.80041

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1									
#2									
Mean									
%RSD									

#1	25.65355	0.51746	2.49550	0.51743	0.50542	2.55794	0.26020	0.51082	0.49902
#2	25.65896	0.51737	2.38952	0.51720	0.51765	2.55284	0.25643	0.51188	0.51369
Mean	25.65626	0.51741	2.44251	0.51731	0.51153	2.55539	0.25831	0.51135	0.50635
%RSD	0.01492	0.01150	3.06792	0.03143	1.69012	0.14115	1.03147	0.14660	2.04788

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.48324	0.52705	0.25451	0.24908	0.25402	2.44579	0.25092	0.50138	0.50711
#2	2.48501	0.53587	0.25488	0.25099	0.25943	2.47797	0.25333	0.50053	0.50865
Mean	2.48413	0.53146	0.25469	0.25004	0.25672	2.46188	0.25213	0.50095	0.50788
%RSD	0.05035	1.17334	0.10294	0.54098	1.49000	0.92441	0.67793	0.12001	0.21412

	Pb	Se
	calc	calc
#1	0.50942	0.50295
#2	0.51750	0.51308
Mean	0.51346	0.50802
%RSD	1.11254	1.41060

Method : Paragon2 File : 170620A
SampleId1 : ICB SampleId2 :
Analysis commenced : 6/20/2017 09:59:58
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:27
[CB]
Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	-0.01415	-0.00314	-0.00324	-0.00022	-0.00019	-0.00366	0.00792	-0.00020
#2	-0.00059	-0.02039	0.00831	-0.00239	-0.00029	-0.00023	-0.00392	0.00720	-0.00064
Mean	-0.00046	-0.01727	0.00259	-0.00281	-0.00026	-0.00021	-0.00379	0.00756	-0.00042
%RSD	42.53299	25.54114	312.95983	21.47380	17.46529	13.69008	4.78809	6.73438	74.75142

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00049	-0.00109	0.00015	0.00301	0.17643	0.00342	-0.00191	-0.00005	-0.00100
#2	-0.00049	-0.00112	0.00049	0.00256	0.17944	0.00343	-0.00445	-0.00005	-0.00038
Mean	-0.00049	-0.00110	0.00032	0.00278	0.17794	0.00343	-0.00318	-0.00005	-0.00069
%RSD	0.04425	1.84083	76.47987	11.46670	1.19479	0.24767	56.56852	0.00000	63.97480

	Na	Ni	P	Pb	Pb	S	Sb	Se	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06725	-0.00032	0.07011	-0.00491	0.00095	-0.00945	-0.00212	-0.00428	0.00240
#2	0.06705	-0.00129	0.07011	-0.00619	0.00193	-0.00434	0.00151	-0.00224	-0.00058
Mean	0.06715	-0.00080	0.07011	-0.00555	0.00144	-0.00690	-0.00030	-0.00326	0.00091
%RSD	0.20652	85.02371	0.00000	16.34597	47.83724	52.37254	849.39287	44.37331	232.24599

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00027	-0.00330	-0.00142	-0.00095	-0.00031	-0.00340	-0.00099	0.00027	-0.00003

#2	-0.00149	-0.00414	-0.00137	-0.00084	-0.00045	-0.02067	-0.00064	-0.00032	0.00007
Mean	-0.00088	-0.00372	-0.00139	-0.00090	-0.00038	-0.01204	-0.00082	-0.00003	0.00002
%RSD	98.16014	15.99641	2.67686	8.24645	25.53664	101.44980	29.82686	1532.04877	425.70398
	Pb	Se							
	calc	calc							
#1	-0.00100	0.00018							
#2	-0.00078	-0.00113							
Mean	-0.00089	-0.00048							
%RSD	17.77695	193.92060							

Method : Paragon2
File : 170620A
SampleId1 : CRI
SampleId2 :
Analysis commenced : 6/20/2017 10:01:02
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:27
[CV]

Position : STD6

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02091	0.43801	0.01226	0.42885	0.43850	0.01061	0.05066	5.42763	0.01018
#2	0.02026	0.43604	0.00946	0.42116	0.43407	0.01060	0.05116	5.40590	0.01043
Mean	0.02058	0.43703	0.01086	0.42500	0.43629	0.01061	0.05091	5.41677	0.01031
%RSD	2.23257	0.31934	18.22967	1.27994	0.71863	0.04077	0.69066	0.28372	1.76614
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10475	0.02138	0.05567	0.23619	4.52384	0.01987	5.36231	0.03348	0.02124
#2	0.10466	0.02067	0.05382	0.23544	4.50117	0.01978	5.34958	0.03323	0.02303
Mean	0.10471	0.02103	0.05474	0.23581	4.51250	0.01982	5.35594	0.03335	0.02214
%RSD	0.06299	2.39184	2.37925	0.22601	0.35521	0.29962	0.16808	0.52463	5.71352
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.75477	0.09322	0.17504	0.00016	0.00642	0.22547	0.13027	0.00225	0.01358
#2	4.70476	0.09129	0.28002	0.00009	0.00858	0.23058	0.13290	0.00385	0.01089
Mean	4.72976	0.09226	0.22753	0.00012	0.00750	0.22803	0.13159	0.00305	0.01224
%RSD	0.74761	1.48299	32.62465	38.85254	20.35356	1.58358	1.41431	36.99522	15.53249
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.11918	0.10678	0.02054	0.02021	0.02173	0.20129	0.10846	0.04221	0.05527
#2	0.11708	0.11014	0.02040	0.02057	0.02673	0.17827	0.10674	0.04069	0.05461
Mean	0.11813	0.10846	0.02047	0.02039	0.02423	0.18978	0.10760	0.04145	0.05494
%RSD	1.25642	2.19136	0.48596	1.26692	14.58258	8.57899	1.13186	2.58459	0.84795
#1	Pb	Se							
	calc	calc							
#1	0.00434	0.00981							
#2	0.00576	0.00855							

Mean 0.00505 0.00918ser: STEVE WORKMAN
%RSD 19.87631 9.71640

Method : Paragon2 File : 170620A
SampleId1 : IIV SampleId2 :
Analysis commenced : 6/20/2017 10:02:05
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:27
[SAMPLE]
Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01073	0.19017	0.03134	0.09901	0.10504	0.00519	0.01950	1.05760	0.00476
#2	0.00884	0.18453	0.03121	0.10019	0.10587	0.00515	0.01797	1.05003	0.00451
Mean	0.00978	0.18735	0.03128	0.09960	0.10545	0.00517	0.01874	1.05382	0.00463
%RSD	13.68225	2.12802	0.28763	0.83443	0.55098	0.44001	5.75978	0.50789	3.95027
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01963	0.01113	0.02128	0.11820	0.95449	0.01726	1.04936	0.01071	0.02039
#2	0.01903	0.00945	0.02096	0.11745	0.93343	0.01728	1.03792	0.01071	0.02156
Mean	0.01933	0.01029	0.02112	0.11783	0.94396	0.01727	1.04364	0.01071	0.02097
%RSD	2.19899	11.54461	1.08850	0.45199	1.57799	0.07370	0.77527	0.00000	3.93348

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.87378	0.02210	0.17504	0.02011	0.02080	0.21015	0.05795	0.02345	0.02721
#2	0.87714	0.02067	0.17504	0.01326	0.02268	0.19483	0.05153	0.02033	0.03438
Mean	0.87546	0.02138	0.17504	0.01669	0.02174	0.20249	0.05474	0.02189	0.03079
%RSD	0.27144	4.72917	0.00000	29.03296	6.10798	5.34987	8.28725	10.06015	16.46420

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10227	0.05425	0.01921	0.01998	0.02965	0.19451	0.02046	0.02128	0.02159
#2	0.09842	0.05215	0.01938	0.01915	0.02912	0.17148	0.02017	0.01943	0.02126
Mean	0.10035	0.05320	0.01929	0.01957	0.02938	0.18300	0.02032	0.02035	0.02142
%RSD	2.71603	2.79130	0.64454	3.01813	1.26954	8.89713	1.00741	6.44194	1.08595

	Pb	Se
	calc	calc
#1	0.02057	0.02595
#2	0.01954	0.02970
Mean	0.02006	0.02783
%RSD	3.62656	9.51636

Method : Paragon2 File : 170620A
SampleId1 : ICSA SampleId2 :
Analysis commenced : 6/20/2017 10:03:08
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:28
[ICSAB]
Position : STD3

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00007	257.93002	0.00360	-0.00442	0.00098	0.00041	-0.00062	254.66675	-0.00013
#2	-0.00036	257.77693	-0.00441	-0.00399	0.00129	0.00038	-0.00037	255.45940	0.00031
Mean	-0.00022	257.85348	-0.00040	-0.00420	0.00113	0.00039	-0.00050	255.06307	0.00009
%RSD	94.40180	0.04198	1407.41983	7.18914	19.69514	5.38621	36.49043	0.21975	344.95742
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00038	-0.00084	-0.00207	107.18270	0.12182	0.00469	264.21471	-0.00549	0.00102
#2	-0.00023	-0.00100	-0.00241	107.38488	0.13584	0.00470	264.25794	-0.00549	0.00071
Mean	0.00007	-0.00092	-0.00224	107.28379	0.12883	0.00470	264.23633	-0.00549	0.00087
%RSD	583.35495	12.65804	10.73048	0.13326	7.70045	0.27110	0.01157	0.00000	25.34960
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09314	0.00111	0.07011	0.00206	-0.00153	0.04673	0.01178	0.01137	0.00080
#2	0.09354	-0.00003	0.07011	-0.00066	-0.00171	0.05184	0.00856	0.00313	-0.00036
Mean	0.09334	0.00054	0.07011	0.00070	-0.00162	0.04928	0.01017	0.00725	0.00022
%RSD	0.29724	148.32264	0.00000	275.03763	8.12036	7.32756	22.38802	80.37743	375.82002
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01101	0.00385	0.01500	-0.00272	-0.00961	0.03995	0.00319	0.00533	0.00233
#2	0.00977	-0.00203	0.01497	-0.00194	-0.00699	0.04434	0.00266	0.00354	0.00273
Mean	0.01039	0.00091	0.01499	-0.00233	-0.00830	0.04215	0.00293	0.00443	0.00253
%RSD	8.44788	457.98712	0.16596	23.75537	22.35186	7.37555	12.68477	28.52306	10.95232
	Pb	Se							
	calc	calc							
#1	-0.00033	0.00432							
#2	-0.00136	0.00080							
Mean	-0.00085	0.00256							
%RSD	86.12982	97.29677							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:28
SampleId1 : ICSAB SampleId2 : [ICSAB]
Analysis commenced : 6/20/2017 10:04:15
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.20351	255.50067	0.10640	1.01084	0.52803	0.49093	0.48591	251.38175	0.99961
#2	0.20433	254.94166	0.10589	1.00700	0.52607	0.49214	0.47984	252.62012	1.00114
Mean	0.20392	255.22117	0.10614	1.00892	0.52705	0.49153	0.48288	252.00093	1.00038
%RSD	0.28297	0.15488	0.33899	0.26958	0.26360	0.17438	0.88863	0.34748	0.10857

ted: 6/20/2017 17:52:05 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.46950	0.48579	0.53450	106.00909	0.12432	1.13633	260.62463	0.48025	0.99168
#2	0.47009	0.48822	0.53285	106.28467	0.15238	1.12787	261.11143	0.48237	0.98708
Mean	0.46980	0.48700	0.53367	106.14688	0.13835	1.13210	260.86803	0.48131	0.98938
%RSD	0.08988	0.35242	0.21830	0.18358	14.34128	0.52841	0.13195	0.31019	0.32887

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.08235	0.99016	1.01619	0.05358	0.05057	1.08834	0.63724	0.06291	0.04829
#2	0.08353	0.98907	1.12155	0.05273	0.05217	1.09344	0.62678	0.04724	0.05202
Mean	0.08294	0.98962	1.06887	0.05316	0.05137	1.09089	0.63201	0.05508	0.05015
%RSD	1.00340	0.07817	6.96986	1.13013	2.21161	0.33088	1.17081	20.11754	5.24621

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.97178	1.05411	1.03134	0.96451	0.09312	9.89631	0.49533	0.92147	0.49482
#2	0.97071	1.04697	1.02621	0.96650	0.09290	9.82831	0.49517	0.92932	0.49324
Mean	0.97124	1.05054	1.02878	0.96550	0.09301	9.86231	0.49525	0.92540	0.49403
%RSD	0.07811	0.48059	0.35268	0.14626	0.17273	0.48759	0.02266	0.59978	0.22606

	Pb	Se
	calc	calc
#1	0.05157	0.05316
#2	0.05236	0.05043
Mean	0.05196	0.05179
%RSD	1.07329	3.73547

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 10:05:24
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:28
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19643	50.34141	0.49254	1.00058	0.98751	0.49050	0.48935	49.93947	0.48598
#2	0.19660	50.47966	0.49572	0.99663	0.98891	0.48938	0.48710	49.83799	0.48284
Mean	0.19652	50.41053	0.49413	0.99861	0.98821	0.48994	0.48822	49.88873	0.48441
%RSD	0.05998	0.19392	0.45493	0.27993	0.10006	0.16145	0.32595	0.14384	0.45821

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.47072	0.97941	0.98186	19.68176	53.39178	0.52487	50.70621	0.97970	0.98037
#2	0.46856	0.97780	0.98234	19.64513	53.44186	0.52598	50.62165	0.97883	0.98053
Mean	0.46964	0.97861	0.98210	19.66344	53.41682	0.52542	50.66393	0.97926	0.98045
%RSD	0.32533	0.11588	0.03462	0.13175	0.06628	0.14938	0.11802	0.06304	0.01125

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.75088	0.99900	5.05306	1.01412	0.98092	5.01004	0.50878	1.00912	0.97408
#2	52.81306	0.99458	4.83889	1.01286	1.00276	5.01004	0.50779	1.00608	1.00375
Mean	52.78197	0.99679	4.94598	1.01349	0.99184	5.01004	0.50828	1.00760	0.98892
%RSD	0.08330	0.31343	3.06195	0.08783	1.55726	0.00000	0.13813	0.21293	2.12127
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.81531	1.03410	0.49854	0.48406	0.50560	4.75434	0.48946	0.96046	0.98265
#2	4.81758	1.03787	0.49826	0.48647	0.50319	4.79922	0.48853	0.96009	0.98075
Mean	4.81645	1.03598	0.49840	0.48526	0.50439	4.77678	0.48900	0.96028	0.98170
%RSD	0.03326	0.25773	0.04024	0.35207	0.33820	0.66428	0.13427	0.02713	0.13680

	Pb	Se
	calc	calc
#1	0.99197	0.98575
#2	1.00612	1.00453
Mean	0.99905	0.99514
%RSD	1.00153	1.33425

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 10:06:32
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:28
[CB]
Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00111	-0.01256	0.00577	0.00018	-0.00010	-0.00014	-0.00062	0.01368	-0.00007
#2	-0.00051	-0.01143	0.00170	-0.00089	-0.00010	-0.00016	0.00367	0.01404	-0.00009
Mean	0.00030	-0.01200	0.00373	-0.00036	-0.00010	-0.00015	0.00152	0.01386	-0.00008
%RSD	382.34673	6.68552	77.13481	211.51570	0.00000	6.00085	199.23620	1.83666	14.05309
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00046	0.00020	0.00082	0.00587	0.19297	0.00346	0.01335	0.00020	-0.00147
#2	-0.00049	-0.00056	0.00049	0.00587	0.19096	0.00346	0.00890	-0.00005	-0.00061
Mean	-0.00002	-0.00018	0.00065	0.00587	0.19197	0.00346	0.01112	0.00007	-0.00104
%RSD	3911.57262	294.94544	35.82754	0.00000	0.73832	0.00000	28.28432	235.39948	58.29699
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06951	-0.00011	0.07011	0.00085	-0.00057	-0.01456	0.00190	-0.00471	-0.00148
#2	0.06872	-0.00019	0.07011	-0.00293	0.00102	-0.01456	0.00372	-0.00723	0.00449
Mean	0.06911	-0.00015	0.07011	-0.00104	0.00022	-0.01456	0.00281	-0.00597	0.00151
%RSD	0.80266	38.97903	0.00000	257.75865	498.97220	0.00000	45.86722	29.78328	280.30946
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00008	-0.00456	-0.00131	-0.00116	-0.00506	0.00350	0.00062
	0.00132	-0.00624	-0.00131	-0.00112	0.00354	-0.00916	0.00028
Mean	0.00070	-0.00540	-0.00131	-0.00114	-0.00076	-0.00283	0.00075
%RSD	125.41273	22.02637	0.00000	2.16082	797.11942	316.50375	24.66509

	Pb	Se
	calc	calc
#1	-0.00009	-0.00256
#2	-0.00030	0.00059
Mean	-0.00020	-0.00098
%RSD	72.64237	226.25117

Method : Paragon2
File : 170620A
SampleId1 : IP170613-1MB
SampleId2 :
Analysis commenced : 6/20/2017 10:08:59
Dilution ratio : 1.00000 to 1.00000
Tray :
Printed : 6/20/2017 17:51:29
[SAMPLE]
Position : TUBE1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00017	-0.01159	0.00221	-0.00346	-0.00022	-0.00015	-0.00063	0.01476	-0.00021
#2	-0.00193	-0.00973	0.00144	-0.00239	-0.00029	-0.00018	-0.00367	0.01404	-0.00044
Mean	-0.00088	-0.01066	0.00182	-0.00292	-0.00026	-0.00016	-0.00215	0.01440	-0.00033
%RSD	168.18894	12.39121	29.59664	25.86057	17.46529	10.28808	100.04068	3.53556	49.60582

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00020	-0.00044	-0.00002	0.00452	0.20550	0.00347	0.00890	-0.00017	-0.00038
#2	-0.00110	-0.00091	-0.00068	0.00346	0.19347	0.00344	0.00318	-0.00030	0.00079
Mean	-0.00045	-0.00067	-0.00035	0.00399	0.19948	0.00346	0.00604	-0.00023	0.00021
%RSD	203.55778	49.98146	135.33537	18.67852	4.26303	0.49105	66.98911	37.23123	399.09002

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06588	0.00128	-0.03477	-0.00706	0.00069	-0.00945	0.00151	-0.00002	0.00200
#2	0.06549	-0.00049	0.07011	-0.00632	0.00048	-0.00945	-0.00592	-0.00990	0.00250
Mean	0.06568	0.00039	0.01767	-0.00669	0.00059	-0.00945	-0.00221	-0.00496	0.00225
%RSD	0.42229	316.88984	419.75960	7.76062	24.78728	0.00000	238.05930	140.78306	15.62054

	Si	Sn	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00484	-0.00330	-0.00133	-0.00072	-0.01607	0.00010	0.00030	0.00007
#2	-0.00131	-0.00498	-0.00140	-0.00090	-0.02873	-0.00018	0.00028	-0.00010
Mean	0.00177	-0.00414	-0.00137	-0.00081	-0.02240	-0.00004	0.00029	-0.00001
%RSD	246.27132	28.73390	3.63800	15.22358	39.97531	504.98240	5.13850	812.21640

	Pb	Se
	calc	calc

#1 -0.00189 0.00133ser: STEVE WORKMAN
#2 -0.00178 -0.00163
Mean -0.00184 -0.00015
%RSD 4.12142 1405.99112

Method : Paragon2 File : 170620A
SampleId1 : IP170613-1LCS SampleId2 :
Analysis commenced : 6/20/2017 10:10:02
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:29
[SAMPLE]
Position : TUBE2

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00045	1.96589	0.94730	0.09367	1.01167	0.04920	-0.00137	38.26965	0.47656
#2	0.00149	1.94309	0.94209	0.09249	1.00436	0.04929	0.00292	38.35489	0.47438
Mean	0.00097	1.95449	0.94469	0.09308	1.00801	0.04925	0.00077	38.31227	0.47547
%RSD	75.93663	0.82504	0.39006	0.89285	0.51286	0.13628	392.97741	0.15733	0.32300
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47007	0.20028	0.26505	1.05303	38.10999	0.50470	38.14363	0.48957	0.98224
#2	0.47058	0.20176	0.26117	1.05121	37.67482	0.49849	38.07161	0.49044	0.97031
Mean	0.47032	0.20102	0.26311	1.05212	37.89240	0.50159	38.10762	0.49000	0.97628
%RSD	0.07634	0.52246	1.04296	0.12219	0.81206	0.87544	0.13364	0.12547	0.86423
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	38.79565	0.50681	-0.03477	0.49444	0.47442	-0.00434	0.49790	1.79277	1.70605
#2	38.31511	0.50740	-0.03477	0.50002	0.48922	-0.00945	0.48777	1.77817	1.79731
Mean	38.55538	0.50711	-0.03477	0.49723	0.48182	-0.00690	0.49284	1.78547	1.75168
%RSD	0.88132	0.08213	0.00000	0.79322	2.17270	52.37254	1.45431	0.57812	3.68384
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.94831	0.52132	0.50911	0.48209	1.91982	-0.01600	0.50745	0.49057	0.00101
#2	0.93786	0.51754	0.50435	0.48202	1.93620	-0.00334	0.50476	0.49718	0.00097
Mean	0.94309	0.51943	0.50673	0.48206	1.92801	-0.00967	0.50610	0.49387	0.00099
%RSD	0.78412	0.51463	0.66301	0.01020	0.60048	92.63289	0.37627	0.94579	2.79402
#1	Pb	Se							
	calc	calc							
#1	0.48109	1.73493							
#2	0.49282	1.79094							
Mean	0.48695	1.76293							
%RSD	1.70363	2.24646							

Method : Paragon2 File : 170620A
SampleId1 : 1705533-2 SampleId2 :
Analysis commenced : 6/20/2017 10:11:05

Printed : 6/20/2017 17:51:29
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00138	117.74230	0.02103	0.05136	1.19761	0.00773	0.01591	301.63549	0.00009
#2	-0.00148	119.14170	0.01760	0.05082	1.21097	0.00780	0.00659	300.39209	-0.00038
Mean	-0.00143	118.44200	0.01932	0.05109	1.20429	0.00777	0.01125	301.01379	-0.00014
%RSD	4.69267	0.83545	12.57399	0.73941	0.78486	0.67109	58.55882	0.29208	234.65348

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.15700	0.28093	0.22155	303.82070	28.85419	0.22153	72.10735	9.08244	0.00133
#2	0.15552	0.28017	0.22391	302.42601	29.21037	0.22461	72.31007	9.10303	0.00048
Mean	0.15626	0.28055	0.22273	303.12335	29.03228	0.22307	72.20871	9.09273	0.00091
%RSD	0.66815	0.19318	0.74889	0.32534	0.86750	0.97569	0.19852	0.16010	66.72147

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	2.75519	0.31688	5.26743	0.10413	0.11355	32.77506	0.00560	0.01124	0.01064
#2	2.79727	0.31435	5.26743	0.10196	0.11833	33.14691	0.01002	0.00005	0.01464
Mean	2.77623	0.31561	5.26743	0.10305	0.11594	32.96098	0.00781	0.00564	0.01264
%RSD	1.07156	0.56547	0.00000	1.48945	2.91154	0.79771	40.00510	140.21135	22.38116

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	25.36926	0.01621	0.57882	1.65551	-0.02341	0.05632	0.19316	0.54169	0.04187
#2	25.56827	0.01914	0.58493	1.66890	-0.02954	0.05546	0.19127	0.53482	0.04189
Mean	25.46876	0.01767	0.58188	1.66221	-0.02648	0.05589	0.19222	0.53825	0.04188
%RSD	0.55252	11.70747	0.74203	0.56955	16.38488	1.08672	0.69539	0.90285	0.04141

	Pb	Se
	calc	calc
#1	0.11041	0.01084
#2	0.11288	0.00978
Mean	0.11165	0.01031
%RSD	1.55888	7.25921

Method : Paragon2 File : 170620A

SampleId1 : 1705533-2D SampleId2 :

Analysis commenced : 6/20/2017 10:12:06

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:29

[SAMPLE]

Position : TUBE4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00022	116.46355	0.02282	0.05328	1.03513	0.00714	0.01858	247.00103	0.00060
#2	-0.00236	117.07909	0.02231	0.05061	1.04333	0.00716	0.01052	247.03800	0.00030

Mean	-0.00107	116.77132	0.02256	0.05194	1.03923	0.00715	0.01455	247.01951	0.00045
%RSD	170.01434	0.37274	1.59495	3.63620	0.55812	0.17816	39.16585	0.01058	47.86190
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.13623	0.27887	0.21632	271.26877	28.18474	0.22214	84.29261	6.80801	0.00250
#2	0.13578	0.27814	0.21801	271.29436	28.34221	0.22333	84.43543	6.83178	0.00320
Mean	0.13601	0.27850	0.21716	271.28157	28.26348	0.22274	84.36402	6.81989	0.00285
%RSD	0.23049	0.18469	0.54835	0.00667	0.39397	0.37905	0.11970	0.24645	17.36058
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.92469	0.30093	4.19751	0.10110	0.10652	38.37052	0.01226	0.00477	0.01039
#2	2.94142	0.29908	4.19751	0.09547	0.11044	38.61105	0.00825	-0.00185	0.00930
Mean	2.93305	0.30001	4.19751	0.09829	0.10848	38.49078	0.01026	0.00146	0.00984
%RSD	0.40339	0.43625	0.00000	4.05258	2.55716	0.44187	27.66912	321.31873	7.84427
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	25.09373	0.03474	0.49166	1.61719	-0.02644	0.06584	0.19629	0.51543	0.04600
#2	25.19363	0.02591	0.49585	1.62827	-0.02064	0.06696	0.19658	0.51421	0.04577
Mean	25.14368	0.03033	0.49375	1.62273	-0.02354	0.06640	0.19644	0.51482	0.04589
%RSD	0.28096	20.60697	0.59906	0.48294	17.42182	1.19781	0.10513	0.16774	0.34647

	Pb	Se
	calc	calc
#1	0.10471	0.00852
#2	0.10545	0.00558
Mean	0.10508	0.00705
%RSD	0.49847	29.42880

Method : Paragon2
File : 170620A
SampleId1 : 1705533-2L 5X SampleId2 :
Analysis commenced : 6/20/2017 10:14:22 [SAMPLE]
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE5

Printed : 6/20/2017 17:51:29
Position : TUBE5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00111	23.89846	0.00997	0.00787	0.24517	0.00159	-0.00214	59.79560	-0.00015
#2	-0.00160	24.03654	0.00373	0.00883	0.24606	0.00159	-0.00112	59.89198	-0.00020
Mean	-0.00136	23.96750	0.00685	0.00835	0.24562	0.00159	-0.00163	59.84379	-0.00018
%RSD	25.35680	0.40738	64.36004	8.14254	0.25499	0.13223	44.04040	0.11388	18.89647
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03191	0.05896	0.04432	58.85225	5.58583	0.03751	15.12927	1.92308	0.00032
#2	0.03243	0.05891	0.04347	58.91377	5.61053	0.03771	15.17588	1.92710	0.00071
Mean	0.03217	0.05894	0.04389	58.88301	5.59818	0.03761	15.15258	1.92509	0.00052

%RSD	1.13802	0.05863	1.36832	0.07389	0.31202	0.38166	0.21751	0.14773	53.10454
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49247	0.06698	1.01619	0.01698	0.02870	6.89937	-0.00058	0.00013	0.00318
#2	0.49624	0.06862	1.01619	0.01753	0.02466	7.02663	0.00143	-0.00104	-0.00139
Mean	0.49435	0.06780	1.01619	0.01725	0.02668	6.96300	0.00043	-0.00045	0.00090
%RSD	0.53824	1.71090	0.00000	2.25012	10.69749	1.29226	334.09237	181.37823	360.19199
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.43489	-0.00286	0.11843	0.34623	-0.00054	-0.01250	0.03864	0.11302	0.00886
#2	5.46156	0.00008	0.11861	0.34682	-0.00591	0.00010	0.03832	0.11539	0.00873
Mean	5.44823	-0.00139	0.11852	0.34653	-0.00322	-0.00620	0.03848	0.11420	0.00880
%RSD	0.34615	149.78623	0.10510	0.12063	117.86727	143.73578	0.60516	1.46904	1.03385
	Pb	Se							
	calc	calc							
#1	0.02479	0.00217							
#2	0.02229	-0.00127							
Mean	0.02354	0.00045							
%RSD	7.53720	543.33693							

Method : Paragon2 File : 170620A
SampleId1 : 1705533-2MS SampleId2 :
Analysis commenced : 6/20/2017 10:15:35
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:30
[SAMPLE]

Position : TUBE6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00081	134.86677	0.96903	0.15500	2.01968	0.05620	0.01147	272.37692	0.48260
#2	-0.00185	135.26681	0.97501	0.15286	2.02890	0.05647	0.01202	273.23711	0.48258
Mean	-0.00133	135.06679	0.97202	0.15393	2.02429	0.05633	0.01175	272.80702	0.48259
%RSD	55.42213	0.20943	0.43456	0.98164	0.32184	0.34892	3.32146	0.22296	0.00312
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.59011	0.48606	0.46033	260.65966	72.11748	0.81093	117.19117	7.55471	0.90146
#2	0.59284	0.48608	0.46017	261.59310	72.33170	0.81359	117.56521	7.58649	0.91073
Mean	0.59147	0.48607	0.46025	261.12638	72.22459	0.81226	117.37819	7.57060	0.90609
%RSD	0.32703	0.00156	0.02459	0.25277	0.20973	0.23176	0.22533	0.29686	0.72410
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	47.66798	0.78950	3.77087	0.56838	0.55349	34.55828	0.16831	1.84049	1.78578
#2	47.75244	0.79038	3.66433	0.57042	0.56645	34.84445	0.16920	1.83098	1.80764
Mean	47.71021	0.78994	3.71760	0.56940	0.55997	34.70137	0.16876	1.83573	1.79671
%RSD	0.12518	0.07909	2.02648	0.25295	1.63622	0.58313	0.37170	0.36633	0.86032

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	24.51940	0.51229	1.00853	1.88394	0.07567	0.68792	0.96943	0.06223
#2	24.62069	0.52781	1.01118	1.87712	0.05973	0.68998	0.97539	0.06285
Mean	24.57005	0.52005	1.00986	1.88053	0.06770	0.68895	0.97241	0.06254
%RSD	0.29152	2.11029	0.18522	0.25677	16.64102	0.21165	0.43321	0.70012

	Pb	Se
	calc	calc
#1	0.55845	1.80399
#2	0.56777	1.81541
Mean	0.56311	1.80970
%RSD	1.17045	0.44597

Method : Paragon2 File : 170620A
 SampleId1 : 1705533-2MSD SampleId2 :
 Analysis commenced : 6/20/2017 10:16:36
 Dilution ratio : 1.00000 to 1.00000 Tray :
 Position : TUBE7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	138.95023	0.98657	0.15970	2.03498	0.05712	0.01134	259.09336	0.48877
#2	-0.00241	140.47174	0.98505	0.15927	2.06019	0.05754	0.01294	259.01469	0.48994
Mean	-0.00137	139.71098	0.98581	0.15949	2.04758	0.05733	0.01214	259.05402	0.48935
%RSD	108.32752	0.77006	0.10940	0.18949	0.87071	0.52896	9.28558	0.02148	0.17005

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.60291	0.49593	0.46186	272.85138	73.21743	0.82580	121.38434	7.16420	0.91791
#2	0.60454	0.49496	0.46826	272.97864	73.96965	0.83655	121.94940	7.19668	0.91838
Mean	0.60372	0.49545	0.46506	272.91501	73.59354	0.83117	121.66687	7.18044	0.91814
%RSD	0.19011	0.13758	0.97318	0.03297	0.72275	0.91382	0.32840	0.31982	0.03603

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	48.07304	0.81222	3.98409	0.59100	0.58267	40.74945	0.17063	1.86062	1.82793
#2	48.51614	0.81070	4.19751	0.57757	0.59179	41.06977	0.16642	1.87069	1.85210
Mean	48.29459	0.81146	4.09080	0.58429	0.58723	40.90961	0.16852	1.86566	1.84002
%RSD	0.64876	0.13199	3.68894	1.62578	1.09736	0.55365	1.76663	0.38169	0.92857

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.85487	1.01427	2.42452	1.89939	0.05384	0.69922	0.99965	0.06331
#2	24.05845	1.02791	2.44923	1.91946	0.04680	0.70131	0.99484	0.06255
Mean	23.95666	1.02109	2.43687	1.90942	0.05032	0.70026	0.99725	0.06293
%RSD	0.60088	0.94455	0.71704	0.74325	9.89214	0.21138	0.34095	0.85328

Seser: STEVE WORKMAN

Pb	
	calc
#1	0.58545
#2	0.58705
Mean	0.58625
%RSD	0.19359
	0.74477

Method : Paragon2

File : 170620A

SampleId1 : 1705533-2A

SampleId2 :

Analysis commenced : 6/20/2017 10:30:45

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:30

[SAMPLE]

Position : TUBE8

Final concentrations

Ag		Al		As		B		Ba		Be		Bi		Ca		Cd	
	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
#1	-0.00045	114.06903	0.96319	0.14912	2.11959	0.05436	0.01472	314.46504	0.46916	0.05447	0.01219	315.86880	0.47079	315.16692	0.46997	0.24501	
#2	-0.00052	113.45768	0.95848	0.14837	2.11364	0.05447	0.01219	315.86880	0.47079	0.05442	0.01346	315.16692	0.46997	315.16692	0.46997	0.24501	
Mean	-0.00048	113.76336	0.96083	0.14875	2.11661	0.05442	0.01346	315.16692	0.46997	0.05442	0.01346	315.16692	0.46997	315.16692	0.46997	0.24501	
%RSD	10.31836	0.38000	0.34609	0.35554	0.19891	0.13768	13.29280	0.31495	0.24501	0.13768	13.29280	0.31495	0.24501	0.31495	0.24501	0.24501	
Co		Cr		Cu		Fe		K		Li		Mg		Mn		Mo	
	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
#1	0.59301	0.46781	0.47362	274.71012	69.79253	0.76905	111.34991	8.83378	0.94185	0.76905	111.34991	8.83378	0.94185	8.83378	0.94185	0.94543	
#2	0.59497	0.46949	0.47111	276.16432	69.44093	0.76453	111.41604	8.85645	0.94543	0.76453	111.41604	8.85645	0.94543	8.85645	0.94543	0.94543	
Mean	0.59399	0.46865	0.47237	275.43722	69.61673	0.76679	111.38297	8.84512	0.94364	0.76679	111.38297	8.84512	0.94364	8.84512	0.94364	0.94364	
%RSD	0.23410	0.25295	0.37517	0.37332	0.35712	0.41665	0.04198	0.18124	0.26880	0.41665	0.04198	0.18124	0.26880	0.18124	0.26880	0.26880	
Na		Ni		P		Pb I		Pb II		S		Sb		Se I		Se II	
	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
#1	46.55014	0.76985	4.41111	0.57631	0.55778	31.13108	0.50247	1.86358	1.81756	31.13108	0.50247	1.86358	1.81756	1.86358	1.81756	1.86013	
#2	46.26654	0.76812	4.51799	0.57118	0.56876	31.14113	0.49989	1.86004	1.86013	31.14113	0.49989	1.86004	1.86013	1.86004	1.86013	1.86013	
Mean	46.40834	0.76899	4.46455	0.57374	0.56327	31.13611	0.50118	1.86181	1.83884	31.13611	0.50118	1.86181	1.83884	1.86181	1.83884	1.83884	
%RSD	0.43212	0.15862	1.69269	0.63283	1.37824	0.02284	0.36418	0.13448	1.63701	0.02284	0.36418	0.13448	1.63701	0.13448	1.63701	1.63701	
Si		Sn		Sr		Ti		Tl		U		V		Zn		Zr	
	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
#1	24.87492	0.50992	1.03869	1.98025	1.87612	0.09681	0.65979	0.99051	0.03927	0.09681	0.65979	0.99051	0.03927	0.99051	0.03927	0.03927	
#2	24.82413	0.51117	1.03556	1.98512	1.86109	0.06077	0.65631	0.99567	0.03928	0.06077	0.65631	0.99567	0.03928	0.99567	0.03928	0.03928	
Mean	24.84953	0.51054	1.03713	1.98268	1.86860	0.07879	0.65805	0.99309	0.03928	0.07879	0.65805	0.99309	0.03928	0.99309	0.03928	0.03928	
%RSD	0.14452	0.17375	0.21335	0.17369	0.56893	32.34613	0.37435	0.36731	0.01674	32.34613	0.37435	0.36731	0.01674	0.36731	0.01674	0.01674	
Pb		Se		calc		calc		calc		calc		calc		calc		calc	
	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
#1	0.56395	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288	1.83288
#2	0.56957	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010	1.86010
Mean	0.56676	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649	1.84649
%RSD	0.70030	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221	1.04221

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:30

SampleId1 : 1705533-2 2X SampleId2 :
Analysis commenced : 6/20/2017 10:32:35
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]
Position : TUBE9

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00042	59.36006	0.01569	0.02539	0.60778	0.00402	0.01222	147.49382	-0.00043
#2	-0.00034	59.11710	0.01506	0.02539	0.60785	0.00395	0.01249	147.99386	0.00021
Mean	-0.00038	59.23858	0.01537	0.02539	0.60782	0.00398	0.01235	147.74384	-0.00011
%RSD	15.36699	0.29000	2.92590	0.00000	0.00738	1.35722	1.55810	0.23932	406.07943

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08015	0.14244	0.11138	149.52574	13.35287	0.10029	36.69792	4.63292	-0.00162
#2	0.08039	0.14376	0.11153	150.17174	13.29046	0.09974	36.76477	4.65168	0.00063
Mean	0.08027	0.14310	0.11145	149.84874	13.32166	0.10002	36.73134	4.64230	-0.00049
%RSD	0.21831	0.65249	0.10105	0.30484	0.33125	0.38546	0.12869	0.28562	323.32322

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.28849	0.16296	2.49550	0.05426	0.05582	16.87714	0.00805	0.00590	0.00123
#2	1.27896	0.16090	2.60152	0.05549	0.05568	16.86701	0.00666	-0.00659	0.00141
Mean	1.28373	0.16193	2.54851	0.05487	0.05575	16.87208	0.00736	-0.00035	0.00132
%RSD	0.52501	0.90002	2.94163	1.57605	0.18757	0.04246	13.40157	2555.10747	9.79325

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.12530	0.00161	0.29428	0.83634	-0.01346	0.02030	0.09721	0.28577	0.02137
#2	13.12047	0.01043	0.29423	0.84164	-0.01689	0.03805	0.09719	0.28862	0.02160
Mean	13.12289	0.00602	0.29426	0.83899	-0.01517	0.02918	0.09720	0.28719	0.02149
%RSD	0.02600	103.52874	0.01274	0.44652	15.96233	43.02427	0.00920	0.70195	0.74845

	Pb	Se
	calc	calc
#1	0.05530	0.00279
#2	0.05561	-0.00125
Mean	0.05546	0.00077
%RSD	0.39354	372.15591

Method : Paragon2 File : 170620A
SampleId1 : 1705533-2D 2X SampleId2 :
Analysis commenced : 6/20/2017 10:33:37
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:31
[SAMPLE]
Position : TUBE10

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00043	58.44184	0.01556	0.02422	0.52442	0.00369	0.00762	123.11286	-0.00022
#2	-0.00223	59.16217	0.00780	0.02475	0.52835	0.00373	0.00258	123.09002	0.00029
Mean	-0.00133	58.80201	0.01168	0.02448	0.52639	0.00371	0.00510	123.10144	0.00003
%RSD	95.29129	0.86621	46.96831	1.54284	0.52786	0.62879	69.87792	0.01312	1053.17801

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06970	0.14348	0.10817	134.38096	13.00894	0.09997	42.93747	3.49743	0.00281
#2	0.06874	0.14297	0.10801	134.53640	13.15468	0.10118	43.19122	3.50889	-0.00053
Mean	0.06922	0.14323	0.10809	134.45868	13.08181	0.10058	43.06435	3.50316	0.00114
%RSD	0.98205	0.25066	0.10155	0.08174	0.78776	0.84815	0.41665	0.23124	207.43741

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.35816	0.15518	2.07189	0.05137	0.05467	19.65103	0.00447	0.00326	0.00613
#2	1.37801	0.15627	2.17772	0.04604	0.05795	19.81795	0.00404	-0.00148	0.01004
Mean	1.36809	0.15573	2.12480	0.04871	0.05631	19.73449	0.00425	0.00089	0.00808
%RSD	1.02636	0.49659	3.52191	7.73235	4.12779	0.59809	7.15068	375.06268	34.14381

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	12.94347	0.01466	0.24941	0.82215	-0.01656	0.02907	0.10011	0.27744	0.02369
#2	13.08310	0.01297	0.25188	0.83053	-0.02090	0.00358	0.09883	0.27431	0.02340
Mean	13.01328	0.01381	0.25064	0.82634	-0.01873	0.01632	0.09947	0.27587	0.02355
%RSD	0.75873	8.65520	0.69730	0.71646	16.40820	110.42854	0.91163	0.80109	0.88289

	Pb	Se
	calc	calc
#1	0.05357	0.00518
#2	0.05399	0.00620
Mean	0.05378	0.00569
%RSD	0.55079	12.75617

Method : Paragon2
File : 170620A
SampleId1 : CCV
SampleId2 :
Analysis commenced : 6/20/2017 10:34:43
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:31
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19714	50.73586	0.50310	1.00539	0.99813	0.49192	0.48914	49.78402	0.48469
#2	0.19748	50.55934	0.49178	0.99984	0.99056	0.49101	0.48911	49.88740	0.48513
Mean	0.19731	50.64760	0.49744	1.00261	0.99434	0.49147	0.48913	49.83571	0.48491
%RSD	0.12056	0.24644	1.60877	0.39184	0.53794	0.13025	0.00459	0.14668	0.06447

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47133	0.98085	0.98972	19.59875	52.67021	0.51287	50.87991	0.98244	0.98029

#2	0.46925	0.97947	0.98034	19.56028	52.28493	0.50843	50.79986	0.97995	0.98006
Mean	0.47029	0.98016	0.98503	19.57951	52.47757	0.51065	50.83989	0.98120	0.98018
%RSD	0.31276	0.09953	0.67385	0.13893	0.51914	0.61440	0.11134	0.17976	0.01688
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.28785	0.99660	4.73187	1.01419	1.00258	5.02023	0.51398	1.01710	0.98116
#2	52.02524	0.99206	4.62491	1.00942	1.00828	4.93362	0.50637	0.98994	0.99804
Mean	52.15654	0.99433	4.67839	1.01180	1.00543	4.97693	0.51018	1.00352	0.98960
%RSD	0.35604	0.32318	1.61675	0.33311	0.40096	1.23059	1.05485	1.91436	1.20613
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.86153	1.04207	0.50123	0.48817	0.50179	4.82916	0.49111	1.00311	0.98421
#2	4.84424	1.03829	0.49781	0.48734	0.50098	4.78091	0.49012	1.00585	0.97990
Mean	4.85289	1.04018	0.49952	0.48776	0.50139	4.80503	0.49061	1.00448	0.98206
%RSD	0.25188	0.25682	0.48430	0.12096	0.11359	0.70998	0.14211	0.19282	0.30995
#1	Pb	Se							
	calc	calc							
#1	1.00644	0.99313							
#2	1.00866	0.99534							
Mean	1.00755	0.99424							
%RSD	0.15548	0.15731							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:31

SampleId1 : CCB

SampleId2 :

[CB]

Analysis commenced : 6/20/2017 10:35:51

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD2

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Cd	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
#1	-0.00004	0.00471	-0.00365	-0.00346	0.00015	-0.00007	0.00722	0.03168	0.00009
#2	0.00015	-0.00754	-0.00161	-0.00217	0.00009	-0.00016	0.00140	0.02880	-0.00044
Mean	0.00006	-0.00142	-0.00263	-0.00281	0.00012	-0.00011	0.00431	0.03024	-0.00018
%RSD	228.84190	611.16156	54.74786	32.21071	36.23657	53.81163	95.41913	6.73447	214.01838
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	-0.00069	0.00133	0.01370	0.16157	0.00342	0.02288	0.00032	-0.00038
#2	-0.00006	-0.00025	0.00099	0.01249	0.17139	0.00343	0.02605	0.00020	0.00063
Mean	-0.00019	-0.00047	0.00116	0.01310	0.16648	0.00342	0.02447	0.00026	0.00013
%RSD	95.68874	67.03297	20.71656	6.50240	4.17186	0.35924	9.18324	33.65942	554.52815
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07568	0.00161	0.07011	-0.00017	0.00006	-0.00945	-0.00030	-0.00060	0.00310
#2	0.07385	0.00018	-0.03477	0.00226	-0.00090	-0.00434	0.00091	-0.00236	-0.00088

Mean	0.07476	0.00090	0.01767	0.00104	-0.00042	-0.00690	0.00031	-0.00148	0.00111
%RSD	1.72642	112.49200	419.75960	165.09778	161.20717	52.37254	280.64076	84.28587	253.79629
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00484	0.00385	-0.00126	-0.00048	-0.00070	-0.00226	-0.00030	0.00126	0.00056
#2	0.00361	-0.00120	-0.00123	-0.00032	-0.00082	0.00119	-0.00001	0.00004	0.00042
Mean	0.00422	0.00133	-0.00124	-0.00040	-0.00076	-0.00053	-0.00015	0.00065	0.00049
%RSD	20.59750	268.82777	1.99899	27.73191	11.79675	457.32525	133.13543	133.35145	20.77733
	Pb	Se							
	calc	calc							
#1	-0.00002	0.00187							
#2	0.00015	-0.00137							
Mean	0.00007	0.00025							
%RSD	181.11241	926.66100							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:31

SampleId1 : 1705533-2L 10X

SampleId2 :

[SAMPLE]

Analysis commenced : 6/20/2017 10:36:54

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE11

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00081	11.89382	0.00195	0.00285	0.12350	0.00063	0.00874	29.83423	0.00033
#2	-0.00043	11.91941	0.00500	0.00338	0.12369	0.00060	0.00293	29.73636	-0.00068
Mean	0.00019	11.90661	0.00348	0.00312	0.12360	0.00061	0.00583	29.78529	-0.00018
%RSD	456.57810	0.15193	62.08387	12.12587	0.10850	2.96789	70.50313	0.23234	408.70868
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01700	0.03025	0.02291	28.55734	2.32834	0.01887	7.62025	0.97484	0.00063
#2	0.01639	0.02977	0.02223	28.52348	2.32243	0.01895	7.60751	0.97446	-0.00038
Mean	0.01670	0.03001	0.02257	28.54041	2.32538	0.01891	7.61388	0.97465	0.00013
%RSD	2.55738	1.14184	2.11234	0.08388	0.17969	0.28193	0.11832	0.02714	554.52815
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.28467	0.03543	0.49012	0.01021	0.01032	3.49631	-0.00165	-0.00075	0.00203
#2	0.28400	0.03505	0.59523	0.00838	0.01200	3.47591	0.00116	0.00145	-0.00006
Mean	0.28433	0.03524	0.54268	0.00929	0.01116	3.48611	-0.00024	0.00035	0.00099
%RSD	0.16761	0.75954	13.69714	13.92950	10.64718	0.41368	818.39612	446.83139	150.37002
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.75181	-0.00140	0.05844	0.17600	-0.00174	-0.01223	0.01876	0.06091	0.00502
#2	2.76098	-0.00098	0.05844	0.17604	-0.01023	-0.01220	0.01881	0.06057	0.00499
Mean	2.75639	-0.00119	0.05844	0.17602	-0.00598	-0.01221	0.01879	0.06074	0.00500

%RSD	0.23513	24.96779	0.00000	0.01397	100.38605	0.20285	0.18233	0.38579	0.31529
<div> <div>Pb</div> <div>Se</div> <div>calc</div> </div>									
#1	0.01028	0.00110							
#2	0.01080	0.00044							
Mean	0.01054	0.00077							
%RSD	3.43252	60.52235							

Method : Paragon2 File : 170620A
SampleId1 : 1705533-2MS 2X SampleId2 :
Analysis commenced : 6/20/2017 10:37:57
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:31
[SAMPLE]
Position : TUBE12

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00029	68.04123	0.49521	0.07924	1.02902	0.02899	0.00354	136.67683	0.24420
#2	0.00029	68.16438	0.50488	0.07636	1.03220	0.02913	0.00911	137.07023	0.24396
Mean	0.00000	68.10280	0.50005	0.07780	1.03061	0.02906	0.00633	136.87353	0.24408
%RSD	42769.25605	0.12787	1.36662	2.62194	0.21812	0.34006	62.31755	0.20323	0.06921

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.30632	0.25199	0.22947	131.06591	34.76910	0.37535	60.08628	3.92648	0.46392
#2	0.30813	0.25370	0.22780	131.46065	34.82391	0.37598	60.15232	3.93797	0.46174
Mean	0.30722	0.25285	0.22863	131.26328	34.79651	0.37567	60.11930	3.93222	0.46283
%RSD	0.41514	0.47644	0.51908	0.21265	0.11139	0.11791	0.07767	0.20671	0.33313

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.92397	0.40766	2.07189	0.29896	0.29027	18.06714	0.08953	0.95813	0.91851
#2	22.94936	0.41094	2.07189	0.29552	0.29545	17.96589	0.08649	0.96149	0.96371
Mean	22.93667	0.40930	2.07189	0.29724	0.29286	18.01652	0.08801	0.95981	0.94111
%RSD	0.07827	0.56688	0.00000	0.81802	1.25060	0.39738	2.44493	0.24758	3.39607

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	12.79613	0.26875	0.51148	1.28618	0.97596	0.04286	0.35248	0.53275	0.03306
#2	12.82253	0.26580	0.51182	1.29240	0.97491	0.03094	0.35453	0.53375	0.03304
Mean	12.80933	0.26727	0.51165	1.28929	0.97544	0.03690	0.35350	0.53325	0.03305
%RSD	0.14571	0.77998	0.04656	0.34076	0.07619	22.84594	0.40979	0.13350	0.05490

	Pb	Se
	calc	calc
#1	0.29317	0.93171
#2	0.29548	0.96297
Mean	0.29432	0.94734
%RSD	0.55491	2.33382

ted: 6/20/2017 17:52:05 **User: STEVE WORKMAN**
Method : Paragon2 File : 170620A
SampleId1 : 1705533-2MSD 2X **SampleId2 :**
Analysis commenced : 6/20/2017 10:38:59
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:32
[SAMPLE]
Position : TUBE13

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00074	71.87812	0.51391	0.08031	1.06031	0.02979	-0.00028	0.24895
#2	-0.00112	71.57837	0.50653	0.08021	1.05980	0.02975	0.00909	0.24834
Mean	-0.00093	71.72825	0.51022	0.08026	1.06005	0.02977	0.00441	0.24864
%RSD	29.32745	0.29550	1.02214	0.09414	0.03394	0.09762	150.25941	0.17292

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.31458	0.25832	0.23455	138.61601	36.23851	0.39329	62.82710	3.75838	0.46960
#2	0.31293	0.25880	0.23455	138.48151	36.05072	0.39131	62.76231	3.75443	0.47108
Mean	0.31376	0.25856	0.23455	138.54876	36.14461	0.39230	62.79471	3.75641	0.47034
%RSD	0.37093	0.13140	0.00093	0.06864	0.36738	0.35545	0.07296	0.07443	0.22245

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.73224	0.42301	2.17772	0.30167	0.30576	21.38530	0.08815	0.97686	0.95705
#2	23.64233	0.42284	2.17772	0.29721	0.31111	21.36003	0.09077	0.98742	0.98231
Mean	23.68728	0.42293	2.17772	0.29944	0.30843	21.37267	0.08946	0.98214	0.96968
%RSD	0.26841	0.02813	0.00000	1.05483	1.22586	0.08361	2.07430	0.76041	1.84169

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	12.68068	0.27044	0.52530	1.27950	1.00680	0.00166	0.36310	0.54700	0.03292
#2	12.65902	0.26791	0.52301	1.28209	0.99901	0.00755	0.36107	0.54640	0.03293
Mean	12.66985	0.26917	0.52415	1.28080	1.00291	0.00461	0.36208	0.54670	0.03292
%RSD	0.12091	0.66300	0.30862	0.14277	0.54930	90.52865	0.39827	0.07761	0.00849

	Pb	Se
	calc	calc
#1	0.30440	0.96365
#2	0.30648	0.98401
Mean	0.30544	0.97383
%RSD	0.48131	1.47855

Method : Paragon2 File : 170620A
SampleId1 : FP170613-3MB **SampleId2 :**
Analysis commenced : 6/20/2017 10:46:50
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:32
[SAMPLE]
Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00007	-0.01945	0.00208	-0.00356	0.00009	-0.00016	-0.00493	0.05184	-0.00061
#2	-0.00127	-0.02739	0.00081	-0.00367	0.00015	-0.00020	0.00368	0.05256	-0.00075
Mean	-0.00060	-0.02342	0.00144	-0.00362	0.00012	-0.00018	-0.00063	0.05220	-0.00068
%RSD	157.51145	23.95210	62.38334	2.08937	36.23657	14.46156	972.89143	0.97535	13.74031

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00020	-0.00016	0.00083	0.02860	0.11835	0.00326	0.00381	0.00032	0.00032
#2	-0.00032	-0.00056	0.00133	0.02785	0.12523	0.00331	0.00191	0.00032	-0.00084
Mean	-0.00006	-0.00036	0.00108	0.02822	0.12179	0.00328	0.00286	0.00032	-0.00026
%RSD	599.05871	79.87489	33.13210	1.88578	3.99165	0.99944	47.14047	0.00000	317.34403

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07971	0.00018	0.07011	-0.00568	0.00035	0.01098	0.00051	-0.00326	0.00460
#2	0.08010	-0.00074	0.07011	-0.00548	0.00113	0.00587	0.00130	-0.00694	0.00509
Mean	0.07990	-0.00028	0.07011	-0.00558	0.00074	0.00843	0.00091	-0.00510	0.00485
%RSD	0.34009	234.70162	0.00000	2.42837	74.62538	42.85877	62.17782	51.05043	7.26322

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02227	-0.00035	-0.00116	-0.00069	-0.00802	-0.01149	-0.00006	0.00159	-0.00008
#2	0.02191	-0.00246	-0.00116	-0.00049	0.00084	-0.01034	-0.00041	0.00281	-0.00016
Mean	0.02209	-0.00140	-0.00116	-0.00059	-0.00359	-0.01091	-0.00023	0.00220	-0.00012
%RSD	1.15148	105.77209	0.00000	22.91193	174.68835	7.46587	103.91665	39.24813	48.10782

	Pb	Se
	calc	calc
#1	-0.00166	0.00198
#2	-0.00107	0.00109
Mean	-0.00136	0.00153
%RSD	30.28343	41.16095

Method : Paragon2
File : 170620A
SampleId1 : IP170613-3MB
SampleId2 :
Analysis commenced : 6/20/2017 10:48:50
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:32
[SAMPLE]
Position : TUBE15

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00098	-0.01748	0.00399	-0.00474	0.00009	-0.00014	0.00013	0.05040	-0.00011
#2	-0.00088	-0.01386	0.00411	-0.00538	0.00009	-0.00015	-0.00114	0.05076	-0.00070
Mean	-0.00093	-0.01567	0.00405	-0.00506	0.00009	-0.00015	-0.00050	0.05058	-0.00040
%RSD	7.31549	16.32147	2.22117	8.96149	0.00000	7.13030	177.24638	0.50329	103.43564

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00037	-0.00055	-0.00052	0.02589	0.13898	0.00332	0.00007
Mean	-0.00023	-0.00019	-0.00001	0.02664	0.13407	0.00331	0.00007
%RSD	0.00007	-0.00037	-0.00027	0.02627	0.13652	0.00331	0.00007
	622.24972	69.12449	134.70800	2.02626	2.54355	0.24767	0.00000

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.08010	0.00031	0.07011	-0.00654	-0.00227	0.01098	0.00272	-0.00489	0.00370
Mean	0.08015	0.00035	0.07011	-0.00216	0.00047	0.00587	-0.00433	-0.00076	0.00430
%RSD	0.08477	16.89247	0.00000	-0.00435	-0.00090	0.00843	-0.00081	-0.00282	0.00400
				71.18729	215.74544	42.85877	618.86467	103.21064	10.56476

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.02034	-0.00119	-0.00121	-0.00079	-0.00932	-0.02070	-0.00092	0.00250	-0.00029
Mean	0.02192	-0.00077	-0.00117	-0.00077	-0.00276	-0.02070	-0.00058	0.00190	-0.00039
%RSD	10.21303	30.18556	-0.00119	-0.00078	-0.00604	-0.02070	-0.00075	0.00220	-0.00034
			2.08751	1.57316	76.76566	0.00266	32.45102	19.40167	21.71674

	Pb	Se
#1	calc	calc
#2	-0.00369	0.00084
Mean	-0.00040	0.00261
%RSD	-0.00205	0.00173
	113.49769	72.53075

Method : Paragon2
SampleId1 : IP170613-3LCS
SampleId2 :
Analysis commenced : 6/20/2017 10:49:52
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:32
[SAMPLE]

Position : TUBE16

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.10117	2.03457	1.02572	0.10083	1.02743	0.05142	-0.00213	39.59613	0.49496
Mean	0.10146	2.04169	1.02381	0.10296	1.03277	0.05177	0.00168	39.87744	0.49600
%RSD	0.10132	2.03813	1.02476	0.10190	1.03010	0.05160	-0.00022	39.73678	0.49548
	0.20029	0.24721	0.13155	1.48294	0.36662	0.48542	1222.51891	0.50060	0.14800

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.48587	0.20464	0.25932	1.15488	39.55362	0.50665	40.12376	0.50075	0.99324
Mean	0.48923	0.20565	0.26016	1.16337	39.62986	0.50818	40.40624	0.50348	1.00736
%RSD	0.48755	0.20514	0.25974	1.15912	39.59174	0.50742	40.26500	0.50212	1.00030
	0.48761	0.34764	0.22912	0.51793	0.13617	0.21338	0.49608	0.38486	0.99791

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2									
Mean									
%RSD									

#1	40.06418	0.51338	0.07011	0.50963	0.50810	0.01609	0.51842	2.09193	2.03186
#2	40.16314	0.51885	0.07011	0.51522	0.51892	0.01098	0.52115	2.10857	2.10066
Mean	40.11366	0.51611	0.07011	0.51243	0.51351	0.01353	0.51979	2.10025	2.06626
%RSD	0.17444	0.74930	0.00000	0.77145	1.49082	26.68470	0.37102	0.56004	2.35429

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.08767	0.52173	0.51359	0.48915	2.02631	-0.01841	0.51465	0.52259	0.00018
#2	1.09704	0.51921	0.51616	0.49452	2.04718	-0.01727	0.51872	0.52729	-0.00021
Mean	1.09236	0.52047	0.51488	0.49183	2.03674	-0.01784	0.51668	0.52494	-0.00001
%RSD	0.60664	0.34326	0.35309	0.77219	0.72481	4.52886	0.55757	0.63354	2155.04376

	Pb	Se
	calc	calc
#1	0.50861	2.05187
#2	0.51769	2.10329
Mean	0.51315	2.07758
%RSD	1.25161	1.75028

Method : Paragon2 File : 170620A
SampleId1 : 1706089-1 SampleId2 :
Analysis commenced : 6/20/2017 10:50:54
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:33
[SAMPLE]

Position : TUBE17

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00106	-0.00923	0.00946	0.03116	0.06472	-0.00006	0.00367	89.81245	-0.00010
#2	-0.00049	-0.01254	0.00437	0.03212	0.06428	-0.00009	0.00519	89.41195	-0.00004
Mean	-0.00077	-0.01089	0.00691	0.03164	0.06450	-0.00008	0.00443	89.61220	-0.00007
%RSD	51.39489	21.53307	52.05532	2.14885	0.48492	30.93233	24.27595	0.31603	61.22841

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	0.00680	0.00049	0.01957	9.99473	0.01197	26.94633	0.00032	0.00110
#2	-0.00023	0.00614	0.00066	0.01957	9.94800	0.01196	26.80278	0.00045	0.00196
Mean	-0.00023	0.00647	0.00057	0.01957	9.97136	0.01197	26.87455	0.00038	0.00153
%RSD	0.21317	7.15512	19.92919	0.00000	0.33142	0.06855	0.37769	22.80426	39.56818

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	26.14964	0.00094	-0.03477	-0.00811	0.00154	47.95888	-0.00193	0.00409	0.01186
#2	25.98306	0.00031	-0.03477	-0.00174	0.00477	47.82922	0.00150	0.00308	0.01246
Mean	26.06635	0.00063	-0.03477	-0.00492	0.00316	47.89405	-0.00022	0.00359	0.01216
%RSD	0.45189	71.31995	0.00000	91.54397	72.40346	0.19144	1114.09678	20.07915	3.47210

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.54625	-0.00161	0.48013	-0.00069	0.00007	-0.02184	0.01366	0.00159	-0.00383

#2	18.43600	0.00133	0.47832	-0.00065	0.00573	-0.00918	0.01360	0.00187	-0.00350
Mean	18.49113	-0.00014	0.47922	-0.00067	0.00290	-0.01551	0.01363	0.00173	-0.00366
%RSD	0.42162	1444.16440	0.26671	3.67824	138.16004	57.74523	0.30243	11.51105	6.36447
	Pb	Se							
	calc	calc							
#1	-0.00167	0.00928							
#2	0.00261	0.00934							
Mean	0.00047	0.00931							
%RSD	649.40509	0.45077							

Method : Paragon2
File : 170620A
SampleId1 : 1706089-1D
SampleId2 :
Analysis commenced : 6/20/2017 10:51:55
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:33
[SAMPLE]

Position : TUBE18

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00047	-0.00844	0.00946	0.03223	0.06542	-0.00001	-0.00012	91.56887	-0.00006
#2	-0.00096	-0.00337	0.00806	0.03394	0.06523	-0.00004	0.00089	91.92304	-0.00009
Mean	-0.00025	-0.00590	0.00876	0.03309	0.06532	-0.00002	0.00038	91.74595	-0.00007
%RSD	411.45030	60.78375	11.29971	3.65363	0.20521	89.14006	187.26176	0.27297	35.16089
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00049	0.00671	0.00015	0.01912	10.17026	0.01210	27.44430	-0.00017	0.00196
#2	-0.00014	0.00688	0.00049	0.01912	10.12401	0.01208	27.49173	-0.00005	0.00110
Mean	-0.00031	0.00679	0.00032	0.01912	10.14714	0.01209	27.46801	-0.00011	0.00153
%RSD	77.49009	1.68900	73.79246	0.00000	0.32229	0.13572	0.12210	78.63479	39.56818
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	26.70390	0.00086	-0.03477	-0.00420	-0.00059	49.08064	0.00009	0.01219	0.01684
#2	26.52083	-0.00007	-0.03477	-0.00485	0.00367	49.04575	0.00249	0.00071	0.01206
Mean	26.61237	0.00039	-0.03477	-0.00453	0.00154	49.06320	0.00129	0.00645	0.01445
%RSD	0.48644	165.98997	0.00000	10.04983	195.78937	0.05028	131.91282	125.85335	23.38306
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.92891	-0.00161	0.48691	-0.00098	-0.00186	-0.01839	0.01435	0.00158	-0.00382
#2	18.88045	-0.00203	0.48812	-0.00081	0.00559	-0.01954	0.01349	0.00128	-0.00391
Mean	18.90468	-0.00182	0.48752	-0.00090	0.00187	-0.01896	0.01392	0.00143	-0.00386
%RSD	0.18128	16.29273	0.17480	13.74408	282.20118	4.29346	4.37186	14.95829	1.72197
#1	Pb	Se							
	calc	calc							
#1	-0.00179	0.01529							
#2	0.00083	0.00828							

Mean -0.00048 0.01179ser: STEVE WORKMAN
%RSD 385.37433 42.06049

Method : Paragon2 File : 170620A
SampleId1 : 1706089-1L 5X SampleId2 :
Analysis commenced : 6/20/2017 10:53:11
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:33
[SAMPLE]
Position : TUBE19

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00137	-0.01719	-0.00390	0.00231	0.01247	-0.00010	-0.00391	17.77962	-0.00019
#2	-0.00079	-0.01002	0.00157	0.00306	0.01260	-0.00012	0.00216	17.78917	-0.00007
Mean	-0.00108	-0.01361	-0.00117	0.00269	0.01254	-0.00011	-0.00088	17.78439	-0.00013
%RSD	37.69729	37.21925	331.75168	19.67546	0.71265	15.59030	487.88505	0.03797	68.12151
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00073	0.00045	-0.00019	0.00482	2.12433	0.00466	5.37434	-0.00005	0.00040
#2	-0.00021	0.00121	0.00082	0.00542	2.11941	0.00464	5.39980	-0.00005	-0.00077
Mean	-0.00047	0.00083	0.00032	0.00512	2.12187	0.00465	5.38707	-0.00005	-0.00018
%RSD	77.34547	65.56551	225.99053	8.31904	0.16398	0.35267	0.33422	0.00000	452.82786

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	5.27733	-0.00007	0.07011	-0.00689	0.00448	9.68181	0.00111	-0.01694	0.00648
#2	5.28376	0.00052	0.07011	-0.00142	0.00090	9.64623	-0.00031	0.00072	0.00350
Mean	5.28054	0.00023	0.07011	-0.00416	0.00269	9.66402	0.00040	-0.00811	0.00499
%RSD	0.08606	184.28428	0.00000	93.02608	93.97820	0.26036	253.06129	154.00559	42.31026

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	3.70183	-0.00245	0.09509	-0.00107	0.00007	-0.00456	0.00263	0.00131	-0.00068
#2	3.71841	-0.00245	0.09518	-0.00131	-0.00494	-0.00801	0.00292	0.00196	-0.00064
Mean	3.71012	-0.00245	0.09514	-0.00119	-0.00244	-0.00628	0.00277	0.00163	-0.00066
%RSD	0.31610	0.00816	0.06544	14.46278	145.56524	38.88150	7.34522	28.29150	4.07938

	Pb calc	Se calc
#1	0.00070	-0.00132
#2	0.00013	0.00257
Mean	0.00041	0.00063
%RSD	97.16718	437.56044

Method : Paragon2 File : 170620A
SampleId1 : 1706089-1LMS SampleId2 :
Analysis commenced : 6/20/2017 10:55:51
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:33
[SAMPLE]
Position : TUBE20

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10165	1.96818	1.00970	0.14282	1.07373	0.05024	0.00668	130.64973	0.48938
#2	0.10013	1.96290	1.01479	0.13993	1.07277	0.05014	0.00617	130.47033	0.48744
Mean	0.10089	1.96554	1.01225	0.14138	1.07325	0.05019	0.00643	130.56003	0.48841
%RSD	1.06496	0.18978	0.35513	1.44290	0.06285	0.14249	5.56492	0.09716	0.28100

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47078	0.20431	0.25864	1.07530	52.58237	0.54968	66.84335	0.48435	0.97608
#2	0.47130	0.20472	0.25814	1.07409	52.49558	0.54842	66.78107	0.48473	0.97983
Mean	0.47104	0.20451	0.25839	1.07470	52.53898	0.54905	66.81221	0.48454	0.97795
%RSD	0.07715	0.14174	0.13698	0.07976	0.11680	0.16134	0.06591	0.05438	0.27067

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	68.68697	0.50442	-0.03477	0.50163	0.49152	49.34977	0.51607	2.10829	2.02233
#2	68.45713	0.49865	-0.03477	0.49786	0.49825	49.32485	0.51910	2.09982	2.09674
Mean	68.57205	0.50153	-0.03477	0.49974	0.49489	49.33731	0.51759	2.10405	2.05953
%RSD	0.23701	0.81259	0.00000	0.53285	0.96244	0.03571	0.41499	0.28470	2.55470

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	19.56996	0.52511	0.98873	0.47111	1.99862	-0.00336	0.51537	0.49027	-0.00345
#2	19.54252	0.51629	0.98629	0.47232	2.01056	-0.01257	0.51377	0.49091	-0.00363
Mean	19.55624	0.52070	0.98751	0.47171	2.00459	-0.00797	0.51457	0.49059	-0.00354
%RSD	0.09920	1.19809	0.17527	0.18240	0.42132	81.75519	0.22056	0.09212	3.60189

	Pb	Se
	calc	calc
#1	0.49488	2.05095
#2	0.49812	2.09776
Mean	0.49650	2.07436
%RSD	0.46126	1.59564

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 10:56:58
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:33

[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19652	50.44037	0.48975	0.99823	0.99253	0.48951	0.48835	49.53170	0.48041
#2	0.19568	50.40119	0.49331	0.99695	0.99247	0.48969	0.48431	49.49712	0.48062
Mean	0.19610	50.42078	0.49153	0.99759	0.99250	0.48960	0.48633	49.51441	0.48052
%RSD	0.30517	0.05495	0.51222	0.09088	0.00453	0.02573	0.58694	0.04938	0.03103

ted: 6/20/2017 17:52:05 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.46865	0.97346	0.97949	19.42124	52.17414	0.50830	50.58942	0.97371	0.97569
#2	0.46883	0.97262	0.98051	19.42544	52.10046	0.50791	50.53262	0.97409	0.97928
Mean	0.46874	0.97304	0.98000	19.42334	52.13730	0.50810	50.56102	0.97390	0.97749
%RSD	0.02615	0.06112	0.07311	0.01528	0.09993	0.05489	0.07944	0.02716	0.25951

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	51.60783	0.99260	4.73187	1.00587	0.98223	4.97948	0.50536	1.00313	0.96975
#2	51.49538	0.98945	4.73187	1.00479	1.01045	5.00495	0.50519	0.99198	1.00622
Mean	51.55161	0.99103	4.73187	1.00533	0.99634	4.99221	0.50528	0.99756	0.98799
%RSD	0.15424	0.22518	0.00000	0.07546	2.00325	0.36083	0.02296	0.79041	2.60993

	Si	Sr	Ti	Tl	U	V	Zn	Zr
#1	4.83311	1.03745	0.48552	0.51386	4.78450	0.48773	0.99594	0.97935
#2	4.82872	1.02570	0.48512	0.50529	4.77530	0.48698	1.00119	0.97805
Mean	4.83091	1.03157	0.48532	0.50958	4.77990	0.48736	0.99857	0.97870
%RSD	0.06427	0.80584	0.05825	1.18912	0.13612	0.10817	0.37187	0.09435

	Pb	Se
	calc	calc
#1	0.99010	0.98087
#2	1.00857	1.00148
Mean	0.99933	0.99117
%RSD	1.30689	1.47032

Method : Paragon2 File : 170620A
SampleId1 : CCB SampleId2 :
Analysis commenced : 6/20/2017 10:58:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:34
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00021	0.00131	0.00055	-0.00217	0.00009	-0.00002	0.00392	0.03564	-0.00025
#2	-0.00060	0.00379	0.00488	-0.00260	-0.00003	-0.00007	-0.00341	0.03600	-0.00023
Mean	-0.00041	0.00255	0.00271	-0.00239	0.00003	-0.00005	0.00026	0.03582	-0.00024
%RSD	67.63815	69.02928	112.68703	12.65909	313.32040	67.75209	2019.43828	0.71067	4.28491

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00023	-0.00039	-0.00001	0.01415	0.15469	0.00342	0.02733	0.00032	0.00126
#2	-0.00015	-0.00032	0.00082	0.01445	0.14683	0.00341	0.02796	0.00032	0.00110
Mean	-0.00019	-0.00036	0.00041	0.01430	0.15076	0.00341	0.02764	0.00032	0.00118
%RSD	32.25077	14.38498	145.60298	1.48871	3.68531	0.12015	1.62554	0.00000	9.33002

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08115	0.00086	0.07011	-0.00475	0.00154	-0.01966	-0.00310	-0.00709	0.00330
#2	0.08010	0.00081	0.07011	-0.00465	0.00063	-0.00945	0.00011	-0.00797	0.00270
Mean	0.08063	0.00084	0.07011	-0.00470	0.00109	-0.01456	-0.00150	-0.00753	0.00300
%RSD	0.92691	3.55833	0.00000	1.49104	59.46881	49.61907	152.08229	8.17742	14.07597

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00186	-0.00119	-0.00121	-0.00084	0.00289	-0.02184	0.00028	0.00282	0.00052
#2	0.00221	-0.00245	-0.00117	-0.00109	0.00238	-0.00917	0.00022	0.00189	0.00058
Mean	0.00203	-0.00182	-0.00119	-0.00096	0.00264	-0.01550	0.00025	0.00236	0.00055
%RSD	12.13275	48.84583	2.08751	17.85362	13.58288	57.76412	16.20873	27.80390	7.90605

	Pb	Se
	calc	calc
#1	-0.00055	-0.00016
#2	-0.00113	-0.00085
Mean	-0.00084	-0.00051
%RSD	48.32523	96.31312

Method : Paragon2
File : 170620A
SampleId1 : 1706089-1MSD
SampleId2 :
Analysis commenced : 6/20/2017 10:59:14
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:34
[SAMPLE]

Position : TUBE21

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09957	1.92814	1.01924	0.13919	1.07799	0.05046	0.00214	131.27556	0.48243
#2	0.10024	1.94650	0.99801	0.13822	1.07894	0.05035	-0.00114	130.87472	0.48214
Mean	0.09991	1.93732	1.00862	0.13871	1.07847	0.05040	0.00050	131.07514	0.48229
%RSD	0.47129	0.67010	1.48800	0.49023	0.06255	0.14452	464.20937	0.21624	0.04275

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47258	0.20752	0.25343	0.97790	52.26403	0.54492	67.22610	0.48932	0.98466
#2	0.47102	0.20590	0.25495	0.97654	52.47520	0.54778	67.30136	0.48820	0.97499
Mean	0.47180	0.20671	0.25419	0.97722	52.36961	0.54635	67.26373	0.48876	0.97983
%RSD	0.23309	0.55403	0.42072	0.09862	0.28513	0.37083	0.07912	0.16173	0.69789

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	68.04081	0.49566	0.07011	0.50699	0.50669	49.37967	0.51292	2.07353	2.04397
#2	68.23303	0.49520	0.07011	0.50242	0.51193	49.87296	0.51284	2.08478	2.11006
Mean	68.13692	0.49543	0.07011	0.50471	0.50931	49.62631	0.51288	2.07915	2.07702
%RSD	0.19948	0.06605	0.00000	0.63906	0.72822	0.70288	0.01093	0.38235	2.24995

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	19.61254	0.52174	0.98207	0.48159	1.97367	-0.03320	0.51765	0.49725	-0.00288
#2	19.67165	0.51712	0.98134	0.48306	1.97858	-0.02629	0.51741	0.49500	-0.00359
Mean	19.64209	0.51943	0.98170	0.48233	1.97612	-0.02974	0.51753	0.49613	-0.00324
%RSD	0.21281	0.62924	0.05276	0.21661	0.17572	16.42823	0.03169	0.31999	15.53881

	Pb	Se
	calc	calc
#1	0.50679	2.05382
#2	0.50877	2.10164
Mean	0.50778	2.07773
%RSD	0.27567	1.62762

Method : Paragon2
File : 170620A
SampleId1 : 1706089-2 **SampleId2 :**
Analysis commenced : 6/20/2017 11:00:16
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:34
[SAMPLE]
Position : TUBE22

Final concentrations

	Al	Ag	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.03171	-0.00115	0.00360	0.03202	0.06731	-0.00020	-0.00214	92.73127	0.00006
#2	-0.03024	-0.00039	0.00526	0.03415	0.06712	-0.00020	-0.00113	92.79035	-0.00014
Mean	-0.03097	-0.00077	0.00443	0.03309	0.06722	-0.00020	-0.00164	92.76081	-0.00004
%RSD	3.34997	70.20539	26.38842	4.56703	0.19942	0.41682	43.62339	0.04504	346.53668

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00005	0.00635	0.00117	0.01641	10.34235	0.01228	27.74748	0.00069	0.00133
#2	0.00003	0.00736	0.00150	0.01535	10.35280	0.01226	27.83145	0.00069	0.00157
Mean	-0.00001	0.00686	0.00134	0.01588	10.34758	0.01227	27.78946	0.00069	0.00145
%RSD	609.74539	10.41125	17.84443	4.69194	0.07138	0.13373	0.21367	0.00000	11.36971

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.04161	0.00086	0.07011	-0.00580	0.00484	49.25009	-0.00193	0.00601	0.01475
#2	27.09144	0.00023	0.07011	-0.00417	0.00204	49.30491	-0.00455	0.00807	0.00917
Mean	27.06653	0.00054	0.07011	-0.00499	0.00344	49.27750	-0.00324	0.00704	0.01196
%RSD	0.13018	82.40147	0.00000	23.15128	57.52503	0.07866	57.17364	20.70261	32.95812

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	19.39506	0.00091	0.49393	-0.00055	-0.00096	-0.02069	0.01469	0.00219	-0.00417
#2	19.44710	0.00049	0.49407	-0.00091	0.00508	-0.02069	0.01406	0.00161	-0.00406
Mean	19.42108	0.00070	0.49400	-0.00073	0.00206	-0.02069	0.01438	0.00190	-0.00411
%RSD	0.18949	42.61958	0.02030	35.39906	207.45032	0.00373	3.09894	21.42789	1.96014

	Pb	Se
	calc	calc

#1 0.00130 0.01184ser: STEVE WORKMAN
#2 -0.00003 0.00881
Mean 0.00064 0.01032
%RSD 147.31837 20.77283

Method : Paragon2 File : 170620A
SampleId1 : 1706089-3 SampleId2 :
Analysis commenced : 6/20/2017 11:01:19
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:34
[SAMPLE]
Position : TUBE23

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00021	-0.02929	0.00551	0.00477	0.03648	-0.00021	0.00039	48.41832	-0.00029
#2	-0.00115	-0.02019	0.01035	0.00584	0.03673	-0.00019	-0.00012	48.46045	-0.00030
Mean	-0.00068	-0.02474	0.00793	0.00531	0.03661	-0.00020	0.00013	48.43938	-0.00029
%RSD	98.26646	26.01722	43.10583	14.23983	0.48818	9.01649	272.81273	0.06150	3.11863
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00077	0.00194	0.00133	0.06489	6.39162	0.00855	13.68259	0.00886	0.00149
#2	-0.00035	0.00126	0.00100	0.06579	6.45894	0.00861	13.75982	0.00861	0.00126
Mean	0.00021	0.00160	0.00116	0.06534	6.42528	0.00858	13.72120	0.00873	0.00137
%RSD	383.99900	29.89906	20.05684	0.97777	0.74086	0.47810	0.39797	2.00319	12.01360

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	12.27417	0.01091	0.07011	-0.00173	0.00006	23.51193	-0.00090	-0.00045	0.00450
#2	12.45964	0.00961	0.07011	-0.00616	0.00282	23.75930	-0.00170	-0.00091	0.00570
Mean	12.36690	0.01026	0.07011	-0.00395	0.00144	23.63561	-0.00130	-0.00068	0.00510
%RSD	1.06048	8.98847	0.00000	79.25685	135.30251	0.74006	43.63249	47.23996	16.57261

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.72029	0.00511	0.24056	-0.00076	0.00652	-0.00577	0.01894	0.01780	-0.00384
#2	18.91412	-0.00456	0.24219	-0.00110	-0.00120	-0.01959	0.01842	0.01746	-0.00390
Mean	18.81720	0.00028	0.24137	-0.00093	0.00266	-0.01268	0.01868	0.01763	-0.00387
%RSD	0.72839	2471.67652	0.47575	26.45956	205.47796	77.06730	1.95717	1.36264	1.03455

	Pb	Se
	calc	calc
#1	-0.00054	0.00285
#2	-0.00017	0.00350
Mean	-0.00035	0.00317
%RSD	74.40028	14.37983

Method : Paragon2 File : 170620A
SampleId1 : 1706089-4 SampleId2 :
Analysis commenced : 6/20/2017 11:02:21

Printed : 6/20/2017 17:51:35
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE24

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00162	-0.00082	0.00271	0.00488	0.03743	-0.00022	-0.00315	48.38492	-0.00055
#2	-0.00067	-0.00652	0.00500	0.00488	0.03762	-0.00025	-0.00138	48.75577	-0.00012
Mean	-0.00115	-0.00367	0.00386	0.00488	0.03752	-0.00024	-0.00227	48.57034	-0.00033
%RSD	58.61417	109.94546	41.95800	0.00000	0.35720	7.66974	55.30300	0.53989	91.89185

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00010	0.01548	0.00303	0.15195	6.45696	0.00861	13.77322	0.00985	0.00258
#2	-0.00096	0.01447	0.00235	0.15210	6.52280	0.00867	13.83959	0.00985	0.00087
Mean	-0.00053	0.01498	0.00269	0.15202	6.48988	0.00864	13.80641	0.00985	0.00172
%RSD	115.82204	4.77734	17.78964	0.07008	0.71736	0.47489	0.33995	0.00000	70.20758

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	12.50624	0.01684	0.07011	-0.00869	0.00250	23.92083	-0.00156	-0.00710	0.01188
#2	12.59928	0.01562	0.07011	-0.00521	0.00216	24.01168	-0.00318	0.00174	0.00889
Mean	12.55276	0.01623	0.07011	-0.00695	0.00233	23.96626	-0.00237	-0.00268	0.01039
%RSD	0.52410	5.31424	0.00000	35.47916	10.36784	0.26806	48.34958	232.95948	20.33333

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	18.80919	0.00007	0.24245	-0.00039	-0.00260	-0.02774	0.01852	0.02243	-0.00388
#2	18.94903	-0.00330	0.24386	0.00091	-0.00491	-0.02428	0.01829	0.02301	-0.00374
Mean	18.87911	-0.00162	0.24316	0.00026	-0.00376	-0.02601	0.01841	0.02272	-0.00381
%RSD	0.52375	147.17686	0.41067	352.33617	43.52030	9.39060	0.88694	1.79140	2.58034

	Pb	Se
	calc	calc
#1	-0.00123	0.00556
#2	-0.00029	0.00651
Mean	-0.00076	0.00604
%RSD	86.96555	11.13532

Method : Paragon2 File : 170620A

SampleId1 : 1706126-1 SampleId2 :

Analysis commenced : 6/20/2017 11:03:23

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:35

[SAMPLE]

Position : TUBE25

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00027	-0.03200	0.00831	0.00456	0.06839	-0.00021	-0.00265	118.42942	0.00007
#2	-0.00029	-0.03251	0.00144	0.00520	0.06858	-0.00020	0.00316	118.38191	-0.00009

Mean	-0.00001	-0.03225	0.00488	0.00488	0.06848	-0.00020	0.00026	118.40566	-0.00001
%RSD	3285.80919	1.13000	99.60573	9.29243	0.19575	4.53383	1593.77437	0.02837	1257.70429
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00081	0.00416	0.00099	0.02770	10.11158	0.01171	31.76326	0.00366	0.00227
#2	-0.00005	0.00446	0.00100	0.02679	10.20707	0.01176	31.80755	0.00366	0.00235
Mean	0.00038	0.00431	0.00099	0.02725	10.15932	0.01173	31.78541	0.00366	0.00231
%RSD	159.95915	4.88209	0.80998	2.34420	0.66458	0.27963	0.09852	0.00000	2.38424
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	21.39604	0.00418	0.28002	-0.00131	-0.00134	85.59716	-0.00070	0.01722	0.02282
#2	21.56077	0.00346	0.17504	-0.00500	0.00037	85.88078	-0.00352	0.02235	0.02112
Mean	21.47840	0.00382	0.22753	-0.00316	-0.00049	85.73897	-0.00211	0.01978	0.02197
%RSD	0.54231	13.22833	32.62465	82.56951	247.77408	0.23391	94.34199	18.34073	5.44706
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.86228	-0.00498	0.60124	-0.00096	0.00664	-0.00228	0.01515	0.00519	-0.00382
#2	18.99805	0.00049	0.60375	-0.00138	0.00187	-0.02415	0.01435	0.00489	-0.00350
Mean	18.93016	-0.00224	0.60250	-0.00117	0.00425	-0.01321	0.01475	0.00504	-0.00366
%RSD	0.50716	172.11421	0.29383	25.16093	79.30538	117.05817	3.85069	4.16388	6.28064

	Pb	Se
	calc	calc
#1	-0.00133	0.02095
#2	-0.00142	0.02153
Mean	-0.00138	0.02124
%RSD	4.53823	1.92974

Method : Paragon2
File : 170620A
SampleId1 : 1706126-2
SampleId2 :
Analysis commenced : 6/20/2017 11:04:25
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:35
[SAMPLE]
Position : TUBE26

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00092	-0.02805	0.01429	0.00712	0.07231	-0.00021	0.00545	117.67112	-0.00047
#2	-0.00022	-0.02674	0.00679	0.00702	0.07224	-0.00024	-0.00694	118.03924	0.00001
Mean	0.00035	-0.02740	0.01054	0.00707	0.07227	-0.00022	-0.00075	117.85518	-0.00023
%RSD	228.31620	3.37405	50.36419	1.06883	0.06183	8.60826	1174.98243	0.22087	148.82737
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00021	0.01186	0.00166	0.06082	10.07429	0.01166	31.63106	0.00366	0.00180
#2	0.00021	0.01106	0.00132	0.06052	10.07180	0.01169	31.67662	0.00354	0.00266
Mean	0.00021	0.01146	0.00149	0.06067	10.07304	0.01168	31.65384	0.00360	0.00223

%RSD	0.27534	4.95878	15.85882	0.35099	0.01745	0.21076	0.10179	2.42989	27.14175
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	21.36644	0.00696	0.28002	0.00474	-0.00315	85.24501	-0.00135	0.01340	0.01207
#2	21.39259	0.00557	0.28002	-0.00055	0.00083	85.35261	-0.00295	0.01266	0.01665
Mean	21.37951	0.00626	0.28002	0.00209	-0.00116	85.29881	-0.00215	0.01303	0.01436
%RSD	0.08648	15.67426	0.00000	178.22082	243.38022	0.08920	52.63537	4.02544	22.55667
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.71814	-0.00119	0.59926	-0.00036	-0.00427	0.01035	0.01494	0.00336	-0.00318
#2	18.76981	-0.00077	0.59972	-0.00079	0.00035	0.00460	0.01488	0.00301	-0.00319
Mean	18.74398	-0.00098	0.59949	-0.00057	-0.00196	0.00748	0.01491	0.00319	-0.00318
%RSD	0.19493	30.21590	0.05445	53.65301	166.67900	54.44669	0.27782	7.66271	0.21276
	Pb	Se							
	calc	calc							
#1	-0.00052	0.01251							
#2	0.00038	0.01532							
Mean	-0.00007	0.01392							
%RSD	853.81637	14.26818							

Method : Paragon2 File : 170620A
SampleId1 : 1706126-3 SampleId2 :
Analysis commenced : 6/20/2017 11:05:27
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:35

[SAMPLE]

Position : TUBE27

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00008	-0.03288	0.01226	0.00669	0.06681	-0.00024	0.00873	108.81659	0.00016
#2	0.00027	-0.02851	0.00310	0.00573	0.06693	-0.00024	0.00140	108.43948	0.00021
Mean	0.00018	-0.03069	0.00768	0.00621	0.06687	-0.00024	0.00507	108.62803	0.00018
%RSD	76.87868	10.07625	84.38167	10.94273	0.13364	2.78501	102.34241	0.24548	17.64769
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00021	0.00206	0.00167	0.01550	9.89182	0.01139	29.83204	0.00082	-0.00030
#2	0.00021	0.00231	0.00251	0.01565	9.87442	0.01134	29.79419	0.00069	0.00110
Mean	0.00021	0.00218	0.00209	0.01558	9.88312	0.01137	29.81312	0.00075	0.00040
%RSD	0.09002	7.81555	28.51176	0.68323	0.12449	0.28862	0.08976	11.59049	246.77529
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.33963	0.00145	0.07011	-0.00007	-0.00033	79.10612	0.00210	0.01765	0.01137
#2	18.33320	0.00418	0.07011	-0.00097	0.00242	79.23861	0.00191	0.02589	0.01754
Mean	18.33642	0.00281	0.07011	-0.00052	0.00105	79.17236	0.00201	0.02177	0.01445
%RSD	0.02476	68.73140	0.00000	121.50056	185.57826	0.11833	6.68932	26.77773	30.20448

Seser: STEVE WORKMAN

Pb

	calc
#1	-0.00170
#2	0.00070
Mean	-0.00050
%RSD	340.65978

Method : Paragon2

File : 170620A

SampleId1 : 1706236-1

SampleId2 :

Analysis commenced : 6/20/2017 11:07:30

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:36

[SAMPLE]

Position : TUBE29

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00063	11.64592	0.00806	0.55781	0.17459	0.00069	0.00044	83.50570	0.00026
#2	-0.00024	11.63249	0.00450	0.55856	0.17440	0.00069	-0.00588	83.93933	-0.00037
Mean	0.00019	11.63920	0.00628	0.55819	0.17449	0.00069	-0.00272	83.72252	-0.00006
%RSD	318.32185	0.08157	40.13173	0.09475	0.07688	0.40788	164.21887	0.36624	815.26775
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00347	0.01010	0.00976	14.82822	12.35792	0.36555	135.59088	0.19766	0.00149
#2	0.00399	0.01054	0.00975	14.87068	12.35593	0.36485	136.01526	0.19816	0.00056
Mean	0.00373	0.01032	0.00976	14.84945	12.35693	0.36520	135.80307	0.19791	0.00102
%RSD	9.80527	2.95867	0.06939	0.20219	0.01141	0.13364	0.22097	0.17708	64.48921
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	311.03890	0.00986	0.38504	0.01293	0.01358	203.42737	-0.00396	0.00233	0.00533
#2	309.71778	0.00994	0.38504	0.01246	0.01277	204.32845	-0.00055	-0.00398	0.00672
Mean	310.37834	0.00990	0.38504	0.01269	0.01317	203.87791	-0.00225	-0.00082	0.00603
%RSD	0.30098	0.60084	0.00000	2.64463	4.34841	0.31252	107.03053	542.07103	16.41954
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.65282	0.00572	2.34629	0.20002	-0.00005	-0.01644	0.02078	0.04700	0.00342
#2	27.71085	-0.00437	2.34122	0.20014	-0.00221	0.00193	0.02067	0.04950	0.00384
Mean	27.68184	0.00067	2.34376	0.20008	-0.00113	-0.00725	0.02073	0.04825	0.00363
%RSD	0.14823	1059.63744	0.15307	0.04303	135.32587	179.13027	0.35412	3.66324	8.21291

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:36

SampleId1 : 1706236-2 SampleId2 :
Analysis commenced : 6/20/2017 11:08:32
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]

Position : TUBE30

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00081	19.01634	0.01798	0.28535	0.40114	0.00109	0.01032	109.34485	0.00040
#2	-0.00005	19.22359	0.00958	0.28610	0.40506	0.00112	0.00375	109.16645	0.00027
Mean	-0.00043	19.11996	0.01378	0.28573	0.40310	0.00110	0.00704	109.25565	0.00034
%RSD	125.28179	0.76647	43.07824	0.18510	0.68875	1.71336	65.99313	0.11546	26.34207

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02930	0.03646	0.03032	41.82868	11.63867	0.18598	95.04572	0.93917	0.00102
#2	0.02904	0.03670	0.03049	41.87589	11.80360	0.18873	95.43041	0.94017	0.00110
Mean	0.02917	0.03658	0.03040	41.85228	11.72114	0.18736	95.23806	0.93967	0.00106
%RSD	0.62291	0.45938	0.38372	0.07977	0.99496	1.03758	0.28562	0.07505	5.17736

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	277.02127	0.05932	1.64904	0.02466	0.02786	39.32244	0.00416	0.08213	0.07914
#2	278.12590	0.06130	1.64904	0.02023	0.02815	39.70808	-0.00006	0.07787	0.08243
Mean	277.57358	0.06031	1.64904	0.02244	0.02801	39.51526	0.00205	0.08000	0.08078
%RSD	0.28140	2.31781	0.00000	13.94826	0.73108	0.69010	145.90754	3.76662	2.88197

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	40.71266	-0.00290	1.30920	0.37947	-0.00163	-0.00294	0.06911	0.11824	0.00328
#2	41.04274	0.00130	1.31584	0.38118	0.00263	0.00392	0.06941	0.11856	0.00277
Mean	40.87770	-0.00080	1.31252	0.38032	0.00050	0.00049	0.06926	0.11840	0.00302
%RSD	0.57099	372.50982	0.35800	0.31678	601.61970	990.31313	0.30497	0.19147	12.03436

	Pb	Se
	calc	calc
#1	0.02680	0.08013
#2	0.02552	0.08091
Mean	0.02616	0.08052
%RSD	3.46352	0.68237

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 11:09:49
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:36
[CV]

Position : STD1

Final concentrations

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.19609	50.90924	0.49877	0.99877	1.00353	0.49295	0.49141	49.79542	0.48215
#2	0.19798	51.03533	0.49572	1.00550	1.00658	0.49246	0.49016	49.64759	0.47899
Mean	0.19704	50.97228	0.49725	1.00213	1.00505	0.49270	0.49079	49.72151	0.48057
%RSD	0.68089	0.17492	0.43399	0.47496	0.21469	0.06998	0.18000	0.21024	0.46542

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47065	0.97951	0.98669	19.55759	52.46422	0.51188	51.00064	0.98095	0.98372
#2	0.47091	0.98306	0.99039	19.55020	52.62158	0.51374	50.94770	0.98045	0.97811
Mean	0.47078	0.98129	0.98854	19.55390	52.54290	0.51281	50.97417	0.98070	0.98092
%RSD	0.03916	0.25551	0.26423	0.02673	0.21177	0.25592	0.07343	0.03597	0.40478

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.11785	0.98802	4.83889	1.01525	0.99576	5.05590	0.51041	1.00641	0.98126
#2	51.24605	0.98520	4.73187	1.00940	1.01372	5.04061	0.50072	1.00085	1.01453
Mean	51.18195	0.98661	4.78538	1.01232	1.00474	5.04826	0.50557	1.00363	0.99789
%RSD	0.17711	0.20206	1.58130	0.40848	1.26433	0.21409	1.35489	0.39201	2.35743

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.88556	1.03199	0.49964	0.48890	0.50396	4.83840	0.49001	1.00492	0.98365
#2	4.89011	1.03577	0.50047	0.49009	0.49590	4.84530	0.49087	0.99792	0.98471
Mean	4.88783	1.03388	0.50006	0.48950	0.49993	4.84185	0.49044	1.00142	0.98418
%RSD	0.06586	0.25836	0.11781	0.17075	1.13893	0.10085	0.12446	0.49421	0.07621

	Pb	Se
	calc	calc
#1	1.00225	0.98964
#2	1.01228	1.00997
Mean	1.00726	0.99980
%RSD	0.70449	1.43837

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 11:10:58
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:36
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00034	0.00484	-0.00390	-0.00217	0.00034	0.00004	-0.00113	0.04824	-0.00005
#2	-0.00061	0.00674	0.00310	-0.00324	0.00022	0.00001	-0.00391	0.04824	0.00011
Mean	-0.00013	0.00579	-0.00040	-0.00271	0.00028	0.00003	-0.00252	0.04824	0.00003
%RSD	501.49895	23.19120	1228.70585	27.90141	31.77037	95.73687	78.16899	0.00000	366.54134

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00054	0.00016	0.00132	0.01882	0.16599	0.00352	0.04258	0.00032	0.00087

#2	-0.00032	-0.00076	0.00150	0.01806	0.14978	0.00349	0.03559	0.00032	0.00009
Mean	0.00011	-0.00030	0.00141	0.01844	0.15788	0.00351	0.03908	0.00032	0.00048
%RSD	545.70032	214.64001	8.75049	2.88632	7.25819	0.58487	12.64752	0.00000	114.83313
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.10873	0.00039	0.07011	0.00009	0.00201	0.00077	0.00393	-0.00015	0.00131
	0.10739	-0.00070	-0.13961	-0.00098	0.00275	-0.00945	-0.00211	-0.00281	0.00101
Mean	0.10806	-0.00015	-0.03475	-0.00045	0.00238	-0.00434	0.00091	-0.00148	0.00116
%RSD	0.88044	506.72759	426.74718	168.55485	22.01532	166.34864	468.26148	127.07008	18.20064
#1	Si	Sn	Sr	Ti	Tl	V	Zn	Zr	
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.00695	-0.00077	-0.00107	-0.00063	0.00214	0.00349	-0.00001	0.00129	0.00116
	0.00889	0.00259	-0.00107	-0.00070	-0.00494	-0.00802	-0.00012	0.00156	0.00085
Mean	0.00792	0.00091	-0.00107	-0.00067	-0.00140	-0.00227	-0.00006	0.00143	0.00100
%RSD	17.28762	262.22992	0.00000	7.35647	356.78218	359.12675	126.54482	13.33101	21.78097
#1	Pb	Se							
#2	calc	calc							
	0.00137	0.00082							
	0.00151	-0.00026							
Mean	0.00144	0.00028							
%RSD	6.93837	273.50715							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:37
SampleId1 : 1706236-3 **SampleId2 :**
Analysis commenced : 6/20/2017 11:12:05 **[SAMPLE]**
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE31

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00946	842.08355	0.40658	0.50268	18.97997	0.11078	0.11354	1062.21980	0.02523
	-0.00824	835.43787	0.40073	0.50343	18.80908	0.11076	0.11044	1074.76089	0.02464
Mean	-0.00885	838.76071	0.40365	0.50305	18.89452	0.11077	0.11199	1068.49035	0.02493
%RSD	9.76765	0.56026	1.02479	0.10513	0.63952	0.01253	1.95864	0.82995	1.68439
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.52419	0.65651	0.88986	696.26266	295.05024	1.35415	469.31339	56.67673	0.00966
	0.52345	0.65961	0.87310	714.90895	291.89571	1.33232	469.68729	57.04453	0.00880
Mean	0.52382	0.65806	0.88148	705.58580	293.47298	1.34324	469.50034	56.86063	0.00923
%RSD	0.10112	0.33313	1.34412	1.86865	0.76007	1.14893	0.05631	0.45739	6.55522
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	186.49894	1.13151	57.03550	2.19089	2.20638	72.65193	0.04048	0.08537	-0.08547
	185.08863	1.13997	57.54820	2.19205	2.21700	72.39095	0.04206	0.05509	-0.07548

Mean	185.79379	1.13574	57.29185	2.19147	2.21169	72.52144	0.04127	0.07023	-0.08047
%RSD	0.53675	0.52662	0.63279	0.03743	0.33941	0.25447	2.71747	30.48930	8.77601
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	125.24473	0.03673	9.10396	1.35697	-0.39858	1.63542	1.06003	4.89952	0.11613
#2	124.91989	0.03589	9.04159	1.35315	-0.40167	1.52638	1.06011	4.93720	0.11607
Mean	125.08231	0.03631	9.07277	1.35506	-0.40013	1.58090	1.06007	4.91836	0.11610
%RSD	0.18364	1.62806	0.48608	0.19922	0.54607	4.87722	0.00564	0.54180	0.03844
	Pb	Se							
	calc	calc							
#1	2.20122	-0.02858							
#2	2.20869	-0.03200							
Mean	2.20495	-0.03029							
%RSD	0.23946	7.98694							

Method : Paragon2 File : 170620A
SampleId1 : 1706236-1 10X SampleId2 :
Analysis commenced : 6/20/2017 11:16:43
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:37

[SAMPLE]

Position : TUBE32

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00091	1.16980	-0.00059	0.05125	0.01892	-0.00014	0.00500	8.53314	0.00028
#2	-0.00013	1.16222	0.00526	0.05018	0.01911	-0.00014	-0.00284	8.55750	0.00017
Mean	0.00039	1.16601	0.00233	0.05072	0.01901	-0.00014	0.00108	8.54532	0.00022
%RSD	189.64764	0.45988	177.40488	1.48972	0.70491	2.41300	513.27265	0.20154	36.51770
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00156	0.00165	0.00301	1.60106	0.98508	0.03086	13.36414	0.02865	0.00056
#2	0.00087	0.00085	0.00234	1.60076	0.98853	0.03092	13.41073	0.02865	0.00063
Mean	0.00122	0.00125	0.00267	1.60091	0.98681	0.03089	13.38743	0.02865	0.00060
%RSD	40.17775	45.21466	17.64821	0.01343	0.24659	0.13277	0.24606	0.00000	9.23395
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	34.00425	0.00258	-0.03477	0.00544	-0.00175	22.31503	0.00271	-0.00397	-0.00426
#2	34.16727	0.00220	0.07011	-0.00013	-0.00184	22.48678	0.00111	0.00926	0.00351
Mean	34.08576	0.00239	0.01767	0.00266	-0.00179	22.40091	0.00191	0.00265	-0.00038
%RSD	0.33820	11.19001	419.75960	148.12831	3.71053	0.54215	59.37480	353.82504	1458.43533
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.82591	0.00424	0.23986	0.01962	0.00408	0.00876	0.00308	0.00601	0.00148
#2	2.83385	0.00298	0.24070	0.02017	-0.00107	-0.00506	0.00262	0.00629	0.00121
Mean	2.82988	0.00361	0.24028	0.01990	0.00151	0.00185	0.00285	0.00615	0.00135

%RSD	0.19834	24.67817	0.24934	1.97866	241.54258	527.46850	11.42643	3.16168	14.15175
	Pb		Se						
	calc		calc						
#1	0.00065	-0.00416							
#2	-0.00127	0.00542							
Mean	-0.00031	0.00063							
%RSD	436.53344	1076.56755							

Method : Paragon2 File : 170620A
SampleId1 : 1706236-2 10X **SampleId2 :**
Analysis commenced : 6/20/2017 11:17:45
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:37
[SAMPLE]
Position : TUBE33

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00040	1.91653	0.00450	0.02400	0.04147	-0.00006	0.00201	10.94434	-0.00016
#2	-0.00107	1.90060	0.00348	0.02347	0.04109	-0.00014	-0.00178	10.91263	-0.00041
Mean	-0.00074	1.90857	0.00399	0.02374	0.04128	-0.00010	0.00011	10.92848	-0.00029
%RSD	64.11911	0.59036	18.05287	1.59146	0.64935	58.20915	2356.21302	0.20518	62.39206
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00268	0.00248	0.00336	4.15922	0.93347	0.01737	9.46936	0.10291	0.00032
#2	0.00233	0.00292	0.00336	4.13159	0.94379	0.01723	9.41200	0.10217	0.00032
Mean	0.00250	0.00270	0.00336	4.14540	0.93863	0.01730	9.44068	0.10254	0.00032
%RSD	9.75671	11.62025	0.01294	0.47138	0.77770	0.54530	0.42965	0.51225	0.00000
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	30.13283	0.00607	0.28002	-0.00106	0.00593	3.84298	-0.00272	0.00542	0.01091
#2	29.82376	0.00590	0.17504	-0.00441	0.00402	3.87867	-0.00373	0.00189	0.01071
Mean	29.97830	0.00599	0.22753	-0.00274	0.00498	3.86083	-0.00323	0.00365	0.01081
%RSD	0.72900	1.98665	32.62465	86.73669	27.08923	0.65355	22.08022	68.38584	1.32654
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.12867	-0.00586	0.13415	0.03841	-0.00119	-0.02267	0.00629	0.01256	0.00031
#2	4.10079	-0.00040	0.13332	0.03827	-0.00030	-0.02149	0.00599	0.01351	0.00007
Mean	4.11473	-0.00313	0.13373	0.03834	-0.00075	-0.02208	0.00614	0.01303	0.00019
%RSD	0.47927	123.37980	0.43790	0.25671	84.45084	3.77855	3.37503	5.15231	90.07170
	Pb	Se							
	calc	calc							
#1	0.00360	0.00908							
#2	0.00121	0.00777							
Mean	0.00241	0.00842							
%RSD	70.12240	11.00761							

ted: 6/20/2017 17:52:06 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : 1706236-3 10X **SampleId2 :**
Analysis commenced : 6/20/2017 11:18:46
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:37
 [SAMPLE]
 Position : TUBE34

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00116	85.57115	0.04419	0.05339	2.07357	0.01298	0.01361	0.00212
#2	-0.00230	85.97705	0.04572	0.05114	2.08554	0.01292	0.00881	0.00286
Mean	-0.00173	85.77410	0.04495	0.05227	2.07955	0.01295	0.01121	0.00249
%RSD	46.60711	0.33462	2.40143	3.03568	0.40698	0.29437	30.30688	21.15924

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06111	0.07738	0.08710	171.41136	28.90905	0.11246	50.64946	7.50416	0.00095
#2	0.06044	0.07771	0.08727	171.72297	29.07135	0.11308	50.71917	7.52162	0.00056
Mean	0.06078	0.07754	0.08719	171.56716	28.99020	0.11277	50.68431	7.51289	0.00075
%RSD	0.78461	0.29687	0.13828	0.12843	0.39588	0.38550	0.09726	0.16433	36.60852

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.61571	0.13827	6.44981	0.25483	0.25747	7.85611	0.00396	0.00547	0.00925
#2	18.67172	0.13806	6.55758	0.24788	0.25941	7.92225	0.00255	0.00488	0.00840
Mean	18.64371	0.13817	6.50370	0.25136	0.25844	7.88918	0.00326	0.00518	0.00883
%RSD	0.21242	0.10763	1.17176	1.95349	0.53131	0.59282	30.68849	8.09554	6.85369

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.56491	0.00031	1.02101	0.15273	-0.01706	0.03219	0.14801	0.59775	0.01338
#2	13.62332	-0.00053	1.02437	0.15309	-0.02007	0.02841	0.14585	0.60056	0.01277
Mean	13.59412	-0.00011	1.02269	0.15291	-0.01856	0.03030	0.14693	0.59916	0.01307
%RSD	0.30387	528.26229	0.23238	0.16891	11.45724	8.81320	1.03999	0.33168	3.29178

	Pb	Se
	calc	calc
#1	0.25659	0.00799
#2	0.25557	0.00723
Mean	0.25608	0.00761
%RSD	0.28087	7.13495

Method : Paragon2 File : 170620A
SampleId1 : IP170614-2MB **SampleId2 :**
Analysis commenced : 6/20/2017 11:25:07
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:37
 [SAMPLE]
 Position : TUBE35

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00025	-0.02874	0.00284	-0.00324	-0.00029	-0.00024	0.00469	0.01584	0.00023
#2	0.00025	-0.02936	0.00157	-0.00410	-0.00029	-0.00027	0.00191	0.01440	-0.00052
Mean	0.00025	-0.02905	0.00221	-0.00367	-0.00029	-0.00025	0.00330	0.01512	-0.00014
%RSD	0.96657	1.49914	40.79099	16.47162	0.00000	8.72156	59.65104	6.73441	370.56062

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00006	0.00016	0.00082	0.00527	0.14585	0.00331	0.00445	0.00020	-0.00069
#2	-0.00032	-0.00057	0.00133	0.00467	0.14291	0.00331	0.00254	-0.00005	0.00009
Mean	-0.00019	-0.00020	0.00107	0.00497	0.14438	0.00331	0.00350	0.00007	-0.00030
%RSD	96.04991	255.90678	33.13430	8.57112	1.44309	0.00000	38.56948	235.39948	184.03179

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06300	0.00044	-0.03477	-0.00382	-0.00296	-0.01456	-0.00111	0.00588	0.00280
#2	0.06271	-0.00087	-0.13961	-0.00100	-0.00151	-0.00434	-0.00030	-0.00531	-0.00347
Mean	0.06285	-0.00022	-0.08719	-0.00241	-0.00224	-0.00945	-0.00071	0.00028	-0.00034
%RSD	0.32422	427.45169	85.01999	82.80579	45.81715	76.43790	81.75204	2779.78895	1323.88917

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01030	-0.00456	-0.00133	-0.00091	0.00817	-0.00571	0.00028	0.00253	0.00011
#2	0.01083	-0.00330	-0.00135	-0.00110	-0.00597	-0.00110	0.00033	0.00188	0.00017
Mean	0.01056	-0.00393	-0.00134	-0.00101	0.00110	-0.00340	0.00030	0.00221	0.00014
%RSD	3.56185	22.71189	0.92739	13.42266	908.91562	95.67414	13.03718	20.87599	31.47524

	Pb	Se
	calc	calc
#1	-0.00325	0.00383
#2	-0.00134	-0.00408
Mean	-0.00230	-0.00013
%RSD	58.73762	4344.28381

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:38

SampleId1 : IP170614-2LCS

SampleId2 : [SAMPLE]

Analysis commenced : 6/20/2017 11:26:09

Dilution ratio : 1.00000 to 1.00000

Tray :

Position : TUBE36

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00120	1.96337	0.95175	0.09484	1.02514	0.04967	0.00420	38.49536	0.47412
#2	-0.00050	1.97199	0.95963	0.09239	1.03608	0.04988	-0.00236	38.58250	0.47349
Mean	0.00035	1.96768	0.95569	0.09362	1.03061	0.04978	0.00092	38.53893	0.47380
%RSD	342.27268	0.30973	0.58306	1.85622	0.75034	0.29114	502.61437	0.15989	0.09404

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.47724	0.20337	0.26335	1.00834	37.58605	0.48563	38.61329
Mean	0.47776	0.20417	0.26479	1.00933	37.81635	0.48897	38.71845
%RSD	0.15377	0.55257	0.76900	0.13795	0.86129	0.96707	0.38410

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	38.08724	0.50614	0.07011	0.50202	0.48470	0.01609	0.49576	1.80141	1.77376
#2	38.57087	0.50686	0.07011	0.49970	0.50272	-0.00945	0.49936	1.81804	1.84089
Mean	38.32906	0.50650	0.07011	0.50086	0.49371	0.00332	0.49756	1.80973	1.80733
%RSD	0.89221	0.09984	0.00000	0.32669	2.58061	544.05989	0.51122	0.64952	2.62643

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.96717	0.51249	0.50893	0.48692	1.95545	0.00592	0.51214	0.50297	0.00109
#2	0.97295	0.51417	0.51343	0.49264	1.97016	-0.02517	0.51410	0.50241	0.00047
Mean	0.97006	0.51333	0.51118	0.48978	1.96280	-0.00963	0.51312	0.50269	0.00078
%RSD	0.42145	0.23053	0.62295	0.82562	0.52983	228.39830	0.26901	0.07750	55.96739

	Pb	Se
	calc	calc
#1	0.49047	1.78297
#2	0.50172	1.83328
Mean	0.49609	1.80812
%RSD	1.60318	1.96754

Method : Paragon2
File : 170620A
SampleId1 : 1705328-1
SampleId2 :
Analysis commenced : 6/20/2017 11:27:11
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:38
[SAMPLE]
Position : TUBE37

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00139	47.60618	0.02078	0.00926	0.90483	0.00588	0.00891	22.71095	0.00097
#2	-0.00235	47.54736	0.02536	0.00937	0.89734	0.00578	0.00966	22.71501	0.00141
Mean	-0.00187	47.57677	0.02307	0.00931	0.90108	0.00583	0.00929	22.71298	0.00119
%RSD	36.32500	0.08742	14.03787	0.81130	0.58828	1.20051	5.69465	0.01265	26.05650

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03460	0.04942	0.06264	77.06107	11.37765	0.04355	11.22835	2.51825	0.00297
#2	0.03383	0.05038	0.06331	76.82305	11.31490	0.04323	11.19646	2.51193	0.00196
Mean	0.03422	0.04990	0.06298	76.94206	11.34627	0.04339	11.21240	2.51509	0.00246
%RSD	1.60359	1.36430	0.75141	0.21874	0.39108	0.51990	0.20109	0.17753	29.03692

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	38.08724	0.50614	0.07011	0.50202	0.48470	0.01609	0.49576	1.80141	1.77376
#2	38.57087	0.50686	0.07011	0.49970	0.50272	-0.00945	0.49936	1.81804	1.84089
Mean	38.32906	0.50650	0.07011	0.50086	0.49371	0.00332	0.49756	1.80973	1.80733
%RSD	0.89221	0.09984	0.00000	0.32669	2.58061	544.05989	0.51122	0.64952	2.62643

#1	0.55965	0.04935	1.33240	0.09280	0.09649	1.18022	0.00753	0.00095	0.00834
#2	0.55656	0.04998	1.22695	0.09042	0.09720	1.19043	0.00350	-0.00081	0.00542
Mean	0.55810	0.04967	1.27968	0.09161	0.09685	1.18532	0.00552	0.00007	0.00688
%RSD	0.39144	0.89821	5.82691	1.83514	0.51489	0.60901	51.74509	1846.74226	30.00294

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	28.53995	0.02099	0.17924	1.88415	-0.01268	0.06997	0.12420	0.22893	0.11445
#2	28.50450	0.01133	0.17768	1.87883	-0.01518	0.07943	0.12294	0.22680	0.11421
Mean	28.52223	0.01616	0.17846	1.88149	-0.01393	0.07470	0.12357	0.22786	0.11433
%RSD	0.08790	42.27313	0.61485	0.20001	12.68039	8.95182	0.72187	0.66081	0.14865

	Pb	Se
	calc	calc
#1	0.09526	0.00588
#2	0.09494	0.00334
Mean	0.09510	0.00461
%RSD	0.23891	38.83329

Method : Paragon2 File : 170620A
SampleId1 : 1705328-1D SampleId2 :
Analysis commenced : 6/20/2017 11:28:13
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:38
[SAMPLE]

Position : TUBE38

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00235	47.10300	0.01874	0.01075	0.93311	0.00573	0.01312	27.62074	0.00063
#2	-0.00092	47.31898	0.01913	0.01150	0.93552	0.00574	-0.00177	27.69239	0.00072
Mean	-0.00163	47.21099	0.01894	0.01113	0.93431	0.00573	0.00568	27.65657	0.00068
%RSD	62.11177	0.32348	1.42527	4.75220	0.18275	0.15805	185.58923	0.18321	9.57983

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03290	0.05292	0.06011	76.89899	11.39807	0.04638	11.91716	2.46534	0.00305
#2	0.03375	0.05277	0.06146	77.12715	11.42198	0.04648	11.97137	2.47456	0.00499
Mean	0.03332	0.05285	0.06079	77.01307	11.41002	0.04643	11.94427	2.46995	0.00402
%RSD	1.79704	0.21072	1.57207	0.20948	0.14816	0.15016	0.32097	0.26383	34.22097

	Na	Ni	P	Pb	Pb	S	Sb	Se	I
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.57887	0.04872	1.54345	0.09512	0.09463	1.07813	0.00510	0.00743	0.00662
#2	0.57848	0.05057	1.43790	0.09948	0.09209	1.07813	0.00412	-0.00377	0.00616
Mean	0.57867	0.04965	1.49067	0.09730	0.09336	1.07813	0.00461	0.00183	0.00639
%RSD	0.04720	2.63587	5.00663	3.17058	1.92413	0.00000	15.14375	432.06443	5.17988

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.29806	0.01640	0.19491	1.85211	-0.01093	0.07590	0.12382	0.23249	0.11507

#2	27.39221	0.01009	0.19543	1.86137	-0.01781	0.06990	0.12353	0.23187	0.11548
Mean	27.34514	0.01324	0.19517	1.85674	-0.01437	0.07290	0.12368	0.23218	0.11528
%RSD	0.24346	33.71203	0.18532	0.35256	33.88801	5.81278	0.16510	0.19109	0.25433

	Pb	Se
	calc	calc
#1	0.09479	0.00689
#2	0.09455	0.00285
Mean	0.09467	0.00487
%RSD	0.18045	58.63919

Method : Paragon2
File : 170620A
SampleId1 : 1705328-1L 5X
SampleId2 :
Analysis commenced : 6/20/2017 11:31:13
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:38
[SAMPLE]

Position : TUBE39

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	9.27129	0.00386	-0.00057	0.17731	0.00109	0.00421	4.54747	0.00006
#2	0.00090	9.27772	0.00513	-0.00036	0.17611	0.00099	0.00092	4.56991	0.00012
Mean	0.00029	9.27450	0.00450	-0.00046	0.17671	0.00104	0.00256	4.55869	0.00009
%RSD	300.68794	0.04901	20.01155	32.56271	0.48079	7.08509	90.57067	0.34802	49.04018

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00717	0.00956	0.01261	14.21777	2.30339	0.00984	2.26566	0.50013	-0.00092
#2	0.00726	0.01059	0.01294	14.22888	2.31422	0.00989	2.26947	0.50050	0.00188
Mean	0.00721	0.01008	0.01278	14.22333	2.30880	0.00987	2.26756	0.50031	0.00048
%RSD	0.85469	7.24781	1.79302	0.05524	0.33167	0.33256	0.11898	0.05267	413.39705

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14218	0.01078	0.28002	0.01663	0.01623	0.23058	0.00186	-0.00500	0.00306
#2	0.14218	0.00990	0.28002	0.02397	0.01418	0.24080	0.00228	0.00253	-0.00103
Mean	0.14218	0.01034	0.28002	0.02030	0.01521	0.23569	0.00207	-0.00123	0.00102
%RSD	0.00000	6.03944	0.00000	25.56074	9.51396	3.06422	14.44251	431.76567	284.26608

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.77199	-0.00163	0.03402	0.37227	-0.00604	0.01182	0.02390	0.04604	0.02277
#2	5.78667	0.00216	0.03388	0.37106	-0.00076	0.03714	0.02465	0.04609	0.02339
Mean	5.77933	0.00026	0.03395	0.37167	-0.00340	0.02448	0.02427	0.04607	0.02308
%RSD	0.17963	1015.95190	0.29314	0.23154	109.99678	73.13161	2.18508	0.06976	1.88588

	Pb	Se
	calc	calc
#1	0.01636	0.00037
#2	0.01744	0.00016

Mean 0.01690 0.00027ser: STEVE WORKMAN
%RSD 4.51542 56.65533

Method : Paragon2 File : 170620A
SampleId1 : 1705328-1MS SampleId2 :
Analysis commenced : 6/20/2017 11:32:29
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:39
[SAMPLE]
Position : TUBE40

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00187	80.86548	1.00640	0.10767	2.01572	0.05773	0.00407	70.27382	0.49147
#2	-0.00130	80.83869	1.00869	0.10777	2.01879	0.05835	0.00387	70.91927	0.49661
Mean	-0.00159	80.85208	1.00754	0.10772	2.01725	0.05804	0.00397	70.59655	0.49404
%RSD	25.32098	0.02343	0.16056	0.07014	0.10765	0.75822	3.56955	0.64650	0.73620
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.52693	0.26374	0.34282	88.68429	55.40902	0.62126	52.66668	3.01480	0.96953
#2	0.53069	0.26636	0.34013	89.47917	55.26690	0.61996	53.06007	3.03750	0.97452
Mean	0.52881	0.26505	0.34148	89.08173	55.33796	0.62061	52.86337	3.02615	0.97203
%RSD	0.50247	0.69981	0.55810	0.63095	0.18160	0.14869	0.52620	0.53039	0.36309

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	43.46356	0.57181	1.12155	0.60765	0.58690	1.10365	0.27965	1.89596	1.84257
#2	43.36277	0.57661	1.22695	0.61397	0.60388	1.12917	0.27807	1.89538	1.91733
Mean	43.41317	0.57421	1.17425	0.61081	0.59539	1.11641	0.27886	1.89567	1.87995
%RSD	0.16415	0.59061	6.34722	0.73119	2.01705	1.61655	0.39903	0.02173	2.81207

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	23.62348	0.54057	0.72333	2.71490	2.01183	0.04988	0.65046	0.73523	0.11913
#2	23.75684	0.54894	0.72344	2.73584	2.00813	0.05136	0.65352	0.74746	0.12005
Mean	23.69016	0.54475	0.72338	2.72537	2.00998	0.05062	0.65199	0.74134	0.11959
%RSD	0.39806	1.08730	0.01043	0.54333	0.13003	2.06722	0.33228	1.16727	0.54499

	Pb calc	Se calc
#1	0.59381	1.86035
#2	0.60724	1.91002
Mean	0.60052	1.88518
%RSD	1.58152	1.86317

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 11:33:41
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:39
[CV]
Position : STD1

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19878	51.58453	0.50450	1.01458	1.01472	0.49828	0.49323	50.35427	0.48568
#2	0.19955	51.41006	0.50055	1.00678	1.01440	0.49793	0.48465	50.21510	0.48202
Mean	0.19917	51.49729	0.50253	1.01068	1.01456	0.49811	0.48894	50.28468	0.48385
%RSD	0.27164	0.23956	0.55468	0.54570	0.02216	0.05071	1.24015	0.19570	0.53429
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47617	0.99212	0.99844	19.73556	53.07239	0.51882	51.57591	0.99280	0.99464
#2	0.47453	0.99127	0.99676	19.70950	52.96149	0.51777	51.49003	0.99043	0.98692
Mean	0.47535	0.99169	0.99760	19.72253	53.01694	0.51830	51.53297	0.99161	0.99078
%RSD	0.24410	0.06069	0.11934	0.09342	0.14790	0.14322	0.11784	0.16899	0.55104
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.74312	0.99525	5.05306	1.01685	1.02232	5.12213	0.51365	1.00879	0.98867
#2	52.53239	0.99016	5.05306	1.01930	1.02985	5.13232	0.51078	1.00323	1.02164
Mean	52.63776	0.99271	5.05306	1.01808	1.02609	5.12722	0.51222	1.00601	1.00516
%RSD	0.28309	0.36267	0.00000	0.17020	0.51867	0.14052	0.39633	0.39115	2.31920
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.94030	1.03996	0.50549	0.49678	0.51834	4.87155	0.49718	1.02072	0.99495
#2	4.92436	1.05213	0.50490	0.49711	0.50555	4.87733	0.49482	1.00854	0.99324
Mean	4.93233	1.04605	0.50520	0.49694	0.51195	4.87444	0.49600	1.01463	0.99410
%RSD	0.22850	0.82307	0.08189	0.04699	1.76620	0.08378	0.33621	0.84819	0.12177

Printed : 6/20/2017 17:51:39

[CB]

Position : STD2

File : 170620A

Method : Paragon2

SampleId1 : CCB

SampleId2 :

Analysis commenced : 6/20/2017 11:34:49

Dilution ratio : 1.00000 to 1.00000

Tray :

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00040	-0.00893	-0.00377	-0.00442	0.00015	-0.00004	-0.00493	0.03816	-0.00014
#2	-0.00087	-0.00400	-0.00110	-0.00292	-0.00003	-0.00006	-0.00367	0.03816	-0.00064
Mean	-0.00064	-0.00646	-0.00244	-0.00367	0.00006	-0.00005	-0.00430	0.03816	-0.00039
%RSD	52.58604	53.93231	77.48054	28.82533	222.97685	23.89379	20.74834	0.00000	89.12785

Final concentrations

ted: 6/20/2017 17:52:06 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00118	-0.00067	0.00100	0.01596	0.15273	0.00345	0.02860	0.00032	0.00032
#2	-0.00032	-0.00055	0.00067	0.01565	0.14978	0.00346	0.02860	0.00032	0.00157
Mean	-0.00075	-0.00061	0.00083	0.01581	0.15125	0.00345	0.02860	0.00032	0.00095
%RSD	81.33328	14.53384	28.30492	1.34694	1.37750	0.23768	0.00000	0.00000	93.05811

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.08605	-0.00045	-0.03477	-0.00338	0.00233	0.00587	-0.00211	-0.00489	0.00669
#2	0.08471	0.00056	0.07011	-0.00744	0.00239	0.00587	-0.00471	0.00232	0.00360
Mean	0.08538	0.00006	0.01767	-0.00541	0.00236	0.00587	-0.00341	-0.00129	0.00514
%RSD	1.11404	1237.04602	419.75960	53.11804	1.94681	0.00000	54.04645	396.06680	42.43739

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.00890	-0.00582	-0.00116	-0.00077	-0.00636	-0.02644	-0.00070	0.00188	0.00019
#2	0.00838	-0.00287	-0.00119	-0.00119	0.00237	-0.03220	-0.00070	0.00343	0.00015
Mean	0.00864	-0.00435	-0.00117	-0.00098	-0.00200	-0.02932	-0.00070	0.00266	0.00017
%RSD	4.23204	47.86923	2.11878	30.06401	309.30204	13.88241	0.01030	41.41294	17.10445

	Pb	Se
	calc	calc
#1	0.00043	0.00283
#2	-0.00088	0.00317
Mean	-0.00023	0.00300
%RSD	409.64308	8.05089

Method : Paragon2 File : 170620A
SampleId1 : 1705328-1MSD SampleId2 :
Analysis commenced : 6/20/2017 11:35:57
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:39

[SAMPLE]

Position : TUBE41

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00119	79.25069	1.00335	0.10350	2.03178	0.05771	0.00311	61.46877	0.48895
#2	-0.00053	78.49587	1.00093	0.10521	2.01405	0.05797	0.00284	62.03160	0.48966
Mean	-0.00086	78.87328	1.00214	0.10435	2.02292	0.05784	0.00297	61.75019	0.48930
%RSD	54.27937	0.67670	0.17039	1.15841	0.61951	0.32725	6.25723	0.64451	0.10230

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.52761	0.36917	0.34265	89.07416	55.46357	0.61907	53.42895	3.11742	0.97889
#2	0.53044	0.37316	0.33810	89.46886	54.77358	0.61073	53.48903	3.12593	0.98294
Mean	0.52902	0.37117	0.34037	89.27151	55.11858	0.61490	53.45899	3.12168	0.98092
%RSD	0.37786	0.76007	0.94567	0.31264	0.88517	0.95910	0.07947	0.19260	0.29234

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	43.06089	0.65272	1.12155	0.60925	0.59041	1.20064	0.28184	1.90707	1.83150
#2	42.64451	0.65309	1.01619	0.62255	0.60517	1.16490	0.27443	1.89409	1.91963
Mean	42.85270	0.65290	1.06887	0.61590	0.59779	1.18277	0.27813	1.90058	1.87557
%RSD	0.68707	0.04101	6.96986	1.52622	1.74655	2.13612	1.88399	0.48317	3.32290
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.48299	0.53047	0.71821	2.72959	1.99006	0.06445	0.65276	0.73955	0.11252
#2	27.35603	0.53887	0.71097	2.72784	1.98513	0.07440	0.65149	0.75154	0.11327
Mean	27.41951	0.53467	0.71459	2.72872	1.98760	0.06942	0.65213	0.74555	0.11289
%RSD	0.32740	1.11130	0.71642	0.04530	0.17531	10.13795	0.13813	1.13691	0.46612

	Pb	Se
	calc	calc
#1	0.59668	1.85666
#2	0.61096	1.91113
Mean	0.60382	1.88389
%RSD	1.67171	2.04426

Method : Paragon2 File : 170620A
SampleId1 : 1705328-2 SampleId2 :
Analysis commenced : 6/20/2017 11:36:59
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE42

Printed : 6/20/2017 17:51:39

[SAMPLE]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00158	37.59305	0.02689	0.01289	0.82531	0.00480	0.00391	64.90500	0.00095
#2	-0.00338	37.91155	0.02676	0.01246	0.82937	0.00478	0.00519	65.01886	0.00074
Mean	-0.00248	37.75230	0.02682	0.01268	0.82734	0.00479	0.00455	64.96193	0.00084
%RSD	51.43985	0.59655	0.33538	2.38370	0.34734	0.21481	19.94527	0.12393	17.79375
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02311	0.04175	0.05291	72.11701	9.08933	0.05955	13.54219	1.87998	0.00351
#2	0.02353	0.04059	0.05275	72.37430	9.12956	0.05983	13.59133	1.88701	0.00172
Mean	0.02332	0.04117	0.05283	72.24566	9.10945	0.05969	13.56676	1.88349	0.00262
%RSD	1.26964	1.99071	0.21337	0.25182	0.31227	0.32978	0.25612	0.26415	48.32034
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.94303	0.04965	3.34499	0.06476	0.06933	1.01177	0.00275	-0.00620	0.00720
#2	0.95059	0.04944	3.45139	0.06345	0.07062	1.03218	-0.00008	-0.01078	0.00544
Mean	0.94681	0.04954	3.39819	0.06410	0.06997	1.02198	0.00134	-0.00849	0.00632
%RSD	0.56465	0.30017	2.21400	1.43672	1.29959	1.41280	149.68669	38.17467	19.67807
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	26.43957	0.01666	0.26795	1.26406	-0.01407	-0.00550	0.11547
#2	26.61261	0.01161	0.26950	1.27280	-0.01093	-0.02304	0.11421
Mean	26.52609	0.01414	0.26872	1.26843	-0.01250	-0.01427	0.11484
%RSD	0.46126	25.27124	0.40893	0.48764	17.76426	86.88055	0.77483

	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.25000	0.25057	0.25028	0.16091	0.07808	0.07837	0.07823
							0.26863

	Pb	Se
	calc	calc
#1	0.06781	0.00274
#2	0.06823	0.00004
Mean	0.06802	0.00139
%RSD	0.44082	137.41958

Method : Paragon2
File : 170620A
SampleId1 : 1705328-3
SampleId2 :
Analysis commenced : 6/20/2017 11:38:01
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:40
[SAMPLE]
Position : TUBE43

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00158	52.12742	0.01849	0.01172	1.02279	0.00539	0.00352	20.93679	0.00049
#2	-0.00177	51.87987	0.01989	0.01236	1.01720	0.00536	0.00553	20.90805	0.00107
Mean	-0.00167	52.00365	0.01919	0.01204	1.01999	0.00537	0.00452	20.92242	0.00078
%RSD	8.03579	0.33660	5.15670	3.76598	0.38787	0.40077	31.37112	0.09716	52.54167

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03129	0.04936	0.05643	75.41426	10.97681	0.05112	12.19910	2.31622	0.00421
#2	0.03087	0.05049	0.05643	75.24821	10.93749	0.05096	12.16976	2.31206	0.00281
Mean	0.03108	0.04993	0.05643	75.33123	10.95715	0.05104	12.18443	2.31414	0.00351
%RSD	0.97179	1.60329	0.00139	0.15586	0.25379	0.20892	0.17029	0.12714	28.18564

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.59808	0.05259	1.96611	0.08398	0.08319	1.00666	0.00352	-0.00307	0.00673
#2	0.59509	0.05099	1.96611	0.08663	0.08686	0.98114	0.00290	-0.00204	0.00551
Mean	0.59659	0.05179	1.96611	0.08530	0.08502	0.99390	0.00321	-0.00255	0.00612
%RSD	0.35489	2.18215	0.00000	2.19390	3.05373	1.81592	13.68047	28.48576	14.04925

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.26848	0.02195	0.17164	2.14164	-0.01213	0.03138	0.12397	0.36020	0.12036
#2	27.16572	0.01439	0.17038	2.13585	-0.01847	0.02925	0.12290	0.35807	0.12048
Mean	27.21710	0.01817	0.17101	2.13874	-0.01530	0.03031	0.12344	0.35913	0.12042
%RSD	0.26697	29.41227	0.51762	0.19133	29.31284	4.97026	0.61387	0.41801	0.07173

	Pb	Se
	calc	calc

#1 0.08345 0.00347ser: STEVE WORKMAN
#2 0.08678 0.00300
Mean 0.08512 0.00323
%RSD 2.76678 10.25293

Method : Paragon2 File : 170620A
SampleId1 : 1705328-4 SampleId2 :
Analysis commenced : 6/20/2017 11:39:03
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:40
[SAMPLE]
Position : TUBE44

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00237	53.30813	0.03083	0.00787	1.08505	0.00580	0.00145	15.16612	0.00134
#2	-0.00104	52.73430	0.02841	0.00926	1.07926	0.00574	0.01054	15.16831	0.00134
Mean	-0.00171	53.02121	0.02962	0.00856	1.08216	0.00577	0.00600	15.16721	0.00134
%RSD	55.02540	0.76528	5.77011	11.46799	0.37820	0.80587	107.15793	0.01024	0.28368
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03589	0.05237	0.06282	82.74744	11.91623	0.04744	11.40053	2.63057	0.00421
#2	0.03633	0.05281	0.06332	82.67203	11.81158	0.04693	11.35079	2.62627	0.00375
Mean	0.03611	0.05259	0.06307	82.70974	11.86390	0.04719	11.37566	2.62842	0.00398
%RSD	0.85930	0.58464	0.55878	0.06448	0.62376	0.76482	0.30921	0.11562	8.29331

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.59915	0.04906	1.12155	0.11259	0.11086	0.86883	0.00753	-0.00186	0.00251
#2	0.59364	0.05053	1.01619	0.11131	0.11017	0.87393	0.01034	-0.00641	0.00538
Mean	0.59639	0.04979	1.06887	0.11195	0.11052	0.87138	0.00894	-0.00414	0.00394
%RSD	0.65275	2.09051	6.96986	0.80772	0.44004	0.41427	22.23228	77.73559	51.58228

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.38746	0.01430	0.16404	2.21203	-0.01164	0.05718	0.13649	0.21044	0.12336
#2	22.21647	0.01809	0.16291	2.20468	-0.00998	0.07107	0.13596	0.21480	0.12319
Mean	22.30197	0.01620	0.16347	2.20836	-0.01081	0.06413	0.13623	0.21262	0.12328
%RSD	0.54216	16.54866	0.48804	0.23520	10.86129	15.32069	0.27724	1.45081	0.09977

	Pb	Se
	calc	calc
#1	0.11144	0.00105
#2	0.11055	0.00145
Mean	0.11099	0.00125
%RSD	0.56353	22.79982

Method : Paragon2 File : 170620A
SampleId1 : 1705328-5 SampleId2 :
Analysis commenced : 6/20/2017 11:40:05

Printed : 6/20/2017 17:51:40
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE45

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00094	34.43498	0.01518	-0.05934	1.22237	0.00422	0.00190	61.94156	0.00096
#2	0.00150	34.03353	0.01213	-0.06564	1.20582	0.00417	0.00543	62.07278	0.00070
Mean	0.00122	34.23426	0.01366	-0.06249	1.21409	0.00420	0.00366	62.00717	0.00083
%RSD	32.37312	0.82921	15.81075	7.13342	0.96395	0.74626	68.13711	0.14964	22.07560

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.02276	0.04036	0.06351	63.48253	6.95560	0.05298	12.26672	1.79005	0.01191
#2	0.02352	0.04079	0.06333	63.36877	6.88328	0.05221	12.23865	1.78327	0.01230
Mean	0.02314	0.04057	0.06342	63.42565	6.91944	0.05259	12.25269	1.78666	0.01211
%RSD	2.34260	0.74968	0.20004	0.12683	0.73899	1.02931	0.16199	0.26831	2.27139

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.73292	0.04982	2.07189	0.05323	0.05887	0.53696	0.00343	0.00753	0.02927
#2	0.72102	0.04847	2.17772	0.05701	0.06233	0.53186	-0.00079	0.01050	0.02637
Mean	0.72697	0.04914	2.12480	0.05512	0.06060	0.53441	0.00132	0.00902	0.02782
%RSD	1.15709	1.93668	3.52191	4.84540	4.04097	0.67560	225.69488	23.25332	7.37705

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	18.01970	0.00501	0.35012	1.16487	-0.01365	0.03222	0.10435	0.18323	0.06261
#2	17.88495	0.00754	0.34492	1.15866	-0.01753	0.05306	0.10444	0.18325	0.06276
Mean	17.95232	0.00628	0.34752	1.16177	-0.01559	0.04264	0.10440	0.18324	0.06268
%RSD	0.53076	28.47989	1.05779	0.37826	17.57166	34.56494	0.05933	0.00730	0.16781

	Pb	Se
	calc	calc
#1	0.05699	0.02203
#2	0.06056	0.02109
Mean	0.05877	0.02156
%RSD	4.29218	3.11147

Method : Paragon2 File : 170620A
SampleId1 : 1705328-6 SampleId2 :
Analysis commenced : 6/20/2017 11:41:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:40
[SAMPLE]

Position : TUBE46

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00191	42.26372	0.02269	0.01011	0.72381	0.00462	0.00525	66.19640	0.00027
#2	-0.00180	42.23100	0.01404	0.00840	0.72641	0.00461	-0.00914	66.46115	0.00133

Mean	-0.00185	42.24736	0.01836	0.00926	0.72511	0.00461	-0.00194	66.32877	0.00080
%RSD	4.38809	0.05476	33.31339	13.05574	0.25372	0.20549	523.73323	0.28223	93.62862
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02652	0.05294	0.05103	81.73926	10.37170	0.05508	11.88781	2.41536	0.00375
#2	0.02520	0.05272	0.05138	82.16026	10.38463	0.05525	11.93438	2.42596	0.00421
Mean	0.02586	0.05283	0.05120	81.94976	10.37817	0.05516	11.91110	2.42066	0.00398
%RSD	3.60352	0.30000	0.48490	0.36326	0.08812	0.20817	0.27643	0.30964	8.29331
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.96387	0.04872	1.64904	0.07390	0.06469	1.17511	0.00551	-0.01262	0.00158
#2	0.96367	0.04708	1.75468	0.06489	0.06955	1.14959	0.00250	-0.00941	0.00641
Mean	0.96377	0.04790	1.70186	0.06940	0.06712	1.16235	0.00401	-0.01102	0.00400
%RSD	0.01423	2.42147	4.38929	9.17650	5.11963	1.55262	53.14977	20.61904	85.55626
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.73427	0.01535	0.22655	2.03597	-0.01721	0.04556	0.11330	0.26756	0.10537
#2	23.80103	0.01449	0.22798	2.04893	-0.01429	0.01864	0.11317	0.26879	0.10519
Mean	23.76765	0.01492	0.22726	2.04245	-0.01575	0.03210	0.11324	0.26817	0.10528
%RSD	0.19860	4.05493	0.44477	0.44878	13.11139	59.29341	0.07935	0.32468	0.11917
	Pb	Se							
	calc	calc							
#1	0.06776	-0.00315							
#2	0.06800	0.00114							
Mean	0.06788	-0.00100							
%RSD	0.25242	302.46775							

Method : Paragon2
SampleId1 : 1705328-7
SampleId2 :
Analysis commenced : 6/20/2017 11:42:09
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:41
[SAMPLE]
Position : TUBE47

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00190	55.00438	0.03452	0.01279	0.91385	0.00673	0.00496	46.14277	0.00049
#2	-0.00141	54.83803	0.02460	0.01214	0.91150	0.00671	0.01103	46.22834	0.00059
Mean	-0.00166	54.92120	0.02956	0.01246	0.91268	0.00672	0.00800	46.18556	0.00054
%RSD	20.91376	0.21419	23.73880	3.63685	0.18213	0.23778	53.68624	0.13101	12.97680
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03187	0.04883	0.05929	78.22083	12.67913	0.05820	12.65907	2.28079	0.00305
#2	0.03255	0.04904	0.05795	78.27423	12.60829	0.05805	12.63163	2.28142	0.00258
Mean	0.03221	0.04894	0.05862	78.24753	12.64371	0.05812	12.64535	2.28111	0.00281

%RSD	1.49598	0.30409	1.61846	0.04825	0.39615	0.18346	0.15341	0.01954	11.73376
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.64320	0.05617	1.64904	0.10072	0.09071	1.04239	0.01035	0.00003	0.00092
#2	0.64001	0.05440	1.75468	0.09787	0.09598	1.05771	0.00271	-0.00617	0.00640
Mean	0.64161	0.05528	1.70186	0.09930	0.09334	1.05005	0.00653	-0.00307	0.00366
%RSD	0.35144	2.25955	4.38929	2.02998	3.99098	1.03126	82.82988	142.73183	105.83352
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	30.33269	0.02011	0.22092	1.55103	-0.01875	0.03538	0.10905	0.32696	0.12915
#2	30.30523	0.02263	0.22006	1.55374	-0.01489	0.02266	0.10809	0.32883	0.12831
Mean	30.31896	0.02137	0.22049	1.55238	-0.01682	0.02902	0.10857	0.32790	0.12873
%RSD	0.06406	8.33158	0.27730	0.12326	16.23929	30.99035	0.62654	0.40359	0.46082
	Pb	Se							
	calc	calc							
#1	0.09404	0.00062							
#2	0.09661	0.00222							
Mean	0.09533	0.00142							
%RSD	1.90248	79.29550							

Method : Paragon2 File : 170620A
SampleId1 : 1705328-8 SampleId2 :
Analysis commenced : 6/20/2017 11:43:10
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:41

[SAMPLE]

Position : TUBE48

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00162	57.37684	0.02574	0.02187	1.05751	0.00662	0.00763	31.96236	0.00148
#2	-0.00285	57.13030	0.02218	0.01952	1.05503	0.00653	0.00559	31.78334	0.00082
Mean	-0.00223	57.25357	0.02396	0.02069	1.05627	0.00657	0.00661	31.87285	0.00115
%RSD	38.74772	0.30449	10.51252	8.03294	0.16603	0.96723	21.78629	0.39716	40.60556
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03392	0.05287	0.05929	80.83226	12.55292	0.05527	13.43689	2.66357	0.00367
#2	0.03306	0.05240	0.05829	80.42728	12.48759	0.05505	13.35648	2.65118	0.00382
Mean	0.03349	0.05263	0.05879	80.62977	12.52026	0.05516	13.39669	2.65737	0.00375
%RSD	1.81746	0.63362	1.20432	0.35515	0.36901	0.28997	0.42441	0.32970	2.93665
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.71600	0.05545	1.75468	0.10470	0.09724	1.13938	0.00290	-0.00615	0.00982
#2	1.70858	0.05322	1.54345	0.09379	0.10256	1.13938	0.00210	-0.01000	0.00977
Mean	1.71229	0.05434	1.64906	0.09924	0.09990	1.13938	0.00250	-0.00808	0.00980
%RSD	0.30656	2.90099	9.05760	7.77466	3.76722	0.00000	22.67801	33.67469	0.37788

ted: 6/20/2017 17:52:06 User: STEVE WORKMAN

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	28.75942	0.02036	1.69649	-0.00568	0.03613	0.12117	0.24366	0.13115
#2	28.65996	0.01785	1.69379	-0.01853	0.01698	0.12032	0.24271	0.13018
Mean	28.70969	0.01910	1.69514	-0.01211	0.02656	0.12075	0.24319	0.13066
%RSD	0.24496	9.32030	0.11285	75.01354	50.99732	0.49502	0.27669	0.52468
	Pb	Se						
	calc	calc						
#1	0.09972	0.00450						
#2	0.09964	0.00319						
Mean	0.09968	0.00384						
%RSD	0.05928	24.20140						

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:41

SampleId1 : 1705328-9 SampleId2 :

Analysis commenced : 6/20/2017 11:44:13 [SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE49

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00186	76.14035	0.02193	0.00744	1.08912	0.00757	0.00752	15.82446	0.00046
#2	-0.00119	76.08384	0.02205	0.00744	1.09135	0.00751	0.00858	15.95898	0.00070
Mean	-0.00152	76.11209	0.02199	0.00744	1.09023	0.00754	0.00805	15.89172	0.00058
%RSD	31.22525	0.05250	0.40912	0.00000	0.14439	0.58144	9.34855	0.59852	28.57073
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03889	0.05635	0.05019	93.31638	13.16766	0.06016	13.13250	2.80399	0.00305
#2	0.03945	0.05773	0.04952	94.19368	13.13421	0.06012	13.15739	2.82374	0.00367
Mean	0.03917	0.05704	0.04986	93.75503	13.15093	0.06014	13.14495	2.81387	0.00336
%RSD	1.01876	1.70656	0.95209	0.66167	0.17982	0.05456	0.13387	0.49627	13.10747
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.55743	0.05793	0.91088	0.09564	0.08599	0.46548	0.00831	0.00753	0.00527
#2	0.55685	0.05814	0.91088	0.09782	0.09026	0.48590	0.00609	0.00340	0.00459
Mean	0.55714	0.05804	0.91088	0.09673	0.08812	0.47569	0.00720	0.00546	0.00493
%RSD	0.07352	0.25623	0.00000	1.59931	3.43111	3.03608	21.74049	53.41319	9.78150
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	20.47758	0.01680	0.16009	2.59425	-0.01683	0.02667	0.14677	0.20783	0.16880
#2	20.53397	0.01551	0.16034	2.61459	-0.01275	0.02115	0.14773	0.21099	0.16889
Mean	20.50577	0.01616	0.16021	2.60442	-0.01479	0.02391	0.14725	0.20941	0.16885
%RSD	0.19448	5.62113	0.10893	0.55225	19.49305	16.30462	0.46187	1.06803	0.03848

Seser: STEVE WORKMAN

Pb		calc
#1	0.08920	0.00602
#2	0.09278	0.00419
Mean	0.09099	0.00511
%RSD	2.78264	25.31935

Method : Paragon2

File : 170620A

SampleId1 : 1705577-2

SampleId2 :

Analysis commenced : 6/20/2017 11:45:15

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:41

[SAMPLE]

Position : TUBE50

Final concentrations

Ag		Al	As	B	Ba	Be	Bi	Ca	Cd
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00004	15.75145	0.00819	0.01279	1.86940	0.00152	0.00465	27.42325	0.00057
#2	-0.00213	15.83740	0.00310	0.01075	1.88564	0.00151	-0.00572	27.35941	0.00011
Mean	-0.00109	15.79442	0.00564	0.01177	1.87752	0.00152	-0.00054	27.39133	0.00034
%RSD	135.69551	0.38479	63.79677	12.19626	0.61151	0.46093	1368.09957	0.16480	95.30914

Co		Cr	Cu	Fe	K	Li	Mg	Mn	Mo
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01415	0.04219	0.01986	28.13288	6.17930	0.02859	9.60512	0.59967	0.00118
#2	0.01243	0.04051	0.01785	28.20870	6.21691	0.02877	9.58919	0.60116	0.00289
Mean	0.01329	0.04135	0.01886	28.17079	6.19810	0.02868	9.59716	0.60042	0.00203
%RSD	9.10393	2.87486	7.54153	0.19032	0.42906	0.45758	0.11741	0.17570	59.47156

Na		Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	115.23353	0.03543	0.49012	0.02473	0.02192	4.94381	0.00413	-0.00206	-0.00011
#2	115.34547	0.03265	0.59523	0.01965	0.02891	5.01004	0.00094	0.00130	0.00368
Mean	115.28950	0.03404	0.54268	0.02219	0.02541	4.97693	0.00254	-0.00038	0.00178
%RSD	0.06865	5.76613	13.69714	16.18533	19.43435	0.94104	89.07990	627.92044	150.41457

Si		Sn	Sr	Ti	Tl	U	V	Zn	Zr
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.22590	0.01426	0.11970	0.43802	-0.00808	0.00663	0.02458	0.11291	0.02549
#2	8.26695	0.00922	0.12074	0.44178	-0.00524	-0.01532	0.02357	0.11221	0.02465
Mean	8.24643	0.01174	0.12022	0.43990	-0.00666	-0.00435	0.02408	0.11256	0.02507
%RSD	0.35198	30.39825	0.61136	0.60357	30.09404	357.09213	2.98588	0.43611	2.34650

Pb		Se
calc		calc
#1	0.02286	-0.00076
#2	0.02582	0.00289
Mean	0.02434	0.00106
%RSD	8.61928	242.76642

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:42

SampleId1 : CCV
Analysis commenced : 6/20/2017 11:46:38
Dilution ratio : 1.00000 to 1.00000 Tray :

[CV]
Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19928	51.14808	0.50310	1.00593	1.00823	0.49971	0.49347	50.56002	0.48504
#2	0.19853	51.08008	0.49699	1.00390	1.01205	0.50053	0.49321	50.55469	0.48328
Mean	0.19890	51.11408	0.50005	1.00491	1.01014	0.50012	0.49334	50.55735	0.48416
%RSD	0.26949	0.09407	0.86313	0.14285	0.26702	0.11527	0.03599	0.00745	0.25720

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47555	0.99499	0.98769	19.73791	52.40829	0.51187	51.61917	0.99492	0.99020
#2	0.47728	0.99387	0.98971	19.76599	52.39940	0.51164	51.56041	0.99566	0.99402
Mean	0.47642	0.99443	0.98870	19.75195	52.40384	0.51175	51.58979	0.99529	0.99211
%RSD	0.25669	0.07939	0.14497	0.10052	0.01199	0.03125	0.08054	0.05317	0.27238

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.00977	0.99437	5.05306	1.02632	1.01305	5.09156	0.51039	1.02344	0.98248
#2	51.89502	0.99424	4.94595	1.02321	1.02926	5.08647	0.50583	0.99323	1.01346
Mean	51.95239	0.99431	4.99951	1.02477	1.02116	5.08901	0.50811	1.00834	0.99797
%RSD	0.15617	0.00898	1.51492	0.21486	1.12201	0.07079	0.63592	2.11907	2.19479

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.92207	1.04500	0.50127	0.49885	0.50504	4.86580	0.49609	1.02240	0.98997
#2	4.91450	1.05213	0.50295	0.49980	0.50491	4.84623	0.49747	1.02328	0.99234
Mean	4.91828	1.04856	0.50211	0.49933	0.50498	4.85601	0.49678	1.02284	0.99116
%RSD	0.10891	0.48127	0.23717	0.13538	0.01847	0.28501	0.19662	0.06113	0.16904

	Pb	Se
	calc	calc
#1	1.01747	0.99612
#2	1.02724	1.00672
Mean	1.02236	1.00142
%RSD	0.67578	0.74836

Method : Paragon2
SampleId1 : CCB
Analysis commenced : 6/20/2017 11:47:47
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:42
[CB]

Position : STD2

Final concentrations

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00003	0.00744	0.00246	-0.00281	0.00034	-0.00005	-0.00341	0.04860	0.00035
#2	-0.00031	0.00719	-0.00250	-0.00228	0.00034	-0.00009	0.00089	0.04572	-0.00004
Mean	-0.00017	0.00732	-0.00002	-0.00255	0.00034	-0.00007	-0.00126	0.04716	0.00016
%RSD	114.72591	2.42240	16696.64726	14.82837	0.00000	41.78712	241.41374	4.31833	173.67852

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00003	-0.00008	0.00099	0.02333	0.17237	0.00352	0.03686	0.00069	0.00071
#2	-0.00067	-0.00007	0.00066	0.02047	0.17188	0.00353	0.03432	0.00057	-0.00201
Mean	-0.00032	-0.00007	0.00083	0.02190	0.17213	0.00352	0.03559	0.00063	-0.00065
%RSD	152.63155	6.73997	28.36668	9.23433	0.20175	0.11640	5.05079	13.86278	296.66625

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09528	0.00052	0.07011	0.00082	0.00360	-0.01456	-0.00110	-0.00399	0.00131
#2	0.09297	-0.00091	0.07011	-0.00210	0.00176	-0.00945	-0.00273	0.00630	-0.00168
Mean	0.09413	-0.00019	0.07011	-0.00064	0.00268	-0.01200	-0.00192	0.00116	-0.00018
%RSD	1.73253	519.46671	0.00000	320.65934	48.51898	30.08781	60.30374	629.19158	1152.12801

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00907	-0.00161	-0.00107	-0.00055	-0.00057	-0.00918	-0.00058	0.00097	0.00087
#2	0.00871	-0.00666	-0.00107	-0.00044	0.00097	-0.01954	-0.00041	0.00159	0.00089
Mean	0.00889	-0.00414	-0.00107	-0.00049	0.00020	-0.01436	-0.00049	0.00128	0.00088
%RSD	2.89163	86.20653	0.00000	14.91359	548.16379	51.01177	24.53493	34.14748	1.65948

	Pb	Se
	calc	calc
#1	0.00267	-0.00045
#2	0.00047	0.00098
Mean	0.00157	0.00026
%RSD	98.89350	386.07095

Method : Paragon2
File : 170620A
SampleId1 : 1705577-2D
SampleId2 :
Analysis commenced : 6/20/2017 11:48:51
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:42
[SAMPLE]
Position : TUBE51

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00073	14.84370	0.00386	0.01097	2.00599	0.00128	0.00113	27.71022	0.00077
#2	-0.00005	14.85806	0.00106	0.01182	2.00183	0.00123	0.00266	27.81010	0.00006
Mean	0.00034	14.85088	0.00246	0.01140	2.00391	0.00125	0.00189	27.76016	0.00041
%RSD	160.35063	0.06836	80.45746	5.30378	0.14673	3.03038	57.05086	0.25442	122.41433

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01468	0.05625	0.02948	26.95590	5.72269	0.02684	9.50187	0.60452	0.00460

#2	0.01449	0.05741	0.02930	27.00606	5.73060	0.02677	9.50824	0.60676	0.00429
Mean	0.01458	0.05683	0.02939	26.98098	5.72664	0.02680	9.50505	0.60564	0.00445
%RSD	0.88823	1.44168	0.42861	0.13144	0.09771	0.18362	0.04742	0.26129	4.94849
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	111.68413	0.03985	0.70040	0.02123	0.02640	5.28515	0.00651	0.00353	0.00302
#2	111.49312	0.04086	0.70040	0.02072	0.02649	5.34628	0.00127	0.00045	0.00342
Mean	111.58863	0.04035	0.70040	0.02098	0.02644	5.31571	0.00389	0.00199	0.00322
%RSD	0.12104	1.76894	0.00000	1.72460	0.24284	0.81316	95.18013	109.28174	8.87848
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.62271	0.01468	0.11942	0.44067	-0.00542	-0.00136	0.02271	0.11322	0.02422
#2	7.63400	0.00753	0.11903	0.44294	-0.00874	0.01701	0.02301	0.11420	0.02411
Mean	7.62835	0.01111	0.11922	0.44181	-0.00708	0.00782	0.02286	0.11371	0.02417
%RSD	0.10473	45.49409	0.22987	0.36448	33.15440	166.06227	0.93025	0.61028	0.30779
	Pb	Se							
	calc	calc							
#1	0.02468	0.00319							
#2	0.02457	0.00243							
Mean	0.02462	0.00281							
%RSD	0.31527	18.95958							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:42

SampleId1 : 1705577-2L 5X

SampleId2 :

[SAMPLE]

Analysis commenced : 6/20/2017 11:50:10

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE52

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00165	3.16405	0.00348	-0.00046	0.38049	0.00002	0.00114	5.67870	-0.00039
#2	0.00022	3.12813	0.00042	-0.00025	0.37650	0.00000	0.00570	5.67544	-0.00001
Mean	-0.00072	3.14609	0.00195	-0.00036	0.37850	0.00001	0.00342	5.67707	-0.00020
%RSD	185.17092	0.80734	110.66653	42.30314	0.74523	149.69984	94.44140	0.04062	133.72898
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00235	0.00733	0.00303	5.60469	1.15637	0.00733	2.01575	0.12359	0.00079
#2	0.00347	0.00863	0.00520	5.58320	1.17653	0.00738	2.00557	0.12347	0.00102
Mean	0.00291	0.00798	0.00411	5.59394	1.16645	0.00735	2.01066	0.12353	0.00091
%RSD	27.15269	11.52312	37.24724	0.27162	1.22200	0.44612	0.35780	0.07088	18.19677
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.20759	0.00666	0.17504	-0.00231	0.00391	1.05260	-0.00073	-0.00240	0.00094
#2	22.95810	0.00809	0.17504	0.00616	0.00032	1.04750	0.00268	-0.00353	0.00213

Mean	23.08285	0.00738	0.17504	0.00193	0.00212	1.05005	0.00098	-0.00296	0.00154
%RSD	0.76426	13.70897	0.00000	310.63563	120.06918	0.34375	247.36347	26.98450	54.81658
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.73811	0.00038	0.02313	0.09054	-0.00868	-0.03683	0.00412	0.02424	0.00506
#2	1.73528	0.00290	0.02292	0.09013	-0.00776	0.01040	0.00498	0.02554	0.00572
Mean	1.73670	0.00164	0.02302	0.09034	-0.00822	-0.01322	0.00455	0.02489	0.00539
%RSD	0.11526	108.65707	0.64822	0.32680	7.93282	252.63850	13.32555	3.68566	8.65736
	Pb	Se							
	calc	calc							
#1	0.00184	-0.00017							
#2	0.00227	0.00025							
Mean	0.00205	0.00004							
%RSD	14.63709	779.85446							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:42
SampleId1 : 1705577-2MS SampleId2 : [SAMPLE]
Analysis commenced : 6/20/2017 11:53:02
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE53

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00020	16.14302	0.93891	0.10670	2.16300	0.04988	-0.00073	65.41959	0.46212
#2	-0.00095	16.23360	0.93624	0.10702	2.17735	0.05013	-0.00703	65.77875	0.46359
Mean	-0.00057	16.18831	0.93757	0.10686	2.17018	0.05001	-0.00388	65.59917	0.46285
%RSD	92.88725	0.39563	0.20131	0.21210	0.46742	0.34681	114.94182	0.38716	0.22462
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47647	0.32021	0.30092	21.46748	48.10890	0.57907	45.81872	0.96461	0.96743
#2	0.47630	0.32066	0.30126	21.57231	48.38724	0.58289	46.07462	0.97047	0.97023
Mean	0.47639	0.32044	0.30109	21.51990	48.24807	0.58098	45.94667	0.96754	0.96883
%RSD	0.02483	0.09972	0.08053	0.34445	0.40793	0.46590	0.39383	0.42834	0.20491
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	151.05606	0.55090	0.38504	0.50184	0.49523	7.98330	0.39795	1.81178	1.77071
#2	152.01973	0.55317	0.49012	0.50476	0.50601	8.00365	0.39757	1.81293	1.82954
Mean	151.53790	0.55204	0.43758	0.50330	0.50062	7.99347	0.39776	1.81236	1.80012
%RSD	0.44967	0.29100	16.97922	0.41025	1.52289	0.18002	0.06721	0.04515	2.31071
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.89625	0.51382	0.61085	0.78970	1.92578	-0.00259	0.51094	0.57178	0.01744
#2	8.95766	0.51507	0.61309	0.79670	1.91132	-0.01421	0.51153	0.57646	0.01712
Mean	8.92695	0.51445	0.61197	0.79320	1.91855	-0.00840	0.51124	0.57412	0.01728

%RSD	0.48641	0.17209	0.25855	0.62410	0.53293	97.81545	0.08293	0.57634	1.31230
<div> <div>Pb</div> <div>Se</div> <div>calc</div> </div>									
#1	0.49743	1.78439							
#2	0.50559	1.82401							
Mean	0.50151	1.80420							
%RSD	1.15106	1.55287							

Method : Paragon2 File : 170620A
SampleId1 : 1705577-2MSD SampleId2 :
Analysis commenced : 6/20/2017 11:54:05
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:43
[SAMPLE]
Position : TUBE54

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00035	21.97627	0.97615	0.10884	2.71334	0.05187	0.00041	65.74206	0.47724
#2	-0.00100	21.96706	0.96980	0.10745	2.71617	0.05194	0.00624	65.71966	0.47829
Mean	-0.00033	21.97167	0.97297	0.10815	2.71476	0.05191	0.00332	65.73086	0.47776
%RSD	291.81696	0.02962	0.46185	0.90820	0.07365	0.09496	124.12445	0.02410	0.15491

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49220	0.23787	0.28846	24.95239	50.67455	0.59699	47.40603	1.10086	0.99121
#2	0.49367	0.23846	0.28913	24.97844	50.64586	0.59623	47.39378	1.10236	0.99106
Mean	0.49294	0.23817	0.28880	24.96541	50.66020	0.59661	47.39990	1.10161	0.99113
%RSD	0.20988	0.17727	0.16334	0.07377	0.04005	0.09005	0.01828	0.09616	0.01113

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	151.40896	0.52495	0.70040	0.52567	0.52298	4.29664	0.36125	1.87471	1.84060
#2	150.82441	0.52389	0.59523	0.52146	0.53657	4.27115	0.35683	1.84449	1.88499
Mean	151.11669	0.52442	0.64782	0.52356	0.52978	4.28390	0.35904	1.85960	1.86279
%RSD	0.27353	0.14181	11.47921	0.56920	1.81405	0.42063	0.87014	1.14915	1.68528

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	11.15027	0.53213	0.63286	0.93774	1.98368	-0.02117	0.53162	0.60295	0.02835
#2	11.16389	0.52625	0.63296	0.94158	1.98294	-0.00853	0.52991	0.59894	0.02785
Mean	11.15708	0.52919	0.63291	0.93966	1.98331	-0.01485	0.53077	0.60094	0.02810
%RSD	0.08632	0.78638	0.01191	0.28882	0.02642	60.19383	0.22819	0.47213	1.25091

	Pb	Se
	calc	calc
#1	0.52388	1.85196
#2	0.53154	1.87151
Mean	0.52771	1.86173
%RSD	1.02666	0.74249

ted: 6/20/2017 17:52:07 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : 1706210-2 SampleId2 :
Analysis commenced : 6/20/2017 11:55:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:43
[SAMPLE]
Position : TUBE55

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00123	120.52640	0.01264	0.06781	1.33547	0.00709	0.00972	0.00039
#2	-0.00161	120.36052	0.00386	0.06514	1.33120	0.00711	0.01047	0.00041
Mean	-0.00142	120.44346	0.00825	0.06648	1.33334	0.00710	0.01010	0.00040
%RSD	18.78177	0.09739	75.25307	2.84135	0.22636	0.15853	5.28753	3.34246

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.12613	0.30112	0.16309	261.03581	30.41933	0.23137	78.25795	6.52989	0.00421
#2	0.12552	0.30100	0.16191	260.51007	30.35562	0.23095	78.20978	6.52220	0.00600
Mean	0.12582	0.30106	0.16250	260.77294	30.38747	0.23116	78.23386	6.52604	0.00511
%RSD	0.34296	0.02726	0.51152	0.14256	0.14824	0.12774	0.04354	0.08330	24.77024

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.84737	0.30464	4.30429	0.07274	0.09074	39.34247	0.01237	0.00255	0.00597
#2	1.82947	0.30262	4.51799	0.07136	0.08895	39.35750	0.00837	0.00475	0.00630
Mean	1.83842	0.30363	4.41114	0.07205	0.08984	39.34999	0.01037	0.00365	0.00614
%RSD	0.68837	0.47024	3.42561	1.35809	1.41158	0.02700	27.32030	42.64353	3.80246

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	21.56945	0.00948	0.51480	2.02288	-0.03254	0.05340	0.19480	0.54920	0.05253
#2	21.55144	0.01242	0.51299	2.02299	-0.03139	0.04589	0.19295	0.54546	0.05272
Mean	21.56045	0.01095	0.51389	2.02293	-0.03197	0.04965	0.19388	0.54733	0.05263
%RSD	0.05908	18.99576	0.24885	0.00363	2.54135	10.70327	0.67455	0.48220	0.25359

	Pb	Se
	calc	calc
#1	0.08475	0.00483
#2	0.08309	0.00578
Mean	0.08392	0.00531
%RSD	1.39629	12.69508

Method : Paragon2 File : 170620A
SampleId1 : 1705328-1A SampleId2 :
Analysis commenced : 6/20/2017 12:07:05
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:43
[SAMPLE]
Position : TUBE56

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00155	45.91487	0.98174	0.11034	1.85853	0.05469	0.00823	58.25636	0.47016
	#2	45.96846	0.97463	0.10841	1.85540	0.05481	0.00370	58.52744	0.46750
	Mean	45.94167	0.97818	0.10938	1.85697	0.05475	0.00597	58.39190	0.46883
%RSD	10.52387	0.08248	0.51451	1.24338	0.11926	0.14663	53.76717	0.32826	0.40068
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.50249	0.24284	0.32091	69.95187	50.57908	0.54788	48.46961	2.76122	0.97561
	#2	0.50367	0.24411	70.21557	50.51858	0.54714	48.65218	2.77007	0.97951
	Mean	0.50308	0.24347	70.08372	50.54883	0.54751	48.56090	2.76564	0.97756
%RSD	0.16650	0.37073	0.26606	0.08464	0.09513	0.26584	0.22648	0.28206	0.28206
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	40.27474	0.54013	1.22695	0.57808	0.56749	1.12917	0.49263	1.89264	1.85386
	#2	40.24891	0.54156	0.58256	0.57472	1.11896	0.48424	1.90006	1.91473
	Mean	40.26183	0.54085	0.58032	0.57111	1.12407	0.48843	1.89635	1.88429
%RSD	0.04537	0.18701	0.54611	0.89536	0.64221	1.21454	0.27634	2.28410	2.28410
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	27.43450	0.51637	0.66660	2.20730	1.92720	0.09345	0.61364	0.68582	0.10293
	#2	27.48157	0.51888	2.21646	1.91944	0.05633	0.61485	0.68619	0.10341
	Mean	27.45803	0.51763	2.21188	1.92332	0.07489	0.61425	0.68601	0.10317
%RSD	0.12122	0.34283	0.29298	0.28534	35.04360	0.13960	0.03782	0.33253	0.33253
#1	Pb	Se							
	calc	calc							
	0.57102	1.86678							
	#2	0.57733	1.90984						
	Mean	0.57417	1.88831						
%RSD	0.77781	1.61267							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:43

SampleId1 : 1705577-2A sampleId2 : [SAMPLE]

Analysis commenced : 6/20/2017 12:08:07

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE57

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00021	17.53048	0.97386	0.11621	2.87555	0.05197	0.00088	26.51060	0.47928
	#2	0.00016	0.97094	0.11450	2.87079	0.05224	0.00721	26.66784	0.47875
	Mean	-0.00003	17.45995	0.11536	2.87317	0.05211	0.00405	26.58922	0.47902
%RSD									
975.18395									
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.50249	0.24284	0.32091	69.95187	50.57908	0.54788	48.46961	2.76122	0.97561
	#2	0.50367	0.24411	70.21557	50.51858	0.54714	48.65218	2.77007	0.97951
	Mean	0.50308	0.24347	70.08372	50.54883	0.54751	48.56090	2.76564	0.97756
%RSD									
0.16650									

#1	ppm	0.49988	ppm	0.24299	ppm	0.28981	ppm	28.33169	ppm	6.05758	ppm	9.33998	ppm	1.07964	ppm	1.00611
#2		0.50099		0.24524		0.28794		28.41336		6.02641		9.35974		1.08313		1.00650
Mean		0.50044		0.24412		0.28888		28.37253		6.04199		9.34986		1.08139		1.00630
%RSD		0.15692		0.64995		0.45672		0.20356		0.36479		0.14942		0.22853		0.02740

	Na	ppm	Ni	ppm	P	ppm	Pb I	ppm	Pb II	ppm	S	ppm	Sb	ppm	Se I	ppm	Se II	ppm
#1		112.48267		0.54261		0.70040		0.53129		0.52078		4.91324		0.50453		1.87092		1.83122
#2		111.65327		0.54501		0.59523		0.53002		0.53277		4.93362		0.49891		1.88744		1.90438
Mean		112.06797		0.54381		0.64782		0.53066		0.52678		4.92343		0.50172		1.87918		1.86780
%RSD		0.52332		0.31181		11.47921		0.16981		1.61022		0.29270		0.79193		0.62192		2.76989

	Si	ppm	Sn	ppm	Sr	ppm	Ti	ppm	Tl	ppm	U	ppm	V	ppm	Zn	ppm	Zr	ppm
#1		9.06566		0.52669		0.63192		0.92515		1.99509		-0.02121		0.53796		0.60815		0.02344
#2		9.04014		0.52458		0.62968		0.92743		1.97474		0.00404		0.54148		0.61353		0.02392
Mean		9.05290		0.52563		0.63080		0.92629		1.98492		-0.00859		0.53972		0.61084		0.02368
%RSD		0.19933		0.28289		0.25091		0.17368		0.72486		207.91273		0.46121		0.62283		1.42907

	Pb	calc	Se	calc
#1		0.52428		1.84444
#2		0.53186		1.89874
Mean		0.52807		1.87159
%RSD		1.01456		2.05172

Method : Paragon2
SampleId1 : 1705577-2MS 2X
SampleId2 :
Analysis commenced : 6/20/2017 12:09:09
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:44
[SAMPLE]
Position : TUBE58

Final concentrations

	Ag	ppm	Al	ppm	As	ppm	B	ppm	Ba	ppm	Be	ppm	Bi	ppm	Ca	ppm	Cd	ppm
#1		-0.00082		8.31307		0.49585		0.05339		1.10273		0.02569		0.00377		33.86471		0.24090
#2		-0.00054		8.30822		0.48415		0.05285		1.10668		0.02587		-0.00001		34.01460		0.24002
Mean		-0.00068		8.31065		0.49000		0.05312		1.10470		0.02578		0.00188		33.93966		0.24046
%RSD		28.86059		0.04128		1.68826		0.71115		0.25245		0.48552		142.29201		0.31228		0.25979

	Co	ppm	Cr	ppm	Cu	ppm	Fe	ppm	K	ppm	Li	ppm	Mg	ppm	Mn	ppm	Mo	ppm
#1		0.24710		0.16528		0.15268		10.95874		23.21220		0.27498		23.96843		0.49889		0.49413
#2		0.24779		0.16644		0.15352		11.01253		23.19148		0.27475		24.01389		0.50236		0.49561
Mean		0.24744		0.16586		0.15310		10.98563		23.20184		0.27486		23.99116		0.50063		0.49487
%RSD		0.19764		0.49588		0.38635		0.34621		0.06314		0.05819		0.13398		0.49127		0.21144

	Na	ppm	Ni	ppm	P	ppm	Pb I	ppm	Pb II	ppm	S	ppm	Sb	ppm	Se I	ppm	Se II	ppm
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#1	79.78858	0.28890	0.17504	0.25652	0.25979	4.14883	0.20737	0.94854	0.93037
#2	79.49558	0.29286	0.28002	0.26462	0.26487	4.21509	0.20497	0.95133	0.96574
Mean	79.64208	0.29088	0.22753	0.26057	0.26233	4.18196	0.20617	0.94993	0.94805
%RSD	0.26014	0.96123	32.62465	2.19743	1.37031	1.12036	0.82400	0.20822	2.63800

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.69802	0.25171	0.31222	0.40305	0.98786	-0.02280	0.26237	0.29702	0.00867
#2	4.70949	0.26179	0.31287	0.40510	1.00442	-0.01134	0.26325	0.29800	0.00904
Mean	4.70375	0.25675	0.31255	0.40407	0.99614	-0.01707	0.26281	0.29751	0.00885
%RSD	0.17239	2.77639	0.14794	0.35899	1.17501	47.45829	0.23545	0.23344	2.94613

	Pb	Se
	calc	calc
#1	0.25870	0.93642
#2	0.26479	0.96094
Mean	0.26174	0.94868
%RSD	1.64450	1.82781

Method : Paragon2
File : 170620A
SampleId1 : 1705577-2MSD 2X
SampleId2 :
Analysis commenced : 6/20/2017 12:10:12
Dilution ratio : 1.00000 to 1.00000
Tray :
Position : TUBE59

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00045	11.22832	0.50284	0.05403	1.38370	0.02681	-0.00362	33.80977	0.24808
#2	-0.00104	11.23898	0.50996	0.05253	1.38714	0.02666	0.00220	33.74063	0.24689
Mean	-0.00075	11.23365	0.50640	0.05328	1.38542	0.02674	-0.00071	33.77520	0.24748
%RSD	55.35872	0.06708	0.99433	1.98523	0.17564	0.39833	578.68441	0.14475	0.34045

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.25476	0.12297	0.14729	12.67146	24.49815	0.28280	24.70672	0.56685	0.50901
#2	0.25545	0.12275	0.14695	12.65720	24.48095	0.28303	24.67342	0.56611	0.51026
Mean	0.25510	0.12286	0.14712	12.66433	24.48955	0.28292	24.69007	0.56648	0.50963
%RSD	0.19178	0.12289	0.16630	0.07962	0.04968	0.05943	0.09537	0.09309	0.17290

	Na	Ni	P	Pb	Pb	S	Sb	Se	I
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	79.70621	0.27502	0.28002	0.27064	0.26991	2.22635	0.18943	0.99032	0.96046
#2	79.64991	0.27679	0.38504	0.26895	0.27650	2.25696	0.19366	0.97993	1.00251
Mean	79.67806	0.27590	0.33253	0.26980	0.27321	2.24166	0.19154	0.98512	0.98149
%RSD	0.04996	0.45279	22.33300	0.44257	1.70524	0.96558	1.56178	0.74593	3.03002

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.85020	0.27389	0.32425	0.47747	1.02251	-0.02688	0.27311	0.31191	0.01408

#2	5.85054	0.26591	0.32443	0.47905	1.03141	-0.00959	0.27282	0.30911	0.01369
Mean	5.85037	0.26990	0.32434	0.47826	1.02696	-0.01823	0.27297	0.31051	0.01388
%RSD	0.00415	2.09186	0.03854	0.23387	0.61317	67.03275	0.07527	0.63820	1.99507
	Pb	Se							
	calc	calc							
#1	0.27015	0.97040							
#2	0.27399	0.99499							
Mean	0.27207	0.98270							
%RSD	0.99600	1.76953							

Method : Paragon2 File : 170620A
SampleId1 : 1706210-2 2X SampleId2 :
Analysis commenced : 6/20/2017 12:11:15
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE60

Printed : 6/20/2017 17:51:44
[SAMPLE]

Final concentrations									
#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00005	59.29115	0.01009	0.02913	0.67019	0.00378	0.00580	118.52241	0.00216
	0.00051	59.11285	0.01111	0.03138	0.66854	0.00373	0.00429	118.78886	0.00175
Mean	0.00023	59.20200	0.01060	0.03025	0.66937	0.00376	0.00504	118.65563	0.00196
%RSD	172.33044	0.21297	6.78806	5.24417	0.17423	1.05693	21.23433	0.15878	14.79804
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.06485	0.15347	0.08155	127.39344	14.25305	0.10801	39.45850	3.28898	0.00585
	0.06442	0.15305	0.08053	127.54705	14.18608	0.10746	39.43020	3.29140	0.00437
Mean	0.06464	0.15326	0.08104	127.47024	14.21957	0.10773	39.44435	3.29019	0.00511
%RSD	0.47647	0.18945	0.88692	0.08521	0.33305	0.36165	0.05074	0.05189	20.46238
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	1.55642	0.16048	2.38952	0.03916	0.04624	20.16692	0.00646	0.00633	0.01020
	1.54765	0.15909	2.38952	0.03935	0.04654	19.98485	0.00584	0.00060	0.00714
Mean	1.55203	0.15979	2.38952	0.03925	0.04639	20.07589	0.00615	0.00347	0.00867
%RSD	0.39987	0.61427	0.00000	0.34723	0.46798	0.64126	7.06820	116.82713	25.01377
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	10.98146	0.01192	0.25811	1.00837	0.00029	0.01097	0.09980	0.28129	0.02644
	10.96300	0.00604	0.25726	1.00920	0.00329	0.02117	0.09932	0.27941	0.02659
Mean	10.97223	0.00898	0.25769	1.00879	0.00179	0.01607	0.09956	0.28035	0.02652
%RSD	0.11893	46.34674	0.23256	0.05842	118.81143	44.89056	0.34054	0.47417	0.39369
#1	Pb	Se							
#2	calc	calc							
	0.04388	0.00891							
	0.04415	0.00496							

Mean 0.04401 0.00694ser: STEVE WORKMAN
%RSD 0.43212 40.30301

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 12:24:41
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:44
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19659	50.76137	0.48987	0.99941	1.00232	0.48806	0.49520	49.31477	0.47735
#2	0.19554	50.55853	0.48911	0.99449	1.00499	0.48734	0.48661	49.10852	0.47176
Mean	0.19607	50.65995	0.48949	0.99695	1.00366	0.48770	0.49091	49.21165	0.47455
%RSD	0.37803	0.28312	0.11022	0.34860	0.18811	0.10312	1.23668	0.29635	0.83167

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46806	0.97359	0.99157	19.28667	51.92699	0.50792	50.67205	0.96835	0.97951
#2	0.46530	0.96846	0.98552	19.26151	51.85176	0.50682	50.41191	0.96748	0.97507
Mean	0.46668	0.97102	0.98854	19.27409	51.88938	0.50737	50.54198	0.96791	0.97729
%RSD	0.41764	0.37348	0.43305	0.09230	0.10251	0.15358	0.36394	0.06377	0.32164

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.78724	0.98351	4.94595	1.00295	0.97370	5.10175	0.50880	0.99467	0.97233
#2	51.52514	0.97434	4.83889	0.99526	1.00395	5.02533	0.50417	1.00773	1.00270
Mean	51.65619	0.97893	4.89242	0.99910	0.98882	5.06354	0.50649	1.00120	0.98752
%RSD	0.35878	0.66260	1.54739	0.54429	2.16343	1.06720	0.64566	0.92197	2.17450

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.85411	1.02737	0.49923	0.48838	0.50298	4.82718	0.48850	0.98786	0.97880
#2	4.83484	1.02737	0.49930	0.48760	0.50694	4.83410	0.48613	0.98359	0.97750
Mean	4.84447	1.02737	0.49927	0.48799	0.50496	4.83064	0.48732	0.98572	0.97815
%RSD	0.28125	0.00006	0.01004	0.11334	0.55457	0.10135	0.34304	0.30628	0.09420

	Pb	Se
	calc	calc
#1	0.98344	0.97977
#2	1.00106	1.00437
Mean	0.99225	0.99207
%RSD	1.25553	1.75357

Method : Paragon2 File : 170620A
SampleId1 : CCB SampleId2 :
Analysis commenced : 6/20/2017 12:25:49
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:44
[CB]

Position : STD2

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00006	0.01973	0.00539	-0.00249	0.00047	0.00016	0.01000	0.05436	0.00002
#2	0.00025	0.01549	0.00068	-0.00346	0.00034	0.00010	0.00570	0.05328	0.00034
Mean	0.00016	0.01761	0.00303	-0.00297	0.00041	0.00013	0.00785	0.05382	0.00018
%RSD	84.90722	17.04333	109.76752	22.85655	21.92119	28.49855	38.72324	1.41899	123.90105

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00054	0.00077	0.00116	0.02529	0.13849	0.00349	0.04893	0.00094	0.00032
#2	-0.00006	0.00041	0.00150	0.02589	0.14192	0.00349	0.04321	0.00094	0.00009
Mean	0.00024	0.00059	0.00133	0.02559	0.14021	0.00349	0.04607	0.00094	0.00021
%RSD	176.94149	44.01408	17.80535	1.66391	1.73372	0.11756	8.77794	0.00000	79.81818

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09614	-0.00019	0.07011	-0.00168	0.00086	-0.01966	-0.00091	-0.00340	0.00440
#2	0.09509	-0.00129	0.07011	-0.00399	-0.00083	-0.00945	-0.00352	-0.01105	0.00370
Mean	0.09561	-0.00074	0.07011	-0.00283	0.00001	-0.01456	-0.00221	-0.00723	0.00405
%RSD	0.78172	104.29220	0.00000	57.42806	10079.56824	49.61907	83.56954	74.84623	12.17270

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01048	-0.00288	-0.00094	-0.00049	0.00419	-0.01033	-0.00023	0.00256	0.00114
#2	0.00836	-0.00372	-0.00094	-0.00070	0.00316	-0.00573	0.00005	0.00224	0.00093
Mean	0.00942	-0.00330	-0.00094	-0.00060	0.00367	-0.00803	-0.00009	0.00240	0.00104
%RSD	15.87027	18.02652	0.00000	24.63204	19.73860	40.54402	223.52089	9.61414	14.04757

	Pb	Se
	calc	calc
#1	0.00001	0.00180
#2	-0.00188	-0.00121
Mean	-0.00094	0.00029
%RSD	142.90480	726.63839

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:45

SampleId1 : FP170614-3MB SampleId2 : [SAMPLE]

Analysis commenced : 6/20/2017 12:28:15

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE61

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00069	-0.04125	0.00055	-0.00538	-0.00041	-0.00028	-0.00063	0.00864	-0.00022
#2	0.00006	-0.03371	-0.00314	-0.00484	-0.00041	-0.00034	-0.00240	0.00900	-0.00031
Mean	-0.00032	-0.03748	-0.00129	-0.00511	-0.00041	-0.00031	-0.00151	0.00882	-0.00027
%RSD	168.84385	14.22217	201.72945	7.38986	0.00000	13.31845	82.54504	2.88616	23.67765

ted: 6/20/2017 17:52:07 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00066	-0.00072	0.00015	0.00196	0.10215	0.00323	0.00000	-0.00017	-0.00069
#2	0.00011	-0.00036	0.00015	0.00211	0.09527	0.00324	0.00064	-0.00005	-0.00077
Mean	-0.00028	-0.00054	0.00015	0.00203	0.09871	0.00323	0.00032	-0.00011	-0.00073
%RSD	198.51785	46.41638	2.83986	5.23786	4.92483	0.12684	141.42136	78.63479	7.56886
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.06031	-0.00162	0.07011	-0.00535	0.00292	0.01098	-0.00050	-0.00458	-0.00208
#2	0.06021	-0.00007	0.07011	-0.00401	0.00017	-0.00945	-0.00111	-0.00222	-0.00198
Mean	0.06026	-0.00085	0.07011	-0.00468	0.00155	0.00077	-0.00081	-0.00340	-0.00203
%RSD	0.11272	129.98196	0.00000	20.33579	126.17702	1887.56770	53.03316	49.21823	3.46621
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.00660	-0.00287	-0.00142	-0.00147	-0.00456	-0.01376	-0.00030	0.00126	-0.00024
#2	0.00713	-0.00035	-0.00140	-0.00100	-0.00237	-0.00225	-0.00047	0.00003	0.00007
Mean	0.00687	-0.00161	-0.00141	-0.00123	-0.00347	-0.00801	-0.00038	0.00064	-0.00009
%RSD	5.36432	110.42789	0.88117	26.90966	44.70974	101.68104	31.52791	134.45799	250.24364

	Pb	Se
	calc	calc
#1	0.00017	-0.00291
#2	-0.00122	-0.00206
Mean	-0.00053	-0.00249
%RSD	186.52359	24.31522

Method : Paragon2 File : 170620A
SampleId1 : IP170614-3MB SampleId2 :
Analysis commenced : 6/20/2017 12:29:19
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:45

[SAMPLE]

Position : TUBE62

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00070	-0.02819	0.00144	-0.00527	-0.00035	-0.00038	-0.00594	0.03204	0.00012
#2	0.00034	-0.02927	0.00208	-0.00388	-0.00035	-0.00035	0.00165	0.03312	0.00014
Mean	-0.00018	-0.02873	0.00176	-0.00458	-0.00035	-0.00037	-0.00214	0.03258	0.00013
%RSD	414.08647	2.66140	25.55524	21.45596	0.00000	4.28057	250.57349	2.34404	10.03554
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00084	-0.00007	0.00116	0.06157	0.06532	0.00320	-0.00064	0.00020	0.00141
#2	-0.00032	-0.00025	0.00132	0.06323	0.06826	0.00320	0.00381	0.00032	0.00087
Mean	-0.00058	-0.00016	0.00124	0.06240	0.06679	0.00320	0.00159	0.00026	0.00114
%RSD	63.32799	75.94206	9.10960	1.87689	3.11916	0.12822	197.98985	33.65942	33.76900

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06011	0.00052	0.07011	-0.00542	0.00354	-0.01456	0.00253	-0.01091	0.00052
#2	0.06040	0.00119	0.07011	-0.00138	-0.00146	-0.01966	-0.00150	0.00162	0.00490
Mean	0.06026	0.00086	0.07011	-0.00340	0.00104	-0.01711	0.00051	-0.00465	0.00271
%RSD	0.33816	55.53597	0.00000	83.96738	340.28680	21.10681	553.33436	190.59275	114.34228

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01647	-0.00077	-0.00133	-0.00123	-0.00712	-0.01267	0.00000	0.00004	0.00023
#2	0.02104	-0.00161	-0.00135	-0.00126	-0.00094	0.00344	0.00104	0.00128	0.00062
Mean	0.01876	-0.00119	-0.00134	-0.00124	-0.00403	-0.00462	0.00052	0.00066	0.00043
%RSD	17.22692	49.77380	0.92739	1.97936	108.49300	246.94555	140.52976	131.90645	64.90124

	Pb	Se
	calc	calc
#1	0.00056	-0.00329
#2	-0.00144	0.00381
Mean	-0.00044	0.00026
%RSD	321.99304	1937.55732

Method : Paragon2
SampleId1 : IP170614-3LCS
SampleId2 :
Analysis commenced : 6/20/2017 12:31:41
Dilution ratio : 1.00000 to 1.00000
Tray :
Printed : 6/20/2017 17:51:45
[SAMPLE]
Position : TUBE63

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00031	1.94018	0.96509	0.09698	1.03932	0.05032	-0.00185	38.72262	0.47350
#2	0.00045	1.93155	0.96255	0.09634	1.03570	0.05040	0.00169	38.91875	0.47161
Mean	0.00007	1.93587	0.96382	0.09666	1.03751	0.05036	-0.00008	38.82069	0.47255
%RSD	737.68409	0.31520	0.18650	0.46898	0.24702	0.10476	3160.61170	0.35724	0.28175

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47793	0.20371	0.26151	1.09004	38.33313	0.49240	39.38774	0.49814	0.99441
#2	0.47887	0.20359	0.26050	1.08685	38.07392	0.48829	39.42183	0.49864	0.99285
Mean	0.47840	0.20365	0.26100	1.08845	38.20353	0.49035	39.40478	0.49839	0.99363
%RSD	0.13934	0.04340	0.27462	0.20713	0.47978	0.59300	0.06118	0.07050	0.11100

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	38.83437	0.50189	10.03137	0.50279	0.50227	10.36285	0.50080	1.88698	1.88309
#2	38.61420	0.49688	9.92208	0.50502	0.50680	10.29171	0.49237	1.88232	1.90785
Mean	38.72428	0.49939	9.97672	0.50390	0.50453	10.32728	0.49659	1.88465	1.89547
%RSD	0.40202	0.70886	0.77460	0.31407	0.63428	0.48712	1.20057	0.17513	0.92348

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	1.04412	0.51500	0.51099	0.49581	1.99359	-0.01834	0.51452	0.49739	-0.00067
Mean	1.03935	0.50828	0.50866	0.49655	1.97824	-0.01258	0.51675	0.50329	-0.00032
%RSD	0.64825	0.92897	0.32213	0.10652	0.54643	-0.01546	0.30650	0.50034	-0.00050
						26.33946	0.30650	0.83314	50.01489

	Pb	Se
	calc	calc
#1	0.50244	1.88439
#2	0.50621	1.89934
Mean	0.50432	1.89187
%RSD	0.52774	0.55904

Method : Paragon2
File : 170620A
SampleId1 : 1705515-1
SampleId2 :
Analysis commenced : 6/20/2017 12:33:09
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:45
[SAMPLE]
Position : TUBE64

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00055	-0.00559	-0.00047	0.39647	0.61558	-0.00025	-0.00138	2.67422	0.00052
#2	-0.00040	-0.01012	0.00093	0.39872	0.61616	-0.00024	0.00190	2.66591	0.00013
Mean	0.00007	-0.00785	0.00023	0.39760	0.61587	-0.00025	0.00026	2.67007	0.00032
%RSD	916.25121	40.76052	423.91170	0.39905	0.06553	1.41202	886.58042	0.21995	85.50508

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00015	0.00004	0.00150	0.47967	4.88139	0.26732	0.79381	0.00713	0.00102
#2	-0.00032	-0.00003	0.00184	0.48043	4.87348	0.26770	0.79381	0.00713	0.00110
Mean	-0.00024	0.00001	0.00167	0.48005	4.87743	0.26751	0.79381	0.00713	0.00106
%RSD	51.43057	1037.06979	14.44524	0.11119	0.11460	0.10118	0.00000	0.00000	5.17736

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	429.10316	0.00187	0.17504	-0.00060	0.00068	0.09780	0.00393	-0.00531	0.00197
#2	426.03092	0.00267	0.07011	0.00327	0.00209	0.08759	0.00212	-0.00223	0.00127
Mean	427.56704	0.00227	0.12257	0.00133	0.00139	0.09269	0.00303	-0.00377	0.00162
%RSD	0.50808	24.93887	60.53202	205.58179	71.82152	7.79170	42.25726	57.83933	30.43944

	Si	Sn	Ti	Tl	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.01831	-0.00162	0.74175	0.00289	0.00033	0.00284	-0.00158
#2	9.02398	-0.00708	0.74208	0.00494	0.00056	0.00253	-0.00142
Mean	9.02115	-0.00435	0.74192	0.00391	0.00045	0.00268	-0.00150
%RSD	0.04445	88.86226	0.03223	37.07456	36.09569	8.25853	7.70960

	Pb	Se
	calc	calc

#1 0.00025 -0.00046 **ser: STEVE WORKMAN**
 #2 0.00248 0.00010
Mean 0.00137 -0.00018
 %RSD 115.16414 225.56415

Method : Paragon2 File : 170620A
SampleId1 : 1705515-1D SampleId2 :
Analysis commenced : 6/20/2017 12:34:11
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:46
[SAMPLE]
 Position : TUBE65

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00012	-0.01292	0.00335	0.40940	0.62732	-0.00023	-0.00088	2.70853	-0.00001
#2	0.00018	-0.00734	0.00055	0.40865	0.63131	-0.00028	0.00645	2.70925	-0.00051
Mean	0.00003	-0.01013	0.00195	0.40903	0.62931	-0.00026	0.00279	2.70889	-0.00026
%RSD	727.04280	38.99206	101.44431	0.12930	0.44894	12.96325	186.04305	0.01885	136.32316

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00039	-0.00004	0.00116	0.48239	4.96933	0.27373	0.80081	0.00725	0.00040
#2	-0.00125	-0.00023	0.00117	0.48269	5.01874	0.27566	0.79890	0.00688	0.00056
Mean	-0.00043	-0.00013	0.00116	0.48254	4.99404	0.27470	0.79985	0.00706	0.00048
%RSD	268.50272	104.01487	0.29137	0.04425	0.69961	0.49717	0.16858	3.71516	22.96664

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	418.47655	0.00039	-0.03477	0.00179	0.00264	0.06205	0.00051	0.00146	-0.00251
#2	415.04491	-0.00024	-0.03477	-0.00541	-0.00328	0.08759	-0.00170	-0.00150	0.00366
Mean	416.76073	0.00008	-0.03477	-0.00181	-0.00032	0.07482	-0.00060	-0.00002	0.00057
%RSD	0.58224	566.63404	0.00000	281.90821	1321.30790	24.13316	261.45700	9604.09418	761.09073

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.20425	-0.00119	0.75641	-0.00112	-0.00649	-0.01081	0.00022	0.00377	-0.00131
#2	9.22745	-0.00666	0.76131	-0.00123	0.00147	-0.02002	-0.00018	0.00221	-0.00156
Mean	9.21585	-0.00393	0.75886	-0.00117	-0.00251	-0.01541	0.00002	0.00299	-0.00144
%RSD	0.17803	98.40337	0.45615	6.29023	224.00913	42.26095	1432.17647	36.89854	12.39265

#1	Pb	Se
	calc	calc
#1	0.00236	-0.00119
#2	-0.00399	0.00194
Mean	-0.00081	0.00038
%RSD	552.17806	590.46106

Method : Paragon2 File : 170620A
SampleId1 : 1705515-1L 5X SampleId2 :
Analysis commenced : 6/20/2017 12:35:14

Printed : 6/20/2017 17:51:46
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE66

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00058	-0.02868	0.00411	0.07914	0.12856	-0.00022	-0.00291	0.58592	-0.00025
#2	-0.00001	-0.02204	-0.00021	0.07914	0.12748	-0.00026	-0.00013	0.58231	0.00014
Mean	-0.00030	-0.02536	0.00195	0.07914	0.12802	-0.00024	-0.00152	0.58412	-0.00006
%RSD	134.49834	18.51904	156.77768	0.00000	0.59359	13.62450	129.71765	0.43609	473.32631

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00126	-0.00151	-0.00001	0.10088	0.81992	0.04794	0.17031	0.00119	-0.00092
#2	-0.00049	-0.00023	0.00033	0.10028	0.81599	0.04766	0.16396	0.00131	0.00095
Mean	-0.00087	-0.00087	0.00016	0.10058	0.81795	0.04780	0.16714	0.00125	0.00001
%RSD	62.73526	104.70681	146.12041	0.42355	0.33992	0.41181	2.68869	7.00056	10760.81301

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	114.05392	0.00002	-0.03477	-0.00658	0.00234	0.02119	-0.00513	-0.00549	0.00072
#2	114.14912	-0.00078	-0.03477	-0.00306	-0.00165	0.01609	-0.00029	-0.00710	0.00411
Mean	114.10152	-0.00038	-0.03477	-0.00482	0.00035	0.01864	-0.00271	-0.00629	0.00242
%RSD	0.05899	147.18256	0.00000	51.71032	813.77295	19.37350	126.21763	18.11676	99.07888

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.92293	-0.00288	0.15471	-0.00056	-0.00442	-0.03459	-0.00142	0.00091	-0.00072
#2	1.91818	-0.00372	0.15364	-0.00081	-0.00018	-0.02768	0.00024	-0.00089	-0.00041
Mean	1.92056	-0.00330	0.15417	-0.00069	-0.00230	-0.03114	-0.00059	0.00001	-0.00057
%RSD	0.17490	18.02620	0.49314	25.09496	130.62821	15.69019	199.35539	13474.23530	38.72254

	Pb	Se
	calc	calc
#1	-0.00063	-0.00135
#2	-0.00212	0.00038
Mean	-0.00137	-0.00048
%RSD	76.28206	251.01172

Method : Paragon2 File : 170620A

SampleId1 : 1705515-1MS SampleId2 :

Analysis commenced : 6/20/2017 12:41:18

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:46

[SAMPLE]

Position : TUBE67

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00045	1.95729	0.96713	0.50172	1.58437	0.04762	0.00160	38.74103	0.46756
#2	-0.00067	1.97823	0.95620	0.49306	1.58189	0.04763	-0.00195	38.84773	0.47095

Mean	-0.00011	1.96776	0.96166	0.49739	1.58313	0.04763	-0.00018	38.79438	0.46925
%RSD	739.20458	0.75266	0.80373	1.23036	0.11115	0.01303	1428.21517	0.19449	0.51042
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46201	0.19329	0.25578	1.35892	48.76150	0.76213	36.89204	0.47454	0.97086
#2	0.46124	0.19230	0.25479	1.36104	48.75229	0.76237	36.95054	0.47591	0.96969
Mean	0.46163	0.19279	0.25528	1.35998	48.75690	0.76225	36.92129	0.47522	0.97027
%RSD	0.11923	0.36166	0.27496	0.11050	0.01336	0.02226	0.11203	0.20327	0.08525
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	428.07808	0.47657	10.03137	0.49227	0.47986	10.36794	0.49323	1.89547	1.89225
#2	427.41183	0.47614	9.92208	0.48401	0.49010	10.46448	0.48981	1.90755	1.92592
Mean	427.74496	0.47635	9.97672	0.48814	0.48498	10.41621	0.49152	1.90151	1.90908
%RSD	0.11014	0.06245	0.77460	1.19734	1.49223	0.65541	0.49103	0.44945	1.24739
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.87598	0.50958	1.20663	0.46558	1.96672	-0.00711	0.48733	0.48793	-0.00153
#2	9.91533	0.51126	1.20505	0.46471	1.96243	-0.04165	0.48699	0.48881	-0.00199
Mean	9.89566	0.51042	1.20584	0.46514	1.96458	-0.02438	0.48716	0.48837	-0.00176
%RSD	0.28112	0.23291	0.09252	0.13213	0.15470	100.18807	0.05006	0.12861	18.51598

	Pb	Se
	calc	calc
#1	0.48400	1.89332
#2	0.48807	1.91981
Mean	0.48603	1.90656
%RSD	0.59272	0.98238

Method : Paragon2
File : 170620A
SampleId1 : 1705515-1MSD
SampleId2 :
Analysis commenced : 6/20/2017 12:42:21
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:46
[SAMPLE]
Position : TUBE68

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00132	2.01338	0.98708	0.51198	1.61858	0.04894	0.00088	39.83945	0.48068
#2	-0.00116	2.02547	0.99216	0.50952	1.62968	0.04902	-0.00645	39.88647	0.48109
Mean	0.00008	2.01943	0.98962	0.51075	1.62413	0.04898	-0.00279	39.86296	0.48088
%RSD	2186.61193	0.42337	0.36326	0.34023	0.48349	0.12522	185.96750	0.08340	0.06079
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47249	0.19729	0.26201	1.40401	49.92412	0.78021	37.73037	0.48584	0.99659
#2	0.47413	0.19620	0.26118	1.40917	50.25103	0.78675	37.84097	0.48783	0.99987
Mean	0.47331	0.19674	0.26159	1.40659	50.08757	0.78348	37.78567	0.48684	0.99823

%RSD	0.24635	0.38983	0.22652	0.25953	0.46151	0.59025	0.20696	0.28864	0.23204
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	421.79033	0.48893	10.14070	0.50101	0.49576	10.58135	0.50085	1.95533	1.92703
#2	420.00619	0.48532	10.14070	0.50066	0.50966	10.72869	0.50289	1.94116	1.98527
Mean	420.89826	0.48712	10.14070	0.50083	0.50271	10.65502	0.50187	1.94824	1.95615
%RSD	0.29974	0.52518	0.00000	0.04941	1.95563	0.97783	0.28727	0.51430	2.10536
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	10.18647	0.52847	1.23430	0.47516	1.99718	-0.01291	0.49813	0.49928	-0.00204
#2	10.23608	0.52679	1.24327	0.47818	2.01127	-0.02098	0.49962	0.49954	-0.00221
Mean	10.21127	0.52763	1.23878	0.47667	2.00423	-0.01694	0.49887	0.49941	-0.00213
%RSD	0.34356	0.22565	0.51197	0.44868	0.49695	33.65599	0.21126	0.03721	5.78898
	Pb	Se							
	calc	calc							
#1	0.49751	1.93645							
#2	0.50666	1.97058							
Mean	0.50209	1.95352							
%RSD	1.28962	1.23537							

Method : Paragon2 File : 170620A
SampleId1 : 1705515-3 SampleId2 :
Analysis commenced : 6/20/2017 12:43:41
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:47

[SAMPLE]

Position : TUBE69

Final concentrations

	Al	Ag	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00241	-0.00003	0.00030	0.03725	0.71670	-0.00017	0.00140	2.56698	0.00056
#2	0.00527	0.00083	0.00068	0.03394	0.71740	-0.00021	0.00494	2.57492	0.00003
Mean	0.00384	0.00040	0.00049	0.03560	0.71705	-0.00019	0.00317	2.57095	0.00030
%RSD	52.69618	151.30288	55.31676	6.57957	0.06883	16.78741	78.96757	0.21847	124.93907
	Cr	Co	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00037	0.00051	0.00133	0.41673	4.65860	0.04468	0.87391	0.00737	0.00172
#2	0.00073	0.00060	0.00099	0.41839	4.64774	0.04464	0.87645	0.00750	0.00048
Mean	0.00055	0.00055	0.00116	0.41756	4.65317	0.04466	0.87518	0.00743	0.00110
%RSD	47.03129	11.13053	20.51276	0.28112	0.16512	0.07347	0.20543	1.17657	79.91219
	Ni	Na	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00132	374.45721	0.07011	-0.00262	0.00023	0.16930	0.00052	0.00543	0.00276
#2	0.00288	374.26465	0.07011	0.00400	0.00119	0.17441	0.00191	-0.00620	0.00226
Mean	0.00210	374.36093	0.07011	0.00069	0.00071	0.17185	0.00121	-0.00038	0.00251
%RSD	52.46037	0.03637	0.00000	675.96276	94.83384	2.10128	81.19805	2157.22359	14.03783

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.55036	-0.00372	0.42808	-0.00034	-0.00613	0.00049	0.00037	-0.00082
#2	6.55778	0.00301	0.42729	-0.00368	-0.00729	0.00101	0.00163	-0.00049
Mean	6.55407	-0.00035	0.42768	-0.00201	-0.00671	0.00075	0.00100	-0.00065
%RSD	0.08004	1342.40580	0.13173	117.53403	12.15186	48.71772	88.65382	35.54788

	Pb	Se
	calc	calc
#1	-0.00072	0.00365
#2	0.00212	-0.00056
Mean	0.00070	0.00154
%RSD	285.14485	192.49327

Method : Paragon2 File : 170620A

SampleId1 : 1706185-1 10X SampleId2 :

Analysis commenced : 6/20/2017 12:44:44

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:47

[SAMPLE]

Position : TUBE70

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00203	-0.01013	-0.00136	4.72693	5.99415	-0.00014	0.00114	70.12484	-0.00047
#2	-0.00183	-0.00809	0.00182	4.70696	5.98910	-0.00016	-0.00392	70.08100	-0.00023
Mean	-0.00193	-0.00911	0.00023	4.71695	5.99162	-0.00015	-0.00139	70.10292	-0.00035
%RSD	7.12270	15.85050	963.44001	0.29950	0.05957	10.57176	257.66509	0.04422	47.38326

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00264	0.01132	0.00066	12.63857	11.63917	0.63033	8.16047	0.16644	0.00157
#2	0.00185	0.01168	0.00100	12.62998	11.60928	0.62927	8.14646	0.16657	-0.00100
Mean	0.00225	0.01150	0.00083	12.63428	11.62423	0.62980	8.15346	0.16651	0.00028
%RSD	24.68243	2.25855	28.99302	0.04806	0.18184	0.11917	0.12156	0.05261	637.95274

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	506.75247	0.00111	0.07011	-0.00667	-0.00211	0.29697	0.00147	-0.00385	0.00166
#2	496.67623	0.00073	-0.24440	-0.00614	0.00299	0.31739	-0.00439	-0.00150	0.00006
Mean	501.71435	0.00092	-0.08714	-0.00641	0.00044	0.30718	-0.00146	-0.00268	0.00086
%RSD	1.42013	29.09658	255.19869	5.92280	812.52419	4.70195	283.72882	62.10194	131.21664

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.82484	0.00343	-0.00130	0.00390	-0.01648	-0.00087	-0.00286	-0.00093
#2	3.81318	-0.00498	-0.00128	-0.00215	-0.02223	-0.00087	-0.00440	-0.00074
Mean	3.81901	-0.00077	-0.00129	0.00087	-0.01935	-0.00087	-0.00363	-0.00084
%RSD	0.21588	768.16143	0.95622	489.32974	21.00048	0.12820	29.86736	15.87156

Seser: STEVE WORKMAN

Pb

calc
#1 -0.00363
#2 -0.00005
Mean -0.00184
%RSD 137.81581

Method : Paragon2

File : 170620A

SampleId1 : CCV

SampleId2 :

Analysis commenced : 6/20/2017 12:46:18

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:47

[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19785	51.17711	0.49750	1.01084	1.01472	0.49798	0.48314	50.17783	0.47486
#2	0.19896	51.70761	0.49470	1.01106	1.02311	0.49932	0.48695	50.28430	0.47536
Mean	0.19840	51.44236	0.49610	1.01095	1.01891	0.49865	0.48505	50.23107	0.47511
%RSD	0.39669	0.72920	0.39874	0.01495	0.58241	0.18989	0.55524	0.14987	0.07391
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47452	0.99013	0.99087	19.61320	52.01738	0.50878	51.47324	0.98718	0.99129
#2	0.47530	0.99290	0.99708	19.67941	52.44279	0.51404	51.68116	0.99167	0.99316
Mean	0.47491	0.99152	0.99397	19.64631	52.23008	0.51141	51.57720	0.98943	0.99223
%RSD	0.11627	0.19766	0.44170	0.23831	0.57593	0.72817	0.28505	0.32089	0.13339
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	49.49985	0.98107	4.73187	1.01254	1.00816	5.16798	0.51363	1.01203	1.00135
#2	50.11454	0.98293	4.73187	1.01626	1.02991	5.21383	0.51484	1.01073	1.02683
Mean	49.80720	0.98200	4.73187	1.01440	1.01903	5.19091	0.51424	1.01138	1.01409
%RSD	0.87267	0.13332	0.00000	0.25971	1.50888	0.62457	0.16582	0.09098	1.77715
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.92400	1.03282	0.49992	0.50066	0.51116	4.88662	0.49485	1.01596	0.98779
#2	4.95859	1.04751	0.50269	0.50427	0.51080	4.90495	0.49619	1.00706	0.99238
Mean	4.94130	1.04016	0.50131	0.50246	0.51098	4.89579	0.49552	1.01151	0.99008
%RSD	0.49505	0.99873	0.39007	0.50879	0.04917	0.26468	0.19104	0.62217	0.32759
	Pb	Se							
	calc	calc							
#1	1.00962	1.00490							
#2	1.02536	1.02147							
Mean	1.01749	1.01319							
%RSD	1.09417	1.15617							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:47

SampleId1 : CCB
Analysis commenced : 6/20/2017 12:47:26
Dilution ratio : 1.00000 to 1.00000 Tray :

[CB]
Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00052	0.01559	0.00246	0.00167	0.00079	0.00006	0.00545	0.06192	0.00016
#2	-0.00060	0.01364	0.00500	-0.00121	0.00072	0.00004	0.00190	0.06156	-0.00026
Mean	-0.00056	0.01462	0.00373	0.00023	0.00075	0.00005	0.00368	0.06174	-0.00005
%RSD	10.08316	9.44856	48.20924	885.13188	5.91655	34.77657	68.23122	0.41232	624.60203

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00089	0.00008	0.00217	0.02996	0.15125	0.00362	0.05084	0.00106	0.00149
#2	-0.00015	0.00021	0.00151	0.02875	0.14536	0.00361	0.04893	0.00094	0.00141
Mean	0.00037	0.00015	0.00184	0.02935	0.14831	0.00361	0.04989	0.00100	0.00145
%RSD	197.48856	64.99184	25.54084	2.90122	2.80973	0.22700	2.70234	8.72892	3.78990

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.16238	0.00069	-0.03477	-0.00168	-0.00229	0.00077	-0.00109	0.00382	0.00400
#2	0.15891	-0.00053	-0.03477	-0.00543	0.00412	-0.00945	-0.00371	-0.00695	-0.00078
Mean	0.16064	0.00008	-0.03477	-0.00355	0.00091	-0.00434	-0.00240	-0.00156	0.00161
%RSD	1.52373	1095.49162	0.00000	74.64720	496.11292	166.34864	77.06089	486.89939	209.92146

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.01294	0.00133	-0.00082	-0.00046	-0.00815	-0.00113	0.00017	0.00253	0.00130
#2	0.01101	0.00427	-0.00082	-0.00039	-0.00109	-0.02185	-0.00006	0.00161	0.00089
Mean	0.01198	0.00280	-0.00082	-0.00043	-0.00462	-0.01149	0.00005	0.00207	0.00110
%RSD	11.39943	74.35648	0.00000	11.56908	108.05129	127.54410	305.75142	31.57805	26.55188

	Pb	Se
	calc	calc
#1	-0.00209	0.00394
#2	0.00094	-0.00283
Mean	-0.00057	0.00055
%RSD	373.19451	866.17458

Method : Paragon2
SampleId1 : 1706185-3 10X
Analysis commenced : 6/20/2017 12:48:34
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:47
[SAMPLE]
Position : TUBE71

Final concentrations

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00135	-0.03288	0.00170	4.87929	5.86439	-0.00032	0.00089	57.39839	-0.00052
#2	-0.00032	-0.03604	0.00386	4.85514	5.83924	-0.00036	0.00266	57.50067	-0.00037
Mean	-0.00083	-0.03446	0.00278	4.86721	5.85181	-0.00034	0.00178	57.44953	-0.00044
%RSD	87.88980	6.49948	55.05326	0.35079	0.30394	7.10316	70.75490	0.12588	23.84057
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00237	0.01585	0.00201	8.65133	10.31997	0.51904	6.87123	0.11604	0.00102
#2	0.00276	0.01563	0.00234	8.64895	10.25282	0.51398	6.85721	0.11616	0.00063
Mean	0.00257	0.01574	0.00218	8.65014	10.28640	0.51651	6.86422	0.11610	0.00083
%RSD	10.88723	0.96286	10.63651	0.01943	0.46158	0.69239	0.14433	0.07541	33.17358
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	506.45820	0.00115	-0.13961	-0.00368	0.00227	0.38378	0.00084	-0.00695	0.00094
#2	500.49269	0.00124	-0.55848	-0.00188	0.00454	0.39399	-0.00117	-0.00561	-0.00334
Mean	503.47544	0.00119	-0.34904	-0.00278	0.00341	0.38888	-0.00017	-0.00628	-0.00120
%RSD	0.83783	4.98457	84.85617	45.66561	47.12206	1.85697	848.02038	15.12096	251.84855
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.47315	-0.00372	8.96456	-0.00145	0.00365	-0.02732	-0.00080	-0.00143	-0.00041
#2	3.45496	-0.00414	8.93035	-0.00098	-0.00109	-0.00890	-0.00092	-0.00236	-0.00006
Mean	3.46406	-0.00393	8.94745	-0.00122	0.00128	-0.01811	-0.00086	-0.00189	-0.00023
%RSD	0.37120	7.57960	0.27033	27.29436	261.62299	71.94287	9.47795	35.05760	106.75563
	Pb	Se							
	calc	calc							
#1	0.00029	-0.00169							
#2	0.00240	-0.00410							
Mean	0.00135	-0.00289							
%RSD	110.99391	58.85837							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:48
SampleId1 : 1706271-1 10X **SampleId2 :**
Analysis commenced : 6/20/2017 12:49:37 **[SAMPLE]**
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE72

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00179	-0.05868	0.03668	5.52374	0.17067	-0.00083	0.00456	52.02968	0.00024
#2	0.00046	-0.06624	0.02956	5.54703	0.17162	-0.00087	0.00329	52.16187	-0.00021
Mean	0.00113	-0.06246	0.03312	5.53538	0.17114	-0.00085	0.00392	52.09578	0.00001
%RSD	83.22749	8.55367	15.21015	0.29752	0.39190	3.34991	22.84833	0.17943	2239.30159
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00017	0.00134	0.07145	1.19385	446.38218	1.76941	86.49255	0.25145	-0.00193

#2	-0.00051	0.00078	0.07146	1.19658	446.83290	1.77328	86.66286	0.25207	-0.00193
Mean	-0.00034	0.00106	0.07146	1.19521	446.60754	1.77135	86.57771	0.25176	-0.00193
%RSD	71.74154	37.06705	0.00653	0.16149	0.07136	0.15443	0.13910	0.17408	0.00000
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	317.83988	0.02206	-0.66308	0.02075	0.02577	96.14085	-0.00193	-0.00709	0.00306
#2	312.85391	0.02235	-0.34914	0.02417	0.03021	96.98684	-0.00133	-0.00062	-0.00063
Mean	315.34690	0.02220	-0.50611	0.02246	0.02799	96.56384	-0.00163	-0.00386	0.00121
%RSD	1.11801	0.93768	43.86182	10.77170	11.21561	0.61949	26.27879	118.57866	214.56421
	Si	Sn	Sr	Ti	Tl	V	Zn		Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm		ppm
#1	2.60684	-0.00414	1.98439	-0.00084	0.00658	-0.01500	-0.00023	0.28297	-0.00033
#2	2.61037	-0.00161	1.99446	-0.00081	0.00683	-0.02767	-0.00046	0.28171	-0.00066
Mean	2.60860	-0.00288	1.98943	-0.00083	0.00670	-0.02133	-0.00035	0.28234	-0.00050
%RSD	0.09571	62.00511	0.35806	2.98055	2.64130	41.99319	46.43218	0.31701	46.91085
	Pb	Se							
	calc	calc							
#1	0.02410	-0.00032							
#2	0.02820	-0.00063							
Mean	0.02615	-0.00047							
%RSD	11.08865	45.28263							

Method : Paragon2

File : 170620A

SampleId1 : 1706271-2 10X

SampleId2 :

Analysis commenced : 6/20/2017 13:02:05

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:48

[SAMPLE]

Position : TUBE73

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00069	-0.02761	-0.00021	3.20211	0.13292	-0.00021	0.00494	12.19692	0.00009
#2	-0.00020	-0.02927	-0.00136	3.18907	0.13324	-0.00025	0.00747	12.25423	-0.00028
Mean	-0.00045	-0.02844	-0.00078	3.19559	0.13308	-0.00023	0.00620	12.22557	-0.00010
%RSD	76.57489	4.13706	103.22493	0.28843	0.16795	10.75438	28.81935	0.33147	271.40659
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00013	-0.00047	0.00302	1.34495	8.93290	0.35147	2.12258	0.02581	-0.00100
#2	0.00021	-0.00006	0.00303	1.34890	8.92099	0.35118	2.14038	0.02605	-0.00030
Mean	0.00017	-0.00027	0.00302	1.34693	8.92694	0.35133	2.13148	0.02593	-0.00065
%RSD	35.98487	107.68144	0.09826	0.20718	0.09440	0.05837	0.59068	0.67479	76.28532
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	390.71625	-0.00024	-0.13961	-0.00093	0.00450	4.48520	-0.00373	-0.00282	0.00337
#2	388.97596	-0.00019	-0.13961	0.00032	0.00491	4.50559	-0.00392	-0.00357	-0.00081

Mean	389.84611	-0.00022	-0.13961	-0.00030	0.00470	4.49540	-0.00383	-0.00320	0.00128
%RSD	0.31565	13.78876	0.00000	290.86475	6.06719	0.32064	3.63782	16.46626	230.36072
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.95032	-0.00330	1.34963	-0.00102	0.00040	-0.01976	-0.00077	0.00251	-0.00064
#2	3.96938	-0.00372	1.35077	-0.00056	-0.00333	-0.02782	-0.00031	0.00407	-0.00065
Mean	3.95985	-0.00351	1.35020	-0.00079	-0.00146	-0.02379	-0.00054	0.00329	-0.00065
%RSD	0.34044	8.48669	0.05929	40.45222	180.26388	23.96683	59.85937	33.69156	0.38870
	Pb	Se							
	calc	calc							
#1	0.00269	0.00131							
#2	0.00338	-0.00173							
Mean	0.00304	-0.00021							
%RSD	15.94081	1032.00659							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:48
SampleId1 : 1706286-1 10X SampleId2 : [SAMPLE]
Analysis commenced : 6/20/2017 13:03:08
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE74

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00051	-0.02929	0.00106	1.50458	1.78000	-0.00029	-0.00037	25.51402	-0.00028
#2	-0.00078	-0.02721	-0.00199	1.49656	1.78358	-0.00028	0.00240	25.50847	-0.00021
Mean	-0.00064	-0.02825	-0.00047	1.50057	1.78179	-0.00028	0.00102	25.51124	-0.00024
%RSD	28.75972	5.21485	463.02511	0.37761	0.14198	0.83030	192.79460	0.01540	20.68066
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00140	0.00097	0.00200	4.74153	4.33961	0.57734	3.04922	0.06367	0.00001
#2	0.00045	0.00038	0.00134	4.74541	4.34849	0.57721	3.03268	0.06305	-0.00139
Mean	0.00092	0.00067	0.00167	4.74347	4.34405	0.57728	3.04095	0.06336	-0.00069
%RSD	72.20961	61.11215	27.80441	0.05774	0.14465	0.01634	0.38456	0.69058	143.94343
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	367.78911	0.00300	-0.13961	0.00258	0.00112	0.32250	-0.00091	-0.00840	-0.00106
#2	364.08098	0.00056	-0.13961	-0.00512	0.00390	0.30207	-0.00092	-0.00946	0.00033
Mean	365.93505	0.00178	-0.13961	-0.00127	0.00251	0.31229	-0.00091	-0.00893	-0.00037
%RSD	0.71653	96.79113	0.00000	428.04612	78.53070	4.62505	0.75823	8.42256	269.48958
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.29844	-0.00330	4.28892	-0.00131	-0.00207	0.00090	-0.00035	0.00939	-0.00009
#2	2.30144	-0.00582	4.29170	-0.00128	0.00112	-0.03249	-0.00035	0.00812	-0.00038
Mean	2.29994	-0.00456	4.29031	-0.00130	-0.00047	-0.01579	-0.00035	0.00876	-0.00023

%RSD	0.09225	39.13583	0.04583	1.89960	476.63527	149.51977	0.02634	10.21959	87.11648
	pb		se						
	calc		calc						
#1	0.00160		-0.00351						
#2	0.00090		-0.00293						
Mean	0.00125		-0.00322						
%RSD	39.82481		12.66247						

Method : Paragon2 File : 170620A
SampleId1 : 1706286-3 10X SampleId2 :
Analysis commenced : 6/20/2017 13:04:11
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:48
[SAMPLE]
Position : TUBE75

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00079	-0.03095	0.01238	2.45934	0.44072	-0.00022	0.00179	32.19476	-0.00036
#2	-0.00144	-0.03006	0.01798	2.47814	0.44515	-0.00021	-0.00429	32.25297	-0.00057
Mean	-0.00112	-0.03051	0.01518	2.46874	0.44294	-0.00021	-0.00125	32.22387	-0.00046
%RSD	41.03554	2.05417	26.07156	0.53860	0.70787	3.13131	343.50077	0.12772	31.58549
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00220	0.00121	0.21754	13.64693	8.99448	0.80559	3.92078	0.25418	-0.00007
#2	0.00117	0.00018	0.21856	13.71291	9.10671	0.81548	3.91506	0.25542	0.00087
Mean	0.00168	0.00070	0.21805	13.67992	9.05060	0.81054	3.91792	0.25480	0.00040
%RSD	43.30010	104.80009	0.33188	0.34107	0.87689	0.86271	0.10335	0.34402	164.51702
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	444.16454	0.02201	22.91584	-0.00143	0.00180	19.12995	-0.00031	-0.00796	-0.00060
#2	441.03776	0.02113	23.14546	-0.00832	0.00732	19.28679	0.00252	-0.00725	0.00598
Mean	442.60115	0.02157	23.03065	-0.00487	0.00456	19.20837	0.00111	-0.00761	0.00269
%RSD	0.49954	2.89533	0.70501	99.99488	85.63009	0.57738	180.68320	6.61949	173.12770
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.66264	0.00217	4.80156	-0.00053	-0.00920	-0.00716	-0.00001	0.06118	-0.00028
#2	3.69283	-0.00077	4.83592	-0.00062	-0.00251	-0.03141	-0.00126	0.06206	-0.00103
Mean	3.67774	0.00070	4.81874	-0.00057	-0.00585	-0.01928	-0.00063	0.06162	-0.00066
%RSD	0.58044	298.70731	0.50421	10.73060	80.77805	88.90533	139.60013	1.01525	80.67154
	Pb	Se							
	calc	calc							
#1	0.00072	-0.00305							
#2	0.00211	0.00157							
Mean	0.00142	-0.00074							
%RSD	69.20531	441.53773							

ted: 6/20/2017 17:52:07 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : 1705515-1 10X SampleId2 :
Analysis commenced : 6/20/2017 13:14:28
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:48
[SAMPLE]
Position : TUBE76

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00017	-0.01901	0.00437	0.03992	0.06359	-0.00019	-0.00139	-0.00009
#2	-0.00096	-0.02728	0.00221	0.03854	0.06365	-0.00026	-0.00519	0.00009
Mean	-0.00040	-0.02314	0.00329	0.03923	0.06362	-0.00023	-0.00329	0.00000
%RSD	202.05781	25.29277	46.52937	2.50367	0.07024	19.91768	81.74878	4327.17191

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00003	-0.00019	0.00184	0.05796	0.39045	0.02397	0.09278	0.00552	0.00001
#2	-0.00040	-0.00083	0.00067	0.05796	0.39586	0.02404	0.09278	0.00552	0.00032
Mean	-0.00019	-0.00051	0.00126	0.05796	0.39316	0.02400	0.09278	0.00552	0.00017
%RSD	163.12160	88.69839	66.03191	0.00000	0.97188	0.18795	0.00000	0.00000	131.08583

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	60.25848	0.00073	-0.03477	-0.00382	-0.00020	0.01609	0.00352	-0.00444	0.00400
#2	60.32127	0.00077	0.07011	-0.00511	0.00189	0.03141	0.00031	-0.00299	0.00311
Mean	60.28988	0.00075	0.01767	-0.00447	0.00085	0.02375	0.00192	-0.00372	0.00356
%RSD	0.07365	3.95654	419.75960	20.29895	174.44232	45.62103	118.58454	27.75859	17.81825

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.94563	0.00133	0.07754	-0.00107	-0.00391	-0.02188	0.00069	0.00221	0.00012
#2	0.94898	-0.00035	0.07759	-0.00096	0.00161	-0.03570	-0.00063	0.00094	-0.00025
Mean	0.94731	0.00049	0.07756	-0.00102	-0.00115	-0.02879	0.00003	0.00158	-0.00007
%RSD	0.25023	244.22055	0.04815	7.25882	339.36069	33.93536	3063.91998	56.91481	397.70499

	Pb	Se
	calc	calc
#1	-0.00141	0.00119
#2	-0.00044	0.00108
Mean	-0.00092	0.00113
%RSD	74.14991	6.97225

Method : Paragon2 File : 170620A
SampleId1 : 1705515-1D 10X SampleId2 :
Analysis commenced : 6/20/2017 13:15:31
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:49
[SAMPLE]
Position : TUBE77

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00108	-0.02954	0.00946	0.04110	0.06472	-0.00024	0.00165	0.29849	-0.00006
#2	-0.00041	-0.03251	-0.00301	0.04014	0.06460	-0.00024	0.00064	0.29957	-0.00003
Mean	-0.00074	-0.03102	0.00322	0.04062	0.06466	-0.00024	0.00115	0.29903	-0.00004
%RSD	63.56580	6.76329	273.52345	1.67403	0.13821	1.57297	62.42394	0.25547	37.55356

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00031	-0.00024	0.00133	0.05269	0.40372	0.02433	0.08833	0.00478	0.00001
#2	0.00029	-0.00028	0.00167	0.05359	0.41944	0.02424	0.09215	0.00490	-0.00084
Mean	-0.00001	-0.00026	0.00150	0.05314	0.41158	0.02428	0.09024	0.00484	-0.00042
%RSD	3256.75076	10.65936	15.95858	1.20208	2.70080	0.25335	2.98782	1.80846	145.59575

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	60.50674	0.00107	-0.03477	-0.00167	0.00124	0.01609	-0.00191	-0.00281	0.00141
#2	60.25690	0.00060	-0.03477	-0.00049	0.00085	-0.00434	0.00271	-0.00223	0.00181
Mean	60.38182	0.00084	-0.03477	-0.00108	0.00105	0.00587	0.00040	-0.00252	0.00161
%RSD	0.29257	39.14166	0.00000	77.15940	26.37326	245.98298	815.48658	16.46340	17.46745

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.96959	0.00301	0.07747	-0.00112	-0.00133	-0.00921	-0.00040	0.00252	-0.00024
#2	0.96852	-0.00035	0.07734	-0.00086	-0.00031	-0.01151	0.00006	0.00159	0.00005
Mean	0.96906	0.00133	0.07741	-0.00099	-0.00082	-0.01036	-0.00017	0.00205	-0.00009
%RSD	0.07753	179.13511	0.11257	18.62503	88.67157	15.71986	189.69114	32.11584	225.05568

	Pb	Se
	calc	calc
#1	0.00027	0.00001
#2	0.00040	0.00047
Mean	0.00034	0.00024
%RSD	28.01673	137.74170

Method : Paragon2
File : 170620A
sampleId1 : 1705515-1L 50X sampleId2 :
Analysis commenced : 6/20/2017 13:16:34
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE78

Printed : 6/20/2017 17:51:49
[SAMPLE]
Position : TUBE78

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00003	-0.02245	0.00386	0.00659	0.01279	-0.00019	0.00570	0.07848	-0.00027
#2	-0.00031	-0.03264	0.00131	0.00573	0.01285	-0.00030	0.00140	0.07776	-0.00016
Mean	-0.00017	-0.02755	0.00259	0.00616	0.01282	-0.00024	0.00355	0.07812	-0.00022
%RSD	120.31771	26.15303	69.54620	9.81123	0.34843	31.00533	85.75102	0.65174	37.19321

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00065	-0.00064	0.00117	0.01505	0.13701	0.00699	0.02478
Mean	-0.00022	-0.00060	0.00066	0.01460	0.13800	0.00697	0.02351
%RSD	0.00022	-0.00062	0.00091	0.01483	0.13750	0.00698	0.02415
	282.47774	4.62656	39.20401	2.15372	0.50508	0.29377	3.72163

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	12.15669	0.00124	0.07011	-0.00104	0.00063	-0.01456	0.00351	0.00395	0.00041
Mean	12.12385	-0.00007	0.07011	-0.00263	-0.00077	0.00077	-0.00351	-0.00149	0.00340
%RSD	12.14027	0.00058	0.07011	-0.00184	-0.00007	-0.00690	0.00000	0.00123	0.00191
	0.19128	158.01997	0.00000	61.39208	1495.74958	157.11732247560.58233	313.41274	110.77401	

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.19623	0.00049	0.01518	-0.00102	-0.00122	-0.01608	-0.00047	0.00250	0.00022
Mean	0.19447	-0.00414	0.01513	-0.00076	0.00032	-0.01608	0.00062	0.00281	0.00026
%RSD	0.19535	-0.00182	0.01515	-0.00089	-0.00045	-0.01608	0.00008	0.00266	0.00024
	0.63471	179.14428	0.24619	20.81844	244.36464	0.00206	998.78294	8.30183	12.32262

	Pb	Se
#1	calc	calc
#2	0.00008	0.00159
Mean	-0.00139	0.00177
%RSD	-0.00066	0.00168
	157.88811	7.49814

Method : Paragon2
SampleId1 : 1705515-1MS 10X
SampleId2 :
Analysis commenced : 6/20/2017 13:17:37
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:49
[SAMPLE]
Position : TUBE79

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	-0.00012	0.16583	0.10182	0.04634	0.16289	0.00478	0.00259	4.10175	0.04665
Mean	-0.00049	0.17050	0.09877	0.04719	0.16479	0.00482	-0.00602	4.10247	0.04708
%RSD	-0.00031	0.16817	0.10029	0.04676	0.16384	0.00480	-0.00171	4.10211	0.04687
	84.16401	1.96378	2.15260	1.29253	0.81870	0.62280	354.77109	0.01247	0.64113

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.04804	0.01999	0.02695	0.14622	4.67885	0.07157	3.93860	0.05340	0.09732
Mean	0.04761	0.02045	0.02561	0.14532	4.71787	0.07238	3.93542	0.05340	0.09553
%RSD	0.04783	0.02022	0.02628	0.14577	4.69836	0.07197	3.93701	0.05340	0.09642
	0.63542	1.59384	3.60361	0.43849	0.58726	0.79777	0.05714	0.00000	1.31211

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2									
Mean									
%RSD									

#1	62.32074	0.05137	1.01619	0.05541	0.05171	1.05771	0.04653	0.20101	0.19893
#2	62.81160	0.04994	1.12155	0.04561	0.05150	1.05260	0.04873	0.19437	0.20391
Mean	62.56617	0.05066	1.06887	0.05051	0.05160	1.05516	0.04763	0.19769	0.20142
%RSD	0.55476	1.99622	6.96986	13.72085	0.27805	0.34209	3.25648	2.37385	1.74893

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.04778	0.04203	0.12389	0.04787	0.19193	-0.01161	0.05123	0.05177	0.00047
#2	1.04813	0.04791	0.12484	0.04834	0.18961	-0.02888	0.05077	0.04962	-0.00035
Mean	1.04796	0.04497	0.12437	0.04811	0.19077	-0.02025	0.05100	0.05070	0.00006
%RSD	0.02331	9.24891	0.54092	0.69044	0.85957	60.31896	0.63578	2.99923	1000.71513

	Pb	Se
	calc	calc
#1	0.05294	0.19962
#2	0.04954	0.20073
Mean	0.05124	0.20017
%RSD	4.69082	0.39310

Method : Paragon2 File : 170620A
SampleId1 : 1705515-1MSD 10X SampleId2 :
Analysis commenced : 6/20/2017 13:18:40
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:49
[SAMPLE]

Position : TUBE80

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00125	0.18704	0.09775	0.05072	0.17079	0.00508	0.00132	4.25801	0.04931
#2	0.00045	0.18452	0.10551	0.05082	0.17029	0.00497	0.00006	4.24933	0.04861
Mean	-0.00040	0.18578	0.10163	0.05077	0.17054	0.00502	0.00069	4.25367	0.04896
%RSD	302.00978	0.95865	5.39927	0.14882	0.20975	1.61375	128.46489	0.14433	1.00648

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04986	0.02025	0.02730	0.15225	4.92338	0.07549	4.09258	0.05538	0.10175
#2	0.04926	0.02072	0.02763	0.15240	4.91300	0.07512	4.07222	0.05526	0.10168
Mean	0.04956	0.02049	0.02747	0.15232	4.91819	0.07530	4.08240	0.05532	0.10171
%RSD	0.86311	1.63499	0.84630	0.06994	0.14917	0.34311	0.35268	0.15819	0.05408

	Na	Ni	P	Pb	Pb	S	Sb	Se	I	Se	II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	65.78954	0.05289	1.01619	0.05058	0.05084	1.12407	0.05200	0.19554	0.19903		
#2	65.42386	0.05234	0.91088	0.05388	0.05519	1.10365	0.05220	0.20806	0.20859		
Mean	65.60670	0.05261	0.96353	0.05223	0.05302	1.11386	0.05210	0.20180	0.20381		
%RSD	0.39413	0.73489	7.72833	4.46934	5.79729	1.29620	0.26886	4.38672	3.31838		

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.10030	0.04245	0.12986	0.04973	0.20115	-0.03234	0.05210	0.05240	-0.00061

#2	1.09818	0.05548	0.12944	0.04982	0.20231	-0.01622	0.05261	0.05242	-0.00003
Mean	1.09924	0.04896	0.12965	0.04978	0.20173	-0.02428	0.05235	0.05241	-0.00032
%RSD	0.13639	18.81235	0.23063	0.12357	0.40788	46.94082	0.69838	0.02812	126.70073

	Pb	Se
	calc	calc
#1	0.05076	0.19787
#2	0.05475	0.20841
Mean	0.05276	0.20314
%RSD	5.35950	3.67179

Method : Paragon2
File : 170620A
SampleId1 : CCV
SampleId2 :
Analysis commenced : 6/20/2017 13:19:47
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:50
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19791	51.57709	0.50475	1.00860	1.02356	0.49926	0.49754	50.15692	0.47709
#2	0.19747	51.31259	0.49203	1.00165	1.01980	0.49853	0.48314	50.06568	0.47379
Mean	0.19769	51.44484	0.49839	1.00513	1.02168	0.49889	0.49034	50.11130	0.47544
%RSD	0.16049	0.36355	1.80415	0.48858	0.25962	0.10301	2.07600	0.12875	0.49139

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47513	0.98875	0.99590	19.62715	52.26298	0.51413	51.54556	0.98706	0.99324
#2	0.47530	0.98659	0.98953	19.57825	52.02574	0.51154	51.47001	0.98481	0.99012
Mean	0.47522	0.98767	0.99272	19.60270	52.14436	0.51284	51.50779	0.98594	0.99168
%RSD	0.02524	0.15477	0.45398	0.17636	0.32172	0.35667	0.10371	0.16101	0.22244

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.69772	0.97821	4.94595	1.01629	1.01512	5.22911	0.51306	1.02583	0.99276
#2	51.49387	0.97468	4.83889	1.01902	1.03377	5.16289	0.50342	1.02023	1.02472
Mean	51.59580	0.97644	4.89242	1.01765	1.02444	5.19600	0.50824	1.02303	1.00874
%RSD	0.27938	0.25596	1.54739	0.18940	1.28712	0.90127	1.34080	0.38674	2.24078

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.94182	1.04121	0.50327	0.50331	0.50209	4.90270	0.49571	1.01248	0.99213
#2	4.93423	1.03827	0.50024	0.50224	0.50974	4.87746	0.49455	1.01394	0.98950
Mean	4.93803	1.03974	0.50176	0.50278	0.50592	4.89008	0.49513	1.01321	0.99082
%RSD	0.10875	0.19980	0.42720	0.15156	1.06824	0.36499	0.16590	0.10192	0.18784

	Pb	Se
	calc	calc
#1	1.01551	1.00377
#2	1.02886	1.02323

Mean 1.02218 1.01350ser: STEVE WORKMAN
%RSD 0.92320 1.35759

Method : Paragon2 File : 170620A
SampleId1 : CCB SampleId2 :
Analysis commenced : 6/20/2017 13:20:55
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:50
[CB]

Position : STD2

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00117	0.01600	0.00500	-0.00153	0.00079	0.00015	-0.00113	0.06444	-0.00014
#2	0.00015	0.01642	0.00348	-0.00089	0.00098	0.00006	-0.00011	0.06660	0.00058
Mean	-0.00051	0.01621	0.00424	-0.00121	0.00088	0.00011	-0.00062	0.06552	0.00022
%RSD	182.24098	1.83121	25.45463	37.40301	15.20515	55.80358	115.75958	2.33121	231.29247

	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00084	-0.00032	0.00083	0.03026	0.10804	0.00360	0.05147	0.00106	0.00118
#2	0.00089	0.00068	0.00250	0.03116	0.12474	0.00363	0.05783	0.00106	0.00087
Mean	0.00003	0.00018	0.00167	0.03071	0.11639	0.00361	0.05465	0.00106	0.00102
%RSD	4602.41142	384.25669	71.16913	2.07993	10.14385	0.68100	8.22224	0.00000	21.49641

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.14997	0.00010	-0.03477	-0.00671	0.00254	0.00077	-0.00069	-0.00414	0.00330
#2	0.14814	0.00153	-0.03477	0.00111	0.00190	0.00587	-0.00170	-0.00457	-0.00247
Mean	0.14906	0.00081	-0.03477	-0.00280	0.00222	0.00332	-0.00120	-0.00436	0.00042
%RSD	0.86660	124.10595	0.00000	197.30843	20.37492	108.81073	59.81917	6.87539	983.78221

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.01436	-0.00119	-0.00077	-0.00083	-0.00160	-0.01494	-0.00041	0.00127	0.00075
#2	0.01523	0.00217	-0.00065	-0.00065	0.00317	0.00348	0.00080	0.00070	0.00128
Mean	0.01479	0.00049	-0.00071	-0.00074	0.00078	-0.00573	0.00020	0.00099	0.00101
%RSD	4.16649	488.70242	12.29872	16.65814	429.99495	227.17772	433.23240	41.32560	37.36252

	Pb calc	Se calc
#1	-0.00054	0.00082
#2	0.00164	-0.00317
Mean	0.00055	-0.00117
%RSD	279.91373	240.59183

Method : Paragon2 File : 170620A
SampleId1 : 1705515-3 10X SampleId2 :
Analysis commenced : 6/20/2017 13:22:03
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:50
[SAMPLE]

Position : TUBE81

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	-0.04332	-0.00021	0.00082	0.07452	-0.00035	0.00494	0.28517	-0.00001
#2	0.00073	-0.04824	0.00208	0.00221	0.07426	-0.00039	0.00090	0.28697	-0.00019
Mean	0.00020	-0.04578	0.00093	0.00151	0.07439	-0.00037	0.00292	0.28607	-0.00010
%RSD	361.24882	7.60171	173.52651	64.93196	0.24027	7.85102	97.93491	0.44507	132.63225
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00004	-0.00097	0.00099	0.04667	0.40519	0.00662	0.09151	0.00478	0.00048
#2	0.00030	0.00012	0.00234	0.04742	0.42042	0.00665	0.09977	0.00478	0.00032
Mean	0.00013	-0.00042	0.00167	0.04704	0.41281	0.00664	0.09564	0.00478	0.00040
%RSD	188.48261	181.81797	57.10819	1.13154	2.60862	0.24724	6.10799	0.00000	27.41952
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	49.56683	0.00065	-0.03477	-0.00487	0.00124	0.00077	0.00011	-0.00517	0.00032
#2	49.32454	0.00220	-0.03477	0.00227	-0.00028	0.03652	0.00312	-0.00708	0.00649
Mean	49.44569	0.00142	-0.03477	-0.00130	0.00048	0.01864	0.00162	-0.00612	0.00340
%RSD	0.34649	77.24098	0.00000	388.10083	224.15909	135.61504	131.77066	22.02766	128.22595
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.70289	-0.00035	0.04348	-0.00074	0.00689	-0.00920	-0.00035	0.00187	0.00058
#2	0.70377	0.00259	0.04332	-0.00046	-0.00416	-0.00230	0.00023	0.00253	0.00084
Mean	0.70333	0.00112	0.04340	-0.00060	0.00137	-0.00575	-0.00006	0.00220	0.00071
%RSD	0.08804	186.26528	0.25798	32.84273	571.60101	84.93607	699.98969	21.47128	26.63482
	Pb	Se							
	calc	calc							
#1	-0.00079	-0.00151							
#2	0.00057	0.00197							
Mean	-0.00011	0.00023							
%RSD	852.36762	1062.07969							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:50
SampleId1 : 1706185-1 500X SampleId2 :
Analysis commenced : 6/20/2017 13:23:06 [SAMPLE]
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE82

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00073	-0.04163	0.00221	0.09463	0.13317	-0.00035	0.00343	1.54505	0.00016
#2	-0.00126	-0.04594	-0.00225	0.09175	0.13273	-0.00041	0.00064	1.53820	0.00008
Mean	-0.00027	-0.04378	-0.00002	0.09319	0.13295	-0.00038	0.00203	1.54162	0.00012
%RSD	527.52862	6.96135	14984.61026	2.18904	0.23536	9.94102	97.16623	0.31429	48.80083

ted: 6/20/2017 17:52:08 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00031	-0.00033	0.00166	0.27976	0.23524	0.01211	0.19446	0.00774	-0.00053
#2	-0.00013	-0.00099	0.00168	0.27916	0.23966	0.01209	0.18811	0.00774	0.00102
Mean	-0.00022	-0.00066	0.00167	0.27946	0.23745	0.01210	0.19129	0.00774	0.00025
%RSD	55.37871	71.54700	0.63521	0.15261	1.31636	0.10167	2.34926	0.00000	447.86176

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	24.65862	0.00044	-0.03477	0.00056	-0.00230	0.01098	-0.00332	-0.00207	-0.00085
#2	24.52809	0.00111	-0.03477	-0.00523	0.00272	0.00587	0.00012	-0.00357	0.00373
Mean	24.59336	0.00077	-0.03477	-0.00234	0.00021	0.00843	-0.00160	-0.00282	0.00144
%RSD	0.37530	61.58173	0.00000	175.45350	1693.42936	42.85877	151.59089	37.66823	224.42100

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.09533	-0.00203	0.24189	-0.00077	0.00323	0.00092	0.00017	0.00251	0.00050
#2	0.08848	0.00301	0.24185	-0.00088	0.00077	-0.02787	-0.00081	0.00093	0.00001
Mean	0.09191	0.00049	0.24187	-0.00083	0.00200	-0.01348	-0.00032	0.00172	0.00026
%RSD	5.26926	732.96509	0.01032	8.94164	86.96248	151.04318	217.59026	64.78887	135.45074

	Pb	Se
	calc	calc
#1	-0.00135	-0.00125
#2	0.00007	0.00130
Mean	-0.00064	0.00002
%RSD	157.34184	7384.66967

Method : Paragon2 File : 170620A

SampleId1 : 1706185-3 500X SampleId2 :

Analysis commenced : 6/20/2017 13:24:09

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:50

[SAMPLE]

Position : TUBE83

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00013	-0.05034	0.00475	0.09730	0.12881	-0.00038	0.00393	1.28723	-0.00023
#2	-0.00117	-0.04622	0.00106	0.09645	0.12951	-0.00039	-0.00391	1.28110	-0.00009
Mean	-0.00065	-0.04828	0.00291	0.09687	0.12916	-0.00039	0.00001	1.28417	-0.00016
%RSD	112.86743	6.03339	89.80164	0.62392	0.38070	1.27688	69541.12946	0.33749	64.70791

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00064	0.00036	0.00149	0.19399	0.21019	0.01057	0.16142	0.00651	-0.00030
#2	-0.00074	-0.00012	0.00133	0.19158	0.18514	0.01056	0.16078	0.00663	-0.00170
Mean	-0.00005	0.00012	0.00141	0.19278	0.19766	0.01056	0.16110	0.00657	-0.00100
%RSD	1872.77514	275.36020	8.17004	0.88442	8.96019	0.03882	0.27894	1.33167	99.10923

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.94601	0.00027	0.07011	-0.00196	-0.00006	-0.00434	0.00130	-0.00163	0.00362
#2	24.01230	-0.00028	0.07011	-0.00645	0.00242	0.00077	-0.00313	0.00175	0.00034
Mean	23.97915	-0.00001	0.07011	-0.00420	0.00118	-0.00179	-0.00091	0.00006	0.00198
%RSD	0.19545	7173.75868	0.00000	75.46826	148.74350	201.94387	343.14179	3860.79429	117.38048

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08213	-0.00456	0.19860	-0.00102	-0.00078	-0.00015	-0.00031	0.00130	0.00024
#2	0.07931	-0.00540	0.19892	-0.00110	-0.00143	-0.01051	-0.00100	0.00004	-0.00001
Mean	0.08072	-0.00498	0.19876	-0.00106	-0.00110	-0.00533	-0.00065	0.00067	0.00012
%RSD	2.47058	11.94129	0.11296	5.80089	41.65312	137.54980	74.69830	132.46934	151.26230

	Pb	Se
	calc	calc
#1	-0.00069	0.00187
#2	-0.00054	0.00081
Mean	-0.00061	0.00134
%RSD	18.09135	56.29093

Method : Paragon2
File : 170620A
SampleId1 : 1706271-1 500X
SampleId2 :
Analysis commenced : 6/20/2017 13:25:12
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:51
[SAMPLE]

Position : TUBE84

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00059	-0.04951	0.00093	0.12530	0.00464	-0.00034	0.00140	1.40802	-0.00011
#2	-0.00145	-0.05676	0.00386	0.12636	0.00464	-0.00036	0.00418	1.40045	-0.00008
Mean	-0.00102	-0.05313	0.00240	0.12583	0.00464	-0.00035	0.00279	1.40423	-0.00010
%RSD	59.42644	9.64899	86.34757	0.60043	0.00000	4.30243	70.55513	0.38130	18.41084

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00055	-0.00132	0.00302	0.03492	9.52600	0.04013	2.37186	0.01059	0.00141
#2	-0.00031	-0.00063	0.00252	0.03447	9.48227	0.03994	2.35342	0.01047	0.00095
Mean	0.00012	-0.00097	0.00277	0.03470	9.50414	0.04004	2.36264	0.01053	0.00118
%RSD	514.65440	49.81772	12.90375	0.92041	0.32533	0.32779	0.55196	0.83094	27.99006

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	144.51504	0.00094	-0.03477	-0.00394	0.00423	2.06819	-0.00028	-0.00121	0.00121
#2	143.22368	0.00065	0.07011	-0.00782	0.00596	2.08350	-0.00311	-0.00224	0.00281
Mean	143.86936	0.00079	0.01767	-0.00588	0.00510	2.07584	-0.00169	-0.00172	0.00201
%RSD	0.63469	26.22819	419.75960	46.56227	24.06666	0.52139	117.87900	42.25472	56.07046

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.06841	-0.00330	0.05226	-0.00102	-0.00392	-0.02531	0.00898
Mean	0.06595	0.00175	0.05203	-0.00095	0.00071	-0.02531	0.00746
%RSD	0.06718	-0.00077	0.05215	-0.00098	-0.00160	-0.02531	0.00822
	2.59747	460.68020	0.31019	5.01067	204.14677	0.00131	13.07414
							330.01225

	Pb	Se
	calc	calc
#1	0.00151	0.00041
#2	0.00138	0.00113
Mean	0.00144	0.00077
%RSD	6.47309	66.43390

Method : Paragon2
File : 170620A
SampleId1 : 1706271-2 500X SampleId2 :
Analysis commenced : 6/20/2017 13:26:15
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:51
[SAMPLE]
Position : TUBE85

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	-0.00070	-0.05343	-0.00199	0.06194	0.00293	-0.00033	0.00469	0.28661	-0.00047
%RSD	0.00007	-0.04780	0.00119	0.06140	0.00300	-0.00038	0.00241	0.28697	-0.00011
	-0.00031	-0.05062	-0.00040	0.06167	0.00297	-0.00036	0.00355	0.28679	-0.00029
	172.32661	7.86106	558.50959	0.61258	1.50606	10.01104	45.44151	0.08879	86.87790

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.00063	-0.00080	0.00184	0.03282	0.21559	0.00817	0.05147	0.00478	-0.00030
%RSD	-0.00006	-0.00116	0.00066	0.03237	0.21903	0.00816	0.05275	0.00453	-0.00022
	0.00029	-0.00098	0.00125	0.03259	0.21731	0.00816	0.05211	0.00465	-0.00026
	169.04736	25.83584	66.76333	0.97992	1.11868	0.05024	1.72466	3.76120	21.15623

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	10.07461	0.00002	0.07011	-0.00592	-0.00016	0.09780	-0.00151	0.00249	0.00171
%RSD	10.06649	-0.00070	-0.03477	-0.00490	0.00069	0.09269	0.00031	0.00278	0.00121
	10.07055	-0.00034	0.01767	-0.00541	0.00026	0.09525	-0.00060	0.00263	0.00146
	0.05703	147.89135	419.75960	13.33639	229.65712	3.79140	213.51717	7.75557	24.09577

#1	Si	Sn	Ti	Tl	U	V	Zn	Zr
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.09094	0.00301	-0.00100	-0.00147	-0.00804	-0.00052	0.00063	-0.00007
%RSD	0.08953	-0.00582	-0.00093	-0.00173	-0.01380	0.00057	0.00093	0.00022
	0.09023	-0.00140	-0.00096	-0.00160	-0.01092	0.00002	0.00078	0.00007
	1.10244	444.33505	5.10103	11.53844	37.28561	3261.77982	26.68865	282.13403

Pb	Se
calc	calc

#1 -0.00208 0.00197ser: STEVE WORKMAN
#2 -0.00118 0.00173
Mean -0.00163 0.00185
%RSD 39.32093 9.01011

Method : Paragon2 File : 170620A
SampleId1 : 1706286-1 500X SampleId2 :
Analysis commenced : 6/20/2017 13:27:19
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:51
[SAMPLE]
Position : TUBE86

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00013	-0.04465	0.00119	0.02785	0.03730	-0.00035	0.00140	0.56791	0.00001
#2	-0.00098	-0.04932	0.00030	0.02625	0.03736	-0.00036	-0.00518	0.56646	-0.00025
Mean	-0.00055	-0.04699	0.00074	0.02705	0.03733	-0.00035	-0.00189	0.56718	-0.00012
%RSD	108.12047	7.03186	84.83061	4.18973	0.11967	2.80830	246.35080	0.17964	149.70810
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00060	-0.00008	0.00217	0.10299	0.17237	0.01128	0.07499	0.00626	0.00087
#2	-0.00122	-0.00100	0.00083	0.10329	0.15862	0.01132	0.06863	0.00626	-0.00045
Mean	-0.00031	-0.00054	0.00150	0.10314	0.16550	0.01130	0.07181	0.00626	0.00021
%RSD	412.36849	120.35102	63.26724	0.20652	5.87526	0.25403	6.25765	0.00000	452.30172

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.43043	0.00224	-0.03477	-0.00058	0.00151	-0.00945	0.00031	0.00132	0.00321
#2	9.48257	-0.00003	-0.03477	-0.00372	0.00136	0.00077	-0.00473	-0.00783	0.00490
Mean	9.45650	0.00111	-0.03477	-0.00215	0.00144	-0.00434	-0.00221	-0.00326	0.00406
%RSD	0.38993	144.78981	0.00000	103.23170	7.48234	166.34864	161.32276	198.54222	29.49326

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.05661	0.00301	0.08905	-0.00072	-0.00427	-0.00351	0.00042	0.00097	0.00049
#2	0.05361	-0.00119	0.08911	-0.00084	-0.00338	-0.01732	-0.00005	0.00186	-0.00017
Mean	0.05511	0.00091	0.08908	-0.00078	-0.00383	-0.01041	0.00018	0.00142	0.00016
%RSD	3.84240	327.72113	0.04193	11.01213	16.47640	93.81443	176.00701	44.32888	288.81304

	Pb	Se
	calc	calc
#1	0.00082	0.00258
#2	-0.00033	0.00067
Mean	0.00024	0.00162
%RSD	335.28817	83.44312

Method : Paragon2 File : 170620A
SampleId1 : 1706286-3 500X SampleId2 :
Analysis commenced : 6/20/2017 13:28:23

Printed : 6/20/2017 17:51:51
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE87

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00026	-0.04777	0.00411	0.04655	0.00969	-0.00036	0.00267	0.72138	-0.00018
#2	-0.00192	-0.05054	0.00144	0.04281	0.00969	-0.00037	-0.00392	0.71597	-0.00056
Mean	-0.00083	-0.04915	0.00278	0.04468	0.00969	-0.00037	-0.00062	0.71868	-0.00037
%RSD	185.70347	3.98297	68.00697	5.91853	0.00000	2.21050	748.88349	0.53175	72.66587

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00099	-0.00036	0.00639	0.29559	0.19938	0.01437	0.08706	0.01071	-0.00287
#2	-0.00056	-0.00131	0.00421	0.29393	0.19054	0.01436	0.07817	0.01059	-0.00139
Mean	0.00021	-0.00083	0.00530	0.29476	0.19496	0.01436	0.08261	0.01065	-0.00213
%RSD	518.82988	80.83318	29.06128	0.39792	3.20622	0.02855	7.61509	0.82129	49.13628

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	14.11116	0.00090	0.49012	-0.00236	-0.00055	0.38888	-0.00374	0.00189	0.00055
#2	14.13962	-0.00032	0.49012	-0.00963	0.00492	0.38378	-0.00212	-0.00667	-0.00204
Mean	14.12539	0.00029	0.49012	-0.00599	0.00218	0.38633	-0.00293	-0.00239	-0.00075
%RSD	0.14249	298.40670	0.00000	85.76448	177.12204	0.93462	39.25243	253.65164	245.65875

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.08599	-0.00119	0.10268	-0.00062	-0.00359	-0.01292	0.00035	0.00344	0.00013
#2	0.08020	-0.00245	0.10266	-0.00100	-0.00476	-0.03824	-0.00086	0.00123	-0.00052
Mean	0.08310	-0.00182	0.10267	-0.00081	-0.00417	-0.02558	-0.00026	0.00234	-0.00019
%RSD	4.92866	48.83468	0.01213	33.49188	19.86414	70.01480	332.69211	66.95198	239.70927

	Pb	Se
	calc	calc
#1	-0.00115	0.00100
#2	0.00007	-0.00358
Mean	-0.00054	-0.00129
%RSD	160.47625	250.57720

Method : Paragon2

File : 170620A

SampleId1 : CCV

SampleId2 :

Analysis commenced : 6/20/2017 13:31:35

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:52

[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19726	51.41087	0.49827	0.99439	1.02235	0.49877	0.48796	49.75324	0.46478
#2	0.19910	51.99956	0.49432	1.00261	1.03220	0.49970	0.48271	49.81785	0.46661

Mean	0.19818	51.70521	0.49629	0.99850	1.02727	0.49923	0.48533	49.78554	0.46570
%RSD	0.65620	0.80508	0.56165	0.58262	0.67836	0.13102	0.76580	0.09176	0.27885
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47296	0.98644	0.98934	19.56817	51.64492	0.50911	51.47260	0.98619	0.98357
#2	0.47392	0.98741	0.99788	19.62933	52.20340	0.51528	51.67793	0.99005	0.98489
Mean	0.47344	0.98693	0.99361	19.59875	51.92416	0.51220	51.57526	0.98812	0.98423
%RSD	0.14295	0.06917	0.60761	0.22064	0.76055	0.85116	0.28152	0.27669	0.09525
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.42307	0.96222	4.94595	1.00970	1.01431	5.24440	0.51038	1.00956	1.00644
#2	51.97013	0.95852	5.05306	1.01487	1.03062	5.32081	0.50257	1.02956	1.03742
Mean	51.69660	0.96037	4.99951	1.01228	1.02246	5.28260	0.50647	1.01956	1.02193
%RSD	0.74827	0.27264	1.51492	0.36071	1.12827	1.02283	1.09019	1.38705	2.14373
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.96274	1.02819	0.49939	0.50983	0.50349	4.90966	0.49472	1.01082	0.98664
#2	4.99909	1.02734	0.50242	0.51270	0.49574	4.97398	0.49686	1.00962	0.99233
Mean	4.98092	1.02777	0.50091	0.51127	0.49962	4.94182	0.49579	1.01022	0.98948
%RSD	0.51602	0.05801	0.42792	0.39665	1.09617	0.92025	0.30489	0.08413	0.40655
	Pb	Se							
	calc	calc							
#1	1.01277	1.00748							
#2	1.02537	1.03480							
Mean	1.01907	1.02114							
%RSD	0.87438	1.89214							

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 13:32:43
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:52
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00015	0.00461	0.00068	-0.00271	0.00091	0.00001	-0.00062	0.06948	-0.00006
#2	-0.00042	-0.00403	0.00246	-0.00196	0.00098	-0.00001	0.00393	0.06912	0.00012
Mean	-0.00013	0.00029	0.00157	-0.00233	0.00094	0.00000	0.00165	0.06930	0.00003
%RSD	305.22710	2117.91838	80.25620	22.66052	4.72939	775.56451	194.67558	0.36734	447.33599
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00066	-0.00004	0.00150	0.03237	0.09576	0.00360	0.05275	0.00106	0.00032
#2	0.00028	0.00012	0.00183	0.03221	0.09773	0.00358	0.05656	0.00106	0.00196
Mean	-0.00019	0.00004	0.00166	0.03229	0.09675	0.00359	0.05465	0.00106	0.00114

%RSD	353.58742	273.35028	14.26951	0.32969	1.43566	0.34298	4.93335	0.00000	101.30691
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14584	0.00065	0.07011	-0.00450	-0.00111	0.00587	-0.00030	-0.00752	0.00360
#2	0.14497	0.00132	0.07011	-0.00497	0.00096	-0.00434	0.00133	0.00190	0.00171
Mean	0.14540	0.00098	0.07011	-0.00473	-0.00008	0.00077	0.00051	-0.00281	0.00266
%RSD	0.42079	48.40740	0.00000	7.08210	1905.67608	943.76043	223.43940	237.30146	50.37541
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01981	-0.00330	-0.00063	-0.00058	-0.00224	-0.00574	0.00005	0.00191	0.00140
#2	0.02087	-0.00792	-0.00061	-0.00032	-0.00455	-0.00343	-0.00012	0.00222	0.00124
Mean	0.02034	-0.00561	-0.00062	-0.00045	-0.00339	-0.00458	-0.00003	0.00206	0.00132
%RSD	3.69299	58.29651	2.00621	40.87614	48.19869	35.52405	375.31457	10.85864	8.83029
	Pb	Se							
	calc	calc							
#1	-0.00224	-0.00010							
#2	-0.00102	0.00177							
Mean	-0.00163	0.00084							
%RSD	53.15978	158.74215							

Method : Paragon2
File : 170620A
SampleId1 : CRI
SampleId2 :
Analysis commenced : 6/20/2017 13:33:51
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:52
[CV]

Position : STD6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02120	0.40870	0.01226	0.42137	0.45301	0.01059	0.05572	5.43633	0.01020
#2	0.02146	0.40086	0.01009	0.43109	0.45472	0.01059	0.05700	5.45553	0.00991
Mean	0.02133	0.40478	0.01117	0.42623	0.45387	0.01059	0.05636	5.44593	0.01006
%RSD	0.86957	1.37005	13.68562	1.61303	0.26648	0.01319	1.59782	0.24928	2.04516
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10667	0.02208	0.05685	0.23634	4.31245	0.01923	5.47364	0.03410	0.02156
#2	0.10624	0.02161	0.05700	0.23740	4.32085	0.01929	5.46919	0.03422	0.02179
Mean	0.10645	0.02184	0.05693	0.23687	4.31665	0.01926	5.47141	0.03416	0.02167
%RSD	0.28506	1.51306	0.18701	0.31500	0.13748	0.23425	0.05759	0.25614	0.76129
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.67166	0.08796	0.17504	0.00147	0.00795	0.24590	0.13449	0.00460	0.01219
#2	4.67056	0.09049	0.28002	0.00654	0.00393	0.25101	0.13108	0.01420	0.01388
Mean	4.67111	0.08923	0.22753	0.00401	0.00594	0.24846	0.13279	0.00940	0.01303
%RSD	0.01674	1.99999	32.62465	89.47817	47.87785	1.45337	1.81689	72.23652	9.18094

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.13114	0.10887	0.02186	0.01890	0.19093	0.10995	0.04380	0.05589
#2	0.13430	0.11056	0.02190	0.01918	0.22547	0.10955	0.04409	0.05591
Mean	0.13272	0.10972	0.02188	0.01904	0.20820	0.10975	0.04395	0.05590
%RSD	1.68315	1.08322	0.11246	1.02996	11.72996	0.25900	0.46577	0.02532

	Pb	Se
	calc	calc
#1	0.00579	0.00966
#2	0.00480	0.01399
Mean	0.00530	0.01182
%RSD	13.27534	25.87522

Method : Paragon2 File : 170620A

SampleId1 : LCV SampleId2 :

Analysis commenced : 6/20/2017 13:36:00

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:52

[SAMPLE]

Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00949	0.17487	0.02867	0.10126	0.10858	0.00510	0.01470	1.05904	0.00438
#2	0.00958	0.16712	0.03350	0.10040	0.10820	0.00508	0.02405	1.05724	0.00463
Mean	0.00953	0.17100	0.03109	0.10083	0.10839	0.00509	0.01938	1.05814	0.00451
%RSD	0.64170	3.20470	10.99705	0.59946	0.24741	0.24573	34.15069	0.12043	3.87597

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01955	0.01025	0.02263	0.11715	0.82778	0.01664	1.05380	0.01059	0.02016
#2	0.01972	0.01052	0.02162	0.11745	0.82877	0.01661	1.05952	0.01071	0.01813
Mean	0.01964	0.01038	0.02213	0.11730	0.82828	0.01662	1.05666	0.01065	0.01914
%RSD	0.61776	1.88249	3.24764	0.18161	0.08392	0.14803	0.38286	0.82129	7.46890

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.86455	0.02054	0.17504	0.01567	0.02019	0.22037	0.05212	0.02227	0.03179
#2	0.85912	0.01995	0.28002	0.02008	0.02057	0.21015	0.05069	0.02301	0.03009
Mean	0.86183	0.02025	0.22753	0.01787	0.02038	0.21526	0.05141	0.02264	0.03094
%RSD	0.44498	2.05653	32.62465	17.46966	1.30874	3.35503	1.96292	2.32745	3.86875

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.11072	0.05383	0.02007	0.02245	0.19221	0.02069	0.02127	0.02138
#2	0.11053	0.05173	0.02031	0.02991	0.20142	0.02092	0.02128	0.02204
Mean	0.11063	0.05278	0.02019	0.02618	0.19681	0.02080	0.02128	0.02171
%RSD	0.12209	2.81525	0.85298	20.14367	3.30901	0.78170	0.04043	2.14811

Seser: STEVE WORKMAN

Pb		calc
#1	0.01868	0.02862
#2	0.02041	0.02774
Mean	0.01954	0.02818
%RSD	6.23059	2.21091

Method : Paragon2

File : 170620A

SampleId1 : ICSA

SampleId2 :

Analysis commenced : 6/20/2017 13:37:02

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:52

[ICSAB]

Position : STD3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00112	266.03106	0.00081	-0.00217	0.00123	0.00035	0.00696	256.20803	-0.00018
#2	0.00013	263.75073	-0.00454	-0.00324	0.00117	0.00029	0.01227	256.22165	-0.00023
Mean	-0.00049	264.89090	-0.00187	-0.00271	0.00120	0.00032	0.00962	256.21484	-0.00021
%RSD	177.99601	0.60872	202.51053	27.90141	3.73118	12.02921	39.03910	0.00376	18.57200
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00049	-0.00144	-0.00173	106.58623	0.02800	0.00454	270.03352	-0.00574	-0.00038
#2	0.00020	-0.00083	-0.00172	106.77359	0.02751	0.00456	269.68232	-0.00586	0.00196
Mean	-0.00014	-0.00113	-0.00172	106.67991	0.02775	0.00455	269.85792	-0.00580	0.00079
%RSD	343.52962	38.03605	0.10254	0.12419	1.25100	0.27040	0.09203	1.50768	208.83855
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09672	-0.00062	0.07011	0.00252	0.00200	0.06205	0.00654	0.00871	-0.00485
#2	0.09672	-0.00024	0.07011	-0.00928	0.00138	0.05184	0.00616	0.00429	-0.00034
Mean	0.09672	-0.00043	0.07011	-0.00338	0.00169	0.05695	0.00635	0.00650	-0.00260
%RSD	0.00000	62.83445	0.00000	246.92128	26.17715	12.68353	4.27878	48.09895	122.68165
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01857	0.00301	0.01514	-0.00255	-0.00270	0.03135	0.00155	0.00587	0.00206
#2	0.02122	-0.00077	0.01504	-0.00237	-0.01860	0.02655	0.00114	0.00528	0.00235
Mean	0.01990	0.00112	0.01509	-0.00246	-0.01065	0.02895	0.00134	0.00558	0.00221
%RSD	9.42807	239.05961	0.49440	4.99906	105.58786	11.72031	21.72109	7.52012	9.22315

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:53

SampleId1 : ICSAB
Analysis commenced : 6/20/2017 13:40:23
Dilution ratio : 1.00000 to 1.00000 Tray :

[ICSAB]
Position : STD4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.20543	259.81243	0.10411	1.01576	0.54242	0.49420	0.48706	249.23569	0.97308
#2	0.20321	258.08711	0.10347	1.01447	0.54134	0.49561	0.48299	250.85950	0.97232
Mean	0.20432	258.94977	0.10379	1.01512	0.54188	0.49490	0.48503	250.04760	0.97270
%RSD	0.77052	0.47113	0.43334	0.08931	0.14061	0.20128	0.59237	0.45919	0.05532

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.47016	0.48797	0.54380	104.35671	0.00836	1.10334	263.27648	0.47988	0.99761
#2	0.47093	0.48932	0.53728	104.62488	0.03831	1.09369	263.18249	0.48013	0.99917
Mean	0.47055	0.48865	0.54054	104.49079	0.02334	1.09851	263.22949	0.48001	0.99839
%RSD	0.11582	0.19510	0.85289	0.18148	90.76132	0.62124	0.02525	0.03659	0.11048

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.08461	0.96622	0.98019	0.05303	0.04577	1.09344	0.64089	0.05181	0.04758
#2	0.08490	0.96243	1.18295	0.05189	0.04854	1.09855	0.62488	0.06586	0.04970
Mean	0.08476	0.96433	1.08157	0.05246	0.04716	1.09599	0.63289	0.05883	0.04864
%RSD	0.24048	0.27769	13.25609	1.53072	4.15565	0.32934	1.78879	16.88376	3.09231

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	1.00083	1.05954	1.03283	0.98660	0.09349	10.12872	0.49722	0.95529	0.49888
#2	0.99257	1.06164	1.02981	0.98873	0.09620	10.04466	0.49809	0.95908	0.49833
Mean	0.99670	1.06059	1.03132	0.98766	0.09485	10.08669	0.49766	0.95719	0.49860
%RSD	0.58602	0.13980	0.20717	0.15292	2.02434	0.58930	0.12362	0.28014	0.07834

	Pb	Se
	calc	calc
#1	0.04819	0.04899
#2	0.04966	0.05508
Mean	0.04892	0.05204
%RSD	2.12516	8.28481

Method : Paragon2
SampleId1 : CCV
Analysis commenced : 6/20/2017 13:41:31
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170620A
Printed : 6/20/2017 17:51:53
[CV]
Position : STD1

Final concentrations

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.19812	51.15771	0.50132	0.99449	1.01853	0.49744	0.48263	50.08963	0.47222
#2	0.19858	51.43624	0.49814	1.00005	1.01942	0.49820	0.49400	50.27327	0.47341
Mean	0.19835	51.29698	0.49973	0.99727	1.01898	0.49782	0.48832	50.18145	0.47281
%RSD	0.16230	0.38393	0.44983	0.39394	0.06177	0.10800	1.64573	0.25877	0.17782

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47349	0.98747	0.99070	19.59237	51.71386	0.50835	51.46743	0.98207	0.99293
#2	0.47573	0.99084	0.99388	19.64008	51.93849	0.51046	51.68310	0.98581	0.99363
Mean	0.47461	0.98916	0.99229	19.61623	51.82617	0.50941	51.57526	0.98394	0.99328
%RSD	0.33382	0.24139	0.22687	0.17201	0.30647	0.29225	0.29568	0.26889	0.04997

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.75772	0.98082	4.86506	1.01555	1.01689	5.17307	0.51026	1.00895	1.00774
#2	52.01225	0.97594	4.86506	1.01926	1.02809	5.24440	0.50944	1.01308	1.03442
Mean	51.88499	0.97838	4.86506	1.01740	1.02249	5.20874	0.50985	1.01102	1.02108
%RSD	0.34688	0.35277	0.00000	0.25812	0.77437	0.96822	0.11255	0.28835	1.84789

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.90989	1.04332	0.50033	0.49926	0.50783	4.88894	0.49341	1.01180	0.99053
#2	4.93424	1.03953	0.49999	0.50142	0.51667	4.90729	0.49578	1.01382	0.99271
Mean	4.92207	1.04142	0.50016	0.50034	0.51225	4.89812	0.49459	1.01281	0.99162
%RSD	0.34988	0.25675	0.04762	0.30460	1.22084	0.26483	0.33843	0.14070	0.15544

	Pb	Se
	calc	calc
#1	1.01644	1.00814
#2	1.02515	1.02731
Mean	1.02080	1.01773
%RSD	0.60303	1.33199

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 13:42:39
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:53
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00035	0.03336	0.00170	-0.00036	0.00098	0.00025	-0.00897	0.08172	0.00050
#2	0.00062	0.03455	0.00017	0.00071	0.00110	0.00025	0.00292	0.08172	0.00049
Mean	0.00049	0.03395	0.00093	0.00018	0.00104	0.00025	-0.00302	0.08172	0.00049
%RSD	39.29558	2.47982	115.68430	426.75109	8.59636	0.76008	278.05280	0.00000	1.73438

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00028	0.00082	0.00235	0.03794	0.12572	0.00367	0.07245	0.00131	0.00009

#2	0.00098	0.00101	0.00217	0.03658	0.11835	0.00368	0.07435	0.00131	0.00141
Mean	0.00063	0.00091	0.00226	0.03726	0.12204	0.00367	0.07340	0.00131	0.00075
%RSD	77.55628	14.65277	5.60417	2.57160	4.26816	0.22341	1.83666	0.00000	124.46886
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14911	0.00065	-0.03077	-0.00319	-0.00132	0.00587	0.00090	-0.00488	0.00151
#2	0.14834	0.00166	-0.03077	0.00037	-0.00134	-0.00434	-0.00150	0.00574	0.00231
Mean	0.14872	0.00115	-0.03077	-0.00141	-0.00133	0.00077	-0.00030	0.00043	0.00191
%RSD	0.36571	62.00005	0.00000	178.21824	1.27279	943.76043	568.97860	1750.95057	29.48007
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01593	-0.00035	-0.00054	-0.00027	-0.00096	-0.01610	0.00011	0.00101	0.00122
#2	0.01646	-0.00414	-0.00049	-0.00053	-0.00364	0.00347	0.00052	0.00102	0.00153
Mean	0.01620	-0.00225	-0.00051	-0.00040	-0.00230	-0.00632	0.00031	0.00102	0.00137
%RSD	2.31599	119.08814	7.25339	46.21985	82.65931	219.14378	90.34615	0.57689	15.90240
	Pb	Se							
	calc	calc							
#1	-0.00194	-0.00062							
#2	-0.00077	0.00345							
Mean	-0.00136	0.00142							
%RSD	60.86160	203.05729							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:53

SampleId1 : CCV

SampleId2 :

Analysis commenced : 6/20/2017 16:37:11

[CV]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD1

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19760	50.93447	0.48148	0.97270	1.00779	0.48476	0.48332	48.93688	0.46212
#2	0.19853	51.16023	0.48746	0.97676	1.00976	0.48667	0.48686	49.19132	0.46279
Mean	0.19807	51.04735	0.48447	0.97473	1.00877	0.48571	0.48509	49.06410	0.46246
%RSD	0.33380	0.31272	0.87233	0.29454	0.13814	0.27805	0.51627	0.36670	0.10214
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46437	0.96635	0.99294	19.02951	50.60464	0.50211	50.59330	0.95015	0.96891
#2	0.46652	0.97155	0.99377	19.11162	50.78620	0.50368	50.79470	0.95513	0.97694
Mean	0.46544	0.96895	0.99335	19.07057	50.69542	0.50290	50.69400	0.95264	0.97292
%RSD	0.32738	0.37938	0.05948	0.30443	0.25324	0.22101	0.28093	0.37020	0.58380
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.48849	0.94649	4.96822	0.98992	0.98113	5.13741	0.50353	1.00387	0.98519
#2	51.64808	0.95254	4.86506	0.99950	1.00136	5.21383	0.49616	1.00549	1.00928

Mean	51.56829	0.94951	4.91664	0.99471	0.99124	5.17562	0.49984	1.00468	0.99723
%RSD	0.21883	0.45123	1.48360	0.68104	1.44291	1.04403	1.04233	0.11413	1.70806
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.82762	1.02444	0.49533	0.48188	0.50443	4.78951	0.48453	0.97634	0.97100
#2	4.85131	1.02864	0.49590	0.48447	0.49921	4.79862	0.48690	0.97999	0.97402
Mean	4.83946	1.02654	0.49562	0.48318	0.50182	4.79406	0.48572	0.97817	0.97251
%RSD	0.34606	0.28902	0.08093	0.37903	0.73478	0.13440	0.34621	0.26389	0.21940

	Pb	Se
	calc	calc
#1	0.98406	0.99141
#2	1.00074	1.00802
Mean	0.99240	0.99971
%RSD	1.18862	1.17464

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 16:38:21
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:54
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00059	-0.02259	0.00081	-0.00324	-0.00035	-0.00010	0.00316	0.00828	-0.00008
#2	0.00035	-0.02005	0.00259	-0.00399	-0.00022	-0.00017	0.00190	0.00900	0.00014
Mean	-0.00012	-0.02132	0.00170	-0.00362	-0.00029	-0.00014	0.00253	0.00864	0.00003
%RSD	547.78705	8.43338	74.23767	14.62560	31.09090	35.54394	35.15847	5.89259	588.09378

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	-0.00108	0.00066	0.00301	0.04715	0.00320	-0.00127	-0.00017	0.00048
#2	-0.00032	0.00008	0.00082	0.00226	0.04469	0.00321	0.00699	-0.00005	-0.00092
Mean	-0.00032	-0.00050	0.00074	0.00263	0.04592	0.00320	0.00286	-0.00011	-0.00022
%RSD	0.08245	165.11312	15.30765	20.20321	3.78044	0.12798	204.27519	78.63479	447.80349

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06597	-0.00083	0.07011	-0.00638	0.00103	-0.00434	-0.00250	-0.00989	0.00499
#2	0.06453	-0.00032	0.07011	-0.00430	0.00129	0.00077	-0.00152	-0.00782	0.00131
Mean	0.06525	-0.00057	0.07011	-0.00534	0.00116	-0.00179	-0.00201	-0.00885	0.00315
%RSD	1.56147	62.26294	0.00000	27.55823	15.75285	201.94387	34.73625	16.57903	82.71418

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00767	0.00049	-0.00140	-0.00128	-0.00174	-0.02182	-0.00059	-0.00093	0.00007
#2	0.00677	0.00343	-0.00135	-0.00102	-0.00250	-0.00686	-0.00041	0.00067	0.00034
Mean	0.00722	0.00196	-0.00138	-0.00115	-0.00212	-0.01434	-0.00050	-0.00013	0.00020

%RSD	8.75397	106.23891	2.71107	16.08326	25.43186	73.81104	24.57635	876.56698	94.24341
	Pb		Se						
	calc	calc							
#1	-0.00144	0.00004							
#2	-0.00057	-0.00173							
Mean	-0.00100	-0.00085							
%RSD	61.11200	147.29530							

Method : Paragon2 File : 170620A
SampleId1 : IP170619-8MB SampleId2 :
Analysis commenced : 6/20/2017 16:40:43
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:54
[SAMPLE]
Position : TUBE1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	-0.01826	0.00271	-0.00495	-0.00035	-0.00017	0.00266	0.01116	-0.00067
#2	0.00007	-0.02394	0.00081	-0.00474	-0.00022	-0.00020	-0.00063	0.01008	-0.00023
Mean	-0.00013	-0.02110	0.00176	-0.00484	-0.00029	-0.00018	0.00102	0.01062	-0.00045
%RSD	219.94424	19.05019	76.66572	3.11892	31.09090	9.47827	228.81559	7.19096	69.67527
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00037	-0.00021	0.00065	0.00256	0.04764	0.00318	0.00254	-0.00005	-0.00061
#2	-0.00023	-0.00035	0.00049	0.00196	0.05648	0.00320	0.00635	-0.00005	-0.00108
Mean	0.00007	-0.00028	0.00057	0.00226	0.05206	0.00319	0.00445	-0.00005	-0.00084
%RSD	619.02026	36.26550	19.30914	18.85631	12.00509	0.51426	60.60919	0.00000	39.13037
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06261	0.00077	0.07011	-0.00449	-0.00046	-0.00945	0.00110	0.00162	0.00290
#2	0.06280	-0.00087	0.07011	-0.00321	0.00159	0.00077	0.00190	-0.00518	0.00270
Mean	0.06271	-0.00005	0.07011	-0.00385	0.00056	-0.00434	0.00150	-0.00178	0.00280
%RSD	0.21664	2444.48965	0.00000	23.36121	257.54479	166.34864	37.68541	270.37123	5.01950
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00730	0.00259	-0.00135	-0.00142	-0.00159	0.00811	0.00033	-0.00058	0.00025
#2	0.00484	-0.00245	-0.00138	-0.00105	-0.00444	-0.01722	-0.00013	0.00158	0.00015
Mean	0.00607	0.00007	-0.00137	-0.00123	-0.00301	-0.00455	0.00010	0.00050	0.00020
%RSD	28.67008	5343.00091	1.81900	20.92973	66.68262	393.39398	314.54124	305.78541	36.02999
	Pb	Se							
	calc	calc							
#1	-0.00180	0.00247							
#2	-0.00001	0.00008							
Mean	-0.00091	0.00128							
%RSD	139.50759	132.76868							

ted: 6/20/2017 17:52:08 **User: STEVE WORKMAN**
 Method : Paragon2 File : 170620A
SampleId1 : IP170619-8LCS **SampleId2 :**
Analysis commenced : 6/20/2017 16:43:01
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:54
[SAMPLE]
 Position : TUBE2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10071	2.05968	1.00881	0.10179	1.04498	0.05132	0.00346	0.47776
#2	0.10071	2.06012	1.01072	0.09805	1.05032	0.05138	-0.00438	0.47929
Mean	0.10071	2.05990	1.00977	0.09992	1.04765	0.05135	-0.00046	0.47852
%RSD	0.00435	0.01524	0.13350	2.64648	0.36052	0.08429	1202.30810	0.22626

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48545	0.20436	0.26455	0.99051	38.58368	0.50277	40.53945	0.49305	0.99901
#2	0.48658	0.20570	0.26472	0.99460	38.67270	0.50450	40.67073	0.49528	1.00151
Mean	0.48601	0.20503	0.26463	0.99256	38.62819	0.50363	40.60509	0.49417	1.00026
%RSD	0.16363	0.46136	0.04613	0.29168	0.16296	0.24185	0.22862	0.31993	0.17643

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	39.97642	0.50160	0.07011	0.50705	0.50543	0.01609	0.51968	2.10068	2.06664
#2	40.04227	0.50109	0.07011	0.50715	0.51838	0.01609	0.51128	2.11453	2.12772
Mean	40.00934	0.50134	0.07011	0.50710	0.51191	0.01609	0.51548	2.10760	2.09718
%RSD	0.11638	0.07120	0.00000	0.01372	1.78867	0.00000	1.15237	0.46476	2.05943

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.09102	0.51291	0.51138	0.49351	2.04122	-0.02860	0.51575	0.50705	-0.00044
#2	1.09543	0.51878	0.51260	0.49577	2.03330	-0.03667	0.51839	0.51145	-0.00058
Mean	1.09322	0.51585	0.51199	0.49464	2.03726	-0.03264	0.51707	0.50925	-0.00051
%RSD	0.28485	0.80576	0.16896	0.32303	0.27506	17.47209	0.36106	0.61190	20.21209

	Pb	Se
	calc	calc
#1	0.50597	2.07797
#2	0.51464	2.12333
Mean	0.51031	2.10065
%RSD	1.20132	1.52665

Method : Paragon2 File : 170620A
SampleId1 : 1705515-2 **SampleId2 :**
Analysis commenced : 6/20/2017 16:44:03
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:54
[SAMPLE]
 Position : TUBE3

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00106	0.00116	-0.00098	0.41848	0.62326	-0.00007	0.00063	2.74030	-0.00021
	#2	0.00376	-0.00314	0.41945	0.62123	-0.00011	0.00241	2.74175	-0.00015
Mean	-0.00107	0.00246	-0.00206	0.41897	0.62224	-0.00009	0.00152	2.74103	-0.00018
	%RSD	74.59718	74.36263	0.16230	0.23061	32.50239	82.47737	0.03726	24.82157
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.00029	-0.00039	0.00067	0.36923	4.91103	0.27383	0.82560	0.00774	0.00172
	#2	0.00072	0.00064	0.37074	4.88633	0.27207	0.83195	0.00787	-0.00007
Mean	0.00051	-0.00051	0.00091	0.36998	4.89868	0.27295	0.82877	0.00781	0.00083
	%RSD	59.67403	34.84862	0.28870	0.35657	0.45527	0.54233	1.12064	152.59827
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	441.65555	0.00216	0.07011	-0.00435	0.00099	0.12334	-0.00230	-0.00048	0.00504
	#2	438.46140	0.00208	-0.00451	-0.00043	0.12334	-0.00432	-0.00075	-0.00034
Mean	440.05848	0.00212	-0.03075	-0.00443	0.00028	0.12334	-0.00331	-0.00062	0.00235
	%RSD	0.51325	2.80755	2.54163	360.52439	0.00000	43.31156	32.02002	161.70128
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	9.41606	-0.00330	0.74755	-0.00043	0.00041	-0.02796	-0.00004	0.00220	-0.00178
	#2	9.39125	0.00385	-0.00015	0.00890	-0.01184	-0.00061	0.00188	-0.00139
Mean	9.40366	0.00028	0.74637	-0.00029	0.00465	-0.01990	-0.00032	0.00204	-0.00158
	%RSD	0.18657	1831.81735	68.78405	129.05232	57.26731	125.32256	11.13069	17.68650

Method : Paragon2
File : 170620A
SampleId1 : 1705515-4
SampleId2 :
Analysis commenced : 6/20/2017 16:45:04
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:54
[SAMPLE]
Position : TUBE4

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00069	0.01517	0.00348	0.03565	0.73783	-0.00009	-0.00138	2.59622	-0.00006
	#2	-0.00165	0.01245	0.03683	0.73802	-0.00013	-0.00315	2.60633	-0.00088
Mean	-0.00117	0.01381	0.00195	0.03624	0.73793	-0.00011	-0.00227	2.60128	-0.00047
	%RSD	58.10381	13.96026	2.29338	0.01824	28.48699	55.14971	0.27482	124.15562
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00069	0.01517	0.00348	0.03565	0.73783	-0.00009	-0.00138	2.59622	-0.00006
	#2	-0.00165	0.01245	0.03683	0.73802	-0.00013	-0.00315	2.60633	-0.00088
Mean	-0.00117	0.01381	0.00195	0.03624	0.73793	-0.00011	-0.00227	2.60128	-0.00047
	%RSD	58.10381	13.96026	2.29338	0.01824	28.48699	55.14971	0.27482	124.15562

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00028	0.00009	0.00117	0.32361	4.69762	0.04583	0.00836
	-0.00006	-0.00016	0.00133	0.32497	4.68478	0.04573	0.00824
Mean	0.00011	-0.00003	0.00125	0.32429	4.69120	0.04578	0.00830
%RSD	226.94318	542.28273	9.34089	0.29635	0.19357	0.15229	1.05384

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	388.24323	0.00170	-0.03077	-0.00326	0.00165	0.26122	-0.00432	0.00204	0.00294
#2	387.51629	0.00069	0.07011	-0.00422	0.00108	0.24080	-0.00069	-0.00429	0.00354
Mean	387.87976	0.00119	0.01967	-0.00374	0.00137	0.25101	-0.00251	-0.00113	0.00324
%RSD	0.13252	59.81478	362.69451	18.05801	29.42295	5.75435	102.32232	397.20152	13.03444

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.97452	0.00427	0.43660	0.00024	0.00336	-0.01870	-0.00010	-0.00088	-0.00104
#2	6.96533	-0.00035	0.43692	0.00006	-0.00062	-0.01180	-0.00033	-0.00089	-0.00149
Mean	6.96993	0.00196	0.43676	0.00015	0.00137	-0.01525	-0.00022	-0.00088	-0.00127
%RSD	0.09326	167.08557	0.05161	82.68474	205.85504	32.02856	73.95631	0.86938	25.22436

	Pb	Se
	calc	calc
#1	0.00001	0.00264
#2	-0.00068	0.00093
Mean	-0.00033	0.00179
%RSD	147.23030	67.56212

Method : Paragon2
SampleId1 : 1705609-1
SampleId2 :
Analysis commenced : 6/20/2017 16:46:06
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:55
[SAMPLE]
Position : TUBE5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00025	5.94307	0.00475	0.01685	0.12300	0.00022	0.00187	32.55039	0.00093
#2	0.00016	5.96034	0.00513	0.01546	0.12325	0.00025	0.00187	32.42536	-0.00002
Mean	0.00020	5.95171	0.00494	0.01615	0.12312	0.00023	0.00187	32.48787	0.00045
%RSD	29.91240	0.20516	5.46240	6.08135	0.14522	9.11584	0.08471	0.27212	148.55921

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00297	0.00702	0.02425	5.40702	2.59234	0.00960	3.50915	0.15108	0.00110
#2	0.00220	0.00578	0.02392	5.39815	2.58052	0.00960	3.49897	0.15084	-0.00053
Mean	0.00259	0.00640	0.02408	5.40258	2.58643	0.00960	3.50406	0.15096	0.00028
%RSD	21.25622	13.75843	0.97406	0.11617	0.32322	0.00000	0.20541	0.11603	405.97192

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1									
#2									
Mean									
%RSD									

#1	3.09756	0.00738	0.27202	0.01373	0.00722	1.92532	0.00430	-0.00088	-0.00098
#2	3.03966	0.00750	0.37304	0.00645	0.00992	1.94063	0.00449	-0.00634	0.00500
Mean	3.06861	0.00744	0.32253	0.01009	0.00857	1.93298	0.00440	-0.00361	0.00201
%RSD	1.33433	1.19936	22.14849	50.97115	22.28867	0.55997	3.09384	106.81881	210.18280

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	14.42901	0.00703	0.15617	-0.00201	0.00597	0.01417	0.17836	0.00000
#2	14.44339	0.00619	0.15657	0.00672	-0.00438	0.01256	0.17644	-0.00053
Mean	14.43620	0.00661	0.15637	0.00235	0.00080	0.01337	0.17740	-0.00027
%RSD	0.07045	8.99975	0.18090	262.61523	919.87022	8.52068	0.76371	143.59236

	Pb	Se
	calc	calc
#1	0.00939	-0.00095
#2	0.00877	0.00122
Mean	0.00908	0.00014
%RSD	4.83413	1116.60870

Method : Paragon2 File : 170620A
SampleId1 : 1706114-21 SampleId2 :
Analysis commenced : 6/20/2017 16:47:08
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:55
[SAMPLE]
Position : TUBE6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00003	1.41374	0.00564	0.05990	0.03370	0.00009	0.00020	13.53095	0.00019
#2	0.01766	1.51047	0.03223	0.07924	0.03547	0.00043	0.06151	15.25585	0.00405
Mean	0.00882	1.46210	0.01894	0.06957	0.03458	0.00026	0.03086	14.39340	0.00212
%RSD	141.92752	4.67814	99.29434	19.65521	3.61698	91.17191	140.52256	8.47395	128.99790

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00090	0.00060	0.00773	0.76563	5.76621	0.02467	7.18967	0.03175	0.11848
#2	0.01581	0.01605	0.02004	0.84379	6.04471	0.02559	8.01649	0.03620	0.13606
Mean	0.00836	0.00833	0.01388	0.80471	5.90546	0.02513	7.60308	0.03397	0.12727
%RSD	126.22438	131.16426	62.67268	6.86766	3.33473	2.57842	7.68967	9.27145	9.76892

	Na	Ni	P	Pb	Pb II	S	Sb	Se	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	120.83415	0.00220	0.27202	-0.00383	-0.00006	9.51406	0.00298	0.00588	-0.00178
#2	124.10450	0.01802	0.37304	0.10056	-0.05320	9.73773	0.04730	0.08878	-0.03801
Mean	122.46933	0.01011	0.32253	0.04836	-0.02663	9.62589	0.02514	0.04733	-0.01990
%RSD	1.88822	110.60878	22.14849	152.63482	141.08923	1.64305	124.68548	123.84668	128.77317

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.25618	0.00551	0.01706	0.00066	-0.00074	0.00299	0.01154	-0.00089

#2	8.62711	0.04164	0.51166	0.02421	0.03453	0.32155	0.01732	0.02897	0.00842
Mean	8.44164	0.02357	0.51245	0.02064	0.01759	0.16041	0.01015	0.02026	0.00377
%RSD	3.10707	108.37575	0.21774	24.50275	136.15538	142.07153	99.80117	60.81706	174.72620
		Pb	Se						
		calc	calc						
#1	-0.00132		0.00077						
#2	-0.00200		0.00421						
Mean	-0.00166		0.00249						
%RSD	28.94898		97.59376						

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:55

SampleId1 : 1706114-22 SampleId2 : [SAMPLE]

Analysis commenced : 6/20/2017 16:48:10

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE7

Final concentrations

#1	-0.00051	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	-0.00012		0.00896	0.00157	-0.00057	0.00009	-0.00014	0.00317	0.05904	0.00015
Mean	-0.00032		0.00638	0.00011	-0.00116	0.00012	-0.00016	0.00001	0.05922	0.00009
%RSD	85.94796		57.23659	1948.06829	71.73422	36.23657	16.16455	76892.31375	0.42987	98.33089
#1	0.00046	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	-0.00049		-0.00040	0.00099	-0.15333	0.01376	21.96813	0.00953	0.00069	0.00001
Mean	-0.00002		-0.00052	0.00074	-0.15356	0.02284	21.94301	0.00286	0.00063	0.00032
%RSD	4001.36485		32.41549	48.14142	0.20800	56.23544	0.16190	329.98251	13.86278	136.05759
#1	0.15295	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	0.14266		0.00460	0.07011	0.00069	0.00191	0.02119	-0.00070	0.00691	0.00298
Mean	0.14781		0.00412	0.07011	-0.00078	0.00091	0.00077	0.00212	-0.00635	0.00417
%RSD	4.92153		16.61711	0.00000	-0.00004	0.00141	0.01098	0.00071	0.00028	0.00358
#1	0.03072	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	0.02826		-0.00414	-0.00105	-0.00124	0.00671	-0.00554	0.00041	0.01429	0.00012
Mean	0.02949		-0.00309	-0.00104	-0.00117	0.00401	-0.00785	-0.00011	0.01366	0.00010
%RSD	5.90062		48.15560	1.19350	8.38698	95.14762	41.50360	681.43014	3.19046	12.44001
#1	0.00151	Pb	Se							
#2	0.00035	calc	calc							

Mean 0.00093 0.00248ser: STEVE WORKMAN
%RSD 88.33443 103.16052

Method : Paragon2 File : 170620A
SampleId1 : 1706114-23 SampleId2 :
Analysis commenced : 6/20/2017 16:49:12
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:55
[SAMPLE]

Position : TUBE8

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00064	1.80479	0.00450	0.06546	0.04153	0.00009	0.00021	16.03009	-0.00007
#2	-0.00059	1.78120	-0.00148	0.06461	0.04160	0.00004	0.00172	15.99490	0.00000
Mean	0.00003	1.79300	0.00151	0.06503	0.04156	0.00006	0.00096	16.01249	-0.00003
%RSD	3175.23356	0.92995	280.81530	0.92940	0.10749	55.59062	111.00527	0.15540	157.72044

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00072	0.00138	0.00639	0.96928	5.96011	0.03370	7.65274	0.03645	0.11560
#2	0.00064	0.00102	0.00623	0.96928	5.94082	0.03280	7.63872	0.03645	0.11630
Mean	0.00068	0.00120	0.00631	0.96928	5.95047	0.03325	7.64573	0.03645	0.11595
%RSD	9.01387	20.86932	1.80940	0.00000	0.22927	1.91160	0.12961	0.00000	0.42699

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	120.76229	0.00145	0.07011	0.00000	0.00088	9.28528	-0.00168	-0.00900	0.00243
#2	120.34824	0.00081	0.27202	-0.00348	0.00285	9.23444	-0.00147	-0.00783	0.00084
Mean	120.55526	0.00113	0.17106	-0.00174	0.00187	9.25986	-0.00158	-0.00841	0.00163
%RSD	0.24286	39.47105	83.46053	141.55243	74.90985	0.38825	9.38146	9.78353	68.99454

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.58031	0.00256	0.53996	0.02294	0.01252	-0.00901	0.00281	0.01716	-0.00078
#2	9.56420	0.00172	0.53945	0.02320	0.00121	-0.02282	0.00310	0.01652	-0.00129
Mean	9.57225	0.00214	0.53971	0.02307	0.00687	-0.01592	0.00295	0.01684	-0.00104
%RSD	0.11902	27.78569	0.06740	0.79985	116.54106	61.38287	6.86015	2.66878	34.87056

	Pb	Se
	calc	calc
#1	0.00059	-0.00138
#2	0.00074	-0.00205
Mean	0.00066	-0.00171
%RSD	16.79313	27.84920

Method : Paragon2 File : 170620A
SampleId1 : 1706114-24 SampleId2 :
Analysis commenced : 6/20/2017 16:50:14
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:55
[SAMPLE]

Position : TUBE9

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00163	2.22685	0.00195	0.06696	0.04798	0.00019	-0.00332	21.13916	-0.00026
#2	-0.00118	2.21003	-0.00034	0.06824	0.04735	0.00009	-0.00585	21.07797	-0.00043
Mean	-0.00141	2.21844	0.00081	0.06760	0.04766	0.00014	-0.00458	21.10856	-0.00034
%RSD	23.05557	0.53639	200.91887	1.34121	0.93739	45.89977	38.90835	0.20499	35.24564
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00029	0.00127	0.00741	1.67631	6.01156	0.02876	8.35543	0.06132	0.11809
#2	0.00089	0.00109	0.00706	1.67494	5.97001	0.02828	8.32612	0.06169	0.11630
Mean	0.00059	0.00118	0.00723	1.67562	5.99079	0.02852	8.34078	0.06151	0.11720
%RSD	71.91283	10.65678	3.41881	0.05784	0.49051	1.17923	0.24847	0.42685	1.07962
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	120.42449	0.00258	0.37304	-0.00677	0.00335	9.21410	0.00035	-0.00475	-0.00166
#2	119.24682	0.00267	0.37304	-0.00321	0.00371	9.25477	-0.00187	0.00352	0.00312
Mean	119.83566	0.00262	0.37304	-0.00499	0.00353	9.23444	-0.00076	-0.00061	0.00073
%RSD	0.69490	2.26739	0.00000	50.42985	7.15450	0.31146	207.13691	956.39414	463.73352
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	10.73186	0.00382	0.54748	0.02781	-0.00003	-0.02816	0.00333	0.02056	-0.00139
#2	10.65403	-0.00249	0.54454	0.02807	0.00307	-0.00398	0.00338	0.01932	-0.00073
Mean	10.69295	0.00066	0.54601	0.02794	0.00152	-0.01607	0.00335	0.01994	-0.00106
%RSD	0.51469	672.16129	0.38137	0.66040	143.96373	106.38764	1.19744	4.42524	43.52610
	Pb	Se							
	calc	calc							
#1	-0.00002	-0.00269							
#2	0.00140	0.00325							
Mean	0.00069	0.00028							
%RSD	145.25200	1487.40100							

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:56
SampleId1 : 1706114-25 SampleId2 :
Analysis commenced : 6/20/2017 16:51:16 [SAMPLE]
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE10

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00026	0.57411	0.00106	0.07198	0.03989	0.00006	0.00169	14.76116	0.00001
#2	0.00044	0.56700	0.00221	0.07209	0.03989	0.00001	0.00750	14.84353	-0.00014
Mean	0.00035	0.57055	0.00163	0.07203	0.03989	0.00003	0.00460	14.80235	-0.00007
%RSD	37.38499	0.88072	49.58338	0.10489	0.00000	117.81477	89.54325	0.39347	158.17984

ted: 6/20/2017 17:52:08 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00032	0.00004	0.00773	0.22428	5.70093	0.02519	6.61777	0.03026	0.13326
#2	0.00006	0.00064	0.00756	0.22367	5.69005	0.02499	6.62350	0.03076	0.13373
Mean	0.00019	0.00034	0.00765	0.22398	5.69549	0.02509	6.62063	0.03051	0.13349
%RSD	95.16938	123.69565	1.59171	0.19059	0.13508	0.57216	0.06121	1.14711	0.24726

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	124.36952	0.00275	0.17104	-0.00085	-0.00034	9.97662	0.00090	0.00470	-0.00155
#2	124.34417	0.00128	0.17104	-0.00120	-0.00012	9.96137	0.00030	0.00618	0.00134
Mean	124.35685	0.00201	0.17104	-0.00103	-0.00023	9.96900	0.00060	0.00544	-0.00011
%RSD	0.01442	51.69790	0.00000	23.88591	66.26976	0.10815	71.31115	19.23505	1900.12410

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	5.83337	0.00090	0.51063	0.00742	-0.00128	-0.00709	0.00154	0.01493	-0.00075
#2	5.84361	0.00216	0.51035	0.00782	0.00296	-0.00018	0.00228	0.01558	-0.00071
Mean	5.83849	0.00153	0.51049	0.00762	0.00084	-0.00363	0.00191	0.01525	-0.00073
%RSD	0.12410	58.34757	0.03929	3.71265	357.76206	134.54604	27.66540	2.99694	3.82473

	Pb	Se
	calc	calc
#1	-0.00051	0.00053
#2	-0.00048	0.00295
Mean	-0.00050	0.00174
%RSD	3.99375	98.33357

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 16:52:49
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:56
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19853	50.99038	0.50030	0.97847	1.00772	0.48895	0.48408	49.57502	0.46597
#2	0.19851	51.11152	0.49814	0.97996	1.01205	0.49063	0.47654	49.57616	0.46537
Mean	0.19852	51.05095	0.49922	0.97922	1.00989	0.48979	0.48031	49.57559	0.46567
%RSD	0.00713	0.16779	0.30620	0.10802	0.30269	0.24264	1.11058	0.00163	0.09138

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.46929	0.97491	0.99647	18.99108	50.59734	0.49992	50.97223	0.95750	0.98248
#2	0.47015	0.97659	1.00268	19.04088	50.75959	0.50216	51.04454	0.96012	0.97873
Mean	0.46972	0.97575	0.99957	19.01598	50.67847	0.50104	51.00838	0.95881	0.98060
%RSD	0.13004	0.12196	0.43926	0.18519	0.22638	0.31677	0.10023	0.19311	0.26994

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	50.98644	0.96614	4.86506	0.99783	0.98698	5.16289	0.50200	1.01354	0.98229
#2	51.10135	0.96643	4.96822	0.99994	1.00913	5.19855	0.50497	1.01400	1.02355
Mean	51.04390	0.96628	4.91664	0.99888	0.99806	5.18072	0.50349	1.01377	1.00292
%RSD	0.15919	0.02155	1.48360	0.14932	1.56951	0.48673	0.41633	0.03186	2.90971
	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	4.83105	1.03326	0.49680	0.48220	0.50557	4.78495	0.49003	0.98916	0.97713
#2	4.85237	1.04039	0.49811	0.48470	0.50713	4.80214	0.48925	0.98799	0.97919
Mean	4.84171	1.03683	0.49746	0.48345	0.50635	4.79355	0.48964	0.98857	0.97816
%RSD	0.31146	0.48660	0.18645	0.36611	0.21741	0.25362	0.11383	0.08371	0.14878
	Pb calc	Se calc							
#1	0.99059	0.99269							
#2	1.00607	1.02037							
Mean	0.99833	1.00653							
%RSD	1.09633	1.94450							

Method : Paragon2
File : 170620A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 6/20/2017 16:55:16
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 6/20/2017 17:51:56
[CB]
Position : STD2

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00003	-0.01425	0.00233	-0.00281	-0.00016	-0.00007	0.00140	0.01188	-0.00029
#2	-0.00003	-0.01284	-0.00085	-0.00410	-0.00022	-0.00011	0.00064	0.01260	-0.00038
Mean	-0.00003	-0.01354	0.00074	-0.00346	-0.00019	-0.00009	0.00102	0.01224	-0.00033
%RSD	0.00001	7.40093	302.96694	26.23526	23.19418	33.23510	52.65504	4.15948	20.03224
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00023	-0.00101	0.00015	0.00286	0.05206	0.00336	0.00826	-0.00005	0.00063
#2	-0.00032	-0.00020	0.00066	0.00391	0.05648	0.00339	0.00635	-0.00005	-0.00108
Mean	-0.00028	-0.00060	0.00040	0.00339	0.05427	0.00338	0.00731	-0.00005	-0.00022
%RSD	22.28079	94.82851	89.07789	21.99911	5.75816	0.48598	18.44628	0.00000	547.31622
	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.07673	-0.00116	0.07011	-0.00433	0.00186	0.01098	0.00011	0.00514	0.00181
#2	0.07645	-0.00003	0.07011	-0.00520	0.00113	-0.00945	-0.00232	-0.01061	-0.00138
Mean	0.07659	-0.00059	0.07011	-0.00476	0.00149	0.00077	-0.00110	-0.00274	0.00021
%RSD	0.26610	135.13374	0.00000	12.88885	34.52257	1887.56770	155.73980	406.91722	1060.56252
	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1									
#2									
Mean									
%RSD									

#1	ppm	0.00696	ppm	0.00679	ppm	-0.00135	ppm	-0.00131	ppm	0.00264	ppm	-0.00686	ppm	-0.00053	ppm	0.00031	ppm	0.00007
#2		0.00484		-0.00245		-0.00131		-0.00102		0.00302		-0.00801		-0.00018		0.00004		0.00027
Mean		0.00590		0.00217		-0.00133		-0.00116		0.00283		-0.00743		-0.00036		0.00018		0.00017
%RSD		25.44983		301.57140		1.86703		17.95543		9.61761		10.96429		68.67009		110.13386		85.64633

	Pb	Se
	calc	calc
#1	-0.00020	0.00292
#2	-0.00098	-0.00446
Mean	-0.00059	-0.00077
%RSD	92.62600	676.93591

Method : Paragon2
 File : 170620A
 SampleId1 : 1706114-26
 SampleId2 :
 Analysis commenced : 6/20/2017 16:56:24
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:56
 [SAMPLE]
 Position : TUBE11

Final concentrations

#1	Ag	ppm	Al	ppm	As	ppm	B	ppm	Ba	ppm	Be	ppm	Bi	ppm	Ca	ppm	Cd	ppm
#2	-0.00080	0.63090	0.63090	0.00424	-0.00276	0.07112	0.07144	0.04602	0.04621	0.00011	0.00007	0.00422	18.90936	18.97703	-0.00058			
Mean	-0.00098	0.62522	0.62522	0.00074	0.07128	0.07128	0.07128	0.04611	0.04611	0.00009	0.00009	-0.00097	18.94320	-0.00049				
%RSD	26.52561	1.28479	666.53175	0.31796	0.29065	28.03547	756.31676	0.25259	0.25259	0.25259	0.25259	0.25259	0.25259	28.32490				

#1	Co	ppm	Cr	ppm	Cu	ppm	Fe	ppm	K	ppm	Li	ppm	Mg	ppm	Mn	ppm	Mo	ppm
#2	0.00025	-0.00029	0.00807	0.44843	0.45024	5.94824	5.90768	0.02500	0.02500	8.32230	8.29108	0.04536	0.04560	0.12813				
Mean	0.00033	-0.00032	0.00799	0.44933	0.44933	5.92796	5.92796	0.02494	0.02494	8.30669	8.30669	0.04548	0.04548	0.12754				
%RSD	36.69503	14.97838	1.40183	0.28505	0.28505	0.48387	0.48387	0.31241	0.31241	0.26576	0.26576	0.38479	0.38479	0.64700				

#1	Na	ppm	Ni	ppm	P	ppm	Pb I	ppm	Pb II	ppm	S	ppm	Sb	ppm	Se I	ppm	Se II	ppm
#2	128.45752	0.00237	0.00237	0.27202	0.37304	-0.00264	-0.00483	0.00340	0.00340	9.90546	9.90546	0.00387	-0.00036	-0.00310	0.00027			
Mean	128.12730	0.00168	0.00168	0.32253	0.32253	-0.00373	-0.00373	0.00201	0.00201	9.90546	9.90546	0.00175	-0.00127	0.00331				
%RSD	0.36449	58.52381	58.52381	22.14849	22.14849	41.32598	41.32598	97.47003	97.47003	0.00000	0.00000	170.74410	204.35601	129.86947				

#1	Si	ppm	Sn	ppm	Ti	ppm	Tl	ppm	U	ppm	V	ppm	Zn	ppm	Zr	ppm
#2	6.12388	0.00426	0.00426	0.61817	0.61618	0.00735	0.00747	-0.00289	0.00074	0.00153	0.01864	0.01864	-0.00045			
Mean	6.11354	0.00174	0.00174	0.61717	0.61717	0.00741	0.00741	-0.00347	-0.00905	0.00156	0.01817	0.01817	-0.00042			
%RSD	0.23918	205.21742	205.21742	0.22790	0.22790	1.16176	1.16176	23.76110	153.02586	2.61539	3.63116	3.63116	11.13251			

	Pb	Se
	calc	calc
#1	6.12388	0.00426
#2	6.10320	-0.00078
Mean	6.11354	0.00174
%RSD	0.23918	205.21742

#1 0.00139 -0.00085 **ser: STEVE WORKMAN**
#2 -0.00119 0.00442
Mean 0.00010 0.00178
%RSD 1820.58281 208.90784

Method : Paragon2 File : 170620A
SampleId1 : 1706114-27 SampleId2 :
Analysis commenced : 6/20/2017 16:57:26
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:56
[**SAMPLE**]
Position : TUBE12

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	1.38463	0.00615	0.05958	0.05562	0.00010	-0.00031	17.13599	-0.00050
#2	-0.00003	1.36583	0.00322	0.06247	0.05531	0.00005	0.00298	17.11140	-0.00032
Mean	-0.00017	1.37523	0.00469	0.06103	0.05547	0.00007	0.00133	17.12370	-0.00041
%RSD	114.81254	0.96651	44.15225	3.34267	0.40277	52.33916	174.62897	0.10154	32.39312
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00076	0.00028	0.00622	0.97987	5.89828	0.02525	7.48903	0.04103	0.12548
#2	0.00145	0.00145	0.00723	0.97411	5.85920	0.02508	7.46164	0.04090	0.12750
Mean	0.00110	0.00087	0.00672	0.97699	5.87874	0.02517	7.47534	0.04096	0.12649
%RSD	44.35464	95.30311	10.62318	0.41650	0.47004	0.48890	0.25909	0.21360	1.13077

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	119.03888	0.00161	0.37304	-0.00526	0.00381	9.33612	0.00284	0.00014	0.00084
#2	118.21551	0.00338	0.27202	-0.00007	0.00022	9.27003	0.00144	-0.00383	0.00532
Mean	118.62720	0.00250	0.32253	-0.00267	0.00202	9.30307	0.00214	-0.00185	0.00308
%RSD	0.49079	50.02117	22.14849	137.78526	125.79017	0.50237	46.09303	151.94084	102.94609

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.27179	-0.00080	0.51565	0.01718	-0.00238	-0.00326	0.00270	0.01401	-0.00079
#2	8.19570	0.00341	0.51056	0.01680	-0.00842	0.00020	0.00292	0.01344	-0.00071
Mean	8.23374	0.00131	0.51310	0.01699	-0.00540	-0.00153	0.00281	0.01373	-0.00075
%RSD	0.65344	227.50797	0.70127	1.59296	79.15677	159.71382	5.78134	2.92919	7.17136

	Pb	Se
	calc	calc
#1	0.00079	0.00060
#2	0.00013	0.00227
Mean	0.00046	0.00144
%RSD	102.52988	81.95680

Method : Paragon2 File : 170620A
SampleId1 : 1706114-28 SampleId2 :
Analysis commenced : 6/20/2017 16:58:28

Printed : 6/20/2017 17:51:57
[**SAMPLE**]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE13

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00098	0.51886	0.00488	0.06439	0.04438	0.00001	0.00194	13.31639	-0.00004
#2	0.00092	0.51631	0.00093	0.06108	0.04431	-0.00001	-0.00135	13.33722	0.00029
Mean	-0.00003	0.51758	0.00291	0.06274	0.04434	0.00000	0.00029	13.32680	0.00012
%RSD	4437.38441	0.34873	95.99487	3.73329	0.10075	1881.46863	788.76531	0.11053	192.15519

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00067	0.00009	0.00504	0.33828	5.76670	0.02398	6.42673	0.02482	0.13917
#2	0.00110	0.00068	0.00571	0.33888	5.78698	0.02401	6.41591	0.02506	0.14096
Mean	0.00089	0.00038	0.00537	0.33858	5.77684	0.02399	6.42132	0.02494	0.14007
%RSD	34.37913	109.80798	8.77929	0.12601	0.24822	0.08547	0.11920	0.70157	0.90338

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	121.81472	0.00065	0.17104	-0.00048	-0.00123	9.66656	0.00115	-0.00311	0.00095
#2	121.77248	0.00241	0.37304	0.00045	0.00066	9.73264	-0.00286	0.00338	0.00314
Mean	121.79360	0.00153	0.27204	-0.00001	-0.00028	9.69960	-0.00085	0.00014	0.00205
%RSD	0.02452	81.65239	52.50584	4455.84320	474.51381	0.48174	332.55015	3350.91370	75.62029

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.01877	0.00216	0.49833	0.00855	0.00157	-0.01066	0.00208	0.00997	-0.00084
#2	6.02372	-0.00457	0.49881	0.00845	-0.00421	0.00316	0.00156	0.01062	-0.00051
Mean	6.02125	-0.00121	0.49857	0.00850	-0.00132	-0.00375	0.00182	0.01029	-0.00068
%RSD	0.05818	394.45663	0.06788	0.86840	309.77064	260.54395	20.00821	4.43892	34.28504

Method : Paragon2 File : 170620A

SampleId1 : 1706114-29

SampleId2 :

Analysis commenced : 6/20/2017 16:59:30

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:57

[SAMPLE]

Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00182	6.87758	0.00335	0.06899	0.09860	0.00041	0.00346	37.16105	-0.00041
#2	-0.00060	6.84027	0.00729	0.06888	0.09803	0.00034	-0.00538	37.17042	-0.00009

Mean	-0.00121	6.85892	0.00532	0.06893	0.09831	0.00037	-0.00096	37.16573	-0.00025
%RSD	71.49219	0.38469	52.39711	0.10960	0.40914	13.20498	651.15003	0.01784	92.30828
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00150	0.00454	0.01162	4.41572	8.07135	0.03348	11.87187	0.12632	0.14143
#2	0.00253	0.00570	0.01212	4.40860	7.98704	0.03324	11.84635	0.12582	0.14159
Mean	0.00202	0.00512	0.01187	4.41216	8.02919	0.03336	11.85911	0.12607	0.14151
%RSD	36.13317	15.94924	2.93713	0.11399	0.74257	0.51632	0.15213	0.27782	0.07776
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	123.73103	0.00536	0.37304	-0.00359	0.00596	9.73264	-0.00046	-0.00122	0.00457
#2	123.27491	0.00578	0.47412	-0.00089	0.00542	9.66148	-0.00288	0.00470	0.00168
Mean	123.50297	0.00557	0.42358	-0.00224	0.00569	9.69706	-0.00167	0.00174	0.00313
%RSD	0.26115	5.34183	16.87266	85.39123	6.66863	0.51893	102.56655	240.24055	65.35224
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	24.10687	-0.00089	0.58480	0.10185	0.00182	-0.03215	0.00796	0.02536	-0.00179
#2	24.03678	0.00583	0.58003	0.10409	-0.00266	-0.00796	0.00905	0.02541	-0.00128
Mean	24.07183	0.00247	0.58242	0.10297	-0.00042	-0.02006	0.00850	0.02538	-0.00154
%RSD	0.20588	192.65049	0.57972	1.54092	756.19972	85.27617	9.06540	0.14153	23.35384
	Pb	Se							
	calc	calc							
#1	0.00278	0.00264							
#2	0.00332	0.00269							
Mean	0.00305	0.00266							
%RSD	12.58965	1.12236							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:57

SampleId1 : 1706114-30 50X

SampleId2 :

[SAMPLE]

Analysis commenced : 6/20/2017 17:00:32

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE15

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00017	-0.01018	0.00335	-0.00442	0.00028	-0.00008	0.00797	0.03276	-0.00003
#2	-0.00051	-0.00845	0.00081	-0.00442	0.00034	-0.00013	-0.00568	0.03312	-0.00018
Mean	-0.00017	-0.00931	0.00208	-0.00442	0.00031	-0.00010	0.00114	0.03294	-0.00011
%RSD	279.33028	13.13301	86.57636	0.00000	14.28107	33.71013	844.43059	0.77281	97.47506
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	-0.00088	0.00049	0.00738	0.06974	0.48213	0.00699	0.00589	0.00063
#2	-0.00041	-0.00032	0.00049	0.00707	0.08349	0.47605	0.00699	0.00576	-0.00061
Mean	-0.00032	-0.00060	0.00049	0.00723	0.07661	0.47909	0.00699	0.00583	0.00001

%RSD	38.23646	65.70286	0.86867	2.94634	12.69028	0.89714	0.00000	1.50130	7174.27830
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.25435	0.00002	0.07011	-0.00043	0.00165	0.00587	0.00192	0.00174	0.00181
Mean	0.24771	-0.00040	0.07011	-0.00376	0.00001	0.01098	-0.00272	0.00514	0.00310
%RSD	3.79141	152.78424	0.00000	112.37356	140.47262	42.85877	823.18395	69.79827	37.30229
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.01189	0.00049	-0.00012	-0.00086	-0.00302	-0.01722	0.00010	0.00280	0.00009
Mean	0.01056	0.00028	-0.00007	-0.00079	0.00418	-0.00571	0.00039	0.00220	0.00025
%RSD	17.74608	107.53293	113.26390	5.96109	874.18306	71.00563	82.17270	16.83357	68.94590
	Pb	Se							
	calc	calc							
#1	0.00095	0.00179							
#2	-0.00125	0.00378							
Mean	-0.00015	0.00278							
%RSD	1062.99402	50.68851							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:57

SampleId1 : 1706114-30D 50X

SampleId2 :

[SAMPLE]

Analysis commenced : 6/20/2017 17:01:34

Dilution ratio : 1.00000 to 1.00000

Position : TUBE16

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	-0.00117	-0.00882	0.00322	-0.00559	0.00028	-0.00011	-0.00190	0.02232	0.00023
%RSD	0.00045	-0.01449	-0.00136	-0.00463	0.00022	-0.00016	-0.00063	0.02304	-0.00047
	-0.00036	-0.01165	0.00093	-0.00511	0.00025	-0.00013	-0.00126	0.02268	-0.00012
	320.89284	34.40234	347.05378	13.30175	17.89528	24.11296	71.04859	2.24481	407.74976
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	-0.00049	-0.00059	-0.00001	0.00482	0.07170	0.46720	0.00318	0.00391	-0.00061
Mean	-0.00023	-0.00003	0.00066	0.00557	0.06826	0.46646	0.00763	0.00403	-0.00014
%RSD	-0.00036	-0.00031	0.00032	0.00519	0.06998	0.46683	0.00540	0.00397	-0.00038
	50.44726	127.09428	146.67104	10.24809	3.47306	0.11245	58.23236	2.20281	87.61604
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.18094	0.00027	0.07011	-0.00136	0.00271	0.00587	-0.00050	-0.00665	0.00161
Mean	0.17844	0.00010	0.07011	-0.00331	-0.00009	0.00587	0.00473	-0.00046	0.00479
%RSD	0.17969	0.00018	0.07011	-0.00234	0.00131	0.00587	0.00211	-0.00356	0.00320
	0.98405	64.69619	0.00000	58.95675	151.44951	0.00000	175.24053	122.97943	70.40871

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00009	-0.00119	-0.00091	0.00109	-0.02183	-0.00041	0.00250	-0.00020
#2	0.00484	-0.00203	-0.00081	-0.00251	-0.01607	-0.00007	0.00160	0.00019
Mean	0.00247	-0.00161	-0.00086	-0.00071	-0.01895	-0.00024	0.00205	0.00000
%RSD	136.26756	36.81269	8.57998	359.17089	21.48073	101.57905	31.24214	6774.11278

	Pb	Se
	calc	calc
#1	0.00136	-0.00114
#2	-0.00116	0.00304
Mean	0.00010	0.00095
%RSD	1852.38119	311.86179

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:51:57

SampleId1 : 1706114-30L 250X SampleId2 :

Analysis commenced : 6/20/2017 17:02:36 [SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE17

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00003	-0.01076	0.00004	-0.00388	0.00022	-0.00009	0.00039	0.03276	-0.00069
#2	-0.00061	-0.01195	0.00360	-0.00367	0.00028	-0.00014	0.00039	0.03348	-0.00013
Mean	-0.00032	-0.01136	0.00182	-0.00378	0.00025	-0.00012	0.00039	0.03312	-0.00041
%RSD	128.87193	7.41285	138.11778	4.00139	17.89528	34.20179	0.59590	1.53722	96.93159

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00080	0.00013	0.00083	0.01174	0.09429	0.09533	0.00763	0.00440	-0.00248
#2	0.00020	0.00012	0.00099	0.01174	0.12425	0.09430	0.01207	0.00440	0.00009
Mean	0.00050	0.00012	0.00091	0.01174	0.10927	0.09481	0.00985	0.00440	-0.00119
%RSD	85.33854	4.00154	12.72061	0.00000	19.38503	0.76996	31.93390	0.00000	152.09269

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19844	0.00027	0.07011	-0.00203	-0.00268	-0.00945	0.00088	0.00028	0.00061
#2	0.19623	0.00111	0.07011	0.00037	0.00224	-0.00434	0.00111	0.00073	-0.00158
Mean	0.19734	0.00069	0.07011	-0.00083	-0.00022	-0.00690	0.00100	0.00050	-0.00048
%RSD	0.79279	86.38076	0.00000	205.15166	1589.67473	52.37254	15.93636	63.58465	320.38491

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00430	-0.00031	-0.00095	0.00675	-0.01147	0.00057	0.00284	0.00019
#2	0.00149	-0.00035	-0.00086	0.00175	-0.00111	0.00011	0.00346	0.00021
Mean	0.00290	0.00049	-0.00090	0.00425	-0.00629	0.00034	0.00315	0.00020
%RSD	68.48860	977.09910	6.80589	83.30346	116.49630	96.70006	13.89698	7.39830

Seser: STEVE WORKMAN

Pb		calc
#1	-0.00246	0.00050
#2	0.00162	-0.00081
Mean	-0.00042	-0.00016
%RSD	683.37698	597.44804

Method : Paragon2

File : 170620A

SampleId1 : 1706114-30MS 50X SampleId2 :

Analysis commenced : 6/20/2017 17:03:38

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:58

[SAMPLE]

Position : TUBE18

Final concentrations

Ag		Al	As	B	Ba	Be	Bi	Ca	Cd
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00188	0.03547	0.02409	-0.00111	0.02100	0.00090	0.00498	0.81794	0.00985
#2	0.00121	0.03099	0.02269	-0.00217	0.02081	0.00089	0.00295	0.81506	0.00967
Mean	0.00154	0.03323	0.02339	-0.00164	0.02091	0.00089	0.00396	0.81650	0.00976
%RSD	30.38860	9.54674	4.23102	46.08647	0.64102	0.93211	36.12363	0.24965	1.29259

Co		Cr	Cu	Fe	K	Li	Mg	Mn	Mo
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01099	0.00468	0.00605	0.02559	0.77519	0.48036	0.80653	0.01430	0.02132
#2	0.01004	0.00328	0.00605	0.02544	0.78257	0.47638	0.79763	0.01405	0.01806
Mean	0.01052	0.00398	0.00605	0.02552	0.77888	0.47837	0.80208	0.01418	0.01969
%RSD	6.38503	25.02687	0.04207	0.41721	0.66930	0.58813	0.78453	1.23411	11.73155

Na		Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.91783	0.01112	0.07011	0.01625	0.01174	0.01098	0.01113	0.03974	0.04393
#2	0.91075	0.01116	0.07011	0.00795	0.01209	-0.01456	0.00628	0.03870	0.04054
Mean	0.91429	0.01114	0.07011	0.01210	0.01191	-0.00179	0.00871	0.03922	0.04223
%RSD	0.54707	0.26696	0.00000	48.48166	2.02265	1009.69790	39.38509	1.87010	5.66831

Si		Sn	Sr	Ti	Tl	U	V	Zn	Zr
ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02442	0.01098	0.00987	0.00888	0.04389	-0.00343	0.01062	0.01327	0.00025
#2	0.02247	0.00342	0.00975	0.00904	0.03888	-0.01033	0.00981	0.01259	0.00023
Mean	0.02345	0.00720	0.00981	0.00896	0.04139	-0.00688	0.01021	0.01293	0.00024
%RSD	5.88736	74.30093	0.88751	1.23559	8.56670	71.00280	5.57529	3.72882	5.98928

Pb		Se
calc		calc
#1	0.01324	0.04253
#2	0.01071	0.03993
Mean	0.01198	0.04123
%RSD	14.96830	4.46518

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:58

SampleId1 : 1706114-30MSD 50X SampleId2 :
Analysis commenced : 6/20/2017 17:04:39
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]

Position : TUBE19

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00168	0.03480	0.02320	-0.00228	0.02113	0.00098	0.00422	0.83092	0.00991
#2	0.00113	0.03217	0.01938	-0.00367	0.02106	0.00094	-0.00211	0.83164	0.00925
Mean	0.00140	0.03349	0.02129	-0.00297	0.02110	0.00096	0.00105	0.83128	0.00958
%RSD	28.08687	5.55246	12.67696	33.01502	0.21175	2.82208	424.55752	0.06130	4.84615

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00979	0.00355	0.00571	0.02439	0.76880	0.48373	0.81797	0.01430	0.02070
#2	0.00901	0.00365	0.00606	0.02469	0.78846	0.48383	0.80843	0.01430	0.02047
Mean	0.00940	0.00360	0.00588	0.02454	0.77863	0.48378	0.81320	0.01430	0.02058
%RSD	5.85381	1.84561	4.17532	0.86768	1.78535	0.01526	0.82907	0.00000	0.80156

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.90678	0.01226	0.07011	0.00665	0.00928	0.01098	0.01013	0.03974	0.03905
#2	0.90678	0.01019	0.07011	0.00527	0.01294	-0.00945	0.00952	0.03781	0.04502
Mean	0.90678	0.01122	0.07011	0.00596	0.01111	0.00077	0.00982	0.03877	0.04203
%RSD	0.00000	12.98313	0.00000	16.40838	23.33028	1887.56770	4.36173	3.52511	10.05111

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02072	0.01098	0.00994	0.00876	0.04197	-0.00112	0.01073	0.01446	0.00021
#2	0.02636	0.00804	0.00985	0.00934	0.04260	-0.02070	0.00981	0.01292	-0.00016
Mean	0.02354	0.00951	0.00990	0.00905	0.04228	-0.01091	0.01027	0.01369	0.00002
%RSD	16.92609	21.87703	0.62831	4.48692	1.05490	126.88013	6.31943	7.98418	1160.39211

	Pb	Se
	calc	calc
#1	0.00840	0.03928
#2	0.01039	0.04262
Mean	0.00939	0.04095
%RSD	14.93921	5.77035

Method : Paragon2 File : 170620A
SampleId1 : 1706244-1 SampleId2 :
Analysis commenced : 6/20/2017 17:05:41
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:58

[SAMPLE]

Position : TUBE20

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00022	-0.00718	0.00081	0.18513	0.00969	-0.00002	0.00519	22.41446	-0.00011
#2	-0.00070	-0.00484	0.00182	0.18449	0.00995	-0.00005	-0.00720	22.37681	-0.00064
Mean	-0.00046	-0.00601	0.00131	0.18481	0.00982	-0.00004	-0.00101	22.39564	-0.00037
%RSD	74.47448	27.49587	54.73564	0.24529	1.81955	56.72650	870.52056	0.11889	100.26828

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00013	-0.00044	0.00015	0.01039	2.91113	0.02054	4.58447	0.03830	0.00577
#2	0.00039	-0.00052	0.00049	0.01024	2.92246	0.02058	4.59593	0.03843	0.00623
Mean	0.00026	-0.00048	0.00032	0.01031	2.91679	0.02056	4.59020	0.03837	0.00600
%RSD	72.00568	12.46587	74.10600	1.03231	0.27479	0.11968	0.17646	0.22806	5.49871

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	167.48781	0.00149	0.07011	-0.00227	-0.00054	84.31541	-0.00125	-0.01842	0.00220
#2	166.09988	0.00115	0.07011	-0.00189	-0.00032	84.70687	-0.00205	-0.00811	-0.00277
Mean	166.79384	0.00132	0.07011	-0.00208	-0.00043	84.51114	-0.00165	-0.01327	-0.00028
%RSD	0.58840	18.03162	0.00000	13.12557	35.75355	0.32754	34.22717	54.96192	1237.47407

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.25315	0.00007	0.58809	-0.00079	-0.00018	-0.01262	0.00022	-0.00028	-0.00043
#2	3.26815	-0.00119	0.58990	-0.00109	0.00059	-0.00686	-0.00058	0.00002	-0.00066
Mean	3.26065	-0.00056	0.58899	-0.00094	0.00021	-0.00974	-0.00018	-0.00013	-0.00055
%RSD	0.32526	158.02983	0.21739	22.28218	266.97024	41.78487	312.27009	168.66217	29.66974

	Pb	Se
	calc	calc
#1	-0.00112	-0.00466
#2	-0.00084	-0.00455
Mean	-0.00098	-0.00461
%RSD	19.74018	1.74131

Method : Paragon2
 File : 170620A
 SampleId1 : CCV
 SampleId2 :
 Analysis commenced : 6/20/2017 17:06:56
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:58
 [CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19939	51.03620	0.49229	0.97729	1.00798	0.48673	0.48912	49.49902	0.46974
#2	0.19910	51.16597	0.49076	0.98007	1.01046	0.48797	0.48762	49.53816	0.46761
Mean	0.19924	51.10108	0.49153	0.97868	1.00922	0.48735	0.48837	49.51859	0.46868
%RSD	0.10441	0.17957	0.21952	0.20071	0.17372	0.17991	0.21638	0.05588	0.32108

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46696	0.97245	0.99680	19.14782	50.78568	0.50204	50.86700	0.95414	0.97850

#2	0.46938	0.97527	1.00184	19.18940	50.90256	0.50331	51.01032	0.95713	0.97608
Mean	0.46817	0.97386	0.99932	19.16861	50.84412	0.50268	50.93866	0.95563	0.97729
%RSD	0.36451	0.20485	0.35659	0.15337	0.16255	0.17868	0.19895	0.22143	0.17492
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.33385	0.96769	4.86506	0.99397	0.97807	5.16798	0.50038	1.01838	0.98211
#2	51.41550	0.96298	4.76195	0.99419	1.00360	5.15270	0.49834	0.99757	1.00899
Mean	51.37467	0.96534	4.81351	0.99408	0.99084	5.16034	0.49936	1.00798	0.99555
%RSD	0.11237	0.34521	1.51470	0.01583	1.82203	0.20943	0.28880	1.45999	1.90927
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.81463	1.03284	0.49946	0.47851	0.50932	4.78709	0.48886	0.98750	0.97615
#2	4.83384	1.02906	0.49985	0.48166	0.50486	4.79164	0.48997	0.98078	0.97746
Mean	4.82423	1.03095	0.49966	0.48008	0.50709	4.78936	0.48942	0.98414	0.97680
%RSD	0.28162	0.25944	0.05519	0.46340	0.62202	0.06726	0.15943	0.48280	0.09433
	Pb	Se							
	calc	calc							
#1	0.98337	0.99419							
#2	1.00047	1.00519							
Mean	0.99192	0.99969							
%RSD	1.21925	0.77800							

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:51:58

SampleId1 : CCB

SampleId2 :

[CB]

Analysis commenced : 6/20/2017 17:08:04

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00051	0.01028	0.00437	-0.00281	0.00015	0.00006	-0.00391	0.02556	0.00017
#2	0.00035	0.00232	0.00144	-0.00346	0.00015	0.00003	-0.00113	0.02520	-0.00014
Mean	-0.00008	0.00630	0.00291	-0.00314	0.00015	0.00004	-0.00252	0.02538	0.00002
%RSD	770.03833	89.43242	71.22198	14.45876	0.00000	44.77064	77.98431	1.00300	1235.60790
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00037	-0.00004	0.00099	0.00933	0.07465	0.00351	0.01906	0.00020	-0.00123
#2	0.00011	0.00000	0.00099	0.00903	0.07219	0.00348	0.01843	0.00020	0.00071
Mean	0.00024	-0.00002	0.00099	0.00918	0.07342	0.00349	0.01875	0.00020	-0.00026
%RSD	75.82040	186.26863	0.00001	2.31845	2.36463	0.58681	2.39698	0.00000	528.90846
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10076	0.00006	0.07011	-0.00079	0.00320	-0.00945	-0.00031	-0.00134	0.00071
#2	0.09758	0.00065	-0.03077	-0.00085	-0.00043	-0.00945	-0.00432	0.00322	0.00171

Mean	0.09917	0.00035	0.01967	-0.00082	0.00139	-0.00945	-0.00231	0.00094	0.00121
%RSD	2.26115	118.24725	362.69451	5.03176	185.74549	0.00000	122.36510	343.23117	58.23719
#1	0.00977	0.00049	-0.00117	-0.00103	0.00328	-0.01032	0.00085	0.00129	0.00069
#2	0.00854	-0.00834	-0.00117	-0.00090	-0.00559	-0.01032	0.00028	0.00005	0.00077
Mean	0.00916	-0.00393	-0.00117	-0.00096	-0.00115	-0.01032	0.00056	0.00067	0.00073
%RSD	9.44935	158.95571	0.00000	10.20207	544.22800	0.00214	71.89354	131.25900	8.04745

Pb	Se	
calc	calc	
#1	0.00187	0.00003
#2	-0.00057	0.00221
Mean	0.00065	0.00112
%RSD	265.42727	137.95255

Method : Paragon2
File : 170620A
SampleId1 : 1706244-2
SampleId2 :
Analysis commenced : 6/20/2017 17:09:08
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:51:59

[SAMPLE]

Position : TUBE21

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	0.00101	0.00036	-0.00072	0.18428	0.00976	-0.00008	0.00874	22.41225	0.00026
Mean	0.00054	-0.00205	0.00004	0.18379	0.00982	-0.00007	-0.00088	22.39305	-0.00020
%RSD	121.75415	166.52644	2534.00400	0.36996	0.45636	12.48760	173.20615	22.40265	0.00003
								0.06059	1185.36695

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	-0.00005	0.00040	0.00133	0.04878	2.91901	0.02032	4.59720	0.04177	0.00647
Mean	-0.00031	-0.00016	0.00082	0.04855	2.92887	0.02037	4.60198	0.04171	0.00604
%RSD	119.49793	504.12361	85.77761	0.65787	0.47593	0.36241	0.14668	0.20980	10.01606

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	166.20905	0.00103	0.07011	0.00208	-0.00139	84.33498	0.00036	-0.00442	-0.00008
Mean	166.76434	0.00037	0.07011	-0.00047	0.00272	84.35945	-0.00125	-0.00695	0.00101
%RSD	0.47091	247.07677	0.00000	-0.00104	0.00066	84.34722	-0.00045	-0.00568	0.00047
				423.29478	437.96604	0.02051	254.90605	31.38595	165.78552

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	3.25403	0.00301	0.58635	-0.00069	0.00446	0.00000	0.00063	0.00038	0.00062
Mean	3.28191	0.00301	0.59006	-0.00081	0.00175	-0.02072	0.00000	0.00002	-0.00031
%RSD	3.26797	0.00301	0.58820	-0.00075	0.00311	-0.01036	0.00032	0.00020	0.00015

%RSD	0.60321	0.00333	0.44602	11.52494	61.70824	141.48275	141.80364	129.67854	432.57720
	Pb		Se						
	calc		calc						
#1	-0.00024	-0.00153							
#2	0.00043	-0.00164							
Mean	0.00010	-0.00158							
%RSD	491.38566	4.90168							

Method : Paragon2 File : 170620A
SampleId1 : 1705515-2 10X SampleId2 :
Analysis commenced : 6/20/2017 17:11:32
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:59
[SAMPLE]
Position : TUBE22

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00167	-0.01071	0.00106	0.04024	0.06352	-0.00010	0.00470	0.31578	0.00020
#2	0.00102	-0.00338	0.00030	0.03832	0.06434	-0.00012	0.00140	0.31542	-0.00006
Mean	0.00134	-0.00704	0.00068	0.03928	0.06393	-0.00011	0.00305	0.31560	0.00007
%RSD	34.03533	73.54413	79.52674	3.46190	0.90857	12.63355	76.52553	0.08069	257.01748
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00124	0.00099	0.00199	0.06579	0.38554	0.02384	0.10613	0.00490	0.00133
#2	0.00020	-0.00020	0.00099	0.06428	0.37719	0.02408	0.09914	0.00478	-0.00014
Mean	0.00072	0.00040	0.00149	0.06504	0.38137	0.02396	0.10263	0.00484	0.00060
%RSD	101.68810	212.48289	47.29172	1.63715	1.54840	0.70189	4.81628	1.80846	175.44482
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	60.23880	0.00279	0.07011	0.00685	-0.00417	0.03141	0.00212	-0.00043	0.00032
#2	60.62485	0.00157	0.07011	-0.00232	-0.00274	0.01609	-0.00292	-0.00266	-0.00018
Mean	60.43183	0.00218	0.07011	0.00226	-0.00345	0.02375	-0.00040	-0.00155	0.00007
%RSD	0.45172	39.53224	0.00000	286.39876	29.39890	45.62103	894.46981	102.37366	496.58879
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.95866	0.00805	0.07761	-0.00067	0.00242	0.02186	0.00156	0.00257	0.00086
#2	0.96712	-0.00161	0.07837	-0.00090	0.00266	-0.00692	-0.00034	0.00283	0.00022
Mean	0.96289	0.00322	0.07799	-0.00078	0.00254	0.00747	0.00061	0.00270	0.00054
%RSD	0.62121	212.37836	0.68637	20.45110	6.68063	272.39923	220.72103	6.74466	84.01849
	Pb	Se							
	calc	calc							
#1	-0.00050	0.00007							
#2	-0.00260	-0.00101							
Mean	-0.00155	-0.00047							
%RSD	95.52804	162.95461							

ted: 6/20/2017 17:52:09 **User: STEVE WORKMAN**
Method : Paragon2 File : 170620A
SampleId1 : 1705515-4 10X **SampleId2 :**
Analysis commenced : 6/20/2017 17:12:34
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:59
[SAMPLE]
Position : TUBE23

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00107	-0.00533	0.00081	-0.00036	0.07376	-0.00004	-0.00114	-0.00025
#2	0.00035	-0.00692	0.00462	-0.00004	0.07357	-0.00011	0.00595	-0.00002
Mean	-0.00036	-0.00612	0.00271	-0.00020	0.07366	-0.00007	0.00241	-0.00013
%RSD	278.38453	18.26570	99.42971	115.09859	0.18198	70.52953	208.19177	121.51166

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00039	-0.00067	0.00067	0.05615	0.35312	0.00654	0.08960	0.00478	-0.00038
#2	-0.00013	-0.00040	0.00082	0.05630	0.36098	0.00653	0.09532	0.00478	-0.00038
Mean	-0.00026	-0.00054	0.00074	0.05623	0.35705	0.00654	0.09246	0.00478	-0.00038
%RSD	70.25555	35.09274	14.83822	0.18935	1.55652	0.12548	4.37392	0.00000	0.00000

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	49.89932	0.00018	0.07011	-0.00521	0.00171	0.03652	-0.00352	-0.01284	0.00370
#2	49.69020	0.00027	0.07011	-0.00049	0.00275	0.02119	-0.00211	-0.00899	0.00321
Mean	49.79476	0.00023	0.07011	-0.00285	0.00223	0.02886	-0.00282	-0.01092	0.00346
%RSD	0.29696	26.32633	0.00000	116.89891	32.73018	37.54625	35.32253	24.94980	10.19493

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.69409	0.00175	0.04387	-0.00084	-0.00276	-0.02764	-0.00057	0.00157	-0.00014
#2	0.69091	0.00301	0.04361	-0.00065	-0.00840	-0.00346	-0.00051	0.00065	0.00027
Mean	0.69250	0.00238	0.04374	-0.00075	-0.00558	-0.01555	-0.00054	0.00111	0.00006
%RSD	0.32465	37.48918	0.42668	18.11062	71.52524	109.97102	7.51464	58.54488	458.55863

	Pb	Se
	calc	calc
#1	-0.00059	-0.00181
#2	0.00167	-0.00086
Mean	0.00054	-0.00133
%RSD	296.30411	50.50323

Method : Paragon2 File : 170620A
SampleId1 : 1706114-22 50X **SampleId2 :**
Analysis commenced : 6/20/2017 17:13:36
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:51:59
[SAMPLE]
Position : TUBE24

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00050	-0.01242	0.00246	-0.00420	0.00009	-0.00008	0.00291	0.01692	-0.00003
#2	-0.00012	-0.01238	0.00144	-0.00495	0.00028	-0.00013	0.00013	0.01656	-0.00023
Mean	-0.00031	-0.01240	0.00195	-0.00458	0.00019	-0.00011	0.00152	0.01674	-0.00013
%RSD	87.42774	0.22283	36.88882	11.55321	71.87598	31.59340	129.46806	1.52067	112.60344

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00006	-0.00051	-0.00018	0.00512	0.07023	0.47496	0.00064	0.00391	-0.00154
#2	-0.00023	-0.00092	-0.00001	0.00452	0.07907	0.47512	0.00127	0.00391	0.00017
Mean	-0.00015	-0.00072	-0.00010	0.00482	0.07465	0.47504	0.00095	0.00391	-0.00069
%RSD	83.82373	39.98899	122.19643	8.83897	8.37268	0.02331	47.14046	0.00000	175.93094

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.18199	0.00157	0.07011	-0.00092	0.00193	-0.00434	-0.00253	-0.01077	0.00171
#2	0.17459	0.00090	0.07011	-0.00312	-0.00093	0.00587	0.00232	-0.00253	0.00260
Mean	0.17829	0.00124	0.07011	-0.00202	0.00050	0.00077	-0.00010	-0.00665	0.00215
%RSD	2.93705	38.51888	0.00000	77.25816	404.18748	943.76043	3338.34248	87.65949	29.40913

	Si	Sn	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00220	-0.00498	-0.00042	-0.00392	-0.02068	-0.00013	0.01181	0.00011
#2	0.00221	-0.00414	-0.00044	-0.00186	-0.01952	-0.00070	0.01241	0.00009
Mean	0.00220	-0.00456	-0.00043	-0.00289	-0.02010	-0.00041	0.01211	0.00010
%RSD	0.17836	13.03753	2.91640	50.26512	4.05287	98.33293	3.51743	14.72438

	Pb	Se
	calc	calc
#1	0.00098	-0.00245
#2	-0.00166	0.00089
Mean	-0.00034	-0.00078
%RSD	551.00732	303.83852

Method : Paragon2
File : 170620A
SampleId1 : IP170619-9MB
SampleId2 :
Analysis commenced : 6/20/2017 17:14:38
Dilution ratio : 1.00000 to 1.00000
Tray :
Position : TUBE25

Printed : 6/20/2017 17:51:59
[SAMPLE]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00035	-0.00922	0.00271	-0.00324	-0.00022	-0.00023	0.00469	0.04140	0.00023
#2	-0.00069	-0.01106	0.00271	-0.00420	-0.00029	-0.00025	0.00039	0.04032	-0.00062
Mean	-0.00017	-0.01014	0.00271	-0.00372	-0.00026	-0.00024	0.00254	0.04086	-0.00019
%RSD	437.85337	12.77188	0.00000	18.26465	17.46529	3.36549	119.63063	1.86905	310.76642

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	-0.00040	-0.00012	0.00706	0.26106	0.01032	0.00337	0.00699
Mean	-0.00187	-0.00071	0.00758	0.26167	0.00983	0.00337	-0.00064
%RSD	-0.00114	-0.00042	0.00732	0.26137	0.01008	0.00337	0.00318
	91.15568	101.33542	4.96761	0.16316	3.44520	0.00000	169.70559

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.07510	0.00212	0.07011	-0.00095	0.00371	-0.00945	-0.00009	-0.01960	0.00124
Mean	0.07299	0.00191	0.07011	-0.00646	0.00742	-0.00434	-0.00190	-0.00283	0.00463
%RSD	0.07404	0.00201	0.07011	-0.00370	0.00556	-0.00690	-0.00099	-0.01121	0.00293
	2.01845	7.38541	0.00000	105.21502	47.23205	52.37254	128.51821	105.75238	81.58367

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00309	0.01730	-0.00133	-0.00168	-0.01118	-0.00827	-0.00012	0.02112	0.00034
Mean	0.00169	0.01940	-0.00137	-0.00163	-0.00772	-0.02439	-0.00064	0.02048	-0.00030
%RSD	0.00239	0.01835	-0.00135	-0.00165	-0.00945	-0.01633	-0.00038	0.02080	0.00002
	41.54515	8.09759	1.84270	2.23419	25.90661	69.78050	96.52800	2.19683	2726.03668

	Pb	Se
#1	calc	calc
#2	0.00216	-0.00570
Mean	0.00280	0.00214
%RSD	0.00248	-0.00178
	18.38960	312.13680

Method : Paragon2
SampleId1 : IP170619-9LCS
SampleId2 :
Analysis commenced : 6/20/2017 17:15:41
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 6/20/2017 17:52:00
[SAMPLE]
Position : TUBE26

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00081	-0.01532	0.00360	-0.00303	-0.00022	-0.00027	-0.00011	0.03924	0.00030
Mean	-0.00059	-0.01620	0.00322	-0.00420	-0.00029	-0.00027	-0.00113	0.03708	0.00013
%RSD	0.00011	-0.01576	0.00341	-0.00362	-0.00026	-0.00027	-0.00062	0.03816	0.00021
	886.16263	3.96444	7.90508	22.98308	17.46529	0.58556	117.22885	4.00258	53.53319

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00003	0.00148	0.00739	0.04486	0.06335	0.00342	0.01271	0.00218	0.00087
Mean	-0.00118	0.00002	0.00774	0.04441	0.05501	0.00342	0.00445	0.00205	-0.00100
%RSD	-0.00058	0.00075	0.00757	0.04464	0.05918	0.00342	0.00858	0.00212	-0.00007
	148.03299	138.45505	3.33002	0.71555	9.97412	0.11995	68.09183	4.13498	2014.80513

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.07510	0.00212	0.07011	-0.00095	0.00371	-0.00945	-0.00009	-0.01960	0.00124
Mean	0.07299	0.00191	0.07011	-0.00646	0.00742	-0.00434	-0.00190	-0.00283	0.00463
%RSD	0.07404	0.00201	0.07011	-0.00370	0.00556	-0.00690	-0.00099	-0.01121	0.00293
	2.01845	7.38541	0.00000	105.21502	47.23205	52.37254	128.51821	105.75238	81.58367

#1	0.06684	0.00229	0.07011	0.00147	0.00318	9.92579	-0.00010	-0.00515	0.00201
#2	0.06559	0.00203	0.07011	-0.00104	0.00569	9.93596	-0.00011	-0.00254	0.00350
Mean	0.06621	0.00216	0.07011	0.00021	0.00443	9.93088	-0.00010	-0.00384	0.00276
%RSD	1.33365	8.25869	0.00000	840.68917	40.04038	0.07238	6.62421	48.09967	38.32143

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00344	0.01393	-0.00124	-0.00170	0.00305	0.01037	0.00086	0.02181	0.00060
#2	-0.00114	0.01141	-0.00131	-0.00170	-0.00649	-0.02647	0.00029	0.02051	0.00005
Mean	0.00115	0.01267	-0.00128	-0.00170	-0.00172	-0.00805	0.00057	0.02116	0.00033
%RSD	281.29647	14.06699	3.88806	0.00000	391.87584	323.59560	70.94083	4.35976	120.53566

	Pb	Se
	calc	calc
#1	0.00261	-0.00037
#2	0.00345	0.00149
Mean	0.00303	0.00056
%RSD	19.56897	236.07915

Method : Paragon2 File : 170620A
SampleId1 : 1706229-1 SampleId2 :
Analysis commenced : 6/20/2017 17:16:45
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:00
[SAMPLE]

Position : TUBE27

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00090	17.77669	0.02651	0.01567	0.87155	0.00422	0.00498	311.29549	0.00062
#2	-0.00089	17.69400	0.03007	0.01471	0.86964	0.00417	0.00040	311.24314	0.00080
Mean	-0.00089	17.73534	0.02829	0.01519	0.87059	0.00419	0.00269	311.26931	0.00071
%RSD	1.42391	0.32968	8.90490	4.47671	0.15477	0.89910	120.20904	0.01189	18.44625

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03809	0.05949	0.22877	95.76082	11.39707	0.02678	91.79856	2.79159	0.00491
#2	0.03680	0.05930	0.22625	95.80214	11.33830	0.02668	91.66850	2.79222	0.00336
Mean	0.03745	0.05940	0.22751	95.78148	11.36769	0.02673	91.73353	2.79191	0.00413
%RSD	2.43590	0.22094	0.78144	0.03050	0.36557	0.26084	0.10025	0.01603	26.60427

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.44444	0.05941	3.63087	0.07026	0.07714	4.10805	0.00871	-0.00756	0.00091
#2	0.44125	0.06071	3.52833	0.06521	0.07666	4.08766	0.00347	-0.00508	0.00540
Mean	0.44284	0.06006	3.57960	0.06774	0.07690	4.09786	0.00609	-0.00632	0.00315
%RSD	0.50815	1.53519	2.02559	5.27192	0.44496	0.35182	60.88452	27.72835	100.56586

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.07267	0.01774	0.26883	1.06475	-0.01665	0.10243	0.20697	0.24085	0.03269

#2	5.03066	0.01858	0.26828	1.06142	-0.00958	0.07821	0.20434	0.24239	0.03241
Mean	5.05166	0.01816	0.26856	1.06308	-0.01311	0.09032	0.20566	0.24162	0.03255
%RSD	0.58808	3.28775	0.14414	0.22174	38.10620	18.96249	0.90390	0.45162	0.60952
	Pb	Se							
	calc	calc							
#1	0.07485	-0.00191							
#2	0.07285	0.00191							
Mean	0.07385	0.00000							
%RSD	1.91926205982.49355								

Method : Paragon2
File : 170620A
SampleId1 : 1706229-1D
SampleId2 :
Analysis commenced : 6/20/2017 17:17:47
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:00
[SAMPLE]

Position : TUBE28

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00004	16.45176	0.06238	0.01685	0.97295	0.00470	0.00678	349.74505	0.00084
#2	-0.00112	16.38816	0.05653	0.01492	0.96774	0.00469	0.00729	350.67041	0.00039
Mean	-0.00054	16.41996	0.05946	0.01588	0.97035	0.00470	0.00703	350.20773	0.00062
%RSD	150.59876	0.27387	6.95987	8.56194	0.37979	0.10358	5.10676	0.18684	51.67832
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04224	0.05338	0.16996	114.79563	10.46672	0.02663	96.86748	3.21276	0.00989
#2	0.04171	0.05349	0.16777	114.95437	10.39011	0.02654	96.68880	3.21327	0.01207
Mean	0.04197	0.05343	0.16886	114.87500	10.42841	0.02658	96.77814	3.21302	0.01098
%RSD	0.89099	0.15634	0.91817	0.09771	0.51947	0.26226	0.13056	0.01118	14.02637
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.43817	0.06517	3.63087	1.06077	1.04460	2.38960	0.00436	-0.00577	0.00707
#2	0.43421	0.06403	3.73346	1.05890	1.06805	2.36410	0.00579	-0.00371	0.00739
Mean	0.43619	0.06460	3.68216	1.05984	1.05633	2.37685	0.00507	-0.00474	0.00723
%RSD	0.64092	1.24308	1.97008	0.12475	1.56962	0.75883	19.89141	30.82069	3.12286
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.91170	0.01832	0.29538	0.92699	-0.01810	0.12532	0.18912	0.32840	0.03297
#2	4.88997	0.01874	0.29282	0.92880	-0.01947	0.12976	0.18635	0.33058	0.03328
Mean	4.90083	0.01853	0.29410	0.92790	-0.01878	0.12754	0.18773	0.32949	0.03313
%RSD	0.31346	1.59586	0.61593	0.13764	5.16721	2.46201	1.04410	0.46737	0.66821
#1	Pb	Se							
	calc	calc							
#1	1.04999	0.00279							
#2	1.06501	0.00369							

Mean 1.05750 0.00324ser: STEVE WORKMAN
%RSD 1.00415 19.63800

Method : Paragon2 File : 170620A
SampleId1 : 1706229-1L 5X SampleId2 :
Analysis commenced : 6/20/2017 17:18:49
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:00
[SAMPLE]
Position : TUBE29

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	0.00004	3.73256	0.00742	-0.00004	0.18041	0.00080	0.00235	63.72435	-0.00006
#2	-0.00035	3.75480	0.00182	-0.00057	0.18142	0.00077	-0.00169	63.41678	-0.00021
Mean	-0.00016	3.74368	0.00462	-0.00030	0.18091	0.00078	0.00033	63.57057	-0.00014
%RSD	177.96000	0.42006	85.62756	124.35724	0.39548	3.55684	873.46090	0.34211	75.70494
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.00843	0.01277	0.04566	19.25262	2.00880	0.00726	19.42457	0.60713	0.00009
#2	0.00783	0.01207	0.04667	19.19678	1.99502	0.00725	19.41306	0.60502	-0.00045
Mean	0.00813	0.01242	0.04617	19.22470	2.00191	0.00726	19.41882	0.60607	-0.00018
%RSD	5.24435	3.96654	1.53702	0.20539	0.48684	0.11305	0.04191	0.24659	211.31923

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.14180	0.01419	0.87888	0.01181	0.01966	0.86883	0.00125	-0.00252	0.00271
#2	0.14055	0.01385	0.77762	0.01306	0.01785	0.86372	-0.00539	0.00088	0.00181
Mean	0.14117	0.01402	0.82825	0.01243	0.01876	0.86627	-0.00207	-0.00082	0.00226
%RSD	0.62600	1.69687	8.64513	7.10320	6.82446	0.41672	226.58067	293.09855	28.23109

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	1.11052	0.00316	0.05548	0.22699	-0.00991	-0.01181	0.04452	0.05455	0.00719
#2	1.11086	0.00400	0.05557	0.22703	0.00332	0.00321	0.04239	0.05266	0.00697
Mean	1.11069	0.00358	0.05553	0.22701	-0.00330	-0.00430	0.04346	0.05361	0.00708
%RSD	0.02194	16.58421	0.11205	0.01083	283.86770	247.13851	3.47818	2.49425	2.26470

	Pb calc	Se calc
#1	0.01705	0.00097
#2	0.01626	0.00150
Mean	0.01665	0.00124
%RSD	3.36167	30.30799

Method : Paragon2 File : 170620A
SampleId1 : 1706229-1L 5X SampleId2 :
Analysis commenced : 6/20/2017 17:19:52
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:00
[SAMPLE]
Position : TUBE30

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00030	16.19736	0.03567	0.01952	1.77105	0.00387	0.00839	501.03934	0.00020
#2	-0.00014	16.42018	0.03617	0.01535	1.78492	0.00394	0.00511	501.58184	0.00026
Mean	0.00008	16.30877	0.03592	0.01743	1.77799	0.00391	0.00675	501.31059	0.00023
%RSD	378.97614	0.96611	1.00178	16.90223	0.55133	1.37178	34.31540	0.07652	20.69075
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03862	0.05279	0.16320	82.85619	10.93350	0.02783	100.79705	2.96422	0.00476
#2	0.03750	0.05283	0.16458	83.21817	11.05846	0.02815	101.49110	2.97981	0.00468
Mean	0.03806	0.05281	0.16389	83.03718	10.99598	0.02799	101.14407	2.97202	0.00472
%RSD	2.08466	0.05639	0.59562	0.30824	0.80353	0.80594	0.48521	0.37093	1.16574
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.64919	0.05579	3.22099	0.07322	0.06526	13.03908	0.00774	0.00265	-0.00107
#2	0.65799	0.05503	3.22099	0.06383	0.07495	13.19640	0.00351	0.00127	0.00386
Mean	0.65359	0.05541	3.22099	0.06853	0.07010	13.11774	0.00562	0.00196	0.00140
%RSD	0.95146	0.96617	0.00000	9.69050	9.76673	0.84800	53.12962	50.01869	249.30956
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.53722	0.02458	7.40571	0.96253	-0.00644	0.15953	0.16939	0.18347	0.03345
#2	4.59774	0.02079	7.41807	0.97183	-0.00189	0.09699	0.16719	0.18564	0.03268
Mean	4.56748	0.02268	7.41189	0.96718	-0.00416	0.12826	0.16829	0.18456	0.03307
%RSD	0.93689	11.82350	0.11792	0.68053	77.37588	34.48142	0.92702	0.83267	1.65488
	Pb	Se							
	calc	calc							
#1	0.06791	0.00017							
#2	0.07124	0.00300							
Mean	0.06958	0.00158							
%RSD	3.38543	126.00351							

Method : Paragon2 File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 17:20:59
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : STD1

Printed : 6/20/2017 17:52:01

[CV]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.20105	51.77910	0.50589	0.99930	1.01949	0.49595	0.49874	50.57029	0.47708
#2	0.20074	51.74411	0.49865	0.98926	1.01478	0.49631	0.49472	50.70038	0.47343
Mean	0.20089	51.76160	0.50227	0.99428	1.01713	0.49613	0.49673	50.63533	0.47525
%RSD	0.10929	0.04780	1.02042	0.71427	0.32707	0.05064	0.57325	0.18167	0.54371

ted: 6/20/2017 17:52:09 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.47715	0.99274	1.00806	19.50821	51.50287	0.51041	51.86067	0.97085	0.99433
#2	0.47662	0.99424	1.00417	19.51779	51.25174	0.50758	51.89038	0.97234	0.99332
Mean	0.47688	0.99349	1.00612	19.51300	51.37731	0.50899	51.87553	0.97159	0.99382
%RSD	0.07825	0.10719	0.27314	0.03469	0.34564	0.39240	0.04049	0.10891	0.07214

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	52.78125	0.98444	4.86506	1.00881	1.00412	5.20874	0.50603	1.01458	0.96737
#2	52.60178	0.97872	4.86506	1.01518	1.02282	5.19345	0.50542	0.99512	1.01652
Mean	52.69151	0.98158	4.86506	1.01200	1.01347	5.20109	0.50573	1.00485	0.99194
%RSD	0.24084	0.41225	0.00000	0.44524	1.30458	0.20778	0.08635	1.36923	3.50403

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	4.88247	1.05089	0.49989	0.48583	0.52233	4.79476	0.49752	1.01110	0.98998
#2	4.89569	1.04585	0.49810	0.48741	0.51340	4.83499	0.49718	1.00588	0.98908
Mean	4.88908	1.04837	0.49899	0.48662	0.51786	4.81488	0.49735	1.00849	0.98953
%RSD	0.19115	0.33996	0.25371	0.22985	1.21821	0.59078	0.04828	0.36617	0.06437

	Pb	Se
	calc	calc
#1	1.00568	0.98309
#2	1.02028	1.00940
Mean	1.01298	0.99624
%RSD	1.01870	1.86721

Method : Paragon2 File : 170620A
SampleId1 : CCB SampleId2 :
Analysis commenced : 6/20/2017 17:22:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:01
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00025	0.01425	0.00411	-0.00228	0.00034	0.00009	0.00317	0.04032	0.00017
#2	-0.00023	0.01040	0.00004	-0.00196	0.00028	0.00010	0.00393	0.03852	0.00002
Mean	0.00001	0.01232	0.00208	-0.00212	0.00031	0.00010	0.00355	0.03942	0.00009
%RSD	3422.40621	22.08400	138.52226	10.69050	14.28107	6.12013	15.08524	3.22887	118.06829

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00028	0.00004	0.00031	0.01355	0.09920	0.00355	0.02351	0.00045	0.00009
#2	0.00011	-0.00004	0.00099	0.01204	0.09724	0.00354	0.02733	0.00045	0.00118
Mean	0.00020	0.00000	0.00065	0.01279	0.09822	0.00354	0.02542	0.00045	0.00063
%RSD	61.44056	3940.02561	73.70679	8.31924	1.41413	0.23146	10.60664	0.00000	121.35171

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09951	0.00119	0.07011	-0.00011	0.00218	0.00077	0.00131	0.00662	0.00031
#2	0.09797	0.00027	0.07011	-0.00072	-0.00167	0.00587	0.00011	-0.00134	0.00280
Mean	0.09874	0.00073	0.07011	-0.00041	0.00025	0.00332	0.00071	0.00264	0.00156
%RSD	1.10111	89.54913	0.00000	103.83066	1068.96431	108.81073	119.10761	212.98798	112.99211

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00783	0.00217	-0.00100	-0.00074	-0.00326	0.00350	0.00062	0.00160	0.00083
#2	0.00714	0.00091	-0.00107	-0.00086	-0.00276	-0.00571	0.00039	0.00036	0.00085
Mean	0.00748	0.00154	-0.00103	-0.00080	-0.00301	-0.00111	0.00051	0.00098	0.00084
%RSD	6.56620	57.99063	4.81465	10.77247	11.94391	586.86182	32.02001	89.92214	1.74605

	Pb	Se
	calc	calc
#1	0.00142	0.00241
#2	-0.00135	0.00142
Mean	0.00003	0.00192
%RSD	6106.28145	36.49114

Method : Paragon2
SampleId1 : 1706229-1MSD
SampleId2 :
Analysis commenced : 6/20/2017 17:24:37
Dilution ratio : 1.00000 to 1.00000
Tray :
Printed : 6/20/2017 17:52:01
[SAMPLE]
Position : TUBE31

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00015	16.32088	0.03478	0.01759	0.78042	0.00395	0.01207	304.24932	0.00046
#2	-0.00071	16.46801	0.03236	0.01599	0.78455	0.00396	0.00551	305.22918	0.00024
Mean	-0.00043	16.39444	0.03357	0.01679	0.78249	0.00396	0.00879	304.73925	0.00035
%RSD	92.97815	0.63455	5.09212	6.74905	0.37289	0.10447	52.75296	0.22736	43.64764

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04600	0.05448	0.64359	89.48553	10.51498	0.02428	103.83315	3.06528	0.00577
#2	0.04616	0.05355	0.64544	89.85437	10.56423	0.02444	104.30215	3.07911	0.00390
Mean	0.04608	0.05401	0.64451	89.66995	10.53960	0.02436	104.06765	3.07219	0.00483
%RSD	0.25110	1.20630	0.20366	0.29085	0.33046	0.45462	0.31867	0.31825	27.30262

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47636	0.06113	3.52833	0.07739	0.07431	12.35893	0.00432	0.00393	0.00517
#2	0.47800	0.05911	3.52833	0.07414	0.07988	12.36401	0.00109	-0.00948	0.00233
Mean	0.47718	0.06012	3.52833	0.07577	0.07710	12.36147	0.00270	-0.00277	0.00375
%RSD	0.24302	2.37458	0.00000	3.03454	5.11172	0.02904	84.55921	341.91482	53.48863

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	4.20398	0.01616	0.24669	0.97977	-0.01314	0.11122	0.21685	0.19006	0.03331
	4.23446	0.01867	0.24769	0.98677	-0.01035	0.10048	0.21556	0.18847	0.03340
Mean	4.21922	0.01741	0.24719	0.98327	-0.01175	0.10585	0.21620	0.18926	0.03336
%RSD	0.51090	10.20645	0.28785	0.50328	16.78144	7.17677	0.42125	0.59464	0.20602

	Pb	Se
	calc	calc
#1	0.07534	0.00476
#2	0.07797	-0.00160
Mean	0.07665	0.00158
%RSD	2.43045	284.57102

Method : Paragon2 File : 170620A
SampleId1 : 1706349-1 10X SampleId2 :
Analysis commenced : 6/20/2017 17:25:39
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:01
[SAMPLE]
Position : TUBE32

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	-0.00039	8.60364	0.01467	0.02582	0.08924	0.00143	0.00834	143.50040	0.00066
	0.00018	8.60120	0.00602	0.02454	0.08924	0.00140	0.01239	143.75535	0.00025
Mean	-0.00010	8.60242	0.01035	0.02518	0.08924	0.00141	0.01037	143.62787	0.00046
%RSD	393.45973	0.02007	59.11739	3.60069	0.00000	1.45498	27.61916	0.12552	62.92061

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.00549	0.41792	0.03418	258.60308	1.15717	0.01024	20.07741	6.90860	0.03820
	0.00514	0.41914	0.03335	259.79801	1.15127	0.01023	20.14264	6.91866	0.03836
Mean	0.00532	0.41853	0.03376	259.20054	1.15422	0.01023	20.11003	6.91363	0.03828
%RSD	4.66398	0.20578	1.75359	0.32598	0.36149	0.12022	0.22935	0.10292	0.28737

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.85273	0.02769	0.87888	0.02848	0.03760	3.09857	0.00789	-0.00087	0.00526
	0.85205	0.02841	0.87888	0.03068	0.03700	3.13427	0.00487	-0.00235	0.00720
Mean	0.85239	0.02805	0.87888	0.02958	0.03730	3.11642	0.00638	-0.00161	0.00623
%RSD	0.05623	1.80258	0.00000	5.24528	1.13785	0.80996	33.47728	65.20540	22.10015

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.44735	0.00948	0.10418	0.57678	-0.01041	0.02369	0.31770	0.25445	0.11173
	0.45227	0.00990	0.10416	0.57942	-0.02105	0.01324	0.31759	0.25512	0.11271
Mean	0.44981	0.00969	0.10417	0.57810	-0.01573	0.01846	0.31765	0.25479	0.11222
%RSD	0.77290	3.04457	0.01196	0.32311	47.83421	40.01300	0.02409	0.18709	0.62210

Pb	Se
calc	calc

#1 0.03456 0.00322 **ser: STEVE WORKMAN**
 #2 0.03490 0.00402
Mean 0.03473 0.00362
 %RSD 0.67262 15.72618

Method : Paragon2 File : 170620A
SampleId1 : 1706349-2 10X SampleId2 :
Analysis commenced : 6/20/2017 17:26:41
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:01
[SAMPLE]
 Position : TUBE33

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	0.00077	8.20000	0.01391	0.01706	0.08197	0.00138	0.01794	124.19404	0.00138
#2	-0.00038	8.18049	0.00488	0.01567	0.08160	0.00133	0.01111	123.99812	0.00003
Mean	0.00020	8.19025	0.00939	0.01636	0.08179	0.00135	0.01452	124.09608	0.00070
%RSD	413.83776	0.16845	67.99552	6.00194	0.32784	2.67695	33.24004	0.11163	136.09589
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.00558	0.39962	0.03063	327.10976	0.60123	0.01394	18.11225	6.72524	0.03680
#2	0.00515	0.39841	0.02928	327.13969	0.58993	0.01390	18.09308	6.72720	0.03626
Mean	0.00536	0.39901	0.02995	327.12473	0.59558	0.01392	18.10267	6.72622	0.03653
%RSD	5.71935	0.21474	3.18474	0.00647	1.34180	0.17678	0.07489	0.02058	1.05396
	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.48668	0.02433	0.77762	0.01526	0.02207	1.47625	0.01139	0.00932	0.00361
#2	0.48533	0.02092	0.87888	0.01133	0.02229	1.45073	0.01099	-0.01055	0.00720
Mean	0.48601	0.02262	0.82825	0.01330	0.02218	1.46349	0.01119	-0.00062	0.00540
%RSD	0.19652	10.64862	8.64513	20.91712	0.70476	1.23296	2.53690	2284.18470	46.94213
	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.31354	0.01495	0.09176	0.57108	-0.02391	0.05409	0.30720	0.23658	0.12736
#2	0.31371	0.00528	0.09168	0.57197	-0.02429	0.05521	0.30216	0.23404	0.12668
Mean	0.31362	0.01012	0.09172	0.57152	-0.02410	0.05465	0.30468	0.23531	0.12702
%RSD	0.03760	67.56468	0.06788	0.10966	1.10976	1.44946	1.17016	0.76186	0.37822

Pb
calc
#1 0.01980 0.00551
#2 0.01864 0.00129
Mean 0.01922 0.00340
%RSD 4.27667 87.88076

Method : Paragon2 File : 170620A
SampleId1 : 1706349-3 10X SampleId2 :
Analysis commenced : 6/20/2017 17:27:43

Printed : 6/20/2017 17:52:02
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE34

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00151	8.33204	0.01556	0.01759	0.08318	0.00141	0.02000	126.31169	-0.00008
#2	0.00028	8.43679	0.00335	0.01471	0.08393	0.00139	0.01039	126.14239	-0.00055
Mean	0.00090	8.38441	0.00946	0.01615	0.08355	0.00140	0.01519	126.22704	-0.00032
%RSD	97.32577	0.88341	91.31928	12.63050	0.64181	1.21408	44.70037	0.09484	106.47537

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00685	0.41705	0.03096	339.25546	0.81795	0.01441	18.52385	6.94663	0.03913
#2	0.00624	0.41375	0.03029	338.55523	0.79584	0.01450	18.61206	6.96663	0.04038
Mean	0.00655	0.41540	0.03063	338.90535	0.80689	0.01445	18.56796	6.95663	0.03976
%RSD	6.59374	0.56194	1.54089	0.14610	1.93824	0.45400	0.33591	0.20331	2.21348

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.55791	0.02500	0.87888	0.01714	0.02074	1.54770	0.01173	0.00918	0.00220
#2	0.56438	0.02336	0.77762	0.01375	0.02491	1.57832	0.00512	-0.00158	0.00390
Mean	0.56115	0.02418	0.82825	0.01545	0.02282	1.56301	0.00842	0.00380	0.00305
%RSD	0.81517	4.79712	8.64513	15.52113	12.93205	1.38528	55.50255	200.14609	39.39369

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.32597	0.01410	0.09342	0.58293	-0.02135	0.06109	0.31071	0.24262	0.13092
#2	0.32719	0.00359	0.09367	0.58650	-0.02667	0.04800	0.30807	0.23937	0.13118
Mean	0.32658	0.00884	0.09354	0.58472	-0.02401	0.05455	0.30939	0.24100	0.13105
%RSD	0.26377	84.06459	0.18636	0.43084	15.68531	16.96922	0.60382	0.95293	0.14422

	Pb	Se
	calc	calc
#1	0.01954	0.00453
#2	0.02119	0.00208
Mean	0.02037	0.00330
%RSD	5.74615	52.42784

Method : Paragon2 File : 170620A

SampleId1 : 1706349-4 10X SampleId2 :

Analysis commenced : 6/20/2017 17:28:46

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:02

[SAMPLE]

Position : TUBE35

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00200	16.55591	0.00895	0.03821	0.08564	0.00102	0.01236	208.85000	0.00075
#2	0.00069	16.64432	0.00131	0.03469	0.08627	0.00094	0.00048	208.50446	0.00041

Mean	0.00135	16.60011	0.00513	0.03645	0.08596	0.00098	0.00642	208.67723	0.00058
%RSD	68.57689	0.37657	105.18534	6.83982	0.51990	5.47309	130.91500	0.11709	41.96194
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00448	1.43325	0.08759	189.35850	0.37130	0.01039	55.40845	20.73819	0.04131
#2	0.00343	1.43505	0.08610	189.51809	0.35410	0.01041	55.52610	20.78991	0.04279
Mean	0.00395	1.43415	0.08685	189.43829	0.36270	0.01040	55.46727	20.76405	0.04205
%RSD	18.75664	0.08884	1.21780	0.05957	3.35188	0.07887	0.14999	0.17614	2.48509
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.63383	0.03455	2.40350	0.03717	0.04017	1.60384	0.00908	0.00653	0.00681
#2	0.63702	0.03291	2.50552	0.02920	0.04646	1.60894	0.00446	-0.00102	0.01310
Mean	0.63542	0.03373	2.45451	0.03319	0.04331	1.60639	0.00677	0.00275	0.00995
%RSD	0.35484	3.43912	2.93905	16.98065	10.25683	0.22464	48.26452	193.90396	44.70556
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.73691	0.01172	0.13044	1.18074	-0.02383	0.05621	0.91881	0.39160	0.17756
#2	0.73741	0.00625	0.13085	1.18715	-0.02187	0.01575	0.92022	0.38795	0.17742
Mean	0.73716	0.00898	0.13065	1.18394	-0.02285	0.03598	0.91951	0.38978	0.17749
%RSD	0.04834	43.05727	0.21934	0.38256	6.05074	79.51641	0.10894	0.66129	0.05748

	Pb	Se
	calc	calc
#1	0.03917	0.00671
#2	0.04071	0.00840
Mean	0.03994	0.00756
%RSD	2.72062	15.75983

Method : Paragon2
File : 170620A
SampleId1 : 1706349-5 10X SampleId2 :
Analysis commenced : 6/20/2017 17:29:48 [SAMPLE]
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE36

Printed : 6/20/2017 17:52:02

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00360	16.12941	0.00551	0.03651	0.07445	0.00090	0.02014	204.69520	0.00054
#2	-0.00017	16.16517	0.00004	0.03138	0.07509	0.00087	0.00446	203.27182	0.00049
Mean	0.00172	16.14729	0.00278	0.03394	0.07477	0.00089	0.01230	203.98351	0.00051
%RSD	155.19177	0.15657	139.25251	10.68483	0.59764	2.09227	90.15365	0.49341	7.30743
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00544	1.48518	0.07781	199.97921	0.36000	0.01030	54.13324	20.67069	0.06076
#2	0.00371	1.47652	0.07700	199.21564	0.33986	0.01028	53.95683	20.64096	0.05796
Mean	0.00457	1.48085	0.07741	199.59743	0.34993	0.01029	54.04503	20.65583	0.05936

%RSD	26.85672	0.41366	0.73564	0.27051	4.06973	0.07972	0.23081	0.10174	3.33588
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.57066	0.09978	2.09772	0.03360	0.01890	1.49667	0.01102	0.00566	0.00450
#2	0.57384	0.09734	2.40350	0.01615	0.03008	1.54260	0.00721	-0.00147	0.00401
Mean	0.57225	0.09856	2.25061	0.02488	0.02449	1.51963	0.00912	0.00209	0.00426
%RSD	0.39375	1.75018	9.60703	49.59372	32.29539	2.13728	29.51561	240.96181	8.24685
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.51167	0.01174	0.12504	1.16494	-0.01886	0.07630	0.92944	0.37247	0.18102
#2	0.51040	0.00459	0.12493	1.17071	-0.02128	0.00456	0.92488	0.36588	0.18003
Mean	0.51103	0.00816	0.12498	1.16782	-0.02007	0.04043	0.92716	0.36918	0.18053
%RSD	0.17498	61.94790	0.05981	0.34896	8.54497	125.46692	0.34727	1.26187	0.38681
	Pb	Se							
	calc	calc							
#1	0.02379	0.00489							
#2	0.02544	0.00218							
Mean	0.02462	0.00354							
%RSD	4.74108	54.14536							

Method : Paragon2

File : 170620A

SampleId1 : Z

SampleId2 :

Analysis commenced : 6/20/2017 17:31:01

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:02

[CV]

Position : STD6

Final concentrations

#1	0.01960	0.44715	0.01467	0.41731	0.44687	0.01075	0.04762	5.43560	0.00995
#2	0.02006	0.43613	0.01226	0.41485	0.44129	0.01068	0.05496	5.41423	0.00980
Mean	0.01983	0.44164	0.01347	0.41608	0.44408	0.01071	0.05129	5.42492	0.00987
%RSD	1.64320	1.76378	12.69425	0.41764	0.88761	0.47221	10.11513	0.27857	1.05387
	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10425	0.02149	0.05586	0.24915	4.23051	0.01913	5.45773	0.03472	0.02303
#2	0.10441	0.02200	0.05500	0.24885	4.19941	0.01893	5.40107	0.03472	0.01852
Mean	0.10433	0.02175	0.05543	0.24900	4.21496	0.01903	5.42940	0.03472	0.02078
%RSD	0.11174	1.65377	1.09115	0.08562	0.52171	0.73275	0.73784	0.00000	15.35175
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.68664	0.08906	0.37304	-0.00283	0.01264	0.25101	0.12667	0.00074	0.00920
#2	4.61148	0.08860	0.27202	-0.00155	0.00824	0.24080	0.12824	0.01077	0.01119
Mean	4.64906	0.08883	0.32253	-0.00219	0.01044	0.24590	0.12745	0.00576	0.01020
%RSD	1.14321	0.36831	22.14849	41.30334	29.83942	2.93693	0.86807	123.26258	13.80447
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.68664	0.08906	0.37304	-0.00283	0.01264	0.25101	0.12667	0.00074	0.00920
#2	4.61148	0.08860	0.27202	-0.00155	0.00824	0.24080	0.12824	0.01077	0.01119
Mean	4.64906	0.08883	0.32253	-0.00219	0.01044	0.24590	0.12745	0.00576	0.01020
%RSD	1.14321	0.36831	22.14849	41.30334	29.83942	2.93693	0.86807	123.26258	13.80447

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.11867	0.11056	0.02049	0.01734	0.15868	0.10720	0.04316	0.05578
#2	0.11618	0.11224	0.02032	0.01928	0.18286	0.10795	0.04473	0.05574
Mean	0.11742	0.11140	0.02047	0.01831	0.17077	0.10757	0.04394	0.05576
%RSD	1.50273	1.06691	0.12020	7.49687	10.01123	0.49067	2.53058	0.05166

	Pb	Se
	calc	calc
#1	0.00749	0.00638
#2	0.00498	0.01105
Mean	0.00623	0.00872
%RSD	28.49689	37.86996

Method : Paragon2 File : 170620A Printed : 6/20/2017 17:52:02

SampleId1 : Z SampleId2 : [SAMPLE]

Analysis commenced : 6/20/2017 17:32:09

Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00286	-0.18058	-0.00072	-0.00666	-0.00010	-0.00251	-0.00572	0.00396	-0.00029
#2	-0.00173	-0.17439	0.00691	-0.00581	-0.00022	-0.00256	-0.00217	0.00720	-0.00032
Mean	-0.00230	-0.17749	0.00310	-0.00623	-0.00016	-0.00254	-0.00394	0.00558	-0.00030
%RSD	34.86738	2.46336	174.34431	9.69585	55.48900	1.23520	63.55065	41.05793	7.94432

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00265	-0.00199	-0.00994	0.00361	1.10849	0.00524	-0.01398	0.00007	-0.00061
#2	-0.00101	-0.00063	-0.00995	0.00542	1.10603	0.00521	-0.00064	0.00045	0.00040
Mean	-0.00183	-0.00131	-0.00995	0.00452	1.10726	0.00523	-0.00731	0.00026	-0.00010
%RSD	63.42739	73.70401	0.05969	28.28466	0.15700	0.47088	129.12382	100.97822	684.82143

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09547	-0.00045	0.07011	-0.01029	0.00906	-0.01966	-0.00553	-0.01301	0.00569
#2	0.09518	0.00060	0.07011	-0.00376	0.00843	-0.01456	-0.00291	-0.00902	0.00559
Mean	0.09533	0.00008	0.07011	-0.00703	0.00875	-0.01711	-0.00422	-0.01102	0.00564
%RSD	0.21384	944.38958	0.00000	65.74499	5.13705	21.10681	43.87974	25.61917	1.24854

	Si	Sn	Sr	Ti	Tl	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.08722	-0.00582	-0.00149	-0.00170	-0.00574	-0.00139	-0.00159	-0.00051
#2	-0.08598	-0.00329	-0.00145	-0.00187	-0.01074	-0.00104	-0.00029	-0.00004
Mean	-0.08660	-0.00456	-0.00147	-0.00178	-0.00824	-0.00122	-0.00094	-0.00028
%RSD	1.00723	39.14322	1.68868	6.90211	42.92737	27.52899	97.80921	121.35973

Seser: STEVE WORKMAN

Pb
calc
#1 0.00262
#2 0.00437
Mean 0.00349
%RSD 35.46386

Method : Paragon2
File : 170620A
SampleId1 : CCV SampleId2 :
Analysis commenced : 6/20/2017 17:41:25
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:03
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19862	51.24248	0.48402	0.97783	1.01052	0.48348	0.48762	48.93384	0.46348
#2	0.19681	51.24659	0.48606	0.97804	1.00887	0.48575	0.48207	49.10473	0.46354
Mean	0.19771	51.24454	0.48504	0.97793	1.00970	0.48462	0.48485	49.01928	0.46351
%RSD	0.64428	0.00567	0.29661	0.01545	0.11576	0.33153	0.80934	0.24651	0.00854
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46757	0.96823	1.00199	19.01193	50.90256	0.50393	50.88702	0.95102	0.97273
#2	0.46722	0.96977	0.99948	19.06554	50.69177	0.50225	50.95674	0.95463	0.97663
Mean	0.46739	0.96900	1.00074	19.03873	50.79716	0.50309	50.92188	0.95283	0.97468
%RSD	0.05352	0.11273	0.17749	0.19911	0.29343	0.23723	0.09682	0.26834	0.28289
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.82270	0.95726	4.68599	0.98889	0.97944	5.06609	0.50175	0.98792	0.97919
#2	51.68090	0.95814	4.79691	0.98691	0.99727	5.10685	0.49917	1.00110	1.00018
Mean	51.75180	0.95770	4.74145	0.98790	0.98835	5.08647	0.50046	0.99451	0.98968
%RSD	0.19375	0.06524	1.65420	0.14171	1.27574	0.56660	0.36421	0.93692	1.49952
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.83366	1.02319	0.49732	0.47808	0.50636	4.82172	0.48842	0.97113	0.97368
#2	4.83014	1.01940	0.49710	0.48103	0.50074	4.80442	0.48660	0.97742	0.97435
Mean	4.83190	1.02129	0.49721	0.47955	0.50355	4.81307	0.48751	0.97428	0.97402
%RSD	0.05162	0.26188	0.03025	0.43572	0.78939	0.25416	0.26391	0.45646	0.04896

Method : Paragon2

File : 170620A

Printed : 6/20/2017 17:52:03

SampleId1 : CCB
Analysis commenced : 6/20/2017 17:42:34
Dilution ratio : 1.00000 to 1.00000 Tray :

[CB]
Position : STD2

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00030	0.01635	0.00246	-0.00153	0.00047	0.00015	0.00038	0.07020	-0.00026
#2	0.00071	0.00942	-0.00148	-0.00132	0.00060	0.00002	0.00394	0.07092	0.00057
Mean	0.00020	0.01289	0.00049	-0.00143	0.00053	0.00009	0.00216	0.07056	0.00015
%RSD	351.46127	38.03770	571.60888	10.59888	16.73358	109.85658	116.48676	0.72157	382.39298

	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00049	-0.00014	0.00084	0.02062	0.06532	0.00351	0.03432	0.00069	-0.00014
#2	0.00063	0.00104	0.00182	0.02032	0.09085	0.00354	0.04957	0.00094	0.00196
Mean	0.00007	0.00045	0.00133	0.02047	0.07809	0.00353	0.04194	0.00082	0.00091
%RSD	1151.07454	186.76233	52.58652	1.03993	23.12306	0.46520	25.71314	21.42505	163.77063

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.10489	0.00006	0.07011	-0.00476	0.00357	-0.01456	-0.00171	-0.00166	0.01047
#2	0.10335	0.00094	0.07011	0.00041	-0.00041	-0.00434	0.00253	0.00619	-0.00038
Mean	0.10412	0.00050	0.07011	-0.00218	0.00158	-0.00945	0.00041	0.00227	0.00504
%RSD	1.04426	125.07932	0.00000	168.07171	177.84256	76.43790	732.54107	244.67533	152.16329

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.00802	-0.00077	-0.00066	-0.00083	-0.00791	-0.02990	-0.00029	0.00035	0.00062
#2	0.01065	0.00133	-0.00059	-0.00036	0.00574	0.01385	0.00063	0.00009	0.00165
Mean	0.00933	0.00028	-0.00063	-0.00059	-0.00108	-0.00803	0.00017	0.00022	0.00114
%RSD	19.95700	537.95392	7.91257	56.23837	890.41144	385.47378	391.46715	82.02449	63.97181

	Pb calc	Se calc
#1	0.00079	0.00643
#2	-0.00013	0.00181
Mean	0.00033	0.00412
%RSD	199.33140	79.41757

Method : Paragon2
SampleId1 : CRI
Analysis commenced : 6/20/2017 17:43:42
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:03
[CV]

Position : STD6

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
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#1	0.02166	0.44333	0.01315	0.41464	0.44370	0.01056	0.05042	5.38344	0.01017
#2	0.02205	0.43662	0.01149	0.41229	0.44547	0.01059	0.04612	5.39286	0.00973
Mean	0.02186	0.43998	0.01232	0.41346	0.44458	0.01058	0.04827	5.38815	0.00995
%RSD	1.25721	1.07749	9.49279	0.40201	0.28210	0.23406	6.29843	0.12359	3.10090

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10485	0.02239	0.05617	0.25157	4.18361	0.01884	5.39916	0.03484	0.02226
#2	0.10493	0.02171	0.05617	0.25232	4.18559	0.01887	5.41762	0.03521	0.02272
Mean	0.10489	0.02205	0.05617	0.25194	4.18460	0.01886	5.40839	0.03502	0.02249
%RSD	0.05928	2.18424	0.00529	0.21156	0.03336	0.10874	0.24135	0.74943	1.46729

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.63097	0.08813	0.17904	0.00669	0.00597	0.24590	0.12887	0.00697	0.01119
#2	4.64363	0.08733	0.17904	0.00426	0.00782	0.23569	0.13270	0.01565	0.00860
Mean	4.63730	0.08773	0.17904	0.00547	0.00689	0.24080	0.13078	0.01131	0.00990
%RSD	0.19304	0.64411	0.00000	31.43254	19.06415	2.99923	2.06843	54.23649	18.48979

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.12340	0.10467	0.02040	0.02042	0.02315	0.21164	0.10892	0.04444	0.05597
#2	0.12376	0.11224	0.02042	0.02082	0.01711	0.20358	0.10812	0.04503	0.05572
Mean	0.12358	0.10846	0.02041	0.02062	0.02013	0.20761	0.10852	0.04473	0.05585
%RSD	0.20271	4.93090	0.06093	1.37236	21.22565	2.74514	0.52385	0.93288	0.31310

	Pb	Se
	calc	calc
#1	0.00621	0.00979
#2	0.00664	0.01095
Mean	0.00642	0.01037
%RSD	4.73483	7.93170

Method : Paragon2
File : 170620A
SampleId1 : ICV
SampleId2 :
Analysis commenced : 6/20/2017 17:46:03
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:03
[SAMPLE]

Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01016	0.19448	0.03147	0.09741	0.10694	0.00513	0.02405	1.03922	0.00448
#2	0.00978	0.18916	0.02752	0.09613	0.10688	0.00512	0.02051	1.03634	0.00460
Mean	0.00997	0.19182	0.02950	0.09677	0.10691	0.00512	0.02228	1.03778	0.00454
%RSD	2.65589	1.95875	9.45500	0.93692	0.04181	0.16563	11.24393	0.19647	1.93484

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01912	0.01057	0.02179	0.11624	0.85701	0.01634	1.06206	0.01034	0.02078

#2	0.01860	0.01049	0.02180	0.11564	0.86143	0.01637	1.04744	0.01034	0.02000
Mean	0.01886	0.01053	0.02179	0.11594	0.85922	0.01636	1.05475	0.01034	0.02039
%RSD	1.94269	0.49540	0.01752	0.36746	0.36402	0.15045	0.98018	0.00000	2.69734
#1	0.85670	0.02088	0.17904	0.01966	0.02069	0.17951	0.05072	0.03036	0.02810
#2	0.85535	0.02071	0.17904	0.01774	0.02009	0.21015	0.05071	0.03094	0.03238
Mean	0.85602	0.02079	0.17904	0.01870	0.02039	0.19483	0.05071	0.03065	0.03024
%RSD	0.11199	0.57213	0.00000	7.27332	2.09371	11.12047	0.00927	1.33469	10.01076
#1	0.10439	0.04879	0.01907	0.01934	0.03119	0.19336	0.02075	0.02128	0.02130
#2	0.10070	0.05677	0.01901	0.01946	0.02334	0.18300	0.02023	0.02066	0.02122
Mean	0.10254	0.05278	0.01904	0.01940	0.02726	0.18818	0.02049	0.02097	0.02126
%RSD	2.55066	10.69611	0.19595	0.44389	20.34228	3.89333	1.78322	2.10155	0.27194

Mean	0.09316	0.00016	0.07011	0.00016	-0.00106	0.04928	0.00473	0.00069	-0.00302
%RSD	0.29173	420.04228	0.00000	5534.66914	201.67333	36.63782	132.21680	832.45095	99.01171
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01399	0.01225	0.01497	-0.00210	-0.00324	0.04054	0.00164	0.00432	0.00264
#2	0.01275	0.00301	0.01499	-0.00194	-0.01794	0.02635	0.00127	0.00310	0.00248
Mean	0.01337	0.00763	0.01498	-0.00202	-0.01059	0.03344	0.00146	0.00371	0.00256
%RSD	6.53501	85.65953	0.08303	5.48864	98.14386	30.00641	17.93634	23.27749	4.54816
	Pb	Se							
	calc	calc							
#1	0.00041	-0.00184							
#2	-0.00172	-0.00173							
Mean	-0.00066	-0.00178							
%RSD	228.78928	4.73091							

Method : Paragon2 File : 170620A

SampleId1 : ICSAB SampleId2 :

Analysis commenced : 6/20/2017 17:48:14

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:04

[ICSAB]

Position : STD4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.20794	260.38814	0.10691	1.00091	0.53824	0.49236	0.49073	250.19646	0.97210
#2	0.20671	260.67346	0.09838	0.99268	0.53931	0.49289	0.48594	251.09415	0.96762
Mean	0.20733	260.53080	0.10265	0.99679	0.53878	0.49263	0.48833	250.64531	0.96986
%RSD	0.41970	0.07744	5.87154	0.58362	0.14142	0.07534	0.69326	0.25325	0.32680
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47332	0.48772	0.54641	103.51548	0.11032	1.08855	265.42793	0.47392	0.99441
#2	0.47133	0.48919	0.54457	103.60107	0.10689	1.08915	265.52952	0.47405	0.99441
Mean	0.47232	0.48845	0.54549	103.55827	0.10860	1.08885	265.47872	0.47398	0.99441
%RSD	0.29829	0.21193	0.23888	0.05844	2.23780	0.03917	0.02706	0.01853	0.00000
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08231	0.96496	1.16155	0.05995	0.04506	1.08834	0.62525	0.06651	0.03722
#2	0.08211	0.96071	1.05219	0.05284	0.05037	1.11386	0.62304	0.05531	0.05196
Mean	0.08221	0.96283	1.10687	0.05639	0.04771	1.10110	0.62414	0.06091	0.04459
%RSD	0.16528	0.31212	6.98611	8.91222	7.87251	1.63904	0.25033	13.00506	23.38794
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.98890	1.04698	1.02922	0.95928	0.09498	9.96317	0.49793	0.95777	0.49560
#2	0.98412	1.04823	1.02818	0.96355	0.09833	9.94701	0.49893	0.96032	0.49636
Mean	0.98651	1.04761	1.02870	0.96141	0.09665	9.95509	0.49843	0.95905	0.49598

%RSD	0.34271	0.08469	0.07128	0.31421	2.45167	0.11477	0.14154	0.18823	0.10832
	Pb	Se							
	calc	calc							
#1	0.05001	0.04697							
#2	0.05119	0.05308							
Mean	0.05060	0.05002							
%RSD	1.64360	8.63171							

Method : Paragon2 File : 170620A
SampleId1 : CCV **SampleId2** :
Analysis commenced : 6/20/2017 17:49:22
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:04
[CV]
Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19579	50.88520	0.49788	0.97045	1.00512	0.48615	0.47776	49.31249	0.46663
#2	0.19872	51.05452	0.48008	0.96971	1.00550	0.48677	0.48079	49.34554	0.46513
Mean	0.19726	50.96986	0.48898	0.97008	1.00531	0.48646	0.47928	49.32902	0.46588
%RSD	1.05267	0.23491	2.57444	0.05452	0.02683	0.08989	0.44661	0.04737	0.22857
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46799	0.97367	0.99614	19.10274	50.64361	0.50085	50.98191	0.95401	0.97756
#2	0.46679	0.97191	0.99377	19.11397	50.67126	0.50079	51.03808	0.95501	0.97733
Mean	0.46739	0.97279	0.99495	19.10835	50.65744	0.50082	51.01000	0.95451	0.97745
%RSD	0.18243	0.12746	0.16824	0.04155	0.03859	0.00819	0.07786	0.07390	0.01693
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.71786	0.96416	4.79691	0.99576	0.98496	5.09666	0.49255	0.99814	0.96941
#2	51.67663	0.96146	4.79691	0.98944	1.00022	5.09156	0.49536	0.99831	1.00818
Mean	51.69724	0.96281	4.79691	0.99260	0.99259	5.09411	0.49395	0.99822	0.98879
%RSD	0.05640	0.19778	0.00000	0.45016	1.08706	0.07072	0.40258	0.01231	2.77215
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.81339	1.03158	0.49446	0.47846	0.49651	4.77219	0.48817	0.98631	0.97434
#2	4.82628	1.02529	0.49416	0.47757	0.50650	4.79977	0.48822	0.98498	0.97405
Mean	4.81984	1.02843	0.49431	0.47801	0.50151	4.78598	0.48820	0.98564	0.97419
%RSD	0.18907	0.43296	0.04310	0.13114	1.40872	0.40748	0.00835	0.09480	0.02092
	Pb	Se							
	calc	calc							
#1	0.98856	0.97898							
#2	0.99663	1.00489							
Mean	0.99259	0.99194							
%RSD	0.57517	1.84730							

ted: 6/20/2017 17:52:10 User: STEVE WORKMAN
Method : Paragon2 File : 170620A
SampleId1 : CCB SampleId2 :
Analysis commenced : 6/20/2017 17:50:30
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 6/20/2017 17:52:04
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00061	0.01899	-0.00047	-0.00089	0.00060	0.00019	-0.00037	0.00004
#2	-0.00003	0.02748	-0.00441	-0.00292	0.00047	0.00014	-0.00164	0.00043
Mean	-0.00032	0.02324	-0.00244	-0.00191	0.00053	0.00016	-0.00101	0.00024
%RSD	129.94820	25.83618	114.37599	75.29560	16.73358	22.51007	89.13369	115.49435
	Co	Cr	Cu	Fe	K	Li	Mg	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00037	0.00049	0.00116	0.02424	0.17563	0.00355	0.04639	0.00071
#2	0.00037	-0.00027	0.00083	0.02288	0.17563	0.00354	0.04830	0.00141
Mean	0.00037	0.00011	0.00100	0.02356	0.17563	0.00354	0.04734	0.00106
%RSD	0.00119	494.04319	23.59878	4.06673	0.00000	0.23146	2.84743	46.59623
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10537	0.00124	0.07011	-0.00040	0.00058	-0.00434	-0.00171	0.00171
#2	0.10431	0.00014	0.07011	-0.00111	0.00154	0.01098	-0.00270	0.00131
Mean	0.10484	0.00069	0.07011	-0.00076	0.00106	0.00332	-0.00220	0.00151
%RSD	0.71300	112.29498	0.00000	66.13741	64.50819	326.43344	31.96450	18.65790
	Si	Sn	Sr	Ti	Tl	U	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00819	-0.00161	-0.00058	-0.00060	-0.00160	-0.01033	0.00028	0.00102
#2	0.00784	-0.00456	-0.00061	-0.00069	0.00097	-0.01954	-0.00035	0.00095
Mean	0.00802	-0.00309	-0.00059	-0.00064	-0.00032	-0.01494	-0.00003	0.00098
%RSD	3.04304	67.40722	4.19076	9.56891	574.17081	43.59685	1299.05616	4.43760
	Pb	Se						
	calc	calc						
#1	0.00025	0.00123						
#2	0.00066	-0.00100						
Mean	0.00045	0.00012						
%RSD	63.60475	1344.88601						

HEADER INFORMATION FOR ANALYTICAL SEQUENCE 170717A

Instrument: Trace2

Analyst: Steve Workman

Analysis Date: 07/17/2017

STANDARD SOLUTION CODES

Stock A (ST150604-1) Exp. 4-30-2020		
<u>Element</u>		<u>ug/ml</u>
Al, Ca, Mg		1000
K		500
Na		300
Fe		400
Li		20
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
A1	1/2 of Stock A	5ml of Stock A to 10ml final volume.
A2	1/2.5 of Stock A1	2ml of Stock A1 to a 5ml final volume.
A3	1/5 of Stock A1	1ml of Stock A1 to a 5ml final volume.
A4	1/10 of A1	1ml of Standard A1 up to a 10ml final volume.
A5	1/10 of A4	1ml of Standard A4 up to a 10ml final volume.
Stock B (ST170420-2) Exp. 04-30-2018		
<u>Element</u>		<u>ug/ml</u>
P, Si		100
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Sn, Sr, Ti, Zn		20
As, Cd, Co, Se, Tl, V		10
Sb		4
Be		2
Stock Ag- 1000 ug/ml (ST170531-1) Exp. 5-31-22		
The following dilutions of Stock Ag and Stock B are made to provide the daily calibration Standards.		
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
B1	1/2 of Stock B	5ml of Stock B, 0.02ml of Stock Ag
	1/500 Ag	up to a 10ml final volume.
B2	1/10 of B1	1.0ml of Standard B1 up to a 10ml final volume.
B3	1/10 of B2	1.0ml of Standard B2 up to a 10ml final volume.
Stock C (ST150701-1) Exp. 7/31/18		
<u>Element</u>		<u>ug/ml</u>
S, U		100
Bi, Zr		10
<u>Standard</u>	<u>Dilution</u>	<u>Procedure</u>
C1	1/2 of Stock C	5ml of Stock C up to a 10ml final volume.
C2	1/10 of C1	1.0ml of Standard C1 up to a 10ml final volume.
C3	1/10 of C2	1.0ml of Standard C2 up to a 10ml final volume.
RL STD (Reporting Limit Standard) Intermediate. (ST170322-2) Exp. 7-31-2018		
<u>Element</u>		<u>ug/ml</u>
K, Na		500
Ca, Mg		200
Al, U		100
B, Fe, P, S, Si		50
Li, Mo, Sn, Sr, Ti		10
Sb		8
Ni, As, Bi, Se, Tl, Zn, Zr		5
Pb		3
Ag, Ba, Co, Cr, Cu, Mn, V, Th		2
Be, Cd		1

RL STD (working standard) made daily by diluting the intermediate above 1000 fold. This working standard has concentration levels at the normal ALS-FC reporting limits for all elements except Ca, Mg and Na, K which are at 0.2ppm and 0.5ppm; this is below the normal ALS-FC reporting limit.

RL2 (working standard) made daily by diluting the intermediate above 333 fold.

Blank Solution

Double D.I. water, 3% HNO₃ and 5%HCl
Used for Std. Blank, ICB and CCB

CCV (ST170605-4) Exp. 10-19-2017	
<u>Element</u>	<u>ug/ml</u>
Al, Ca, Mg, K, Na	50
Fe	20
U, P, S, Si	5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	1
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.5
Ag, Th	0.2

ICV (ST170605-4) Exp. 10-19-2017

Prepared daily by diluting the CCV (described above) ½.
The 1/2 dilution is made by diluting 5ml of the CCV to a 10ml final volume.
The resulting concentrations are:

<u>Element</u>	<u>ug/ml</u>
Al, Ca, Mg, K, Na	25
Fe	10
U, P, S, Si	2.5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	0.5
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.25
Ag, Th	0.1

CRI (ST170605-3) Exp. 10-19-2017

Made By diluting
1.0ml of CRI Stock (ST170605-2) Exp. 10-19-2017
to a 100ml final volume.

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, K, Na	5.0
Al, B, Ba	0.4
Fe, U, P, S	0.2
Sb	0.12
Co, Si, Sn, V, Th	0.1
Ni	0.08
Cu, Bi, Zr	0.05
Zn	0.04
Mn	0.03
Ag, Cr, Li, Mo, Sr, Ti, Tl	0.02
Be, Cd, As, Se,	0.01
Pb	0.006

ICSA (ST170601-6)

Exp. 06-01-18

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, Al	250
Fe	100

ICSAB (ST170602-1) Exp. 10-19-17

<u>Element</u>	<u>ug/ml</u>
Ca, Mg, Al	250

Fe	100
U	10
B, Si, Li, Mo, Sn, Sr, Ti, Cd, Zn, Ni, P, S	1.0
Sb	0.6
Ba, Be, Co, V, Cr, Cu, Mn, Bi, Zr	0.5
Ag	0.2
As, Tl	0.1
Se, Pb, Th	0.05

Pipette ID Numbers

1.0ml to 5.0ml --- M-88
0.1ml to 1.0ml --- M-86
0.01ml to 0.1ml --- M-56

Acid Lot Numbers

HCl – J35042
HNO₃ – J41037

Inter Element Correction Information

The following table summarizes spectral interferences that have been identified and for which IEC's are used. If a sample contains a concentration of an interfering element that exceeds the upper analytical range, and an affected element is being determined, it is necessary to dilute the sample to bring the interfering element into analytical range.

<u>Interfering Element (ug/ml)</u>	<u>Affected Element</u>
Al (500)	Pb
Mg (500)	Th
Fe (200)	Se, Tl, V, Pb, U
Si (50)	Zr
U (50)	Al, Cr, Cu, Bi, Pb, Se, Ag, Tl, Si, Be
Ba (10)	Co
Cr (10)	Sb
Cu (10)	Bi
Mn (10)	Tl
Mo (10)	Al, Si, Pb, Sb
Ti (10)	Co, Bi, Si, Sn, Tl, Pb, Zr
As (5)	Cd
V (5)	Al, Be, Tl
Zr (5)	Ag

The following table lists element concentrations (ug/ml) that no significant spectral interferences have been observed.

<u>Element</u>	<u>Concentration</u>	<u>Element</u>	<u>Concentration</u>	<u>Element</u>	<u>Concentration</u>
K	500	Se	10	Li	5
Na	500	Pb	10	Cd	5
Ca	500	Zn	10	Co	5
P	50	Sr	10	Ag	2
S	50	Sn	10	Sb	2
Ni	10	Bi	5	Be	1
B	10	Tl	5		

2X – Dilution made by diluting 2.5ml of sample up to a 5ml final volume.
3X - Dilution made by diluting 2.0ml of sample up to a 6ml final volume.
4X - Dilution made by diluting 2.0ml of sample up to a 8ml final volume.
5X - Dilution made by diluting 1.0ml of sample to a 5ml final volume.
10X - Dilution made by diluting 0.5ml of sample to a 5ml final volume.
20X – Dilution made by diluting 0.25ml of sample to a 5ml final volume.
25X – Dilution made by diluting 0.2ml of sample to a 5ml final volume.

50X – Dilution made by diluting 0.1ml of sample to a 5ml final volume.

100X – Dilution made by diluting 0.05ml of sample to a 5ml final volume.

1000X – Dilution made by diluting a 10X dilution 100X.

Comments

1. Please see run log and work orders for elements of interest.

Daily Maintenance

1. Check/ Change Peristaltic pump tubing.
2. Check the torch for deposits, clean if necessary.
3. Check/ Empty drain water.

Daily Maintenance done by _____ SMW _____.

Monthly Maintenance

1. Check/Clean nebulizer and spray chamber.
2. Clean air filters
3. Check/Clean entrance slit.
4. Fill water re-circulating reservoir.

Monthly maintenance done by: SMW 07-14-2017

Major problems / adjustments / repairs recorded in the ICP Maintenance Log (3716).

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
MIXAHIGH	0.0000	493.7726	0.0052	-0.0042	0.0019	0.0011	0.0085	492.5272	0.0008	0.0008	-0.0007	-0.0091
MIXBHGH	1.9931	-0.0189	4.9923	9.9634	9.8800	0.9762	0.0116	-0.0981	4.9734	4.9522	9.8926	10.0096
MIXCHGH	-0.0062	0.3476	-0.0043	0.0245	0.0003	0.0001	5.0360	-0.1088	-0.0011	0.0063	-0.0086	0.0019
ICV	0.0984	25.5359	0.2466	0.5025	0.4978	0.2505	0.2636	25.5658	0.2464	0.2500	0.4989	0.4979
ICB	-0.0013	0.0066	-0.0003	-0.0011	-0.0007	0.0001	0.0013	0.0055	0.0002	-0.0004	-0.0004	-0.0008
CRI	0.0195	0.4268	0.0075	0.4037	0.4115	0.0103	0.0502	5.2006	0.0100	0.1038	0.0206	0.0511
LIV	0.0099	0.2152	0.0285	0.0991	0.1010	0.0053	0.0188	1.0386	0.0050	0.0200	0.0109	0.0201
ICSA	-0.0009	250.9768	-0.0057	-0.0019	0.0007	0.0008	0.0022	254.7719	0.0003	0.0000	-0.0012	-0.0041
ICSAB	0.1928	245.1937	0.0984	0.9801	0.5017	0.4746	0.5211	248.8163	0.9878	0.4793	0.4698	0.5152
CCV	0.1929	49.5740	0.4806	0.9816	0.9627	0.4801	0.5137	49.7563	0.4832	0.4828	0.9572	0.9702
CCB	-0.0010	0.0208	-0.0061	-0.0016	-0.0007	0.0002	-0.0026	0.0104	0.0004	-0.0006	-0.0005	-0.0012
IP170714-2MB	0.0002	0.0039	-0.0006	-0.0023	-0.0008	-0.0001	-0.0039	0.0402	0.0003	-0.0007	0.0008	-0.0003
Z	0.0978	1.9217	0.9408	0.0944	1.0110	0.0503	-0.0047	0.0506	0.4790	0.5107	0.2100	0.2643
1706546-2	-0.0018	97.5410	0.0083	0.0476	0.9625	0.0060	0.0036	178.0336	0.0006	0.1135	0.2338	0.1927
1706546-2D	-0.0019	92.9951	0.0069	0.0496	1.0463	0.0059	0.0063	202.5005	0.0004	0.1079	0.2221	0.1507
1706546-2L 5X	-0.0007	19.6475	-0.0029	0.0108	0.1949	0.0013	-0.0008	35.7209	0.0002	0.0236	0.0488	0.0371
1706546-2MS	0.0940	105.0399	0.9111	0.1419	1.8646	0.0519	0.0028	230.3032	0.4570	0.5645	0.4130	0.4153
1706546-2MSD	0.0942	102.1127	0.9153	0.1411	2.1747	0.0519	0.0083	213.0353	0.4571	0.5585	0.4081	0.3884
1706628-2	-0.0018	115.5542	0.0176	0.0682	1.3373	0.0076	0.0105	164.9066	0.0003	0.1428	0.2928	0.2832
IP170714-2LCS	0.0958	1.9053	0.9086	0.0890	0.9909	0.0483	-0.0005	37.1536	0.4512	0.4836	0.1973	0.2518
1706546-2A	-0.0008	95.1648	0.9388	0.1416	1.8967	0.0532	0.0071	207.0673	0.4569	0.5810	0.4096	0.4360
CCV	0.1941	50.5503	0.4847	0.9763	0.9867	0.4928	0.5021	50.2841	0.4725	0.4891	0.9769	0.9704
CCB	-0.0003	-0.0210	-0.0006	-0.0042	-0.0007	-0.0002	0.0003	0.0166	0.0002	-0.0009	0.0003	-0.0004
1706546-2 2X	-0.0002	49.2094	0.0036	0.0235	0.4893	0.0029	0.0026	88.9054	0.0005	0.0581	0.1214	0.0953
1706546-2D 2X	-0.0014	47.7641	0.0044	0.0242	0.5400	0.0029	0.0064	100.9242	0.0003	0.0553	0.1158	0.0756
1706546-2L 10X	0.0001	9.8546	0.0000	0.0050	0.0990	0.0004	0.0012	18.0551	0.0003	0.0115	0.0258	0.0195
1706546-2MS 2X	0.0484	55.1088	0.4765	0.0747	0.9846	0.0277	0.0038	120.0955	0.2355	0.3018	0.2231	0.2127
1706546-2MSD 2X	0.0477	53.6713	0.4767	0.0721	1.1507	0.0276	0.0030	109.9995	0.2338	0.2978	0.2191	0.1988
1706628-2 2X	-0.0012	60.0041	0.0084	0.0354	0.7011	0.0038	0.0079	84.9400	0.0005	0.0751	0.1564	0.1431
CRI	0.0191	0.4052	0.0102	0.4018	0.4217	0.0104	0.0482	5.2740	0.0098	0.1064	0.0206	0.0518
LCV	0.0098	0.1871	0.0315	0.0948	0.1027	0.0052	0.0198	1.0509	0.0048	0.0198	0.0109	0.0202
ICSA	-0.0001	255.3489	0.0012	-0.0047	0.0009	0.0005	0.0049	257.5775	0.0001	0.0002	-0.0003	-0.0030
ICSAB	0.1960	249.7357	0.1000	0.9794	0.5133	0.4861	0.5195	251.9141	0.9735	0.4856	0.4790	0.5191
CCV	0.1944	50.5303	0.4827	0.9777	0.9852	0.4914	0.5011	50.2850	0.4761	0.4912	0.9743	0.9758
CCB	-0.0016	0.0003	-0.0015	-0.0026	-0.0007	0.0000	0.0024	0.0200	0.0000	-0.0006	-0.0008	-0.0004
CCV	0.1900	49.8833	0.4720	0.9822	0.9581	0.4831	0.4783	48.6940	0.4870	0.4803	0.9544	0.9595
CCB	-0.0011	-0.0366	-0.0030	-0.0039	-0.0005	-0.0003	-0.0001	0.0198	0.0002	-0.0006	-0.0003	0.0000
IP170717-1MB	-0.0009	-0.0364	-0.0014	-0.0038	-0.0008	-0.0004	-0.0011	0.0161	0.0003	-0.0001	-0.0003	-0.0002
IP170717-1LCS	0.0984	1.9378	1.0009	0.1024	0.9947	0.0511	0.0019	39.1195	0.5083	0.4994	0.2012	0.2539
1706286-2 10X	-0.0009	-0.0093	0.0010	1.4452	1.6389	-0.0002	-0.0008	24.1851	-0.0002	0.0010	0.0012	0.0008
1706286-4 10X	0.0000	0.0018	0.0115	2.3618	0.1161	0.0000	0.0073	30.4028	0.0005	0.0026	0.0015	0.1974
1706299-3 10X	-0.0001	-0.0099	0.0009	0.3340	0.0426	-0.0001	0.0036	0.3686	0.0003	-0.0005	-0.0002	0.0007
1706299-4 10X	-0.0006	-0.0177	0.0000	0.1629	0.1072	-0.0002	-0.0011	0.3194	0.0004	0.0000	-0.0003	0.0000
1706329-3 10X	-0.0001	0.0070	0.7953	3.9461	0.0161	0.0090	0.0003	86.4244	0.0005	0.0004	0.0013	0.0003

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
1706329-4 10X	-0.0003	0.0082	0.8639	3.8838	0.0099	0.0076	-0.0048	64.9956	0.0003	0.0000	0.0063	0.0004
1706354-3	-0.0012	0.0796	0.0059	0.1436	0.0056	-0.0002	0.0000	8.7261	0.0003	-0.0004	0.0012	0.0042
1706354-3D	-0.0014	0.0758	0.0009	0.1391	0.0052	-0.0002	0.0028	8.7226	0.0010	0.0000	0.0012	0.0039
CCV	0.1928	50.1349	0.4726	0.9995	0.9604	0.4848	0.4887	49.1718	0.4977	0.4841	0.9599	0.9686
CCB	0.0002	-0.0204	-0.0031	0.0028	-0.0006	-0.0002	-0.0008	0.0227	0.0003	0.0003	0.0003	-0.0004
1706354-3L 5X	-0.0143	-0.0261	-0.0035	0.0243	0.0009	-0.0003	-0.0415	1.7440	-0.0025	-0.0095	-0.0098	-0.0083
1706354-3MS	0.0971	2.0149	0.9884	0.2397	0.9772	0.0505	0.0068	47.1683	0.5081	0.4955	0.1994	0.2565
1706354-3MSD	0.0986	2.0390	1.0072	0.2447	0.9909	0.0514	0.0027	47.7918	0.5179	0.5042	0.2028	0.2598
1706354-4	0.0005	-0.0038	0.0038	0.1184	0.0010	-0.0002	0.0031	8.2554	0.0002	0.0003	0.0006	0.0012
1706354-5	0.0000	0.1596	0.0052	0.1491	0.0132	-0.0002	0.0041	9.1042	0.0006	0.0001	0.0029	0.0049
1706354-6	0.0001	0.0049	0.0066	0.1147	0.0011	-0.0002	0.0065	8.1679	0.0000	-0.0001	0.0004	0.0008
1706509-1	0.0001	-0.0634	0.0023	1.1646	0.0124	-0.0011	0.0030	258.7912	0.0001	0.0028	0.0004	0.0016
1706655-1	-0.0003	-0.0187	0.0009	0.0046	0.0184	-0.0002	-0.0029	24.9473	-0.0001	0.0001	0.0002	-0.0004
1706655-1D	-0.0006	-0.0152	-0.0006	0.0040	0.0183	-0.0002	-0.0039	24.7594	0.0000	-0.0002	0.0006	-0.0001
1706655-1L 5X	0.0001	-0.0101	0.0002	0.0022	0.0034	-0.0002	0.0008	4.9472	0.0003	-0.0001	0.0004	-0.0007
CCV	0.1906	50.0417	0.4769	0.9972	0.9539	0.4820	0.4868	49.0726	0.4988	0.4829	0.9573	0.9669
CCB	-0.0002	-0.0145	0.0018	-0.0013	-0.0005	-0.0001	-0.0030	0.0228	0.0001	0.0000	-0.0005	-0.0006
1706655-1MS	0.0966	1.9239	0.9847	0.1091	0.9945	0.0506	0.0000	63.3830	0.5101	0.4930	0.1986	0.2530
1706655-1MSD	0.0963	1.8795	0.9771	0.1080	0.9766	0.0499	0.0038	62.8124	0.5032	0.4865	0.1973	0.2487
1706286-2 500X	-0.0009	0.0022	-0.0018	0.0290	0.0333	-0.0001	-0.0015	0.5631	-0.0001	0.0000	-0.0001	-0.0009
1706286-4 500X	-0.0007	0.0095	-0.0038	0.0464	0.0028	0.0000	-0.0020	0.6835	0.0002	-0.0002	-0.0004	0.0028
1706299-3	-0.0008	0.0216	-0.0028	3.3945	0.4025	-0.0001	-0.0008	2.9475	-0.0002	-0.0005	-0.0003	0.0003
1706299-4	-0.0015	0.0017	-0.0002	1.6429	1.0286	-0.0001	0.0043	2.5818	0.0003	0.0006	-0.0003	-0.0007
1706329-3 500X	-0.0003	0.0075	0.0160	0.0866	0.0010	0.0002	-0.0017	1.8790	0.0002	-0.0007	-0.0005	-0.0005
1706329-4 500X	-0.0002	0.0066	0.0165	0.0822	0.0008	0.0001	0.0016	1.4251	0.0004	0.0005	0.0003	-0.0004
Z	-0.0017	-0.1814	0.0007	-0.0070	-0.0008	-0.0024	-0.0075	-0.0014	-0.0006	-0.0017	-0.0013	-0.0096
1706509-1 100X	0.0001	0.0111	-0.0008	0.0179	0.0006	0.0000	-0.0019	3.4709	0.0004	-0.0001	0.0005	-0.0001
CCV	0.1902	49.5181	0.4748	0.9904	0.9453	0.4752	0.4912	48.4422	0.4976	0.4772	0.9440	0.9669
CCB	-0.0004	-0.0019	-0.0014	-0.0009	-0.0005	0.0000	0.0008	0.0271	0.0002	0.0001	0.0000	-0.0004
CRI	0.0197	0.4043	0.0084	0.4097	0.4031	0.0102	0.0504	5.1400	0.0105	0.1046	0.0206	0.0510
LCV	0.0092	0.1909	0.0287	0.0980	0.0994	0.0051	0.0180	1.0182	0.0051	0.0190	0.0096	0.0193
ICSA	0.0000	252.6112	0.0028	-0.0014	0.0009	0.0005	0.0090	252.7584	0.0005	0.0007	-0.0004	-0.0040
ICSAB	0.1943	248.6776	0.0949	1.0011	0.4967	0.4754	0.5012	245.9110	1.0329	0.4790	0.4703	0.5201
CCV	0.1913	49.8292	0.4804	0.9964	0.9456	0.4799	0.4947	49.1647	0.5047	0.4834	0.9558	0.9693
CCB	-0.0004	0.0137	-0.0013	-0.0009	-0.0004	0.0001	-0.0015	0.0381	0.0002	-0.0005	0.0000	-0.0010
CCV	0.1890	49.4674	0.4714	0.9723	0.9407	0.4764	0.4782	48.2554	0.4874	0.4757	0.9461	0.9561
CCB	-0.0004	-0.0355	-0.0014	-0.0034	-0.0008	-0.0003	-0.0028	0.0076	0.0003	-0.0001	0.0000	-0.0004
1706655-2	-0.0008	-0.0338	-0.0026	0.0010	0.0183	-0.0003	0.0008	24.8189	0.0002	0.0000	0.0003	0.0000
CRI	0.0193	0.3912	0.0080	0.4020	0.4047	0.0100	0.0467	5.1238	0.0109	0.1046	0.0212	0.0511
LCV	0.0096	0.1768	0.0280	0.0954	0.0991	0.0049	0.0191	1.0528	0.0052	0.0194	0.0103	0.0205
ICSA	0.0001	253.9133	-0.0004	-0.0037	0.0008	0.0003	0.0076	253.3722	0.0005	0.0009	-0.0003	-0.0031
ICSAB	0.1951	249.0286	0.0999	0.9836	0.4960	0.4825	0.4941	247.3602	1.0176	0.4829	0.4762	0.5141
CCV	0.1920	49.7326	0.4736	0.9766	0.9445	0.4833	0.4818	49.0219	0.4943	0.4835	0.9599	0.9578
CCB	0.0000	-0.0163	-0.0022	-0.0021	-0.0003	-0.0002	0.0020	0.0375	0.0005	0.0000	0.0004	-0.0003

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
MIXAHIGH	195.7308	9.9382	247.4096	492.8753	-0.0106	0.0020	148.4840	-0.0002	0.1883	-0.0030	0.0067	-0.0079
MIXBHGH	0.0591	0.0593	0.5615	-0.1043	9.8484	9.9123	0.4540	10.0453	49.0079	9.8796	9.9168	9.8611
MIXCHIGH	0.0598	0.0589	0.5672	-0.0409	0.0036	0.0023	0.4503	-0.0006	0.1332	-0.0067	-0.0060	-0.0071
ICV	9.8198	0.2421	25.2636	25.4324	0.4984	0.4954	26.1850	0.5165	2.5203	0.4989	0.5008	0.4979
ICB	0.0033	0.0033	0.0334	-0.0021	-0.0006	-0.0005	0.0605	-0.0006	-0.0319	-0.0003	-0.0028	0.0009
CRI	0.2026	0.0185	4.1252	5.0382	0.0310	0.0197	4.5719	0.0877	0.1883	0.0050	0.0043	0.0054
LIV	0.1146	0.0165	0.8597	0.9979	0.0102	0.0204	0.8631	0.0219	0.1883	0.0186	0.0212	0.0174
ICSA	105.4546	0.0046	0.0773	258.2582	-0.0073	-0.0007	0.0815	-0.0002	0.0782	-0.0013	-0.0033	-0.0003
ICRSAB	103.3348	1.0855	0.0934	251.8343	0.4606	0.9610	0.0747	0.9823	1.0171	0.0484	0.0493	0.0480
CCV	19.1272	0.5134	52.1240	49.5448	0.9528	0.9644	52.9963	1.0011	4.8310	0.9644	0.9778	0.9577
CCB	0.0058	0.0034	0.1358	0.0003	-0.0005	-0.0004	0.0624	-0.0006	-0.0319	-0.0002	-0.0035	0.0015
IP170714-2MB	0.0165	0.0033	0.0865	0.0098	-0.0001	0.0005	0.0692	0.0007	-0.0319	0.0016	-0.0006	0.0026
Z	0.9994	0.0035	0.1062	0.0043	0.5121	0.9913	0.0671	0.5246	0.0231	0.4905	0.4945	0.4886
1706546-2	212.2801	0.1790	24.4956	72.7763	5.2451	0.0019	8.3230	0.2478	5.0582	0.0777	0.0697	0.0817
1706546-2D	205.6706	0.1722	23.6342	75.8835	5.0058	0.0021	9.3338	0.2344	4.4341	0.0675	0.0599	0.0713
1706546-2L 5X	39.4678	0.0321	4.8225	14.9899	1.0955	0.0007	1.6504	0.0518	1.1279	0.0167	0.0156	0.0172
1706546-2MS	201.9673	0.7434	66.7317	120.5884	5.5466	0.8791	51.2718	0.7064	4.3775	0.5052	0.5169	0.4994
1706546-2MSD	204.3664	0.7252	66.3939	111.9540	5.3510	0.8713	51.5756	0.7039	3.8688	0.5180	0.5331	0.5105
1706628-2	252.3668	0.2177	29.5608	71.1219	5.6115	0.0020	4.1150	0.3224	6.2566	0.0795	0.0759	0.0814
IP170714-2LCS	0.9390	0.4708	36.0898	37.2265	0.4823	0.9580	37.6302	0.4832	0.0782	0.4723	0.4836	0.4666
1706546-2A	195.9540	0.7266	64.9585	108.3820	5.4070	0.9528	51.3381	0.6927	4.9446	0.5434	0.5470	0.5417
CCV	19.2841	0.5132	51.3439	50.6000	0.9764	0.9753	52.7109	0.9707	4.9446	0.9913	0.9981	0.9879
CCB	0.0089	0.0033	0.1038	0.0067	-0.0004	0.0001	0.0671	0.0004	0.0231	0.0010	-0.0038	0.0033
1706546-2 2X	102.9920	0.0827	11.2731	37.2858	2.7070	0.0016	3.8533	0.1248	2.6882	0.0389	0.0356	0.0405
1706546-2D 2X	100.2876	0.0811	11.0663	39.1708	2.6042	0.0002	4.4147	0.1197	2.3525	0.0355	0.0286	0.0389
1706546-2L 10X	19.3438	0.0163	2.0082	7.6087	0.5599	-0.0001	0.7069	0.0288	0.6298	0.0090	0.0089	0.0090
1706546-2MS 2X	104.3089	0.3521	32.5754	63.9679	2.9928	0.4628	25.4662	0.3701	2.5203	0.2743	0.2757	0.2736
1706546-2MSD 2X	100.1592	0.3462	32.6778	59.2952	2.8748	0.4575	25.7934	0.3644	2.1850	0.2826	0.2780	0.2849
1706628-2 2X	129.0775	0.1033	14.0858	37.6190	2.9946	0.0009	1.9725	0.1648	3.4743	0.0401	0.0394	0.0404
CRI	0.2103	0.0186	4.1959	5.1584	0.0316	0.0196	4.6157	0.0863	0.1883	0.0054	0.0020	0.0071
LCV	0.1156	0.0165	0.8262	1.0190	0.0104	0.0202	0.8675	0.0201	0.1883	0.0197	0.0198	0.0196
ICSA	105.6723	0.0046	0.0703	263.9266	-0.0070	0.0000	0.0820	0.0006	0.0782	0.0014	0.0021	0.0010
ICRSAB	103.5478	1.0888	0.0735	257.3036	0.4701	0.9761	0.0751	0.9627	1.0725	0.0486	0.0474	0.0493
CCV	19.2016	0.5153	51.4783	50.6466	0.9709	0.9773	53.0539	0.9816	4.8878	0.9890	0.9949	0.9860
CCB	0.0117	0.0033	0.1110	0.0043	-0.0004	-0.0007	0.0662	0.0002	0.0782	0.0000	-0.0049	0.0025
CCV	19.6208	0.4986	48.7048	49.8390	0.9778	0.9505	51.3349	0.9684	5.2289	0.9547	0.9686	0.9477
CCB	0.0090	0.0032	0.0578	0.0058	-0.0004	0.0001	0.0656	-0.0013	0.0782	-0.0011	-0.0059	0.0013
IP170717-1MB	0.0164	0.0032	0.0667	-0.0012	-0.0004	-0.0007	0.0608	0.0008	0.0782	-0.0010	-0.0011	-0.0009
IP170717-1LCS	1.0413	0.4974	37.3018	40.1681	0.5057	0.9738	39.9587	0.5074	10.3889	0.4942	0.4998	0.4914
1706286-2 10X	4.5144	0.5558	4.0133	2.8525	0.0677	0.0002	367.2551	0.0007	-0.1299	0.0011	-0.0018	0.0025
1706286-4 10X	12.2068	0.7748	8.3614	3.6956	0.2488	0.0012	442.9523	0.0215	23.1151	0.0001	0.0005	-0.0002
1706299-3 10X	0.0220	0.0277	0.6115	0.0661	0.0093	0.0004	105.7666	0.0025	-0.2858	0.0008	-0.0010	0.0016
1706299-4 10X	0.0990	0.0186	0.6173	0.0640	0.0123	0.0004	78.5355	0.0009	-0.0259	-0.0007	-0.0037	0.0008
1706329-3 10X	0.1477	6.0529	145.3106	9.3350	0.0088	0.0006	441.1217	0.0019	-0.1299	0.0017	0.0024	0.0013

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
1706329-4 10X	0.2503	5.7843	151.9967	7.6566	0.0126	-0.0002	424.3181	0.0059	-0.0779	0.0003	-0.0041	0.0025
1706354-3	2.2264	0.0522	3.5598	0.4848	0.0519	0.0042	50.1346	0.0069	0.0261	0.0019	-0.0017	0.0037
1706354-3D	2.2136	0.0514	3.5421	0.4857	0.0515	0.0031	51.1927	0.0064	0.0261	0.0001	-0.0028	0.0015
CCV	19.7339	0.5022	49.2655	50.1848	0.9815	0.9565	50.8878	0.9867	5.1687	0.9640	0.9764	0.9579
CCB	0.0103	0.0034	0.0857	0.0150	-0.0002	0.0011	0.0947	0.0002	0.0782	-0.0004	-0.0005	-0.0004
1706354-3L 5X	0.4296	0.0105	0.5968	0.0070	0.0083	-0.0037	9.0602	-0.0074	0.0261	0.0018	-0.0559	0.0306
1706354-3MS	3.1034	0.5783	44.0469	39.9354	0.5458	0.9671	93.6151	0.5150	10.2212	0.4890	0.4949	0.4861
1706354-3MSD	3.1263	0.5886	44.5127	40.3760	0.5542	0.9820	94.5196	0.5209	10.4448	0.4981	0.5050	0.4946
1706354-4	1.5989	0.0504	3.5098	0.4802	0.0648	0.0046	51.1448	0.0067	0.0261	0.0000	0.0002	0.0000
1706354-5	2.8337	0.0513	3.5740	0.5001	0.0589	0.0032	52.2642	0.0089	0.0261	0.0033	0.0042	0.0028
1706354-6	1.5763	0.0498	3.4530	0.4646	0.0437	0.0036	50.9008	0.0056	0.0782	0.0016	-0.0004	0.0026
1706509-1	0.0070	2.9388	57.5555	643.4730	0.2994	0.0022	269.8523	0.0192	0.0782	-0.0014	0.0011	-0.0026
1706655-1	0.0083	0.0054	0.9693	4.3948	0.0005	-0.0004	3.3789	0.0005	0.0782	0.0000	-0.0033	0.0016
1706655-1D	0.0217	0.0040	0.9276	4.3068	0.0005	0.0000	2.6744	0.0000	0.1302	-0.0022	-0.0019	-0.0024
1706655-1L 5X	0.0065	0.0038	0.2351	0.8675	0.0000	-0.0010	0.6609	0.0028	0.0782	-0.0006	-0.0014	-0.0002
CCV	19.6519	0.5018	49.2552	50.1486	0.9759	0.9536	50.2179	0.9910	5.0608	0.9549	0.9758	0.9445
CCB	0.0101	0.0035	0.0845	0.0095	-0.0002	0.0001	0.1207	0.0010	0.0782	-0.0015	-0.0025	-0.0010
1706655-1MS	0.9878	0.5009	38.7625	43.9443	0.4980	0.9618	42.3366	0.5109	10.0538	0.4850	0.4912	0.4820
1706655-1MSD	0.9696	0.4921	38.1092	43.4358	0.4900	0.9488	41.6763	0.5023	9.8865	0.4820	0.4909	0.4775
1706286-2 500X	0.1012	0.0111	0.1257	0.0774	0.0081	0.0008	9.1305	0.0010	0.0782	0.0005	-0.0033	0.0024
1706286-4 500X	0.2586	0.0138	0.1644	0.0829	0.0120	0.0000	13.4632	0.0022	0.4953	-0.0008	-0.0028	0.0002
1706299-3	0.0831	0.3074	8.5344	0.5087	0.0193	-0.0007	504.4192	0.0001	0.1302	-0.0006	-0.0039	0.0011
1706299-4	0.8697	0.1982	8.0160	0.5411	0.0456	-0.0007	456.9890	0.0006	-0.0779	0.0004	-0.0027	0.0020
1706329-3 500X	0.0172	0.0935	2.2947	0.2136	0.0072	-0.0005	14.5400	0.0019	-0.1819	0.0011	-0.0005	0.0018
1706329-4 500X	0.0137	0.0882	2.4098	0.1769	0.0074	0.0000	14.1619	0.0012	0.0261	0.0003	-0.0001	0.0005
Z	-0.0010	0.0055	1.1699	-0.0113	-0.0006	-0.0017	0.1560	-0.0009	0.0261	0.0024	-0.0079	0.0075
1706509-1 100X	0.0086	0.0333	0.3764	8.1995	0.0093	-0.0007	97.4944	0.0028	0.0261	0.0003	0.0010	-0.0001
CCV	19.3998	0.5008	49.1399	49.5129	0.9625	0.9431	51.0169	0.9976	5.0068	0.9389	0.9653	0.9258
CCB	0.0115	0.0034	0.0877	0.0138	-0.0002	-0.0005	0.0915	0.0007	0.1302	0.0004	-0.0019	0.0015
CRI	0.2083	0.0182	3.9524	5.0854	0.0316	0.0190	4.4658	0.0889	0.2866	0.0047	0.0053	0.0044
LCV	0.1178	0.0163	0.8448	1.0056	0.0101	0.0190	0.8601	0.0215	0.2866	0.0188	0.0145	0.0210
ICSA	107.2807	0.0046	0.1280	261.8430	-0.0075	0.0016	0.0967	0.0014	0.1302	0.0023	0.0093	-0.0012
ICSAB	105.0019	1.0740	0.1232	255.6731	0.4713	0.9544	0.0845	0.9904	0.9661	0.0493	0.0538	0.0470
CCV	19.6207	0.5028	49.4442	50.0595	0.9722	0.9503	51.7774	1.0032	4.9529	0.9525	0.9758	0.9409
CCB	0.0158	0.0035	0.1889	0.0223	-0.0001	0.0001	0.0950	-0.0002	0.0782	0.0000	-0.0033	0.0017
CCV	19.4505	0.4949	48.5986	49.5916	0.9670	0.9375	51.0089	0.9659	5.2227	0.9446	0.9648	0.9345
CCB	0.0050	0.0033	0.1819	0.0021	-0.0005	0.0006	0.0641	0.0005	0.0782	0.0001	-0.0009	0.0005
1706655-2	0.0024	0.0037	1.0326	4.3501	-0.0005	-0.0001	2.6354	0.0003	0.0782	-0.0011	-0.0034	0.0001
CRI	0.2184	0.0181	4.0304	5.1096	0.0321	0.0190	4.4733	0.0871	0.2866	0.0051	0.0012	0.0071
LCV	0.1166	0.0162	0.8901	1.0267	0.0108	0.0198	0.8738	0.0213	0.2866	0.0198	0.0171	0.0211
ICSA	108.6228	0.0045	0.1400	264.7333	-0.0070	0.0003	0.0881	0.0005	0.0782	0.0023	0.0074	-0.0003
ICSAB	106.6117	1.0607	0.1559	258.4662	0.4791	0.9588	0.0776	0.9716	1.0185	0.0496	0.0574	0.0456
CCV	19.7222	0.4968	48.7692	50.3135	0.9804	0.9504	51.3195	0.9771	5.1147	0.9605	0.9843	0.9487
CCB	0.0062	0.0035	0.2293	0.0291	-0.0001	0.0004	0.0802	0.0002	0.0782	0.0002	-0.0026	0.0016

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
MIXAHIGH	0.1473	0.0143	0.0054	0.0244	-0.0041	0.0022	0.0002	0.0037	-0.0021	-0.0167	0.1014	0.0065
MIXBHIGH	0.0012	2.0373	4.9456	4.9597	4.9385	49.3928	9.9344	9.9250	9.7118	4.9958	-0.0711	4.9658
MIXCHIGH	49.7642	0.0005	0.0035	0.0068	0.0018	0.0618	0.0183	0.0004	0.0031	0.0046	49.8468	-0.0103
ICV	2.4433	0.2609	0.4957	0.5047	0.4912	2.4137	0.5187	0.2514	0.2413	0.2527	2.5011	0.2484
ICB	-0.0118	-0.0011	0.0003	0.0040	-0.0016	0.0005	0.0006	-0.0019	-0.0004	0.0012	-0.0068	-0.0007
CRI	0.1857	0.1241	0.0110	0.0107	0.0112	0.0994	0.1053	0.0183	0.0186	0.0190	0.1896	0.1023
LIV	0.1807	0.0509	0.0272	0.0324	0.0246	0.0957	0.0550	0.0182	0.0192	0.0296	0.2022	0.0205
ICSA	0.0332	0.0057	0.0035	0.0095	0.0005	0.0049	0.0035	0.0140	-0.0018	-0.0089	0.0420	0.0034
ICSAB	0.9957	0.6006	0.0511	0.0566	0.0483	0.9208	1.0221	0.9919	0.8983	0.0905	9.6948	0.4806
CCV	4.8608	0.4994	0.9691	0.9870	0.9602	4.6401	1.0175	0.4866	0.4613	0.4898	4.7907	0.4794
CCB	-0.0018	-0.0030	0.0021	0.0036	0.0014	-0.0028	0.0014	-0.0019	-0.0003	0.0003	-0.0250	-0.0009
IP170714-2MB	-0.0018	0.0012	0.0005	-0.0002	0.0008	-0.0028	0.0068	-0.0018	-0.0008	-0.0113	-0.0006	0.0001
Z	0.0007	0.4855	1.7674	1.7665	1.7679	0.9389	0.5157	0.5023	0.4919	1.8890	-0.0272	0.5189
1706546-2	22.6575	0.0030	0.0042	-0.0024	0.0075	12.7116	0.0111	0.3948	1.5448	-0.0168	0.0405	0.1679
1706546-2D	21.1623	0.0040	0.0079	0.0088	0.0075	13.2735	0.0130	0.4291	1.5278	-0.0133	0.0451	0.1644
1706546-2L 5X	4.7008	0.0004	0.0011	0.0057	-0.0012	2.6864	0.0011	0.0797	0.3188	-0.0056	-0.0033	0.0333
1706546-2MS	20.5847	0.2450	1.7185	1.7364	1.7096	13.1580	0.4846	0.8504	1.9955	1.7904	0.0751	0.6283
1706546-2MSD	20.9097	0.2346	1.7143	1.7265	1.7082	14.3183	0.4924	0.8532	2.0063	1.7831	0.0652	0.6242
1706628-2	18.2869	0.0079	0.0018	0.0002	0.0026	14.5350	0.0123	0.5083	1.9969	-0.0185	0.0479	0.2073
IP170714-2LCS	0.0082	0.4746	1.7457	1.7492	1.7439	0.9207	0.4974	0.4908	0.4812	1.8592	-0.0032	0.4962
1706546-2A	22.2024	0.4878	1.8426	1.8460	1.8408	13.1028	0.5093	0.8510	1.9564	1.8192	0.0512	0.6409
CCV	5.0708	0.4992	0.9891	0.9981	0.9846	4.7920	1.0166	0.4918	0.4882	0.4966	4.9246	0.4886
CCB	-0.0043	-0.0008	-0.0002	-0.0046	0.0020	0.0045	-0.0010	-0.0018	-0.0005	-0.0050	-0.0108	-0.0005
1706546-2 2X	11.8687	0.0007	0.0022	0.0068	-0.0001	6.6273	0.0021	0.1988	0.8079	-0.0109	0.0065	0.0847
1706546-2D 2X	11.2162	0.0029	-0.0040	-0.0068	-0.0026	6.9911	0.0054	0.2197	0.8098	-0.0071	0.0144	0.0833
1706546-2L 10X	2.4258	0.0016	-0.0012	0.0001	-0.0018	1.3779	-0.0010	0.0394	0.1661	-0.0051	0.0044	0.0172
1706546-2MS 2X	11.1912	0.1274	0.9306	0.9426	0.9246	7.1437	0.2577	0.4418	1.0980	0.9528	0.0227	0.3341
1706546-2MSD 2X	11.3837	0.1220	0.9336	0.9338	0.9334	7.9791	0.2514	0.4450	1.1057	0.9321	0.0032	0.3285
1706628-2 2X	9.8336	0.0037	0.0026	0.0009	0.0034	7.8214	0.0045	0.2635	1.0926	-0.0086	0.0181	0.1074
CRI	0.1982	0.1227	0.0121	0.0109	0.0126	0.1056	0.1037	0.0184	0.0199	0.0235	0.1771	0.1045
LCV	0.1957	0.0478	0.0338	0.0404	0.0305	0.0994	0.0513	0.0182	0.0197	0.0259	0.1959	0.0206
ICSA	0.0457	0.0050	0.0017	0.0102	-0.0026	0.0099	-0.0022	0.0140	-0.0014	-0.0090	0.0344	0.0021
ICSAB	1.0857	0.6062	0.0551	0.0642	0.0506	0.9446	1.0319	0.9981	0.9348	0.0948	9.9447	0.4868
CCV	5.0683	0.4971	1.0001	1.0164	0.9920	4.7714	1.0247	0.4906	0.4803	0.4905	4.9190	0.4885
CCB	-0.0093	-0.0019	-0.0002	0.0007	-0.0007	0.0033	-0.0004	-0.0019	-0.0002	-0.0032	-0.0205	-0.0010
CCV	5.1208	0.4835	0.9741	0.9848	0.9687	4.7062	0.9940	0.4700	0.4733	0.4851	4.8111	0.4780
CCB	-0.0043	-0.0040	-0.0002	-0.0007	0.0001	0.0049	-0.0033	-0.0018	-0.0003	0.0076	-0.0085	-0.0008
IP170717-1MB	-0.0118	-0.0012	0.0021	0.0049	0.0007	0.0142	0.0021	-0.0018	-0.0001	-0.0040	-0.0131	-0.0003
IP170717-1LCS	10.4836	0.4945	2.0644	2.0787	2.0573	1.0491	0.5090	0.4820	0.4774	1.9669	-0.0124	0.5075
1706286-2 10X	0.3132	-0.0049	0.0015	0.0039	0.0003	2.1358	-0.0010	3.9355	0.0002	-0.0011	-0.0132	-0.0004
1706286-4 10X	17.9293	0.0005	0.0034	0.0061	0.0020	3.3718	-0.0031	4.3018	0.0003	0.0028	-0.0030	0.0002
1706299-3 10X	1.2432	-0.0029	-0.0001	0.0012	-0.0007	1.8064	0.0008	0.0354	-0.0002	-0.0008	-0.0120	-0.0004
1706299-4 10X	0.0907	-0.0027	-0.0003	0.0041	-0.0024	1.6648	0.0014	0.0220	0.0000	-0.0012	-0.0012	0.0000
1706329-3 10X	46.2480	0.0019	-0.0026	0.0019	-0.0049	2.4190	-0.0014	2.2858	-0.0001	0.0099	-0.0036	-0.0002

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
1706329-4 10X	65.0227	-0.0006	-0.0004	0.0026	-0.0018	1.6968	-0.0010	1.4664	-0.0002	0.0039	-0.0099	-0.0005
1706354-3	11.5012	-0.0024	-0.0007	0.0010	-0.0016	22.8656	0.0008	0.0346	0.0034	0.0015	-0.0165	0.0075
1706354-3D	11.5112	-0.0046	-0.0007	-0.0006	-0.0008	22.8799	-0.0004	0.0326	0.0033	-0.0033	-0.0148	0.0080
CCV	5.1408	0.4840	0.9648	0.9870	0.9537	4.7251	1.0039	0.4735	0.4691	0.4531	4.8240	0.4818
CCB	-0.0118	0.0002	0.0000	0.0018	-0.0009	0.0061	-0.0010	-0.0018	-0.0004	0.0079	0.0034	-0.0001
1706354-3L 5X	2.1333	-0.0213	0.0029	-0.0211	0.0150	4.2450	-0.0070	0.0056	0.0004	-0.0114	-0.2852	-0.0090
1706354-3MS	21.5148	0.4878	2.0289	2.0538	2.0165	23.2109	0.5079	0.5083	0.4660	1.9323	0.0019	0.5088
1706354-3MSD	21.7399	0.5012	2.0533	2.0715	2.0442	23.3661	0.5176	0.5170	0.4723	1.9745	-0.0152	0.5151
1706354-4	11.2862	0.0000	0.0048	0.0111	0.0016	22.1948	0.0010	0.0243	0.0005	0.0185	0.0086	0.0081
1706354-5	11.5762	-0.0021	0.0023	0.0058	0.0005	23.3502	0.0004	0.0425	0.0067	0.0130	-0.0046	0.0083
1706354-6	11.1887	-0.0030	0.0019	0.0095	-0.0020	22.0010	-0.0012	0.0238	0.0005	-0.0013	-0.0096	0.0072
1706509-1	1046.8677	0.0008	4.3669	4.3988	4.3510	2.7748	0.0119	16.7566	-0.0021	0.0065	0.0097	0.0009
1706655-1	3.9358	-0.0016	0.0009	0.0046	-0.0009	5.5380	-0.0014	0.1059	-0.0001	0.0011	-0.0136	0.0018
1706655-1D	3.5683	-0.0038	-0.0001	-0.0016	0.0007	5.4834	0.0019	0.1030	0.0004	0.0044	-0.0114	0.0021
1706655-1L 5X	0.7032	-0.0032	-0.0001	0.0063	-0.0033	1.0837	0.0039	0.0197	-0.0003	-0.0006	-0.0063	0.0003
CCV	5.1308	0.4796	0.9649	0.9802	0.9572	4.7019	1.0097	0.4725	0.4616	0.4638	4.7861	0.4807
CCB	-0.0093	-0.0020	-0.0009	0.0042	-0.0035	0.0051	-0.0010	-0.0018	-0.0004	0.0026	-0.0125	-0.0002
1706655-1MS	13.6964	0.4927	2.0156	2.0442	2.0013	6.3179	0.4989	0.5804	0.4588	1.9451	-0.0164	0.5040
1706655-1MSD	13.4789	0.4856	1.9821	2.0156	1.9653	6.2474	0.4997	0.5688	0.4514	1.9185	-0.0016	0.4961
1706286-2 500X	0.0032	-0.0032	0.0003	0.0017	-0.0005	0.0439	-0.0016	0.0803	-0.0004	-0.0002	0.0005	-0.0005
1706286-4 500X	0.3507	-0.0020	0.0019	0.0031	0.0013	0.0666	0.0002	0.0889	-0.0004	-0.0022	-0.0150	-0.0010
1706299-3	12.6988	-0.0011	0.0032	0.0049	0.0024	17.3660	0.0053	0.3328	-0.0001	0.0063	-0.0200	-0.0006
1706299-4	0.7582	-0.0031	-0.0020	0.0014	-0.0036	16.1761	0.0002	0.2084	0.0000	0.0048	-0.0208	-0.0007
1706329-3 500X	0.9082	-0.0029	0.0000	0.0003	-0.0001	0.0551	-0.0037	0.0514	-0.0006	0.0029	-0.0097	-0.0003
1706329-4 500X	1.2807	-0.0017	0.0019	0.0073	-0.0009	0.0383	-0.0025	0.0314	-0.0002	0.0000	-0.0051	0.0005
Z	-0.0193	-0.0078	0.0008	-0.0032	0.0028	-0.0901	-0.0070	-0.0020	-0.0009	-0.0038	-0.0614	-0.0011
1706509-1 100X	64.0722	-0.0007	0.0385	0.0427	0.0364	0.0352	0.0027	0.2397	0.0000	0.0016	-0.0046	0.0003
CCV	5.0308	0.4854	0.9566	0.9871	0.9413	4.6370	0.9912	0.4744	0.4495	0.4723	4.7400	0.4761
CCB	-0.0018	-0.0019	0.0031	0.0044	0.0024	0.0011	-0.0002	-0.0018	-0.0005	0.0050	-0.0108	-0.0003
CRI	0.2007	0.1217	0.0091	0.0146	0.0064	0.1015	0.1068	0.0177	0.0185	0.0244	0.1975	0.1026
LCV	0.2057	0.0515	0.0316	0.0362	0.0293	0.0927	0.0493	0.0176	0.0185	0.0276	0.1772	0.0196
ICSA	0.0357	0.0059	0.0000	0.0084	-0.0042	0.0077	0.0047	0.0136	-0.0014	-0.0047	0.0361	0.0032
ICCSAB	1.0732	0.5953	0.0500	0.0604	0.0448	0.9319	1.0197	0.9721	0.8813	0.0812	9.6751	0.4842
CCV	5.0658	0.4847	0.9561	0.9799	0.9442	4.6673	1.0029	0.4751	0.4497	0.4802	4.7375	0.4793
CCB	-0.0043	-0.0011	0.0000	0.0001	-0.0001	0.0009	-0.0022	-0.0017	-0.0003	0.0071	-0.0148	-0.0003
CCV	5.1208	0.4713	0.9536	0.9671	0.9468	4.6481	0.9868	0.4685	0.4599	0.4704	4.7134	0.4758
CCB	-0.0118	-0.0039	0.0027	0.0088	-0.0003	0.0014	0.0019	-0.0019	-0.0005	0.0023	-0.0040	-0.0004
1706655-2	3.5308	-0.0023	0.0002	0.0041	-0.0018	5.5183	-0.0031	0.1031	-0.0001	0.0031	-0.0176	0.0021
CRI	0.1957	0.1169	0.0110	0.0125	0.0103	0.1044	0.1045	0.0176	0.0188	0.0225	0.1867	0.1021
LCV	0.2057	0.0469	0.0275	0.0324	0.0250	0.0973	0.0468	0.0175	0.0191	0.0305	0.1863	0.0201
ICSA	0.0282	0.0052	0.0009	0.0141	-0.0057	0.0095	-0.0006	0.0135	-0.0016	-0.0058	0.0183	0.0032
ICCSAB	1.1032	0.5869	0.0504	0.0614	0.0449	0.9424	1.0143	0.9648	0.9131	0.0824	9.6818	0.4862
CCV	5.1258	0.4763	0.9639	0.9755	0.9581	4.6948	0.9985	0.4719	0.4654	0.4753	4.7572	0.4814
CCB	-0.0218	-0.0019	0.0010	0.0015	0.0008	0.0034	0.0002	-0.0017	0.0000	0.0052	-0.0028	-0.0005

Sample Id1	Zn	Zr
MIXAHIGH	0.0081	0.0076
MIXBHGH	10.2584	-0.0133
MIXCHIGH	-0.0305	4.9806
ICV	0.4876	0.5141
ICB	-0.0017	0.0003
CRI	0.0385	0.0537
LIV	0.0210	0.0216
ICSA	0.0027	0.0023
ICSAB	0.8987	0.4943
CCV	0.9364	0.9865
CCB	-0.0008	0.0003
IP170714-2MB	0.0015	0.0010
Z	0.4832	0.0007
1706546-2	0.4171	0.0547
1706546-2D	0.3957	0.0537
1706546-2L 5X	0.0916	0.0119
1706546-2MS	0.8402	0.0622
1706546-2MSD	0.8342	0.0611
1706628-2	0.5150	0.0563
IP170714-2LCS	0.4768	0.0010
1706546-2A	0.8719	0.0520
CCV	0.9936	0.9974
CCB	-0.0001	0.0003
1706546-2 2X	0.2255	0.0289
1706546-2D 2X	0.2147	0.0281
1706546-2L 10X	0.0477	0.0065
1706546-2MS 2X	0.4615	0.0335
1706546-2MSD 2X	0.4518	0.0321
1706628-2 2X	0.2784	0.0301
CRI	0.0412	0.0540
LCV	0.0213	0.0220
ICSA	0.0041	0.0026
ICSAB	0.9504	0.5001
CCV	0.9921	0.9994
CCB	0.0003	0.0003
CCV	0.9794	0.9705
CCB	-0.0003	0.0004
IP170717-1MB	0.0011	0.0002
IP170717-1LCS	0.5026	-0.0001
1706286-2 10X	0.0029	0.0000
1706286-4 10X	0.0502	0.0004
1706299-3 10X	-0.0001	0.0001
1706299-4 10X	0.0020	-0.0001
1706329-3 10X	0.0189	-0.0001

Sample Id1	Zn	Zr
1706329-4 10X	0.0095	0.0005
1706354-3	0.8900	-0.0041
1706354-3D	0.8904	-0.0041
CCV	0.9843	0.9748
CCB	0.0001	0.0008
1706354-3L 5X	0.1672	-0.0072
1706354-3MS	1.3456	-0.0032
1706354-3MSD	1.3592	-0.0040
1706354-4	0.0184	-0.0037
1706354-5	1.8918	-0.0038
1706354-6	0.0177	-0.0039
1706509-1	0.0061	0.0004
1706655-1	-0.0001	-0.0011
1706655-1D	-0.0002	-0.0010
1706655-1L 5X	0.0018	0.0000
CCV	0.9792	0.9725
CCB	0.0000	0.0007
1706655-1MS	0.4961	-0.0006
1706655-1MSD	0.4928	-0.0009
1706286-2 500X	0.0017	-0.0002
1706286-4 500X	0.0022	-0.0002
1706299-3	0.0008	-0.0033
1706299-4	-0.0023	-0.0031
1706329-3 500X	0.0020	0.0001
1706329-4 500X	0.0021	0.0003
Z	-0.0022	0.0000
1706509-1 100X	0.0010	0.0002
CCV	0.9635	0.9640
CCB	-0.0004	0.0007
CRI	0.0409	0.0532
LCV	0.0205	0.0211
ICSA	0.0048	0.0027
ICSAB	0.9439	0.4874
CCV	0.9818	0.9694
CCB	0.0000	0.0006
CCV	0.9747	0.9593
CCB	0.0003	0.0007
1706655-2	0.0005	-0.0006
CRI	0.0489	0.0530
LCV	0.0237	0.0211
ICSA	0.0053	0.0028
ICSAB	0.9654	0.4888
CCV	0.9949	0.9684
CCB	-0.0003	0.0008

Method : Paragon2
SampleId1 : BLANK
Analysis commenced : 7/17/2017 11:43:28
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
SampleId2 :
[STD]
Printed : 7/17/2017 11:58:55
Position : TUBE1

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	111.000	221.000	275.400	89.800	25.400	568.800	179.000	66.000	134.600
#2	114.200	220.600	276.200	92.200	25.400	566.000	179.000	66.800	133.800
Mean	112.600	220.800	275.800	91.000	25.400	567.400	179.000	66.400	134.200
%RSD	2.010	0.128	0.205	1.865	0.000	0.349	0.000	0.852	0.422

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	123.600	224.600	66.800	56.200	666.800	109.200	127.200	14.400	123.200
#2	126.400	226.800	68.200	57.200	681.600	111.600	130.000	14.600	122.800
Mean	125.000	225.700	67.500	56.700	674.200	110.400	128.600	14.500	123.000
%RSD	1.584	0.689	1.467	1.247	1.552	1.537	1.540	0.975	0.230

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	115.000	238.800	3.200	2392.200	737.000	11.200	193.800	616.600	434.800
#2	117.800	246.200	3.200	2433.000	745.600	11.200	198.000	627.400	431.200
Mean	116.400	242.500	3.200	2412.600	741.300	11.200	195.900	622.000	433.000
%RSD	1.701	2.158	0.000	1.196	0.820	0.000	1.516	1.228	0.588

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	337.600	122.600	49.200	209.400	326.600	172.200	150.200	27.600	261.800
#2	339.400	122.200	50.000	212.800	326.000	175.800	153.000	28.400	268.200
Mean	338.500	122.400	49.600	211.100	326.300	174.000	151.600	28.000	265.000
%RSD	0.376	0.231	1.140	1.139	0.130	1.463	1.306	2.020	1.708

Pb	Se
Reading	Reading

#1	
#2	
Mean	0.000
%RSD	0.000

Method : Paragon2
SampleId1 : RL
Analysis commenced : 7/17/2017 11:44:37
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
SampleId2 :
[STD]
Printed : 7/17/2017 11:58:55
Position : TUBE2

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	120.200	257.000	291.400	208.400	34.400	680.600	188.000	208.200	149.000
#2	117.600	258.200	286.400	206.600	34.000	685.600	185.800	206.800	144.200
Mean	118.900	257.600	288.900	207.500	34.200	683.100	186.900	207.500	146.600
%RSD	1.546	0.329	1.224	0.613	0.827	0.518	0.832	0.477	2.315

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	133.200	248.200	72.400	138.200	857.800	365.000	217.800	19.400	152.800
#2	132.400	240.600	71.200	136.800	850.600	366.400	217.000	19.200	155.400
Mean	132.800	244.400	71.800	137.500	854.200	365.700	217.400	19.300	154.100
%RSD	0.426	2.199	1.182	0.720	0.596	0.271	0.260	0.733	1.193

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	1067.000	286.800	3.400	2499.000	777.000	13.600	207.400	637.600	446.800
#2	1076.600	284.000	3.400	2460.400	779.200	14.000	205.800	627.600	440.800
Mean	1071.800	285.400	3.400	2479.700	778.100	13.800	206.600	632.600	443.800
%RSD	0.633	0.694	0.000	1.101	0.200	2.050	0.548	1.118	0.956

	Si	Sn	Sr	Ti	Tl	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	406.200	130.000	206.600	358.800	343.800	199.200	32.000	323.600
#2	405.000	129.400	206.800	353.600	339.600	195.800	31.400	320.600
Mean	405.600	129.700	206.700	356.200	341.700	197.500	31.700	322.100
%RSD	0.209	0.327	0.068	1.032	0.869	1.217	1.338	0.659

	Pb	Se
	Reading	Reading
#1		
#2		
Mean	0.000	0.000
%RSD	0.000	0.000

Method : Paragon2
File : 170717A
SampleId1 : RL2
SampleId2 :
Analysis commenced : 7/17/2017 11:45:43
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:55
[STD]
Position : TUBE3

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	128.800	323.200	311.200	431.400	49.200	894.400	193.600	451.200	167.400
#2	131.000	323.600	301.200	431.400	49.600	892.000	196.200	453.400	168.000
Mean	129.900	323.400	306.200	431.400	49.400	893.200	194.900	452.300	167.700
%RSD	1.198	0.087	2.309	0.000	0.573	0.190	0.943	0.344	0.253

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	142.200	268.800	78.400	283.800	1183.800	857.800	372.400
#2	144.800	272.400	78.400	284.000	1191.200	858.400	374.600
Mean	143.500	270.600	78.400	283.900	1187.500	858.100	373.500
%RSD	1.281	0.941	0.000	0.050	0.441	0.049	0.417

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	2885.000	346.000	3.600	2560.400	820.000	17.800	226.400	645.400	475.000
#2	2879.600	348.800	3.600	2583.400	820.400	17.800	223.000	646.400	468.800
Mean	2882.300	347.400	3.600	2571.900	820.200	17.800	224.700	645.900	471.900
%RSD	0.132	0.570	0.000	0.632	0.034	0.000	1.070	0.109	0.929

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	528.800	138.400	494.800	621.600	355.800	237.200	180.600	39.200	432.600
#2	532.000	139.600	494.600	624.200	352.600	241.000	181.800	39.200	436.000
Mean	530.400	139.000	494.700	622.900	354.200	239.100	181.200	39.200	434.300
%RSD	0.427	0.610	0.029	0.295	0.639	1.124	0.468	0.000	0.554

	Pb	Se
	Reading	Reading
#1		
#2		

Mean	0.000	0.000
%RSD	0.000	0.000

Method : Paragon2
SampleId1 : B3
Analysis commenced : 7/17/2017 11:46:50
Dilution ratio : 1.00000 to 1.00000

File : 170717A
SampleId2 :
[STD]
Position : TUBE4

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	158.200	223.200	365.000	306.600	371.200	1438.200	183.200	68.400	625.600
#2	160.800	221.600	362.800	308.200	369.000	1436.000	181.600	69.600	627.600
Mean	159.500	222.400	363.900	307.400	370.100	1437.100	182.400	69.000	626.600
%RSD	1.153	0.509	0.427	0.368	0.420	0.108	0.620	1.230	0.226

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	248.000	769.200	201.000	58.200	686.000	113.200	131.200	184.200	401.600
#2	247.200	773.600	201.600	58.600	689.000	114.000	133.000	183.200	405.600
Mean	247.600	771.400	201.300	58.400	687.500	113.600	132.100	183.700	403.600
%RSD	0.228	0.403	0.211	0.484	0.309	0.498	0.964	0.385	0.701

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1									
#2									

#1	122.400	851.600	4.000	3077.400	1136.600	11.000	221.800	708.200	546.400
#2	122.600	845.600	4.200	3082.600	1125.400	11.400	222.200	696.400	540.000
Mean	122.500	848.600	4.100	3080.000	1131.000	11.200	222.000	702.300	543.200
%RSD	0.115	0.500	3.449	0.119	0.700	2.525	0.127	1.188	0.833

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	936.000	173.000	1400.600	1508.400	417.400	176.200	344.000	97.400	278.200
#2	933.600	173.000	1392.600	1500.600	419.600	178.000	344.800	96.600	277.400
Mean	934.800	173.000	1396.600	1504.500	418.500	177.100	344.400	97.000	277.800
%RSD	0.182	0.000	0.405	0.367	0.372	0.719	0.164	0.583	0.204

Pb
Reading

Se
Reading

#1
#2

Mean 0.000 0.000
%RSD 0.000 0.000

Method : Paragon2 File : 170717A
SampleId1 : B2 **SampleId2 :**
Analysis commenced : 7/17/2017 11:47:56
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:55
[STD]

Position : TUBE5

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	569.400	232.200	1166.400	2272.400	3454.600	9342.200	186.600	70.800	5109.000
#2	568.800	231.600	1150.400	2271.000	3461.800	9350.000	188.400	69.800	5115.000
Mean	569.100	231.900	1158.400	2271.700	3458.200	9346.100	187.500	70.300	5112.000
%RSD	0.075	0.183	0.977	0.044	0.147	0.059	0.679	1.006	0.083

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	1338.800	5656.800	1408.000	62.200	689.200	115.200	133.600	1711.600	2921.200
#2	1335.000	5656.000	1414.000	61.800	686.600	113.800	133.200	1714.200	2925.200
Mean	1336.900	5656.400	1411.000	62.000	687.900	114.500	133.400	1712.900	2923.200
%RSD	0.201	0.010	0.301	0.456	0.267	0.865	0.212	0.107	0.097

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	132.400	6252.600	12.200	8897.400	4593.000	11.000	441.600	1361.600	1511.400
#2	131.200	6253.000	12.200	8894.800	4612.200	11.200	437.800	1349.600	1531.400
Mean	131.800	6252.800	12.200	8896.100	4602.600	11.100	439.700	1355.600	1521.400
%RSD	0.644	0.005	0.000	0.021	0.295	1.274	0.611	0.626	0.930

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	6325.400	627.000	13424.200	13115.800	1207.000	180.200	2051.600	721.000	290.000

#2	6341.800	622.400	13464.200	13147.600	1200.400	179.800	2053.000	720.200	284.000
Mean	6333.600	624.700	13444.200	13131.700	1203.700	180.000	2052.300	720.600	287.000
%RSD	0.183	0.521	0.210	0.171	0.388	0.157	0.048	0.079	1.478

Pb	Se
Reading	Reading

#1
#2

Mean	0.000	0.000
%RSD	0.000	0.000

Method : Paragon2
File : 170717A
SampleId1 : B1
SampleId2 :
Analysis commenced : 7/17/2017 11:49:03
Dilution ratio : 1.00000 to 1.00000
Tray :
Printed : 7/17/2017 11:58:56
[STD]
Position : TUBE6

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	4660.200	315.000	8990.600	21624.600	33238.200	87573.600	262.800	73.600	48250.600
#2	4641.400	315.200	8963.800	21568.200	33193.800	87342.800	265.000	73.600	48084.600
Mean	4650.800	315.100	8977.200	21596.400	33216.000	87458.200	263.900	73.600	48167.600
%RSD	0.286	0.045	0.211	0.185	0.095	0.187	0.589	0.000	0.244

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	12158.000	54264.000	13551.000	97.600	690.000	123.600	151.200	16260.800	27667.400
#2	12120.000	54066.200	13535.000	98.600	688.000	123.600	151.200	16224.000	27600.400
Mean	12139.000	54165.100	13543.000	98.100	689.000	123.600	151.200	16242.400	27633.900
%RSD	0.221	0.258	0.084	0.721	0.205	0.000	0.000	0.160	0.171

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	148.800	59787.200	84.200	66893.400	38736.000	14.800	2604.000	7844.800	11036.400
#2	149.400	59493.800	85.000	66684.400	38969.400	15.200	2598.600	7851.200	11164.400
Mean	149.100	59640.500	84.600	66788.900	38852.700	15.000	2601.300	7848.000	11100.400
%RSD	0.285	0.348	0.669	0.221	0.425	1.886	0.147	0.058	0.815

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	58479.800	5105.400	123648.600	129323.400	9072.400	201.800	19090.600	6794.800	366.800
#2	58421.200	5092.800	123387.800	129132.800	9035.800	200.400	19030.000	6763.000	362.000
Mean	58450.500	5099.100	123518.200	129228.100	9054.100	201.100	19060.300	6778.900	364.400
%RSD	0.071	0.175	0.149	0.104	0.286	0.492	0.225	0.332	0.931

Pb	Se
Reading	Reading

#1
#2

Mean 0.000 0.000ser: STEVE WORKMAN
%RSD 0.000

Method : Paragon2 File : 170717A
SampleId1 : A5 SampleId2 :
Analysis commenced : 7/17/2017 11:50:09
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:56
[STD]

Position : TUBE7

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	114.600	1744.200	281.600	122.000	28.200	580.400	176.200	2998.200	138.000
#2	114.000	1744.200	283.800	116.800	28.000	580.000	182.400	2990.600	137.600
Mean	114.300	1744.200	282.700	119.400	28.100	580.200	179.300	2994.400	137.800
%RSD	0.371	0.000	0.550	3.080	0.503	0.049	2.445	0.179	0.205

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	127.400	236.800	69.000	2875.600	1510.400	2601.200	1903.800	16.000	136.400
#2	126.400	234.400	68.600	2875.000	1505.000	2608.000	1905.800	15.800	133.800
Mean	126.900	235.600	68.800	2875.300	1507.700	2604.600	1904.800	15.900	135.100
%RSD	0.557	0.720	0.411	0.015	0.253	0.185	0.074	0.889	1.361

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	2843.400	250.800	3.200	2484.400	780.000	11.600	200.600	648.000	439.600
#2	2847.600	253.800	3.200	2474.000	774.800	11.600	201.800	627.600	445.800
Mean	2845.500	252.300	3.200	2479.200	777.400	11.600	201.200	637.800	442.700
%RSD	0.104	0.841	0.000	0.297	0.473	0.000	0.422	2.262	0.990

	Si	Sn	Sr	Ti	Tl	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	413.000	124.400	58.400	241.000	339.600	184.400	29.800	271.800
#2	389.000	124.600	57.600	237.200	343.400	180.600	29.600	269.800
Mean	401.000	124.500	58.000	239.100	341.500	182.500	29.700	270.800
%RSD	4.232	0.114	0.975	1.124	0.787	1.472	0.476	0.522

Pb
Reading

#1	
#2	
Mean	0.000
%RSD	0.000

Method : Paragon2 File : 170717A
SampleId1 : A4 SampleId2 :
Analysis commenced : 7/17/2017 11:51:15
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:56
[STD]

Position : TUBE8

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	119.200	15231.000	315.200	115.000	27.400	592.200	185.200	28224.000	140.000
#2	120.400	15257.600	317.000	114.600	27.000	590.200	185.000	28240.800	141.600
Mean	119.800	15244.300	316.100	114.800	27.200	591.200	185.100	28232.400	140.800
%RSD	0.708	0.123	0.403	0.246	1.040	0.239	0.076	0.042	0.804
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	132.000	266.400	70.800	26685.000	11057.200	33200.600	17230.600	18.400	154.200
#2	132.000	263.800	70.400	26701.400	11067.400	33208.800	17261.000	18.400	155.200
Mean	132.000	265.100	70.600	26693.200	11062.300	33204.700	17245.800	18.400	154.700
%RSD	0.000	0.694	0.401	0.043	0.065	0.017	0.125	0.000	0.457
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	31608.600	255.400	3.400	2880.000	888.600	12.800	250.400	755.800	511.200
#2	31609.400	261.600	3.400	2868.000	871.600	12.800	252.200	743.200	509.000
Mean	31609.000	258.500	3.400	2874.000	880.100	12.800	251.300	749.500	510.100
%RSD	0.002	1.696	0.000	0.295	1.366	0.000	0.506	1.189	0.305
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	395.000	140.400	62.000	255.800	382.200	221.600	180.600	35.200	291.600
#2	393.800	141.000	62.200	255.800	381.600	222.200	180.400	36.200	293.000
Mean	394.400	140.700	62.100	255.800	381.900	221.900	180.500	35.700	292.300
%RSD	0.215	0.302	0.228	0.000	0.111	0.191	0.078	1.981	0.339
	Pb	Se							
	Reading	Reading							
#1									
#2									
Mean	0.000	0.000							
%RSD	0.000	0.000							

Method : Paragon2 File : 170717A
SampleId1 : A3 SampleId2 :
Analysis commenced : 7/17/2017 11:52:22
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:56
[STD]

Position : TUBE9

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	121.400	29464.800	354.200	117.800	27.600	602.000	192.800	54094.200	146.600
#2	120.800	29830.200	360.200	120.000	27.600	603.600	187.600	54348.000	148.400
Mean	121.100	29647.500	357.200	118.900	27.600	602.800	190.200	54221.100	147.500
%RSD	0.350	0.871	1.188	1.308	0.000	0.188	1.933	0.331	0.863

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	134.600	277.200	71.800	50462.400	21987.200	71037.200	33404.600	21.600	177.600
#2	136.000	274.200	71.200	50661.000	22187.200	71773.800	33660.400	21.600	177.200
Mean	135.300	275.700	71.500	50561.700	22087.200	71405.500	33532.500	21.600	177.400
%RSD	0.732	0.769	0.593	0.278	0.640	0.729	0.539	0.000	0.159
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	61562.200	265.200	3.400	3247.200	1013.400	13.800	301.800	849.200	590.600
#2	62273.400	261.800	3.400	3272.800	1007.000	13.800	304.400	857.200	583.800
Mean	61917.800	263.500	3.400	3260.000	1010.200	13.800	303.100	853.200	587.200
%RSD	0.812	0.912	0.000	0.555	0.448	0.000	0.607	0.663	0.819
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	416.800	156.600	70.200	270.200	441.600	249.000	194.400	43.400	298.600
#2	418.200	154.200	70.400	264.800	431.200	245.800	193.600	43.200	301.000
Mean	417.500	155.400	70.300	267.500	436.400	247.400	194.000	43.300	299.800
%RSD	0.237	1.092	0.201	1.427	1.685	0.915	0.292	0.327	0.566

Pb
Reading

Se
Reading

#1
#2

Mean 0.000
%RSD 0.000

Method : Paragon2 File : 170717A
SampleId1 : A2 **SampleId2 :**
Analysis commenced : 7/17/2017 11:53:29
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:56
[STD]

Position : TUBE10

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	124.600	56914.400	426.600	134.800	29.200	625.200	197.800	103116.800	157.400
#2	124.400	56877.200	429.800	134.800	29.400	621.600	194.600	103271.000	161.000
Mean	124.500	56895.800	428.200	134.800	29.300	623.400	196.200	103193.900	159.200
%RSD	0.114	0.046	0.528	0.000	0.483	0.408	1.153	0.106	1.599
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	144.000	298.400	72.800	92987.800	42982.600	150256.200	64924.000	27.200	231.800
#2	144.000	298.400	73.000	93199.200	42934.000	150103.600	65076.600	27.400	229.200
Mean	144.000	298.400	72.900	93093.500	42958.300	150179.900	65000.300	27.300	230.500
%RSD	0.000	0.000	0.194	0.161	0.080	0.072	0.166	0.518	0.798

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	114175.400	276.000	3.600	4058.400	1275.000	16.800	407.400	1067.600	732.000
#2	113893.200	274.800	3.600	4069.800	1262.800	16.400	406.600	1083.000	741.200
Mean	114034.300	275.400	3.600	4064.100	1268.900	16.600	407.000	1075.300	736.600
%RSD	0.175	0.308	0.000	0.198	0.680	1.704	0.139	1.013	0.883

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	449.200	187.600	87.200	286.800	539.200	294.600	220.400	56.800	313.200
#2	456.200	186.400	86.200	288.200	538.800	291.200	220.400	57.200	313.600
Mean	452.700	187.000	86.700	287.500	539.000	292.900	220.400	57.000	313.400
%RSD	1.093	0.454	0.816	0.344	0.052	0.821	0.000	0.496	0.090

Pb	Se
Reading	Reading

#1
#2

Mean	0.000	0.000
%RSD	0.000	0.000

Method : Paragon2
File : 170717A
SampleId1 : Al
SampleId2 :
Analysis commenced : 7/17/2017 11:54:35
Dilution ratio : 1.00000 to 1.00000
Tray :
Printed : 7/17/2017 11:58:56
[STD]
Position : TUBE11

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	130.600	130752.200	655.800	181.600	33.800	680.600	217.600	229211.000	197.200
#2	132.600	130815.000	660.600	184.400	34.000	676.400	213.600	230375.200	198.600
Mean	131.600	130783.600	658.200	183.000	33.900	678.500	215.600	229793.100	197.900
%RSD	1.075	0.034	0.516	1.082	0.417	0.438	1.312	0.358	0.500

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	170.400	350.400	77.600	191144.800	97139.600	385910.400	153065.200	44.400	385.400
#2	170.400	349.600	78.000	192869.000	96967.000	384756.600	153603.800	44.400	391.200
Mean	170.400	350.000	77.800	192006.900	97053.300	385333.500	153334.500	44.400	388.300
%RSD	0.000	0.162	0.364	0.635	0.126	0.212	0.248	0.000	1.056

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	225645.200	316.800	3.800	6430.000	2032.000	23.800	729.800	1747.200	1188.400
#2	225456.400	317.800	3.600	6445.200	2044.200	24.600	729.200	1743.600	1198.800
Mean	225550.800	317.300	3.700	6437.600	2038.100	24.200	729.500	1745.400	1193.600
%RSD	0.059	0.223	3.822	0.167	0.423	2.338	0.058	0.146	0.616

Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading

	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	533.000	278.400	131.400	333.200	833.800	420.000	288.000	100.200	348.400
#2	531.400	279.200	132.000	335.800	835.600	420.600	289.200	99.200	352.600
Mean	532.200	278.800	131.700	334.500	834.700	420.300	288.600	99.700	350.500
%RSD	0.213	0.203	0.322	0.550	0.152	0.101	0.294	0.709	0.847

	Pb	Se
	Reading	Reading

#1	
#2	
Mean	0.000
%RSD	0.000

Method : Paragon2 File : 170717A
SampleId1 : C3 **SampleId2 :**
Analysis commenced : 7/17/2017 11:55:42
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:57
[STD]

Position : TUBE12

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	116.800	236.400	275.600	99.200	26.000	581.800	225.000	85.400	132.800
#2	115.800	233.000	274.000	98.800	26.000	580.000	225.600	83.400	136.800
Mean	116.300	234.700	274.800	99.000	26.000	580.900	225.300	84.400	134.800
%RSD	0.608	1.024	0.412	0.286	0.000	0.219	0.188	1.676	2.098

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	128.200	235.000	69.000	79.800	693.800	129.400	148.600	15.000	124.400
#2	127.200	238.600	69.000	75.600	691.200	126.800	146.800	14.800	122.200
Mean	127.700	236.800	69.000	77.700	692.500	128.100	147.700	14.900	123.300
%RSD	0.554	1.075	0.000	3.822	0.265	1.435	0.862	0.949	1.262

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	164.400	243.400	3.200	2461.800	753.000	30.600	197.600	626.200	433.600
#2	158.600	244.200	3.200	2447.000	744.400	31.800	196.200	626.400	431.200
Mean	161.500	243.800	3.200	2454.400	748.700	31.200	196.900	626.300	432.400
%RSD	2.539	0.232	0.000	0.426	0.812	2.720	0.503	0.023	0.392

	Si	Sr	Ti	Tl	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	343.600	123.000	221.200	332.000	268.600	28.400	741.800
#2	343.600	121.200	220.200	335.200	268.400	28.400	749.600
Mean	343.600	122.100	220.700	333.600	268.500	28.400	745.700
%RSD	0.000	1.042	0.320	0.678	0.053	0.000	0.740

	Pb	Se
	Reading	Reading

ser: STEVE WORKMAN

#1
#2

Mean 0.000
%RSD 0.000

Method : Paragon2 File : 170717A
SampleId1 : C2 sampleId2 :
Analysis commenced : 7/17/2017 11:56:50
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 11:58:57
[STD]

Position : TUBE13

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	142.200	250.200	281.400	105.800	26.400	619.400	635.400	83.000	138.000
#2	141.200	252.200	280.000	105.200	26.200	620.400	622.000	82.800	139.200
Mean	141.700	251.200	280.700	105.500	26.300	619.900	628.700	82.900	138.600
%RSD	0.499	0.563	0.353	0.402	0.538	0.114	1.507	0.171	0.612
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	131.400	299.200	78.400	71.800	686.800	118.400	197.800	17.000	124.000
#2	130.800	301.800	78.000	71.200	682.800	118.000	197.800	17.000	126.000
Mean	131.100	300.500	78.200	71.500	684.800	118.200	197.800	17.000	125.000
%RSD	0.324	0.612	0.362	0.593	0.413	0.239	0.000	0.000	1.131
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	138.400	261.600	3.200	2526.200	784.600	210.600	198.800	630.800	436.200
#2	137.400	256.600	3.200	2519.200	785.000	210.600	197.000	634.600	435.400
Mean	137.900	259.100	3.200	2522.700	784.800	210.600	197.900	632.700	435.800
%RSD	0.513	1.365	0.000	0.196	0.036	0.000	0.643	0.425	0.130
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	390.800	125.200	52.200	250.600	328.600	1091.200	178.600	28.800	5262.800
#2	389.600	124.200	52.200	250.400	334.000	1094.200	174.800	29.000	5296.000
Mean	390.200	124.700	52.200	250.500	331.300	1092.700	176.700	28.900	5279.400
%RSD	0.217	0.567	0.000	0.056	1.153	0.194	1.521	0.489	0.445
	Pb	Se							
	Reading	Reading							

Method : Paragon2 File : 170717A
SampleId1 : C1 sampleId2 :
Analysis commenced : 7/17/2017 11:57:57

Printed : 7/17/2017 11:58:57
[STD]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE14

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	405.200	504.600	308.800	187.200	30.400	1021.800	4740.600	171.200	167.800
#2	405.800	503.000	303.400	188.400	30.000	1026.200	4756.800	171.000	167.400
Mean	405.500	503.800	306.100	187.800	30.200	1024.000	4748.700	171.100	167.600
%RSD	0.105	0.225	1.247	0.452	0.937	0.304	0.241	0.083	0.169
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	175.400	990.200	167.400	158.200	697.800	124.600	796.600	37.600	138.200
#2	175.400	984.600	167.400	164.200	691.600	124.400	794.600	37.600	136.400
Mean	175.400	987.400	167.400	161.200	694.700	124.500	795.600	37.600	137.300
%RSD	0.000	0.401	0.000	2.632	0.631	0.114	0.178	0.000	0.927
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	172.000	339.600	3.400	3390.200	1118.600	2000.800	224.400	722.400	478.800
#2	171.400	336.800	3.400	3374.000	1117.200	2008.000	221.000	716.400	479.200
Mean	171.700	338.200	3.400	3382.100	1117.900	2004.400	222.700	719.400	479.000
%RSD	0.247	0.585	0.000	0.339	0.089	0.254	1.080	0.590	0.059
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	867.600	142.000	72.200	576.800	376.600	9486.000	393.800	33.000	51914.000
#2	874.600	142.400	72.000	579.000	380.200	9540.800	388.800	32.600	51980.800
Mean	871.100	142.200	72.100	577.900	378.400	9513.400	391.300	32.800	51947.400
%RSD	0.568	0.199	0.196	0.269	0.673	0.407	0.904	0.862	0.091
	Pb	Se							
	Reading	Reading							
#1									
#2									
Mean	0.000	0.000							
%RSD	0.000	0.000							

Line calibration information

Analyte	Reporting name	C0	C1	C2	C3	Correlation coefficient	Low limit	High limit	Date of last regression
Ag 328.068	Ag	-0.0001477	0.0004586	0.0	0	1.0000	0.800	4351.200	7/17/2017 11:59:39
Al 308.215	Al	-0.2877665	0.0033825	0.0	0	1.0000	58.400	126906.800	7/17/2017 11:59:39
As 189.042/2	As	0.0063458	0.0006171	0.0	0	1.0000	-10.100	7989.900	7/17/2017 11:59:39
B 249.678/2	B	-0.0083381	0.0005177	0.0	0	1.0000	2.150	19092.000	7/17/2017 11:59:39
Ba 493.409	Ba	-0.0009013	0.0002983	0.0	0	1.0000	1.700	32274.900	7/17/2017 11:59:40
Be 313.042	Be	-0.006718	0.0000114	0.0	0	1.0000	567.400	87458.200	7/17/2017 11:59:40
Bi 223.061	Bi	0.0008352	0.001302	0.0000000	0	1.0000	-1.900	3967.800	7/17/2017 11:59:40
Ca 317.933	Ca	-0.1639899	0.0018045	0.0	0	1.0000	20.700	222029.500	7/17/2017 11:59:40
Cd 226.502/2	Cd	-0.0003998	0.0001166	0.0	0	1.0000	2.300	41271.200	7/17/2017 11:59:40
Co 228.616	Co	0.0005613	0.0004225	0.0	0	1.0000	-2.700	11734.100	7/17/2017 11:59:40
Cr 267.716	Cr	-0.0004004	0.0001869	0.0	0	1.0000	-0.300	53123.000	7/17/2017 11:59:40
Cu 324.753	Cu	-0.0115795	0.000801	0.0	0	1.0000	13.900	12558.000	7/17/2017 11:59:41
Fe 259.94	Fe	0.0523576	0.0007052	0.0	0	1.0000	4.300	188826.000	7/17/2017 11:59:41
K 766.491	K	-0.9569934	0.002197	0.0	0	0.99997	674.200	97053.300	7/17/2017 11:59:41
Li 670.784	Li	0.0555616	0.0000259	0.0	0	0.99982	110.400	385333.500	7/17/2017 11:59:41
Mg 279.078	Mg	-0.0764255	0.0030604	0.0	0	1.0000	-1.100	149161.000	7/17/2017 11:59:41
Mn 257.610	Mn	-0.0006914	0.0005946	0.0	0	1.0000	0.600	15989.700	7/17/2017 11:59:41
Mo 202.030/2	Mo	-0.0009014	0.0003841	0.0	0	1.0000	0.500	25525.300	7/17/2017 11:59:42
Na 588.995	Na	0.3790382	0.0003958	0.0	0	0.99994	116.400	225550.800	7/17/2017 11:59:42
Ni 231.604	Ni	-0.0022184	0.0001961	0.0	0	1.0000	4.100	50473.600	7/17/2017 11:59:42
P 178.287/2	P	0.0781573	0.5506	0.0010066	0	1.0000	-0.200	79.200	7/17/2017 11:59:42
Pb 220.351	Pb I	-0.0004133	0.0001604	0.0	0	1.0000	-17.000	62222.300	7/17/2017 11:59:42
Pb 220.352/2	Pb II	-0.005437	0.0002803	0.0	0	1.0000	11.100	35377.100	7/17/2017 11:59:42
S 182.04/2	S	-0.0192632	0.0256244	0.0	0	1.0000	0.500	1951.700	7/17/2017 11:59:42
Sb 206.838/2	Sb	-0.0046293	0.0009836	0.0	0	1.0000	4.700	2034.400	7/17/2017 11:59:43
Se 196.021	Se I	0.0050142	0.000709	0.0	0	1.0000	-7.700	7014.400	7/17/2017 11:59:43
Se 196.021/2	Se II	-0.0029278	0.0004828	0.0	0	1.0000	6.700	10175.600	7/17/2017 11:59:43
Si 288.158	Si	-0.1062605	0.000845	0.0	0	1.0000	124.600	57291.000	7/17/2017 11:59:43
Sn 189.989	Sn	0.0012407	0.0020535	0.0	0	1.0000	-0.400	9709.750	7/17/2017 11:59:43
Sr 421.552	Sr	-0.0019189	0.0000837	0.0	0	1.0000	10.100	170730.050	7/17/2017 11:59:43

Method report Paragon2

Ti 334.941	Ti	0.0004519	0.0000847	0.0	0	1.0000	-13.800	118091.900	7/17/2017 11:59:43
Tl 190.864/2	Tl	0.0087387	0.0006369	0.0	0	1.0000	-18.600	7883.400	7/17/2017 11:59:44
U 385.958	U	-0.007384	0.0056827	0.0000000	0	1.0000	-1.100	9000.800	7/17/2017 11:59:44
V 292.402	V	-0.0005919	0.00027	0.0	0	1.0000	0.800	18442.400	7/17/2017 11:59:44
Zn 206.2	Zn	-0.0007358	0.0014981	0.0	0	1.0000	0.500	6489.600	7/17/2017 11:59:44
Zr 339.198	Zr	-0.0001987	0.0001028	0.0	0	1.0000	2.500	50368.400	7/17/2017 11:59:46

Method : Paragon2
SampleId1 : MIXAHIGH
Analysis commenced : 7/17/2017 12:01:28
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
SampleId2 :
[CV]
Position : TUBE11

Printed : 7/17/2017 17:43:50

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00039	491.24240	0.00746	-0.00316	0.00196	0.00105	0.01152	0.00125
#2	-0.00043	496.30281	0.00289	-0.00523	0.00190	0.00110	0.00553	0.00039
Mean	-0.00002	493.77261	0.00517	-0.00420	0.00193	0.00108	0.00852	0.00082
%RSD	3114.68846	0.72468	62.41977	34.89476	2.18289	3.37682	49.72628	73.40587

	Co	Cr	Cu	Fe	K	Li	Mg	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00099	-0.00025	-0.00875	195.71821	245.56565	9.86521	491.72844	0.00294
#2	0.00057	-0.00122	-0.00955	195.74343	249.25354	10.01113	494.02215	0.00102
Mean	0.00078	-0.00073	-0.00915	195.73082	247.40959	9.93817	492.87529	0.00198
%RSD	38.20175	93.96093	6.18111	0.00911	1.05401	1.03827	0.32907	68.60815

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	147.69041	-0.00045	0.18832	0.01327	-0.00929	0.16011	0.01940	0.02199	-0.00694
#2	149.27750	0.00014	0.18832	0.00009	-0.00647	0.13448	0.00916	0.02681	-0.00124
Mean	148.48395	-0.00016	0.18832	0.00668	-0.00788	0.14730	0.01428	0.02440	-0.00409
%RSD	0.75580	261.51301	0.00000	139.48055	25.35203	12.30126	50.72679	13.96580	98.65121

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00258	0.00740	0.00368	-0.00173	-0.01591	0.10255	0.00731	0.00944	0.00778
#2	0.00173	-0.00697	0.00369	-0.00241	-0.01756	0.10025	0.00559	0.00670	0.00735
Mean	0.00215	0.00022	0.00368	-0.00207	-0.01673	0.10140	0.00645	0.00807	0.00756
%RSD	27.89350	4697.96309	0.32151	23.12077	6.98022	1.60283	18.88987	24.00021	4.03527

	Pb	Se
	calc	calc
#1	-0.00178	0.00270
#2	-0.00428	0.00810
Mean	-0.00303	0.00540
%RSD	58.41148	70.79337

Method : Paragon2
SampleId1 : MIXBHGH
Analysis commenced : 7/17/2017 12:02:34
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
SampleId2 :
[CV]
Position : TUBE6

Printed : 7/17/2017 17:43:50

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	1.98794	-0.02585	4.98867	9.93961	9.85597	0.97514	0.01055	-0.09794	4.96704
#2	1.99817	-0.01201	4.99601	9.98727	9.90408	0.97719	0.01262	-0.09830	4.97986
Mean	1.99305	-0.01893	4.99234	9.96344	9.88003	0.97616	0.01158	-0.09812	4.97345
%RSD	0.36299	51.69134	0.10398	0.33821	0.34432	0.14895	12.61682	0.26009	0.18229
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	4.94526	9.89030	9.98099	0.06012	0.56392	0.05927	-0.10703	9.83440	9.90745
#2	4.95905	9.89489	10.03828	0.05814	0.55908	0.05925	-0.10152	9.86245	9.91720
Mean	4.95215	9.89259	10.00964	0.05913	0.56150	0.05926	-0.10428	9.84842	9.91232
%RSD	0.19690	0.03277	0.40469	2.36152	0.61021	0.02474	3.73555	0.20142	0.06951
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.45461	10.04689	48.86648	9.89252	9.79088	-0.00901	2.02926	4.94186	4.86724
#2	0.45334	10.04373	49.14937	9.94116	9.93127	0.01149	2.04531	4.97762	5.00982
Mean	0.45397	10.04531	49.00793	9.91684	9.86108	0.00124	2.03728	4.95974	4.93853
%RSD	0.19752	0.02227	0.40817	0.34677	1.00674	1172.45060	0.55733	0.50985	2.04148
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	49.22052	9.91919	9.91698	9.68596	4.99414	-0.07223	4.95881	10.25880	-0.01279
#2	49.56499	9.94962	9.93296	9.73774	4.99754	-0.06996	4.97270	10.25805	-0.01372
Mean	49.39275	9.93441	9.92497	9.71185	4.99584	-0.07109	4.96575	10.25842	-0.01325
%RSD	0.49314	0.21657	0.11384	0.37699	0.04821	2.26301	0.19781	0.00515	4.95456

Method : Paragon2
File : 170717A
SampleId1 : MIXCHIGH
SampleId2 :
Analysis commenced : 7/17/2017 12:03:41
Dilution ratio : 1.00000 to 1.00000 Tray :
Final concentrations

Printed : 7/17/2017 17:43:51
[CV]
Position : TUBE14

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00647	-0.00785	0.00251	0.05969	0.57141	-0.02746	0.00371
Mean	0.00622	-0.00934	0.00136	0.05983	0.56304	-0.05439	0.00347
%RSD	0.00634	-0.00859	0.00194	0.05976	0.56723	-0.04092	0.00359
	2.83262	12.28682	41.91013	0.16689	1.04336	46.53476	4.68521

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.45072	-0.00057	0.07816	-0.00488	-0.00715	49.67446	-0.00181	0.00149	-0.00010
Mean	0.44985	-0.00069	0.18832	-0.00710	-0.00705	49.85389	0.00290	0.01204	0.00376
%RSD	0.45029	-0.00063	0.13324	-0.00599	-0.00710	49.76417	0.00055	0.00676	0.00183
	0.13690	13.21212	58.46334	26.29600	0.96952	0.25495	609.30445	110.23077	149.09101

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.07125	0.01767	0.00038	0.00298	0.00602	49.82077	-0.00971	-0.03044	4.97549
Mean	0.05229	0.01890	0.00044	0.00326	0.00325	49.87290	-0.01080	-0.03051	4.98570
%RSD	0.06177	0.01828	0.00041	0.00312	0.00464	49.84683	-0.01026	-0.03047	4.98059
	21.70183	4.76451	11.57411	6.52712	42.26618	0.07394	7.46071	0.15246	0.14502

	Pb	Se
#1	calc	calc
#2	-0.00639	0.00043
Mean	-0.00707	0.00652
%RSD	-0.00673	0.00347
	7.10887	123.89717

Method : Paragon2
SampleId1 : ICV
SampleId2 :
Analysis commenced : 7/17/2017 12:09:32
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 7/17/2017 17:43:51
[CV]

Position : STD5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.09782	25.58539	0.25286	0.50442	0.49856	0.25045	0.26500	25.55870	0.24719
Mean	0.09903	25.48647	0.24038	0.50048	0.49695	0.25053	0.26218	25.57295	0.24552
%RSD	0.09842	25.53593	0.24662	0.50245	0.49775	0.25049	0.26359	25.56582	0.24636
	0.86744	0.27392	3.57868	0.55444	0.22975	0.02255	0.75636	0.03942	0.47695

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.25042	0.49922	0.49994	9.82629	25.30759	0.24274	25.45493	0.49877	0.49656
Mean	0.24953	0.49848	0.49594	9.81328	25.21952	0.24154	25.40978	0.49803	0.49425
%RSD	0.24997	0.49885	0.49794	9.81979	25.26356	0.24214	25.43236	0.49840	0.49540
	0.25074	0.10472	0.56736	0.09366	0.24649	0.35061	0.12555	0.10517	0.32961

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2									
Mean									
%RSD									

#1	26.26129	0.51820	2.52029	0.50166	0.49352	2.42576	0.26012	0.50854	0.48462
#2	26.10879	0.51482	2.52029	0.49988	0.50229	2.46076	0.26168	0.50086	0.49770
Mean	26.18504	0.51651	2.52029	0.50077	0.49790	2.44326	0.26090	0.50470	0.49116
%RSD	0.41180	0.46318	0.00000	0.25109	1.24604	1.01296	0.42205	1.07576	1.88344

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.41595	0.51827	0.25199	0.24167	0.25330	2.50845	0.24912	0.48837	0.51465
#2	2.41154	0.51909	0.25089	0.24094	0.25206	2.49372	0.24766	0.48684	0.51349
Mean	2.41374	0.51868	0.25144	0.24130	0.25268	2.50108	0.24839	0.48761	0.51407
%RSD	0.12925	0.11220	0.30770	0.21350	0.34847	0.41642	0.41585	0.22256	0.15996

	Pb	Se
	calc	calc
#1	0.49623	0.49259
#2	0.50149	0.49875
Mean	0.49886	0.49567
%RSD	0.74558	0.88008

Method : Paragon2
File : 170717A
SampleId1 : ICB
SampleId2 :
Analysis commenced : 7/17/2017 12:10:40
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:51
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00115	0.00902	-0.00094	-0.00099	-0.00066	0.00007	0.00390	0.00602	0.00035
#2	-0.00152	0.00415	0.00030	-0.00130	-0.00078	0.00008	-0.00122	0.00496	0.00013
Mean	-0.00134	0.00658	-0.00032	-0.00114	-0.00072	0.00008	0.00134	0.00549	0.00024
%RSD	19.31747	52.29163	273.54085	19.23615	11.68129	10.80487	269.64243	13.68599	63.54882

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00085	-0.00024	-0.00036	0.00363	0.04154	0.00334	-0.00184	-0.00057	-0.00013
#2	0.00012	-0.00051	-0.00116	0.00290	0.02519	0.00330	-0.00245	-0.00057	-0.00090
Mean	-0.00037	-0.00038	-0.00076	0.00326	0.03337	0.00332	-0.00214	-0.00057	-0.00052
%RSD	186.85295	51.68106	74.19395	15.71366	34.66478	0.86458	20.20304	0.00000	105.00880

	Na	Ni	P	Pb	Pb	S	Sb	Se	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06088	-0.00048	-0.03192	-0.00139	-0.00035	-0.00926	0.00108	0.00189	-0.00351
#2	0.06011	-0.00076	-0.03192	-0.00425	0.00219	-0.01426	-0.00326	0.00614	0.00036
Mean	0.06050	-0.00062	-0.03192	-0.00282	0.00092	-0.01176	-0.00109	0.00401	-0.00158
%RSD	0.89819	32.87025	0.00000	71.66679	194.65674	30.05591	280.80377	74.89899	173.37963

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00090	0.00206	-0.00187	-0.00046	0.00491	-0.00625	-0.00009	-0.00075	0.00044

#2	0.00005	-0.00081	-0.00190	-0.00029	-0.00249	-0.00739	-0.00126	-0.00256	0.00019
Mean	0.00047	0.00063	-0.00189	-0.00038	0.00121	-0.00682	-0.00068	-0.00165	0.00032
%RSD	127.06759	325.26443	1.25636	31.66233	433.02273	11.77752	123.13500	77.50022	55.30827
Pb									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Se									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Cd									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Ba									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Bi									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Be									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Mn									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Mo									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Se I									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Se II									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Zn									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
V									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
U									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Pb									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							
Se									
calc									
#1	-0.00069	-0.00171							
#2	0.00005	0.00228							
Mean	-0.00032	0.00029							
%RSD	162.46800	986.25101							

Method : Paragon2
File : 170717A
SampleId1 : CRI
SampleId2 :
Analysis commenced : 7/17/2017 12:11:48
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:43:51
[CV]
Position : STD6

Final concentrations

Mean 0.00502 0.01104ser: STEVE WORKMAN
%RSD 23.35028 17.56411

Method : Paragon2 File : 170717A
SampleId1 : IIV SampleId2 :
Analysis commenced : 7/17/2017 12:14:06
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:52
[SAMPLE]
Position : STD7

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	0.00945	0.21102	0.02684	0.09874	0.10068	0.00531	0.01863	1.03401	0.00495
#2	0.01044	0.21933	0.03017	0.09946	0.10122	0.00532	0.01890	1.04323	0.00513
Mean	0.00995	0.21517	0.02850	0.09910	0.10095	0.00531	0.01877	1.03862	0.00504
%RSD	7.02531	2.72933	8.26853	0.51730	0.37641	0.08811	0.99814	0.62746	2.59162
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.01960	0.01085	0.01988	0.11448	0.85728	0.01640	0.99730	0.01013	0.01992
#2	0.02040	0.01103	0.02035	0.11477	0.86210	0.01651	0.99852	0.01037	0.02084
Mean	0.02000	0.01094	0.02011	0.11463	0.85969	0.01645	0.99791	0.01025	0.02038
%RSD	2.81547	1.15864	1.64162	0.17909	0.39610	0.44864	0.08678	1.69630	3.19891

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.86067	0.02100	0.18832	0.01889	0.01681	0.18574	0.05097	0.03285	0.02490
#2	0.86551	0.02273	0.18832	0.02348	0.01791	0.17574	0.05079	0.03203	0.02432
Mean	0.86309	0.02187	0.18832	0.02119	0.01736	0.18074	0.05088	0.03244	0.02461
%RSD	0.39672	5.59894	0.00000	15.33016	4.49457	3.91236	0.26308	1.79830	1.66624

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.09496	0.05543	0.01815	0.01897	0.02529	0.18910	0.02051	0.02132	0.02124
#2	0.09647	0.05461	0.01825	0.01943	0.03394	0.21524	0.02045	0.02072	0.02190
Mean	0.09571	0.05502	0.01820	0.01920	0.02962	0.20217	0.02048	0.02102	0.02157
%RSD	1.11897	1.05638	0.39058	1.68482	20.65533	9.14107	0.19225	1.98954	2.15486

	Pb calc	Se calc
#1	0.01750	0.02755
#2	0.01977	0.02689
Mean	0.01863	0.02722
%RSD	8.59678	1.71866

Method : Paragon2 File : 170717A
SampleId1 : ICSA SampleId2 :
Analysis commenced : 7/17/2017 12:15:08
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:52
[ICSAB]
Position : STD3

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00101	251.15708	-0.00464	-0.00171	0.00071	0.00077	-0.00045	254.67238	0.00001
#2	-0.00083	250.79661	-0.00674	-0.00202	0.00071	0.00075	0.00493	254.87150	0.00068
Mean	-0.00092	250.97685	-0.00569	-0.00187	0.00071	0.00076	0.00224	254.77194	0.00034
%RSD	13.92459	0.10156	26.08363	11.76694	0.00000	2.08522	169.62120	0.05527	137.98062
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	-0.00157	-0.00455	105.38102	0.07275	0.00460	258.04897	-0.00708	0.00010
#2	0.00021	-0.00082	-0.00359	105.52828	0.08189	0.00460	258.46747	-0.00745	-0.00144
Mean	-0.00001	-0.00120	-0.00407	105.45465	0.07732	0.00460	258.25822	-0.00727	-0.00067
%RSD	3374.06458	44.08536	16.66039	0.09875	8.35852	0.00000	0.11458	3.58771	161.92459
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08163	-0.00002	0.07816	-0.00318	-0.00030	0.04574	0.00541	0.00647	-0.00439
#2	0.08144	-0.00044	0.07816	-0.00336	-0.00028	0.02074	0.00598	0.01243	0.00538
Mean	0.08154	-0.00023	0.07816	-0.00327	-0.00029	0.03324	0.00570	0.00945	0.00050
%RSD	0.16664	127.21334	0.00000	3.92659	4.43185	53.18703	7.10752	44.57978	1390.15640
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00360	0.00247	0.01401	-0.00177	-0.00783	0.04038	0.00356	0.00279	0.00225
#2	0.00629	0.00453	0.01390	-0.00177	-0.00989	0.04363	0.00315	0.00252	0.00227
Mean	0.00495	0.00350	0.01395	-0.00177	-0.00886	0.04201	0.00335	0.00266	0.00226
%RSD	38.54065	41.46877	0.59433	0.00000	16.43091	5.48216	8.66578	7.09992	0.62835
	Pb	Se							
	calc	calc							
#1	-0.00126	-0.00077							
#2	-0.00131	0.00773							
Mean	-0.00128	0.00348							
%RSD	2.65131	172.80661							

Method : Paragon2 File : 170717A
SampleId1 : ICSAB SampleId2 :
Analysis commenced : 7/17/2017 12:16:16
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : STD4

Printed : 7/17/2017 17:43:52

[ICSAB]

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19269	246.08484	0.10363	0.98360	0.50246	0.47399	0.51858	248.34800	0.98862
#2	0.19299	244.30254	0.09326	0.97664	0.50090	0.47520	0.52366	249.28457	0.98701
Mean	0.19284	245.19369	0.09844	0.98012	0.50168	0.47459	0.52112	248.81628	0.98782
%RSD	0.10890	0.51399	7.45058	0.50175	0.21952	0.17954	0.68871	0.26616	0.11480

ted: 7/17/2017 17:44:11 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.47967	0.46951	0.51732	103.19264	0.08478	1.09012	251.83663	0.46073	0.95824
#2	0.47895	0.47004	0.51301	103.47696	0.10210	1.08091	251.83192	0.46048	0.96379
Mean	0.47931	0.46977	0.51517	103.33480	0.09344	1.08551	251.83428	0.46060	0.96102
%RSD	0.10546	0.07987	0.59143	0.19455	13.10598	0.59959	0.00132	0.03792	0.40857

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.07462	0.97921	0.96169	0.05283	0.04910	0.99574	0.60500	0.04921	0.04656
#2	0.07481	0.98540	1.07250	0.04576	0.04684	0.99574	0.59619	0.06407	0.05007
Mean	0.07472	0.98230	1.01710	0.04930	0.04797	0.99574	0.60060	0.05664	0.04831
%RSD	0.18185	0.44591	7.70336	10.13814	3.33870	0.00000	1.03775	18.55593	5.14390

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.92515	1.02334	0.99326	0.89742	0.08981	9.70848	0.48080	0.89344	0.49461
#2	0.91638	1.02087	0.99046	0.89915	0.09122	9.68115	0.48031	0.90401	0.49394
Mean	0.92076	1.02211	0.99186	0.89829	0.09051	9.69482	0.48056	0.89873	0.49428
%RSD	0.67397	0.17092	0.19963	0.13604	1.10312	0.19938	0.07214	0.83117	0.09619

	Pb	Se
	calc	calc
#1	0.05035	0.04744
#2	0.04648	0.05473
Mean	0.04841	0.05109
%RSD	5.64423	10.09538

Method : Paragon2 File : 170717A
SampleId1 : CCV SampleId2 :
Analysis commenced : 7/17/2017 12:17:24
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:52
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19328	49.57742	0.48372	0.98090	0.96245	0.48077	0.51514	49.84508	0.48474
#2	0.19247	49.57056	0.47741	0.98235	0.96287	0.47951	0.51233	49.66760	0.48168
Mean	0.19288	49.57399	0.48057	0.98162	0.96266	0.48014	0.51374	49.75634	0.48321
%RSD	0.29666	0.00980	0.92846	0.10468	0.03091	0.18515	0.38553	0.25223	0.44701

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.48353	0.95826	0.97035	19.15843	52.12139	0.51341	49.59039	0.95397	0.96402
#2	0.48203	0.95606	0.97004	19.09593	52.12653	0.51331	49.49919	0.95162	0.96472
Mean	0.48278	0.95716	0.97019	19.12718	52.12396	0.51336	49.54479	0.95279	0.96437
%RSD	0.22079	0.16222	0.02264	0.23104	0.00698	0.01438	0.13016	0.17501	0.05089

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	53.01777	1.00489	4.88777	0.98215	0.95693	4.86582	0.50268	0.98445	0.94877
#2	52.97491	0.99721	4.77423	0.97338	0.95841	4.85582	0.49620	0.98954	0.97162
Mean	52.99634	1.00105	4.83100	0.97777	0.95767	4.86082	0.49944	0.98700	0.96020
%RSD	0.05720	0.54260	1.66191	0.63389	0.10976	0.14548	0.91754	0.36506	1.68248
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.64038	1.02056	0.48662	0.46094	0.48810	4.79968	0.48059	0.93844	0.98707
#2	4.63987	1.01439	0.48655	0.46156	0.49152	4.78163	0.47817	0.93443	0.98603
Mean	4.64013	1.01747	0.48659	0.46125	0.48981	4.79065	0.47938	0.93643	0.98655
%RSD	0.00770	0.42894	0.00983	0.09611	0.49424	0.26632	0.35816	0.30296	0.07415

	Pb	Se
	calc	calc
#1	0.96533	0.96065
#2	0.96340	0.97759
Mean	0.96436	0.96912
%RSD	0.14132	1.23569

Method : Paragon2
File : 170717A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 7/17/2017 12:18:32
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:43:52
[CB]
Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00078	0.02191	-0.00575	-0.00140	-0.00072	0.00020	-0.00071	0.01133	0.00032
#2	-0.00114	0.01963	-0.00649	-0.00181	-0.00066	0.00018	-0.00455	0.00956	0.00044
Mean	-0.00096	0.02077	-0.00612	-0.00161	-0.00069	0.00019	-0.00263	0.01044	0.00038
%RSD	26.58773	7.75187	8.55616	18.21525	6.09226	6.52986	103.33845	11.98494	22.67893
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00012	-0.00019	-0.00084	0.00682	0.13962	0.00335	0.00367	-0.00057	0.00040
#2	-0.00139	-0.00089	-0.00147	0.00479	0.13192	0.00335	-0.00306	-0.00045	-0.00121
Mean	-0.00063	-0.00054	-0.00115	0.00580	0.13577	0.00335	0.00031	-0.00051	-0.00040
%RSD	167.77518	91.93449	39.01565	24.74923	4.00887	0.00000	1555.62297	17.14134	283.71983
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06261	-0.00048	-0.03192	-0.00024	0.00027	0.00074	-0.00226	0.01067	0.00248
#2	0.06213	-0.00064	-0.03192	-0.00674	0.00276	-0.00426	-0.00365	-0.00352	0.00036
Mean	0.06237	-0.00056	-0.03192	-0.00349	0.00152	-0.00176	-0.00296	0.00357	0.00142
%RSD	0.54452	20.86101	0.00000	131.86625	116.38501	200.51925	33.18159	280.88134	105.88300
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	-0.00231	0.00247	-0.00187	-0.00018	0.00416	-0.02103	-0.00081	-0.00104	0.00050
Mean	-0.00333	0.00042	-0.00192	-0.00040	-0.00349	-0.02898	-0.00093	-0.00048	0.00011
%RSD	-0.00282	0.00145	-0.00189	-0.00029	0.00034	-0.02501	-0.00087	-0.00076	0.00031
	25.55785	100.38326	1.87620	54.61015	1613.89376	22.49087	9.21000	52.89737	90.35447

	Pb	Se
	calc	calc
#1	0.00010	0.00521
#2	-0.00040	-0.00094
Mean	-0.00015	0.00214
%RSD	235.79462	203.33584

Method : Paragon2 File : 170717A
SampleId1 : IP170714-2MB SampleId2 :
Analysis commenced : 7/17/2017 12:19:37
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:53
[SAMPLE]
Position : TUBE1

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.00057	0.00796	-0.00242	-0.00285	-0.00072	-0.00006	-0.00377	0.04036	0.00055
%RSD	-0.00024	-0.00011	0.00116	-0.00171	-0.00090	-0.00008	-0.00404	0.04000	0.00003
	0.00017	0.00392	-0.00063	-0.00228	-0.00081	-0.00007	-0.00390	0.04018	0.00029
	337.23108	145.47944	403.26954	35.31068	15.59031	13.66757	4.76279	0.62302	124.76220

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	-0.00006	0.00109	-0.00005	0.01683	0.09680	0.00331	0.01285	-0.00008	-0.00036
%RSD	-0.00130	0.00047	-0.00052	0.01610	0.07612	0.00329	0.00673	-0.00020	0.00140
	-0.00068	0.00078	-0.00029	0.01646	0.08646	0.00330	0.00979	-0.00014	0.00052
	129.28250	55.90983	116.69322	3.11519	16.91713	0.37314	44.19426	62.84590	240.36212

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.06953	0.00068	-0.03192	0.00097	-0.00102	-0.00926	0.00205	0.00460	0.00229
%RSD	0.06886	0.00080	-0.03192	-0.00224	0.00631	0.00574	0.00030	-0.00506	-0.00061
	0.06919	0.00074	-0.03192	-0.00063	0.00265	-0.00176	0.00117	-0.00023	0.00084
	0.68723	11.82350	0.00000	357.47107	195.72124	601.55782	105.42612	2934.90263	243.71295

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	-0.00215	0.00494	-0.00177	-0.00053	-0.00717	0.00851	0.00081	0.00171	0.00134
%RSD	-0.00348	0.00863	-0.00185	-0.00101	-0.01545	-0.00967	-0.00064	0.00138	0.00064
	-0.00282	0.00679	-0.00181	-0.00077	-0.01131	-0.00058	0.00009	0.00155	0.00099
	33.48714	38.52181	3.27169	43.67481	51.76596	2209.73574	1209.29282	14.95048	49.69263

	Pb	Se
	calc	calc

#1 -0.00036 0.00306ser: STEVE WORKMAN
#2 0.00346 -0.00209
Mean 0.00155 0.00048
%RSD 173.75500 753.63967

Method : Paragon2 File : 170717A
SampleId1 : Z SampleId2 :
Analysis commenced : 7/17/2017 12:20:39
Dilution ratio : 1.00000 to 1.00000 Tray :

Final concentrations

#1	Ag	ppm	Al	ppm	As	ppm	B	ppm	Ba	ppm	Be	ppm	Bi	ppm	Ca	ppm	Cd	ppm
#2	0.09829	1.92049	0.94256	0.09315	1.00749	0.05021	0.09574	1.01446	1.01097	0.05027	0.15865	50.67292	0.05133	0.04992	0.047831	0.47963	0.47897	0.19484
Mean	0.09783	1.92169	0.94076	0.09444	1.01097	0.05027	0.09444	1.93863	0.48798	0.05027	0.15865	50.67292	0.05133	0.04992	0.047831	0.47963	0.47897	0.19484
%RSD	0.67010	0.08853	0.27033	1.93863	0.48798	0.05027	1.93863	0.48798	0.48798	0.05027	0.15865	50.67292	0.05133	0.04992	0.047831	0.47963	0.47897	0.19484
#1	Co	ppm	Cr	ppm	Cu	ppm	Fe	ppm	K	ppm	Li	ppm	Mg	ppm	Mn	ppm	Mo	ppm
#2	0.51030	0.20880	0.26378	0.99689	0.10835	0.00353	0.99689	0.10835	0.10835	0.00353	0.00353	0.00490	0.00367	0.51088	0.98878	0.98878	0.98878	0.98878
Mean	0.51066	0.21003	0.26426	0.99937	0.10618	0.00353	0.99937	0.10618	0.10618	0.00353	0.00353	0.00490	0.00428	0.51205	0.99125	0.99125	0.99125	0.99125
%RSD	0.09878	0.83212	0.25507	0.35139	2.88318	0.11620	0.35139	2.88318	2.88318	0.11620	0.11620	20.20307	0.00428	0.32420	0.35214	0.35214	0.35214	0.35214
#1	Na	ppm	Ni	ppm	P	ppm	Pb I	ppm	Pb II	ppm	S	ppm	Sb	ppm	Se I	ppm	Se II	ppm
#2	0.06732	0.52460	-0.03192	0.49562	0.48242	0.01074	0.49562	0.48242	0.48242	0.01074	-0.00926	0.48290	0.48819	1.77168	1.74379	1.74379	1.74379	1.74379
Mean	0.06713	0.52460	0.02312	0.49448	0.48856	0.00074	0.49448	0.48856	0.48856	0.00074	0.00074	0.48555	0.48555	1.76649	1.76790	1.76790	1.76790	1.76790
%RSD	0.40478	0.00000	336.70704	0.32578	1.77622	1919.37060	0.32578	1.77622	1.77622	1919.37060	0.76943	0.76943	0.76943	0.41505	1.92908	1.92908	1.92908	1.92908
#1	Si	ppm	Sn	ppm	Sr	ppm	Ti	ppm	Tl	ppm	U	ppm	V	ppm	Zn	ppm	Zr	ppm
#2	0.93752	0.51593	0.50069	0.49064	1.88931	-0.03456	0.49064	1.88931	1.88931	-0.03456	0.51832	0.51832	0.51832	0.48341	0.00079	0.00079	0.00079	0.00079
Mean	0.93887	0.51572	0.50232	0.49194	1.88901	-0.02717	0.49194	1.88901	1.88901	-0.02717	0.51891	0.51891	0.51891	0.48291	0.00064	0.00064	0.00064	0.00064
%RSD	0.20412	0.05678	0.45955	0.37505	0.02259	38.43758	0.37505	0.02259	0.02259	38.43758	0.16102	0.16102	0.16102	0.07203	14.30259	14.30259	14.30259	14.30259

Method : Paragon2 File : 170717A
SampleId1 : 1706546-2 SampleId2 :
Analysis commenced : 7/17/2017 12:21:41

Printed : 7/17/2017 17:43:53
[SAMPLE]
Position : TUBE2

Printed : 7/17/2017 17:43:53
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00168	97.39663	0.00820	0.04706	0.95998	0.00599	0.00281	178.33673	0.00047
#2	-0.00184	97.68544	0.00844	0.04820	0.96509	0.00597	0.00436	177.73041	0.00073
Mean	-0.00176	97.54103	0.00832	0.04763	0.96254	0.00598	0.00359	178.03357	0.00060
%RSD	6.39536	0.20937	2.09782	1.69111	0.37542	0.22961	30.56106	0.24082	30.09047

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.11338	0.23351	0.19278	212.50433	24.44436	0.17853	72.78043	5.24341	0.00156
#2	0.11363	0.23405	0.19264	212.05579	24.54675	0.17953	72.77224	5.24678	0.00225
Mean	0.11351	0.23378	0.19271	212.28006	24.49556	0.17903	72.77633	5.24510	0.00190
%RSD	0.15912	0.16151	0.05256	0.14941	0.29554	0.39402	0.00796	0.04534	25.69623

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	8.30193	0.24847	5.00139	0.07404	0.08048	22.55748	0.00253	-0.00046	0.00809
#2	8.34411	0.24715	5.11510	0.06535	0.08287	22.75751	0.00351	-0.00432	0.00697
Mean	8.32302	0.24781	5.05824	0.06969	0.08167	22.65749	0.00302	-0.00239	0.00753
%RSD	0.35831	0.37656	1.58950	8.81688	2.07653	0.62427	23.11845	114.22044	10.51805

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	12.69701	0.01300	0.39407	1.54068	-0.01102	0.05677	0.16858	0.41751	0.05480
#2	12.72622	0.00930	0.39562	1.54892	-0.02263	0.02429	0.16730	0.41663	0.05451
Mean	12.71162	0.01115	0.39485	1.54480	-0.01682	0.04053	0.16794	0.41707	0.05465
%RSD	0.16251	23.50473	0.27811	0.37688	48.78265	56.68108	0.54101	0.14878	0.37937

	Pb	Se
	calc	calc
#1	0.07833	0.00524
#2	0.07704	0.00321
Mean	0.07768	0.00423
%RSD	1.17776	34.00973

Method : Paragon2 File : 170717A

SampleId1 : 1706546-2D SampleId2 :

Analysis commenced : 7/17/2017 12:22:43

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:53

[SAMPLE]

Position : TUBE4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00204	92.64521	0.00931	0.04924	1.04298	0.00591	0.00883	202.50615	0.00028
#2	-0.00185	93.34503	0.00449	0.04996	1.04953	0.00594	0.00374	202.49480	0.00055

Mean	-0.00195	92.99512	0.00690	0.04960	1.04625	0.00593	0.00628	202.50048	0.00041
%RSD	6.78163	0.53212	49.32059	1.03348	0.44319	0.38016	57.31986	0.00397	46.38254
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10769	0.22178	0.15050	205.58426	23.56275	0.17174	75.74150	4.99832	0.00233
#2	0.10803	0.22238	0.15082	205.75703	23.70573	0.17261	76.02555	5.01329	0.00194
Mean	0.10786	0.22208	0.15066	205.67065	23.63424	0.17218	75.88352	5.00581	0.00213
%RSD	0.22323	0.18939	0.15178	0.05940	0.42777	0.35729	0.26469	0.21148	12.73328
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.30252	0.23540	4.32086	0.06236	0.06857	21.07725	0.00554	0.01442	0.00989
#2	9.36498	0.23333	4.54738	0.05737	0.07394	21.24728	0.00239	0.00321	0.00509
Mean	9.33375	0.23437	4.43412	0.05987	0.07125	21.16227	0.00396	0.00882	0.00749
%RSD	0.47318	0.62211	3.61232	5.89894	5.33122	0.56811	56.27095	89.88980	45.36187
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.23259	0.01138	0.42776	1.52237	-0.01354	0.04803	0.16486	0.39717	0.05359
#2	13.31433	0.01465	0.43036	1.53319	-0.01301	0.04217	0.16401	0.39419	0.05378
Mean	13.27346	0.01302	0.42906	1.52778	-0.01328	0.04510	0.16443	0.39568	0.05369
%RSD	0.43544	17.78023	0.42870	0.50105	2.85430	9.18852	0.36689	0.53198	0.25021
	Pb	Se							
	calc	calc							
#1	0.06650	0.01140							
#2	0.06842	0.00446							
Mean	0.06746	0.00793							
%RSD	2.01256	61.84320							

Method : Paragon2 File : 170717A
SampleId1 : 1706546-2L 5X SampleId2 :
Analysis commenced : 7/17/2017 12:25:07
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:43:54
[SAMPLE]
Position : TUBE5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00011	19.59342	-0.00254	0.01144	0.19386	0.00134	0.00484	35.78064	0.00039
#2	-0.00128	19.70162	-0.00328	0.01009	0.19602	0.00134	-0.00643	35.66114	-0.00005
Mean	-0.00070	19.64752	-0.00291	0.01077	0.19494	0.00134	-0.00080	35.72089	0.00017
%RSD	119.06543	0.38941	17.98858	8.84132	0.78029	0.18845	1001.22293	0.23654	181.76537
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02397	0.04906	0.03695	39.44273	4.81382	0.03205	14.97850	1.09482	0.00071
#2	0.02317	0.04852	0.03729	39.49294	4.83123	0.03224	15.00129	1.09619	0.00071
Mean	0.02357	0.04879	0.03712	39.46783	4.82253	0.03214	14.98989	1.09550	0.00071

%RSD	2.39938	0.77353	0.63628	0.08996	0.25537	0.43381	0.10750	0.08825	0.00000
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.64266	0.05221	1.07250	0.01923	0.01486	4.65581	0.00537	0.00431	-0.00273
#2	1.65805	0.05146	1.18338	0.01204	0.01960	4.74581	-0.00466	0.00712	0.00028
Mean	1.65035	0.05183	1.12794	0.01563	0.01723	4.70081	0.00036	0.00572	-0.00122
%RSD	0.65949	1.01226	6.95139	32.53462	19.48808	1.35384	1992.35067	34.73827	173.20527
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.68207	0.00251	0.07935	0.31734	-0.00648	0.00975	0.03408	0.09352	0.01212
#2	2.69071	-0.00036	0.07995	0.32034	-0.00463	-0.01644	0.03252	0.08977	0.01159
Mean	2.68639	0.00108	0.07965	0.31884	-0.00556	-0.00334	0.03330	0.09164	0.01185
%RSD	0.22745	189.31123	0.53617	0.66511	23.51385	554.32516	3.30536	2.88985	3.19780
	Pb	Se							
	calc	calc							
#1	0.01631	-0.00038							
#2	0.01708	0.00256							
Mean	0.01670	0.00109							
%RSD	3.27044	190.92681							

Method : Paragon2

File : 170717A

SampleId1 : 1706546-2MS

SampleId2 :

Analysis commenced : 7/17/2017 12:32:07

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:54

[SAMPLE]

Position : TUBE6

Final concentrations

#1	0.09383	104.51000	0.91280	0.14234	1.85932	0.05182	0.00750	229.59513	0.45546
#2	0.09424	105.56982	0.90945	0.14152	1.86980	0.05207	-0.00194	231.01136	0.45845
Mean	0.09403	105.03991	0.91112	0.14193	1.86456	0.05195	0.00278	230.30324	0.45695
%RSD	0.30806	0.71345	0.25984	0.41284	0.39726	0.34100	239.92740	0.43483	0.46199
	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.56268	0.41167	0.41440	201.34069	66.47127	0.74024	120.09167	5.52822	0.87728
#2	0.56630	0.41431	0.41619	202.59384	66.99210	0.74662	121.08520	5.56506	0.88090
Mean	0.56449	0.41299	0.41530	201.96727	66.73169	0.74343	120.58843	5.54664	0.87909
%RSD	0.45273	0.45207	0.30517	0.43874	0.55189	0.60683	0.58259	0.46961	0.29147
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.06582	0.70577	4.32086	0.51782	0.49106	20.50217	0.24429	1.73185	1.69844
#2	51.47777	0.70713	4.43408	0.51597	0.50769	20.66720	0.24569	1.74103	1.72070
Mean	51.27180	0.70645	4.37747	0.51690	0.49938	20.58468	0.24499	1.73644	1.70957
%RSD	0.56814	0.13634	1.82889	0.25354	2.35506	0.56687	0.40338	0.37409	0.92070
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.06582	0.70577	4.32086	0.51782	0.49106	20.50217	0.24429	1.73185	1.69844
#2	51.47777	0.70713	4.43408	0.51597	0.50769	20.66720	0.24569	1.74103	1.72070
Mean	51.27180	0.70645	4.37747	0.51690	0.49938	20.58468	0.24499	1.73644	1.70957
%RSD	0.56814	0.13634	1.82889	0.25354	2.35506	0.56687	0.40338	0.37409	0.92070

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.09997	0.48294	0.84662	1.98713	1.77780	0.10469	0.62713	0.83793	0.06237
#2	13.21613	0.48621	0.85418	2.00390	1.80302	0.04544	0.62945	0.84241	0.06202
Mean	13.15805	0.48458	0.85040	1.99552	1.79041	0.07506	0.62829	0.84017	0.06220
%RSD	0.62426	0.47700	0.62866	0.59429	0.99616	55.80980	0.26193	0.37669	0.39860

	Pb	Se
	calc	calc
#1	0.49997	1.70957
#2	0.51045	1.72747
Mean	0.50521	1.71852
%RSD	1.46631	0.73678

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:43:54

SampleId1 : 1706546-2MSD

SampleId2 :

[SAMPLE]

Analysis commenced : 7/17/2017 12:34:31

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09414	101.81146	0.91999	0.14152	2.16849	0.05179	0.00697	212.91412	0.45611
#2	0.09423	102.41396	0.91056	0.14069	2.18093	0.05194	0.00956	213.15646	0.45806
Mean	0.09418	102.11271	0.91528	0.14110	2.17471	0.05186	0.00826	213.03529	0.45709
%RSD	0.06794	0.41722	0.72808	0.41526	0.40458	0.19381	22.21962	0.08044	0.30176

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.55750	0.40752	0.38736	204.16642	66.20758	0.72271	111.75943	5.34021	0.87011
#2	0.55945	0.40858	0.38944	204.56641	66.58012	0.72777	112.14862	5.36170	0.87250
Mean	0.55848	0.40805	0.38840	204.36642	66.39385	0.72524	111.95402	5.35095	0.87130
%RSD	0.24591	0.18413	0.37882	0.13840	0.39677	0.49312	0.24582	0.28402	0.19396

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.43606	0.70465	3.75597	0.53749	0.50599	20.80222	0.23086	1.72754	1.68894
#2	51.71515	0.70321	3.98168	0.52866	0.51498	21.01725	0.23836	1.72541	1.72751
Mean	51.57560	0.70393	3.86882	0.53307	0.51049	20.90973	0.23461	1.72647	1.70823
%RSD	0.38264	0.14512	4.12542	1.17229	1.24506	0.72717	2.25892	0.08730	1.59670

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	14.27764	0.49403	0.85129	2.00024	1.78434	0.06427	0.62383	0.83215	0.06109
#2	14.35898	0.49072	0.85505	2.01237	1.78187	0.06612	0.62466	0.83624	0.06107
Mean	14.31831	0.49238	0.85317	2.00631	1.78311	0.06520	0.62425	0.83419	0.06108
%RSD	0.40171	0.47428	0.31191	0.42749	0.09814	2.01574	0.09376	0.34710	0.01784

Seser: STEVE WORKMAN

Pb
calc
#1 0.51648
#2 0.51953
Mean 0.51801
%RSD 0.41667

Method : Paragon2

File : 170717A

SampleId1 : 1706628-2

SampleId2 :

Analysis commenced : 7/17/2017 12:35:47

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:54

[SAMPLE]

Position : TUBE8

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00150	114.98687	0.01894	0.06912	1.33207	0.00762	0.00878	164.62132	0.00051
#2	-0.00205	116.12148	0.01634	0.06725	1.34245	0.00761	0.01218	165.19183	0.00013
Mean	-0.00178	115.55417	0.01764	0.06819	1.33726	0.00762	0.01048	164.90657	0.00032
%RSD	21.96111	0.69430	10.39073	1.93311	0.54842	0.02343	22.93322	0.24463	83.75199
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14209	0.29210	0.28199	251.89806	29.44052	0.21671	70.92947	5.59620	0.00110
#2	0.14356	0.29352	0.28440	252.83552	29.68114	0.21864	71.31442	5.62683	0.00294
Mean	0.14283	0.29281	0.28319	252.36679	29.56083	0.21767	71.12195	5.61151	0.00202
%RSD	0.72693	0.34246	0.59980	0.26267	0.57557	0.62929	0.38273	0.38596	64.61006
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.09667	0.32196	6.37115	0.07909	0.08024	18.21687	0.00893	-0.00671	0.00008
#2	4.13336	0.32275	6.14205	0.07267	0.08247	18.35689	0.00677	0.00719	0.00513
Mean	4.11501	0.32236	6.25660	0.07588	0.08136	18.28688	0.00785	0.00024	0.00260
%RSD	0.63047	0.17190	2.58922	5.98911	1.93298	0.54141	19.39881	4084.53519	137.09862
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	14.47964	0.00961	0.50648	1.98468	-0.01938	0.04781	0.20729	0.51470	0.05610
#2	14.59042	0.01492	0.51003	2.00909	-0.01753	0.04798	0.20741	0.51538	0.05641
Mean	14.53503	0.01227	0.50825	1.99688	-0.01846	0.04790	0.20735	0.51504	0.05625
%RSD	0.53895	30.61615	0.49425	0.86443	7.06552	0.24498	0.04048	0.09392	0.38648
	Pb	Se							
	calc	calc							
#1	0.07986	-0.00218							
#2	0.07920	0.00581							
Mean	0.07953	0.00182							
%RSD	0.58393	311.23914							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:43:55

SampleId1 : IP170714-2LCS SampleId2 :
Analysis commenced : 7/17/2017 12:57:43
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]
Position : TUBE9

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09653	1.90178	0.90362	0.08869	0.98860	0.04807	-0.00177	37.05131	0.45109
#2	0.09515	1.90873	0.91354	0.08921	0.99311	0.04845	0.00080	37.25587	0.45132
Mean	0.09584	1.90525	0.90858	0.08895	0.99086	0.04826	-0.00048	37.15359	0.45121
%RSD	1.01374	0.25784	0.77203	0.41165	0.32186	0.55580	376.80653	0.38930	0.03612

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48185	0.19625	0.25095	0.93789	35.99998	0.46932	37.14659	0.48123	0.95408
#2	0.48539	0.19834	0.25271	0.94008	36.17955	0.47218	37.30633	0.48333	0.96186
Mean	0.48362	0.19729	0.25183	0.93899	36.08977	0.47075	37.22646	0.48228	0.95797
%RSD	0.51813	0.74795	0.49450	0.16493	0.35182	0.42950	0.30342	0.30789	0.57495

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	37.52381	0.48256	0.07816	0.48313	0.45879	0.01074	0.47573	1.75791	1.71356
#2	37.73650	0.48392	0.07816	0.48411	0.47444	0.00574	0.47343	1.74042	1.77430
Mean	37.63015	0.48324	0.07816	0.48362	0.46662	0.00824	0.47458	1.74916	1.74393
%RSD	0.39966	0.19923	0.00000	0.14460	2.37144	42.92358	0.34307	0.70719	2.46290

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.91761	0.49908	0.49000	0.47930	1.85664	-0.00381	0.49571	0.47536	0.00137
#2	0.92388	0.49579	0.49152	0.48303	1.86180	-0.00267	0.49677	0.47825	0.00065
Mean	0.92074	0.49744	0.49076	0.48117	1.85922	-0.00324	0.49624	0.47680	0.00101
%RSD	0.48194	0.46807	0.21930	0.54779	0.19623	24.74347	0.15222	0.42845	50.67708

	Pb	Se
	calc	calc
#1	0.46690	1.72833
#2	0.47766	1.76302
Mean	0.47228	1.74567
%RSD	1.61209	1.40515

Method : Paragon2 File : 170717A
SampleId1 : 1706546-2A SampleId2 :
Analysis commenced : 7/17/2017 13:00:19
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:55
[SAMPLE]
Position : TUBE10

Final concentrations

Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00094	95.35511	0.94194	0.14172	1.89705	0.05313	0.00795	206.80841	0.45776
#2	-0.00057	94.97444	0.93574	0.14152	1.89638	0.05327	0.00617	207.32619	0.45606
Mean	-0.00075	95.16477	0.93884	0.14162	1.89672	0.05320	0.00706	207.06730	0.45691
%RSD	34.74268	0.28285	0.46704	0.10344	0.02484	0.18514	17.85880	0.17681	0.26181
#1	0.58089	0.40954	0.43653	195.63659	65.04493	0.72768	108.38204	5.40289	0.95114
#2	0.58115	0.40966	0.43541	196.27132	64.87203	0.72557	108.38204	5.41118	0.95438
Mean	0.58102	0.40960	0.43597	195.95395	64.95848	0.72663	108.38204	5.40703	0.95276
%RSD	0.03107	0.02101	0.18136	0.22904	0.18821	0.20488	0.00000	0.10842	0.24039
#1	51.42353	0.69231	5.00139	0.54780	0.53643	22.16241	0.49004	1.83962	1.81732
#2	51.25264	0.69305	4.88777	0.54610	0.54692	22.24243	0.48554	1.85241	1.86438
Mean	51.33809	0.69268	4.94458	0.54695	0.54168	22.20242	0.48779	1.84601	1.84085
%RSD	0.23538	0.07584	1.62488	0.21913	1.36830	0.25482	0.65231	0.49022	1.80757
#1	13.11574	0.50765	0.85083	1.95405	1.82571	0.05378	0.64137	0.86867	0.05192
#2	13.08990	0.51093	0.85114	1.95869	1.81260	0.04858	0.64046	0.87522	0.05207
Mean	13.10282	0.50929	0.85098	1.95637	1.81915	0.05118	0.64092	0.87194	0.05199
%RSD	0.13947	0.45584	0.02547	0.16777	0.50955	7.18760	0.10039	0.53085	0.20193
#1	0.54022	1.82474	0.85083	1.95405	1.82571	0.05378	0.64137	0.86867	0.05192
#2	0.54665	1.86039	0.85114	1.95869	1.81260	0.04858	0.64046	0.87522	0.05207
Mean	0.54343	1.84257	0.85098	1.95637	1.81915	0.05118	0.64092	0.87194	0.05199
%RSD	0.83626	1.36807	0.02547	0.16777	0.50955	7.18760	0.10039	0.53085	0.20193

Method : Paragon2 File : 170717A
SampleId1 : CCV **SampleId2 :**
Analysis commenced : 7/17/2017 13:01:39
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:43:55
[CV]
Position : STD1
Final concentrations

#1	0.19308	50.35774	0.48694	0.97384	0.98475	0.49189	0.50659	50.14673	0.47193
#2	0.19506	50.74282	0.48249	0.97882	0.98872	0.49375	0.49770	50.42139	0.47302
Mean	0.19407	50.55028	0.48471	0.97633	0.98674	0.49282	0.50214	50.28406	0.47247
%RSD	0.72277	0.53865	0.64980	0.36085	0.28441	0.26722	1.25097	0.38623	0.16329
#1	0.48776	0.97380	0.96901	19.23420	51.22261	0.51201	50.48506	0.97359	0.97590

#2	0.49051	0.98001	0.97188	19.33409	51.46521	0.51448	50.71503	0.97917	0.97474
Mean	0.48914	0.97690	0.97044	19.28414	51.34391	0.51324	50.60004	0.97638	0.97532
%RSD	0.39707	0.44999	0.20919	0.36625	0.33410	0.34041	0.32137	0.40458	0.08388
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.57151	0.96921	4.88777	0.99521	0.98195	5.03082	0.49877	0.99167	0.97378
#2	52.85038	0.97227	5.00139	1.00093	0.99382	5.11083	0.49972	1.00461	0.99538
Mean	52.71095	0.97074	4.94458	0.99807	0.98789	5.07083	0.49925	0.99814	0.98458
%RSD	0.37410	0.22260	1.62488	0.40592	0.84961	1.11561	0.13373	0.91705	1.55176
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.77500	1.01271	0.49054	0.48664	0.49299	4.91503	0.48725	0.98976	0.99463
#2	4.80901	1.02053	0.49296	0.48972	0.50018	4.93416	0.48991	0.99752	1.00018
Mean	4.79200	1.01662	0.49175	0.48818	0.49658	4.92460	0.48858	0.99364	0.99740
%RSD	0.50178	0.54346	0.34775	0.44666	1.02309	0.27474	0.38600	0.55169	0.39357
	Pb	Se							
	calc	calc							
#1	0.98637	0.97973							
#2	0.99619	0.99846							
Mean	0.99128	0.98909							
%RSD	0.70085	1.33847							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:43:55

SampleId1 : CCB

SampleId2 :

[CB]

Analysis commenced : 7/17/2017 13:02:47

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00040	-0.02233	0.00054	-0.00358	-0.00072	-0.00016	-0.00250	0.01770	0.00051
#2	-0.00105	-0.01975	-0.00168	-0.00482	-0.00066	-0.00019	0.00313	0.01558	-0.00018
Mean	-0.00032	-0.02104	-0.00057	-0.00420	-0.00069	-0.00018	0.00032	0.01664	0.00016
%RSD	317.66692	8.68347	277.59916	20.93685	6.09226	10.21339	1249.88881	9.02699	294.14489
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00077	0.00031	-0.00004	0.00943	0.10931	0.00332	0.01102	-0.00045	0.00079
#2	-0.00112	0.00036	-0.00068	0.00841	0.09825	0.00330	0.00245	-0.00045	-0.00067
Mean	-0.00094	0.00034	-0.00036	0.00892	0.10378	0.00331	0.00673	-0.00045	0.00006
%RSD	26.52642	9.59257	124.84615	8.04862	7.53888	0.49535	89.99548	0.00000	1753.39045
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06751	0.00121	-0.03192	-0.00025	0.00225	0.00074	-0.00226	-0.00010	0.00074
#2	0.06665	-0.00039	0.07816	-0.00729	0.00442	-0.00926	0.00067	-0.00904	0.00335

Mean	0.06708	0.00041	0.02312	-0.00377	0.00333	-0.00426	-0.00079	-0.00457	0.00205
%RSD	0.91140	277.39221	336.70704	131.96730	46.10350	165.86333	261.47387	138.43129	90.07778
#1	0.00614	-0.00204	-0.00182	-0.00045	-0.00780	-0.00626	-0.00020	-0.00010	0.00056
#2	0.00293	0.00001	-0.00185	-0.00048	-0.00213	-0.01535	-0.00076	-0.00010	0.00007
Mean	0.00453	-0.00102	-0.00184	-0.00046	-0.00496	-0.01080	-0.00048	-0.00010	0.00031
%RSD	50.14880	142.68552	1.29076	5.17406	80.81739	59.50741	82.99527	1.40053	110.81564

Pb	Se
calc	calc
#1	0.00141
#2	0.00052
Mean	0.00097
%RSD	65.49340
	562.12388

Method : Paragon2
 File : 170717A
 SampleId1 : 1706546-2 2X SampleId2 :
 Analysis commenced : 7/17/2017 13:03:50 [SAMPLE]
 Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE11

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	-0.00008	49.26639	0.00437	0.02428	0.49000	0.00293	0.00192	88.79566	0.00057
	-0.00036	49.15233	0.00289	0.02273	0.48856	0.00290	0.00320	89.01505	0.00042
Mean	-0.00022	49.20936	0.00363	0.02350	0.48928	0.00291	0.00256	88.90536	0.00049
%RSD	88.09861	0.16390	28.84706	4.67322	0.20775	0.77618	35.34534	0.17450	21.76884

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	0.05823	0.12137	0.09590	102.90992	11.30385	0.08287	37.28395	2.70433	0.00094
	0.05805	0.12141	0.09462	103.07415	11.24230	0.08246	37.28768	2.70963	0.00225
Mean	0.05814	0.12139	0.09526	102.99204	11.27308	0.08267	37.28582	2.70698	0.00160
%RSD	0.21924	0.02479	0.94935	0.11275	0.38602	0.34728	0.00707	0.13854	57.88656

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	3.86482	0.12679	2.63222	0.03531	0.04019	11.84122	0.00168	0.00049	-0.00065
	3.84169	0.12279	2.74423	0.03596	0.04084	11.89622	-0.00027	0.01310	0.00043
Mean	3.85325	0.12479	2.68822	0.03564	0.04051	11.86872	0.00070	0.00679	-0.00011
%RSD	0.42457	2.26623	2.94636	1.28532	1.13030	0.32770	196.44106	131.31353	682.03926

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	6.62856	0.00523	0.19916	0.80759	-0.01104	0.00884	0.08461	0.22577	0.02876
	6.62600	-0.00093	0.19848	0.80817	-0.01075	0.00413	0.08488	0.22515	0.02897
Mean	6.62728	0.00215	0.19882	0.80788	-0.01090	0.00649	0.08474	0.22546	0.02887

%RSD	0.02727	202.71936	0.23922	0.05042	1.85662	51.41270	0.22041	0.19410	0.50449
	Pb	Se							
	calc	calc							
#1	0.03857	-0.00027							
#2	0.03921	0.00465							
Mean	0.03889	0.00219							
%RSD	1.17761	159.17768							

Method : Paragon2 File : 170717A
SampleId1 : 1706546-2D 2X **SampleId2 :**
Analysis commenced : 7/17/2017 13:04:52
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:56
[SAMPLE]
Position : TUBE12

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00155	47.74064	0.00116	0.02283	0.54098	0.00290	0.00470	100.82728	0.00027
#2	-0.00119	47.78757	0.00758	0.02563	0.53894	0.00287	0.00804	101.02121	0.00031
Mean	-0.00137	47.76411	0.00437	0.02423	0.53996	0.00289	0.00637	100.92425	0.00029
%RSD	18.76762	0.06946	103.82540	8.16014	0.26679	0.70148	37.01674	0.13587	10.92444

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.05520	0.11538	0.07572	100.25449	11.08994	0.08126	39.13380	2.60399	-0.00082
#2	0.05546	0.11616	0.07555	100.32071	11.04257	0.08097	39.20782	2.60449	0.00117
Mean	0.05533	0.11577	0.07564	100.28760	11.06625	0.08112	39.17081	2.60424	0.00017
%RSD	0.33008	0.47975	0.15138	0.04669	0.30265	0.25279	0.13362	0.01370	811.24467

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.42042	0.11994	2.40843	0.02543	0.04087	11.20617	0.00406	-0.00731	-0.00438
#2	4.40889	0.11949	2.29666	0.03174	0.03698	11.22617	0.00171	-0.00631	-0.00080
Mean	4.41466	0.11971	2.35255	0.02859	0.03892	11.21617	0.00288	-0.00681	-0.00259
%RSD	0.18467	0.26788	3.35950	15.59500	7.06477	0.12610	57.56958	10.33820	97.83517

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.99056	0.00235	0.22025	0.80880	-0.00518	0.01273	0.08367	0.21495	0.02787
#2	6.99158	0.00851	0.21909	0.81090	-0.00911	0.01607	0.08296	0.21437	0.02826
Mean	6.99107	0.00543	0.21967	0.80985	-0.00715	0.01440	0.08332	0.21466	0.02807
%RSD	0.01030	80.15654	0.37365	0.18344	38.88400	16.40595	0.60325	0.19309	0.98295

	Pb	Se							
	calc	calc							
#1	0.03573	-0.00535							
#2	0.03523	-0.00263							
Mean	0.03548	-0.00399							
%RSD	0.98558	48.15283							

ted: 7/17/2017 17:44:11 User: STEVE WORKMAN
Method : Paragon2 File : 170717A
SampleId1 : 1706546-2L 10X SampleId2 :
Analysis commenced : 7/17/2017 13:05:55
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:56
[SAMPLE]
Position : TUBE13

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00072	9.86939	-0.00057	0.00481	0.09895	0.00045	0.00285	0.00028
#2	0.00082	9.83978	0.00054	0.00523	0.09901	0.00042	-0.00047	0.00030
Mean	0.00005	9.85459	-0.00001	0.00502	0.09898	0.00043	0.00119	0.00029
%RSD	2047.66172	0.21247	7485.88284	5.83519	0.04266	5.94600	196.73469	3.66368

	Co	Cr	Cu	Fe	K	Li	Mg	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01150	0.02579	0.01902	19.37324	2.01107	0.01629	7.61421	-0.00059
#2	0.01141	0.02590	0.01997	19.31443	2.00528	0.01626	7.60315	0.00033
Mean	0.01146	0.02584	0.01950	19.34383	2.00817	0.01627	7.60868	-0.00013
%RSD	0.54417	0.28127	3.44300	0.21495	0.20380	0.10080	0.10272	489.41006

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.70738	0.02834	0.62976	0.00777	0.01028	2.44076	0.00331	-0.00563	-0.00060
#2	0.70651	0.02924	0.62976	0.01008	0.00776	2.41076	-0.00003	0.00588	-0.00302
Mean	0.70695	0.02879	0.62976	0.00892	0.00902	2.42576	0.00164	0.00013	-0.00181
%RSD	0.08704	2.22736	0.00000	18.30899	19.74246	0.87451	143.95903	6422.69047	94.45060

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.37595	-0.00060	0.03949	0.16620	-0.00865	-0.00698	0.01716	0.04784	0.00639
#2	1.37984	-0.00142	0.03935	0.16608	-0.00162	0.01581	0.01715	0.04753	0.00657
Mean	1.37790	-0.00101	0.03942	0.16614	-0.00513	0.00442	0.01716	0.04768	0.00648
%RSD	0.19981	57.71914	0.24056	0.05048	96.86327	364.80206	0.05854	0.45313	2.01116

	Pb	Se
	calc	calc
#1	0.00944	-0.00228
#2	0.00853	-0.00006
Mean	0.00899	-0.00117
%RSD	7.16259	134.27427

Method : Paragon2 File : 170717A
SampleId1 : 1706546-2MS 2X SampleId2 :
Analysis commenced : 7/17/2017 13:06:57
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:56
[SAMPLE]
Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04849	54.86136	0.47803	0.07585	0.98061	0.02769	0.00214	120.31895	0.23572
#2	0.04823	55.35618	0.47506	0.07347	0.98866	0.02781	0.00549	119.87211	0.23518
Mean	0.04836	55.10877	0.47655	0.07466	0.98463	0.02775	0.00381	120.09553	0.23545
%RSD	0.38485	0.63491	0.44060	2.25598	0.57866	0.30467	62.10025	0.26309	0.16199

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.30173	0.22349	0.21233	104.34868	32.40110	0.35005	63.90099	2.99086	0.46215
#2	0.30190	0.22267	0.21314	104.26911	32.74960	0.35410	64.03481	2.99479	0.46338
Mean	0.30182	0.22308	0.21274	104.30889	32.57535	0.35207	63.96790	2.99283	0.46277
%RSD	0.03975	0.25859	0.26911	0.05394	0.75649	0.81425	0.14792	0.09275	0.18817

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	25.33846	0.37068	2.52029	0.27597	0.26945	11.16116	0.12890	0.94309	0.90654
#2	25.59401	0.36948	2.52029	0.27533	0.27779	11.22117	0.12596	0.94208	0.94260
Mean	25.46623	0.37008	2.52029	0.27565	0.27362	11.19117	0.12743	0.94259	0.92457
%RSD	0.70955	0.22856	0.00000	0.16407	2.15709	0.37914	1.62946	0.07584	2.75774

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.12547	0.25836	0.44076	1.09353	0.95270	0.03122	0.33443	0.46319	0.03351
#2	7.16196	0.25712	0.44282	1.10246	0.95280	0.01426	0.33368	0.45974	0.03349
Mean	7.14372	0.25774	0.44179	1.09800	0.95275	0.02274	0.33406	0.46147	0.03350
%RSD	0.36122	0.34103	0.32991	0.57500	0.00696	52.75582	0.15852	0.52932	0.05815

	Pb	Se
	calc	calc
#1	0.27162	0.91871
#2	0.27698	0.94243
Mean	0.27430	0.93057
%RSD	1.38032	1.80197

Method : Paragon2
File : 170717A
sampleId1 : 1706546-2MSD 2X sampleId2 :
Analysis commenced : 7/17/2017 13:07:59
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE15

Printed : 7/17/2017 17:43:56
[SAMPLE]
Position : TUBE15

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04814	53.41058	0.48150	0.07285	1.14246	0.02756	0.00776	110.02882	0.23383
#2	0.04725	53.93202	0.47185	0.07140	1.15896	0.02771	-0.00168	109.97026	0.23369
Mean	0.04769	53.67130	0.47667	0.07212	1.15071	0.02764	0.00304	109.99954	0.23376
%RSD	1.32573	0.68699	1.43158	1.42151	1.01379	0.39193	219.88547	0.03764	0.04169

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.29725	0.21920	0.19761	99.95273	32.48495	0.34374	59.14657	2.86748	0.45607
Mean	0.29783	0.21907	0.19881	100.15921	32.67781	0.34615	59.29519	2.87481	0.45754
%RSD	0.27258	0.08224	0.86023	0.29154	0.83464	0.98457	0.35446	0.36089	0.45200

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	25.65971	0.36391	2.18497	0.28164	0.28097	11.31117	0.12571	0.93484	0.92415
#2	25.92710	0.36490	2.18497	0.27435	0.28891	11.45619	0.11826	0.93282	0.94268
Mean	25.79340	0.36441	2.18497	0.27799	0.28494	11.38368	0.12199	0.93383	0.93341
%RSD	0.73302	0.19210	0.00000	1.85435	1.97042	0.90075	4.31801	0.15289	1.40353

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.95356	0.25342	0.44129	1.09941	0.92880	0.01872	0.32831	0.45306	0.03223
#2	8.00461	0.24930	0.44877	1.11204	0.93541	-0.01239	0.32864	0.45056	0.03189
Mean	7.97909	0.25136	0.44503	1.10572	0.93210	0.00317	0.32847	0.45181	0.03206
%RSD	0.45245	1.15999	1.18931	0.80717	0.50160	694.56831	0.06986	0.39083	0.74674

	Pb	Se
	calc	calc
#1	0.28119	0.92771
#2	0.28406	0.93940
Mean	0.28263	0.93355
%RSD	0.71766	0.88509

Method : Paragon2
SampleId1 : 1706628-2 2X
SampleId2 :
Analysis commenced : 7/17/2017 13:09:01
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 7/17/2017 17:43:57
[SAMPLE]
Position : TUBE16

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00102	60.16373	0.01091	0.03536	0.70125	0.00381	0.00892	84.92592	0.00054
#2	-0.00137	59.84448	0.00598	0.03546	0.70089	0.00381	0.00687	84.95406	0.00042
Mean	-0.00119	60.00411	0.00844	0.03541	0.70107	0.00381	0.00790	84.93999	0.00048
%RSD	20.95152	0.37621	41.34304	0.20678	0.03631	0.10953	18.34001	0.02343	18.52155

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07528	0.15621	0.14314	129.00013	14.13486	0.10367	37.65195	2.99441	0.00163
#2	0.07492	0.15662	0.14299	129.15479	14.03681	0.10296	37.58605	2.99479	0.00010
Mean	0.07510	0.15641	0.14307	129.07746	14.08583	0.10331	37.61900	2.99460	0.00087
%RSD	0.33697	0.18295	0.07503	0.08472	0.49222	0.48828	0.12386	0.00897	125.52697

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	1.98073	0.16369	3.53057	0.04119	0.03892	9.86107	0.00486	0.00235	0.00332
#2	1.96418	0.16587	3.41800	0.03757	0.04189	9.80607	0.00249	-0.00051	0.00343
Mean	1.97246	0.16478	3.47428	0.03938	0.04040	9.83357	0.00368	0.00092	0.00338
%RSD	0.59328	0.93778	2.29122	6.49911	5.19392	0.39552	45.70260	219.16605	2.44921

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.83385	0.00736	0.26367	1.09179	-0.00371	0.02616	0.10783	0.27666	0.03034
#2	7.80888	0.00161	0.26337	1.09335	-0.01343	0.01009	0.10697	0.28009	0.02993
Mean	7.82137	0.00449	0.26352	1.09257	-0.00857	0.01812	0.10740	0.27838	0.03014
%RSD	0.22574	90.63010	0.08132	0.10088	80.15129	62.69199	0.56477	0.87200	0.95347

	Pb	Se
	calc	calc
#1	0.03968	0.00299
#2	0.04045	0.00212
Mean	0.04006	0.00256
%RSD	1.36637	24.09899

Method : Paragon2
File : 170717A
SampleId1 : CRI
SampleId2 :
Analysis commenced : 7/17/2017 13:10:09
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:57
[CV]

Position : STD6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01915	0.40406	0.01141	0.40439	0.42233	0.01035	0.04940	5.28576	0.01010
#2	0.01905	0.40626	0.00906	0.39921	0.42102	0.01037	0.04710	5.26224	0.00942
Mean	0.01910	0.40516	0.01023	0.40180	0.42168	0.01036	0.04825	5.27400	0.00976
%RSD	0.34926	0.38416	16.20380	0.91204	0.22085	0.11759	3.37078	0.31537	4.94049

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10618	0.02047	0.05144	0.21047	4.20172	0.01865	5.18141	0.03152	0.02007
#2	0.10662	0.02071	0.05224	0.21017	4.19011	0.01861	5.13540	0.03164	0.01923
Mean	0.10640	0.02059	0.05184	0.21032	4.19592	0.01863	5.15841	0.03158	0.01965
%RSD	0.29276	0.80364	1.08998	0.09767	0.19567	0.15408	0.63064	0.27532	3.04125

	Na	Ni	P	Pb	Pb	S	Sb	Se	I
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.62134	0.08622	0.18832	0.00273	0.00668	0.19074	0.12255	0.01143	0.01264
#2	4.60998	0.08630	0.18832	0.00135	0.00754	0.20574	0.12293	0.01030	0.01264
Mean	4.61566	0.08626	0.18832	0.00204	0.00711	0.19824	0.12274	0.01086	0.01264
%RSD	0.17389	0.06759	0.00000	47.92362	8.55125	5.35047	0.22168	7.36342	0.00050

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10544	0.10144	0.01839	0.01984	0.01891	0.17537	0.10489	0.04016	0.05393

#2	0.10577	0.10596	0.01837	0.01997	0.02816	0.17878	0.10405	0.04234	0.05399
Mean	0.10560	0.10370	0.01838	0.01990	0.02354	0.17707	0.10447	0.04125	0.05396
%RSD	0.22215	3.08106	0.06447	0.48157	27.80426	1.36148	0.56848	3.73833	0.08067
	Pb	Se							
	calc	calc							
#1	0.00537	0.01224							
#2	0.00548	0.01186							
Mean	0.00542	0.01205							
%RSD	1.47430	2.21028							

Method : Paragon2 File : 170717A
SampleId1 : LCV SampleId2 :
Analysis commenced : 7/17/2017 13:11:17
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:57
[SAMPLE]

Position : STD7

Final concentrations

#1	0.01008	0.18763	0.03486	0.09304	0.10301	0.00521	0.01838	1.05245	0.00477
#2	0.00945	0.18666	0.02807	0.09646	0.10235	0.00513	0.02120	1.04926	0.00489
Mean	0.00976	0.18715	0.03146	0.09475	0.10268	0.00517	0.01979	1.05085	0.00483
%RSD	4.59237	0.36787	15.25764	2.55061	0.45230	1.07532	10.04527	0.21467	1.77427
	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02049	0.01096	0.02035	0.11535	0.82694	0.01651	1.02057	0.01037	0.02038
#2	0.01907	0.01089	0.02004	0.11579	0.82550	0.01648	1.01750	0.01037	0.02007
Mean	0.01978	0.01093	0.02020	0.11557	0.82622	0.01650	1.01904	0.01037	0.02023
%RSD	5.06451	0.46015	1.10095	0.26644	0.12364	0.12429	0.21245	0.00000	1.07440
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.86870	0.02030	0.18832	0.02150	0.01841	0.20574	0.04724	0.04066	0.03040
#2	0.86628	0.01985	0.18832	0.01817	0.02086	0.18574	0.04842	0.04023	0.03060
Mean	0.86749	0.02007	0.18832	0.01984	0.01964	0.19574	0.04783	0.04045	0.03050
%RSD	0.19736	1.59738	0.00000	11.87809	8.81127	7.22508	1.74153	0.76338	0.44839
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09968	0.05420	0.01822	0.01972	0.02493	0.20160	0.02068	0.02114	0.02196
#2	0.09918	0.04845	0.01817	0.01958	0.02677	0.19024	0.02062	0.02144	0.02198
Mean	0.09943	0.05133	0.01819	0.01965	0.02585	0.19592	0.02065	0.02129	0.02197
%RSD	0.35853	7.92193	0.19538	0.48780	5.04426	4.10141	0.19176	1.01928	0.06645
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01944	0.01944	0.03382						
#2	0.01997	0.03380							
	Pb	Se							
	calc	calc							
#1	0.01944	0.03382							
#2	0.01997	0.03380							

Mean 0.01970 0.03381ser: STEVE WORKMAN
%RSD 1.87476 0.03430

Method : Paragon2 File : 170717A
SampleId1 : ICSA SampleId2 :
Analysis commenced : 7/17/2017 13:12:20
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:57
[ICSAB]
Position : STD3

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00064	255.70874	0.00042	-0.00575	0.00083	0.00054	0.00340	257.56977	0.00020
#2	0.00037	254.98897	0.00190	-0.00368	0.00089	0.00051	0.00647	257.58530	-0.00004
Mean	-0.00014	255.34886	0.00116	-0.00471	0.00086	0.00052	0.00493	257.57753	0.00008
%RSD	528.56330	0.19932	90.12548	31.06248	4.91274	4.05046	44.02795	0.00426	212.97120
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00014	-0.00043	-0.00311	105.64325	0.06842	0.00459	263.99258	-0.00684	0.00017
#2	0.00048	-0.00018	-0.00294	105.70132	0.07227	0.00462	263.86070	-0.00708	-0.00013
Mean	0.00017	-0.00031	-0.00303	105.67228	0.07035	0.00460	263.92664	-0.00696	0.00002
%RSD	261.75662	56.48529	3.88118	0.03886	3.86830	0.44556	0.03533	2.49741	1062.44785

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.08221	0.00101	0.07816	0.00187	0.00245	0.04074	0.01013	0.00392	-0.00281
#2	0.08183	0.00027	0.07816	0.00227	-0.00041	0.05074	-0.00011	0.01653	-0.00232
Mean	0.08202	0.00064	0.07816	0.00207	0.00102	0.04574	0.00501	0.01022	-0.00256
%RSD	0.33134	82.42639	0.00000	13.65234	197.61793	15.46035	144.38702	87.20481	13.52466

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.01036	-0.00574	0.01395	-0.00160	-0.01332	0.04011	0.00301	0.00421	0.00257
#2	0.00951	0.00124	0.01396	-0.00117	-0.00467	0.02868	0.00129	0.00391	0.00264
Mean	0.00994	-0.00225	0.01395	-0.00139	-0.00900	0.03439	0.00215	0.00406	0.00261
%RSD	6.02146	219.53203	0.08490	21.60220	67.94711	23.48624	56.66511	5.21769	1.67759

	Pb calc	Se calc
#1	0.00226	-0.00057
#2	0.00048	0.00396
Mean	0.00137	0.00169
%RSD	91.48335	188.91342

Method : Paragon2 File : 170717A
SampleId1 : ICSAB SampleId2 :
Analysis commenced : 7/17/2017 13:13:28
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:58
[ICSAB]
Position : STD4

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19582	249.27580	0.09955	0.97716	0.51216	0.48525	0.50933	251.52105	0.97275
#2	0.19617	250.19560	0.10054	0.98162	0.51450	0.48702	0.52969	252.30713	0.97422
Mean	0.19599	249.73570	0.10005	0.97939	0.51333	0.48614	0.51951	251.91409	0.97349
%RSD	0.12775	0.26043	0.69820	0.32226	0.32183	0.25669	2.77117	0.22065	0.10612
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48484	0.47766	0.51816	103.37775	0.07275	1.08661	256.89976	0.46937	0.97212
#2	0.48642	0.48034	0.52008	103.71790	0.07419	1.09096	257.70747	0.47086	0.97999
Mean	0.48563	0.47900	0.51912	103.54783	0.07347	1.08878	257.30361	0.47011	0.97606
%RSD	0.23141	0.39536	0.26158	0.23229	1.38889	0.28289	0.22197	0.22293	0.56993
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07500	0.96322	0.96169	0.04565	0.04954	1.09074	0.60529	0.06901	0.05044
#2	0.07510	0.96215	1.18338	0.04920	0.04898	1.08074	0.60712	0.05937	0.05068
Mean	0.07505	0.96269	1.07254	0.04742	0.04926	1.08574	0.60620	0.06419	0.05056
%RSD	0.09052	0.07886	14.61562	5.28570	0.80773	0.65127	0.21350	10.62100	0.33198
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.94064	1.02865	0.99645	0.93253	0.08937	9.94376	0.48601	0.94799	0.49859
#2	0.94861	1.03523	0.99977	0.93699	0.10019	9.94566	0.48756	0.95278	0.50157
Mean	0.94463	1.03194	0.99811	0.93476	0.09478	9.94471	0.48678	0.95039	0.50008
%RSD	0.59611	0.45072	0.23469	0.33707	8.07142	0.01352	0.22425	0.35651	0.42134
	Pb	Se							
	calc	calc							
#1	0.04824	0.05662							
#2	0.04905	0.05357							
Mean	0.04865	0.05510							
%RSD	1.17039	3.91701							

Printed : 7/17/2017 17:43:58

[CV]

Position : STD1

File : 170717A

Method : Paragon2 SampleId1 : CCV SampleId2 :

Analysis commenced : 7/17/2017 13:14:36

Dilution ratio : 1.00000 to 1.00000 Tray :

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19400	50.54197	0.48410	0.97508	0.98319	0.49088	0.50174	50.30662	0.47703
#2	0.19478	50.51859	0.48125	0.98027	0.98728	0.49202	0.50049	50.26336	0.47512
Mean	0.19439	50.53028	0.48267	0.97768	0.98524	0.49145	0.50111	50.28499	0.47607
%RSD	0.28411	0.03272	0.41690	0.37537	0.29347	0.16496	0.17680	0.06084	0.28302

ted: 7/17/2017 17:44:12 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.49212	0.97397	0.97542	19.18657	51.47035	0.51472	50.67128	0.96949	0.97220
#2	0.49026	0.97460	0.97620	19.21669	51.48628	0.51588	50.62191	0.97234	0.98238
Mean	0.49119	0.97429	0.97581	19.20163	51.47832	0.51530	50.64660	0.97092	0.97729
%RSD	0.26758	0.04616	0.05607	0.11090	0.02189	0.15838	0.06893	0.20793	0.73662

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	53.11506	0.98139	4.77423	0.99229	0.97814	5.03582	0.49815	1.01395	0.97494
#2	52.99280	0.98185	5.00139	0.99755	0.99385	5.10083	0.49607	1.01883	1.00899
Mean	53.05393	0.98162	4.88781	0.99492	0.98599	5.06833	0.49711	1.01639	0.99196
%RSD	0.16294	0.03272	3.28635	0.37360	1.12643	0.90688	0.29548	0.33950	2.42720

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	4.76993	1.02918	0.48988	0.47951	0.49149	4.89358	0.48740	0.99195	0.99822
#2	4.77285	1.02012	0.49127	0.48100	0.48943	4.94447	0.48954	0.99229	1.00059
Mean	4.77139	1.02465	0.49058	0.48025	0.49046	4.91902	0.48847	0.99212	0.99941
%RSD	0.04325	0.62475	0.19988	0.21953	0.29656	0.73157	0.30947	0.02420	0.16787

	Pb	Se
	calc	calc
#1	0.98285	0.98793
#2	0.99508	1.01226
Mean	0.98897	1.00010
%RSD	0.87423	1.72067

Method : Paragon2 File : 170717A
SampleId1 : CCB SampleId2 :
Analysis commenced : 7/17/2017 13:15:45
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:58
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00151	0.00377	-0.00513	-0.00326	-0.00060	0.00000	0.00569	0.01982	0.00025
#2	-0.00179	-0.00310	0.00215	-0.00192	-0.00072	-0.00002	-0.00096	0.02018	-0.00021
Mean	-0.00165	0.00034	-0.00149	-0.00259	-0.00066	-0.00001	0.00236	0.02000	0.00002
%RSD	11.91004	1450.25749	345.22161	36.72865	12.73304	217.57756	199.09580	1.25153	1632.27003

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00050	-0.00074	0.00013	0.01233	0.11124	0.00333	0.00184	-0.00032	-0.00013
#2	-0.00077	-0.00082	-0.00084	0.01117	0.11075	0.00335	0.00673	-0.00045	-0.00129
Mean	-0.00063	-0.00078	-0.00036	0.01175	0.11100	0.00334	0.00428	-0.00038	-0.00071
%RSD	29.53887	7.34423	191.69167	6.98406	0.30647	0.49105	80.81225	22.62634	114.86730

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06617	0.00060	0.07816	-0.00623	0.00113	0.00574	-0.00325	-0.00040	-0.00293
#2	0.06617	-0.00011	0.07816	-0.00353	0.00378	-0.02426	-0.00051	0.00188	0.00152
Mean	0.06617	0.00024	0.07816	-0.00488	0.00245	-0.00926	-0.00188	0.00074	-0.00070
%RSD	0.00000	202.31719	0.00000	39.12569	76.13756	229.00541	103.32675	217.06259	445.58524

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00259	-0.00122	-0.00187	-0.00001	-0.00423	-0.02217	-0.00093	0.00047	0.00025
#2	0.00394	0.00042	-0.00184	-0.00040	-0.00225	-0.01876	-0.00104	0.00016	0.00025
Mean	0.00326	-0.00040	-0.00185	-0.00020	-0.00324	-0.02047	-0.00098	0.00031	0.00025
%RSD	29.20249	289.09557	1.27909	137.44447	43.13941	11.78436	8.09216	70.42832	0.06713

	Pb	Se
	calc	calc
#1	-0.00132	-0.00208
#2	0.00134	0.00164
Mean	0.00001	-0.00022
%RSD	16339.55201	1175.73201

Method : Paragon2
SampleId1 : CCV
SampleId2 :
Analysis commenced : 7/17/2017 15:49:33
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:58
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19077	49.82592	0.47284	0.98390	0.95559	0.48304	0.48870	48.76045	0.48878
#2	0.18921	49.94069	0.47110	0.98060	0.96052	0.48313	0.46784	48.62750	0.48527
Mean	0.18999	49.88330	0.47197	0.98225	0.95806	0.48309	0.47827	48.69397	0.48703
%RSD	0.58279	0.16269	0.25950	0.23710	0.36385	0.01337	3.08340	0.19306	0.50884

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48102	0.95490	0.95914	19.61933	48.57773	0.49741	49.85026	0.97759	0.95269
#2	0.47960	0.95392	0.95994	19.62224	48.83185	0.49988	49.82777	0.97810	0.94821
Mean	0.48031	0.95441	0.95954	19.62079	48.70479	0.49864	49.83901	0.97784	0.95045
%RSD	0.20844	0.07309	0.05893	0.01049	0.36893	0.35037	0.03191	0.03705	0.33277

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.23958	0.97084	5.22888	0.96871	0.93895	5.10083	0.48842	0.98446	0.95146
#2	51.43014	0.96603	5.22888	0.96852	0.95644	5.14083	0.47854	0.98517	0.98599
Mean	51.33486	0.96844	5.22888	0.96861	0.94770	5.12083	0.48348	0.98482	0.96872
%RSD	0.26249	0.35087	0.00000	0.01393	1.30558	0.55236	1.44499	0.05107	2.52029

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	4.70473	0.99792	0.46975	0.47224	0.48576	4.81052	0.47846	0.98208	0.96987
Mean	4.70624	0.99401	0.47001	0.47335	0.48514	4.81108	0.47801	0.97941	0.97054
%RSD	0.04544	0.55624	0.07884	0.33157	0.17943	0.01659	0.13274	0.38558	0.09753

	Pb	Se
	calc	calc
#1	0.94886	0.96245
#2	0.96046	0.98572
Mean	0.95466	0.97408
%RSD	0.85976	1.68898

Method : Paragon2
File : 170717A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 7/17/2017 15:50:42
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:58
[CB]
Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00088	-0.03348	-0.00143	-0.00341	-0.00054	-0.00029	0.00237	0.01947	0.00042
#2	-0.00124	-0.03981	-0.00452	-0.00439	-0.00048	-0.00033	-0.00250	0.02018	-0.00006
Mean	-0.00106	-0.03665	-0.00297	-0.00390	-0.00051	-0.00031	-0.00006	0.01982	0.00018
%RSD	24.33095	12.20746	73.39654	17.86710	8.21583	7.80519	5367.59571	2.52541	190.08830

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00059	-0.00024	0.00012	0.00918	0.04629	0.00319	0.00490	-0.00044	0.00017
#2	-0.00068	-0.00035	-0.00020	0.00872	0.06938	0.00325	0.00673	-0.00044	0.00010
Mean	-0.00063	-0.00030	-0.00004	0.00895	0.05784	0.00322	0.00581	-0.00044	0.00014
%RSD	9.95682	27.83751	550.00685	3.62629	28.22816	1.27407	22.32971	0.00000	40.03510

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06569	-0.00135	0.07816	-0.00603	0.00241	-0.00926	-0.00187	0.00600	-0.00225
#2	0.06559	-0.00126	0.07816	-0.00584	0.00025	0.00074	-0.00620	-0.00733	0.00238
Mean	0.06564	-0.00130	0.07816	-0.00593	0.00133	-0.00426	-0.00404	-0.00067	0.00007
%RSD	0.10349	4.68428	0.00000	2.25056	114.99600	165.86333	75.81577	1415.46730	4884.14852

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00428	-0.00369	-0.00185	-0.00053	0.00837	-0.00739	-0.00087	-0.00044	0.00044
#2	0.00546	-0.00287	-0.00184	-0.00016	0.00676	-0.00967	-0.00081	-0.00013	0.00033
Mean	0.00487	-0.00328	-0.00184	-0.00034	0.00756	-0.00853	-0.00084	-0.00028	0.00039
%RSD	17.14196	17.71649	0.64245	76.50884	15.00837	18.83949	4.67893	75.94118	18.85539

	Pb	Se
	calc	calc

#1 -0.00040 0.00050ser: STEVE WORKMAN
#2 -0.00178 -0.00085
Mean -0.00109 -0.00018
%RSD 89.33690 538.31558

Method : Paragon2 File : 170717A
SampleId1 : IP170717-1MB SampleId2 :
Analysis commenced : 7/17/2017 15:51:46
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:59
[SAMPLE]
Position : TUBE1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00051	-0.03918	-0.00057	-0.00286	-0.00072	-0.00039	-0.00506	0.01522	0.00057
#2	-0.00124	-0.03367	-0.00217	-0.00472	-0.00078	-0.00039	0.00288	0.01699	0.00002
Mean	-0.00087	-0.03642	-0.00137	-0.00379	-0.00075	-0.00039	-0.00109	0.01611	0.00029
%RSD	59.36474	10.70510	82.92603	34.72387	5.60900	0.41422	515.23226	7.77048	130.97446
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00015	-0.00059	-0.00020	0.01638	0.07083	0.00322	-0.00122	-0.00044	-0.00059
#2	-0.00006	-0.00004	-0.00020	0.01638	0.06265	0.00321	-0.00122	-0.00044	-0.00075
Mean	-0.00010	-0.00031	-0.00020	0.01638	0.06674	0.00322	-0.00122	-0.00044	-0.00067
%RSD	60.68092	124.96494	0.42111	0.00000	8.66448	0.25481	0.00000	0.00000	16.19243

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06108	0.00142	0.07816	-0.00101	-0.00078	-0.00926	-0.00227	0.00571	0.00239
#2	0.06050	0.00012	0.07816	-0.00114	-0.00104	-0.01426	-0.00011	0.00415	-0.00099
Mean	0.06079	0.00077	0.07816	-0.00107	-0.00091	-0.01176	-0.00119	0.00493	0.00070
%RSD	0.67045	119.11257	0.00000	8.43937	20.75236	30.05591	128.20451	22.40179	343.46613

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01408	0.00206	-0.00184	-0.00007	-0.01064	-0.01195	-0.00036	0.00141	0.00009
#2	0.01442	0.00206	-0.00184	-0.00018	0.00269	-0.01422	-0.00025	0.00081	0.00029
Mean	0.01425	0.00206	-0.00184	-0.00012	-0.00397	-0.01308	-0.00031	0.00111	0.00019
%RSD	1.68095	0.00405	0.00000	57.85882	237.11799	12.28491	25.86075	37.93298	76.77392

	Pb	Se
	calc	calc
#1	-0.00085	0.00349
#2	-0.00107	0.00072
Mean	-0.00096	0.00211
%RSD	16.19597	93.15873

Method : Paragon2 File : 170717A
SampleId1 : IP170717-1LCS SampleId2 :
Analysis commenced : 7/17/2017 15:54:14

Printed : 7/17/2017 17:43:59
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.09810	1.92345	1.00073	0.10111	0.99077	0.05099	0.00257	38.99284	0.50493
#2	0.09865	1.95213	1.00098	0.10363	0.99865	0.05129	0.00131	39.24615	0.51161
Mean	0.09837	1.93779	1.00086	0.10237	0.99471	0.05114	0.00194	39.11949	0.50827
%RSD	0.39234	1.04673	0.01753	1.74076	0.56002	0.42236	45.96904	0.45787	0.92919

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.49870	0.20091	0.25240	1.03689	37.14061	0.49504	39.98861	0.50376	0.97212
#2	0.50012	0.20149	0.25544	1.04567	37.46291	0.49979	40.34767	0.50759	0.97544
Mean	0.49941	0.20120	0.25392	1.04128	37.30176	0.49741	40.16814	0.50567	0.97378
%RSD	0.20114	0.20577	0.84625	0.59630	0.61096	0.67610	0.63208	0.53501	0.24082

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	39.77439	0.50498	10.22123	0.50156	0.48713	10.39611	0.49162	2.07119	2.02745
#2	40.14303	0.50982	10.55666	0.49798	0.49562	10.57112	0.49736	2.08614	2.08715
Mean	39.95871	0.50740	10.38894	0.49977	0.49138	10.48361	0.49449	2.07866	2.05730
%RSD	0.65235	0.67518	2.28307	0.50614	1.22245	1.18044	0.82036	0.50860	2.05209

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	1.04451	0.51183	0.48045	0.47541	1.95858	-0.01641	0.50571	0.50074	0.00003
#2	1.05364	0.50607	0.48354	0.47949	1.97528	-0.00847	0.50925	0.50450	-0.00022
Mean	1.04907	0.50895	0.48199	0.47745	1.96693	-0.01244	0.50748	0.50262	-0.00010
%RSD	0.61519	0.80021	0.45394	0.60475	0.60054	45.17150	0.49239	0.52839	180.60370

	Pb	Se
	calc	calc
#1	0.49193	2.04201
#2	0.49641	2.08682
Mean	0.49417	2.06441
%RSD	0.64031	1.53456

Method : Paragon2 File : 170717A

SampleId1 : 1706286-2 10X SampleId2 :

Analysis commenced : 7/17/2017 15:55:56

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:43:59

[SAMPLE]

Position : TUBE3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00050	-0.00580	-0.00057	1.45491	1.64208	-0.00017	0.00058	24.16302	0.00001
#2	-0.00124	-0.01271	0.00252	1.43546	1.63579	-0.00023	-0.00224	24.20717	-0.00042

Mean	-0.00087	-0.00926	0.00098	1.44519	1.63894	-0.00020	-0.00083	24.18510	-0.00020
%RSD	59.69273	52.77892	223.34360	0.95178	0.27121	21.92281	239.88107	0.12908	148.07042
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00100	0.00126	0.00124	4.51325	4.02275	0.55810	2.85096	0.06774	0.00048
#2	0.00099	0.00122	0.00028	4.51561	4.00388	0.55356	2.85403	0.06774	-0.00006
Mean	0.00100	0.00124	0.00076	4.51443	4.01331	0.55583	2.85249	0.06774	0.00021
%RSD	0.63685	2.32764	89.25973	0.03698	0.33234	0.57848	0.07596	0.00000	178.93555
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	368.92983	0.00163	-0.12992	-0.00268	0.00226	0.30074	-0.00443	0.00699	0.00056
#2	365.58040	-0.00014	-0.12992	-0.00099	0.00279	0.32574	-0.00542	0.00075	-0.00002
Mean	367.25512	0.00075	-0.12992	-0.00183	0.00253	0.31324	-0.00493	0.00387	0.00027
%RSD	0.64489	167.48939	0.00000	65.42728	15.01736	5.64355	14.17865	114.04789	153.60272
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.14390	0.00042	3.94260	0.00016	-0.00259	-0.01433	-0.00044	0.00335	-0.00014
#2	2.12779	-0.00246	3.92847	0.00025	0.00037	-0.01206	-0.00038	0.00242	0.00008
Mean	2.13585	-0.00102	3.93553	0.00021	-0.00111	-0.01319	-0.00041	0.00288	-0.00003
%RSD	0.53338	199.61021	0.25388	29.05778	189.00252	12.16996	9.68481	22.84754	544.26321
	Pb	Se							
	calc	calc							
#1	0.00061	0.00270							
#2	0.00154	0.00023							
Mean	0.00107	0.00147							
%RSD	60.73412	118.84751							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:43:59

SampleId1 : 1706286-4 10X SampleId2 :

[SAMPLE]

Analysis commenced : 7/17/2017 15:56:58

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00049	0.00515	0.01474	2.36464	0.11627	-0.00001	0.01067	30.39339	0.00053
#2	-0.00041	-0.00161	0.00832	2.35902	0.11603	-0.00009	0.00400	30.41214	0.00047
Mean	0.00004	0.00177	0.01153	2.36183	0.11615	-0.00005	0.00733	30.40276	0.00050
%RSD	1755.64212	269.80294	39.36260	0.16815	0.14542	116.53091	64.28329	0.04360	7.46047
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00302	0.00188	0.19873	12.20791	8.40859	0.77855	3.70048	0.24862	0.00117
#2	0.00223	0.00118	0.19602	12.20561	8.31421	0.77102	3.69067	0.24888	0.00117
Mean	0.00263	0.00153	0.19738	12.20676	8.36140	0.77479	3.69557	0.24875	0.00117

%RSD	21.45626	32.09770	0.97163	0.01334	0.79819	0.68708	0.18768	0.07233	0.00000
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	444.64493	0.02221	23.35634	0.00345	-0.00031	17.90683	0.00068	0.00502	-0.00250
#2	441.25968	0.02087	22.87383	-0.00236	-0.00007	17.95184	0.00029	0.00713	0.00658
Mean	442.95230	0.02154	23.11509	0.00055	-0.00019	17.92934	0.00049	0.00607	0.00204
%RSD	0.54040	4.39902	1.47605	753.30967	91.14048	0.17750	56.45767	24.52247	314.78443
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.37914	-0.00369	4.31167	0.00028	0.00160	0.00726	0.00060	0.05112	0.00059
#2	3.36437	-0.00246	4.29193	0.00028	0.00393	-0.01320	-0.00013	0.04923	0.00018
Mean	3.37175	-0.00307	4.30180	0.00028	0.00277	-0.00297	0.00023	0.05018	0.00039
%RSD	0.30975	28.35979	0.32452	0.00000	59.57895	486.97680	221.69983	2.66490	74.35327
	Pb	Se							
	calc	calc							
#1	0.00094	0.00000							
#2	-0.00083	0.00676							
Mean	0.00006	0.00338							
%RSD	2226.43289	141.21715							

Method : Paragon2

File : 170717A

SampleId1 : 1706299-3 10X

SampleId2 :

Analysis commenced : 7/17/2017 15:57:59

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:00

[SAMPLE]

Position : TUBE5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00031	-0.00832	0.00289	0.33422	0.04254	-0.00012	0.00954	0.37037	0.00024
#2	-0.00059	-0.01153	-0.00106	0.33378	0.04272	-0.00017	-0.00224	0.36683	0.00039
Mean	-0.00014	-0.00993	0.00092	0.33400	0.04263	-0.00014	0.00365	0.36860	0.00031
%RSD	456.84478	22.89798	305.15550	0.09283	0.29699	23.11640	228.33124	0.67942	35.11963
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00000	-0.00008	0.00092	0.02280	0.61846	0.02774	0.06978	0.00934	0.00040
#2	-0.00106	-0.00031	0.00045	0.02112	0.60450	0.02769	0.06243	0.00921	0.00033
Mean	-0.00053	-0.00020	0.00068	0.02196	0.61148	0.02772	0.06611	0.00927	0.00037
%RSD	141.92061	81.05378	48.87250	5.42071	1.61439	0.13318	7.85685	0.96799	14.83582
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	105.76112	0.00293	-0.33768	0.00301	0.00094	1.25074	-0.00030	0.00104	-0.00495
#2	105.77206	0.00198	-0.23384	-0.00503	0.00232	1.23574	-0.00541	0.00131	0.00355
Mean	105.76659	0.00246	-0.28576	-0.00101	0.00163	1.24324	-0.00285	0.00117	-0.00070
%RSD	0.00732	27.38347	25.69458	562.25302	59.55511	0.85315	126.68497	15.99938	853.98049

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.80896	-0.00287	0.03478	-0.00322	-0.00286	-0.00003	-0.00012	0.00033
#2	1.80388	0.00453	0.03595	0.00170	-0.02104	-0.00070	-0.00013	-0.00014
Mean	1.80642	0.00083	0.03536	-0.00076	-0.01195	-0.00036	-0.00012	0.00009
%RSD	0.19882	629.63429	21.21414	457.26180	107.56588	131.10536	5.60150	358.55132

	Pb	Se
	calc	calc
#1	0.00163	-0.00296
#2	-0.00013	0.00280
Mean	0.00075	-0.00008
%RSD	165.64911	5191.89287

Method : Paragon2 File : 1707117A Printed : 7/17/2017 17:44:00

SampleId1 : 1706299-4 10X SampleId2 :

Analysis commenced : 7/17/2017 15:59:01 [SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00024	-0.02274	-0.00217	0.16433	0.10695	-0.00018	-0.00428	0.32044	0.00053
#2	-0.00087	-0.01263	0.00215	0.16137	0.10737	-0.00024	0.00211	0.31831	0.00024
Mean	-0.00056	-0.01768	-0.00001	0.16285	0.10716	-0.00021	-0.00109	0.31937	0.00039
%RSD	79.67343	40.41726	29143.06706	1.28469	0.27581	19.52506	416.70985	0.47046	52.46308

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00045	0.00011	0.00027	0.09890	0.61606	0.01860	0.06733	0.01226	0.00087
#2	-0.00035	-0.00075	-0.00020	0.09905	0.61846	0.01865	0.06060	0.01226	0.00002
Mean	0.00005	-0.00032	0.00004	0.09897	0.61726	0.01863	0.06396	0.01226	0.00044
%RSD	1182.23126	188.76755	948.35920	0.10941	0.27574	0.19816	7.44333	0.00000	134.89216

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	78.35554	0.00137	-0.02592	-0.00352	0.00034	0.09074	-0.00069	0.00757	-0.00137
#2	78.71554	0.00042	-0.02592	-0.00384	0.00128	0.09074	-0.00463	0.00061	-0.00349
Mean	78.53554	0.00090	-0.02592	-0.00368	0.00081	0.09074	-0.00266	0.00409	-0.00243
%RSD	0.32413	74.75648	0.00000	6.20360	82.17153	0.00000	104.81432	120.33395	61.76020

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.66052	-0.00081	0.02201	0.00001	-0.00554	0.00615	0.00033	0.00237	0.00011
#2	1.66916	0.00370	0.02207	-0.00006	0.00321	-0.00862	-0.00034	0.00171	-0.00032
Mean	1.66484	0.00145	0.02204	-0.00002	-0.00117	-0.00124	-0.00001	0.00204	-0.00011
%RSD	0.36705	220.92073	0.21506	212.22537	530.17087	845.59766	5794.90650	22.79623	286.89081

Seser: STEVE WORKMAN

Pb

calc
#1 -0.00095 0.00161
#2 -0.00043 -0.00213
Mean -0.00069 -0.00026
%RSD 53.37911 1016.85717

Method : Paragon2

File : 170717A

SampleId1 : 1706329-3 10X

SampleId2 :

Analysis commenced : 7/17/2017 16:00:03

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:00

[SAMPLE]

Position : TUBE7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00040	0.01074	0.79875	3.96051	0.01604	0.00899	0.00109	86.55985	0.00033
#2	-0.00069	0.00325	0.79181	3.93178	0.01610	0.00899	-0.00045	86.28896	0.00066
Mean	-0.00014	0.00699	0.79528	3.94614	0.01607	0.00899	0.00032	86.42441	0.00050
%RSD	529.98632	75.77994	0.61705	0.51490	0.26250	0.00239	338.21389	0.22163	47.18834
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00058	0.00188	0.00059	0.14837	145.76411	6.07424	9.35439	0.00895	0.00010
#2	0.00023	0.00063	-0.00004	0.14699	144.85707	6.03147	9.31568	0.00870	0.00110
Mean	0.00041	0.00126	0.00028	0.14768	145.31059	6.05285	9.33504	0.00883	0.00060
%RSD	61.46839	70.12868	160.84034	0.66013	0.44138	0.49971	0.29323	2.03340	118.36382
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	446.26602	0.00198	-0.12992	0.00253	0.00174	46.28805	0.00225	0.00601	-0.00378
#2	435.97740	0.00181	-0.12992	0.00222	0.00085	46.20802	0.00148	-0.00223	-0.00600
Mean	441.12171	0.00189	-0.12992	0.00237	0.00130	46.24804	0.00186	0.00189	-0.00489
%RSD	1.64924	6.45622	0.00000	9.44365	48.47515	0.12235	29.31767	308.28571	32.12628
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.42303	-0.00533	2.28936	-0.00001	0.01187	0.00724	-0.00005	0.01950	-0.00005
#2	2.41507	0.00247	2.28220	-0.00011	0.00791	-0.01436	-0.00028	0.01820	-0.00017
Mean	2.41905	-0.00143	2.28578	-0.00006	0.00989	-0.00356	-0.00016	0.01885	-0.00011
%RSD	0.23266	386.17838	0.22126	127.30162	28.33369	429.00388	98.60613	4.85750	76.14980
	Pb	Se							
	calc	calc							
#1	0.00201	-0.00052							
#2	0.00131	-0.00474							
Mean	0.00166	-0.00263							
%RSD	29.84993	113.62405							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:44:00

SampleId1 : 1706329-4 10X SampleId2 :
Analysis commenced : 7/17/2017 16:01:04
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]
Position : TUBE8

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00033	0.00901	0.86320	3.89365	0.00990	0.00756	-0.00634	64.93783	0.00045
#2	-0.00023	0.00747	0.86457	3.87387	0.00984	0.00755	-0.00326	65.05335	0.00009
Mean	-0.00028	0.00824	0.86388	3.88376	0.00987	0.00755	-0.00480	64.99559	0.00027
%RSD	24.16460	13.23077	0.11162	0.36014	0.42755	0.12935	45.25360	0.12568	95.84475

	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.00004	0.00594	0.00028	0.24858	152.58901	5.80916	7.65350	0.01251	-0.00075
#2	0.00004	0.00674	0.00060	0.25195	151.40435	5.75949	7.65964	0.01264	0.00025
Mean	0.00004	0.00634	0.00044	0.25027	151.99668	5.78433	7.65657	0.01257	-0.00025
%RSD	0.81189	8.83509	52.02805	0.95280	0.55112	0.60721	0.05671	0.71392	284.26160

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	426.52800	0.00622	-0.02592	-0.00721	0.00300	65.10020	-0.00348	0.00274	-0.00492
#2	422.10829	0.00552	-0.12992	-0.00109	0.00210	64.94513	0.00223	0.00245	0.00126
Mean	424.31814	0.00587	-0.07792	-0.00415	0.00255	65.02266	-0.00063	0.00259	-0.00183
%RSD	0.73653	8.33062	94.37454	104.36436	25.20884	0.16863	641.66669	7.91449	238.45558

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	1.70101	-0.00122	1.46753	-0.00033	-0.00058	-0.00650	-0.00007	0.00945	0.00045
#2	1.69254	-0.00081	1.46531	-0.00012	0.00830	-0.01333	-0.00086	0.00948	0.00062
Mean	1.69678	-0.00102	1.46642	-0.00023	0.00386	-0.00992	-0.00047	0.00946	0.00053
%RSD	0.35281	28.51237	0.10716	63.64241	162.56922	48.65211	118.67772	0.26045	21.95009

	Pb calc	Se calc
#1	-0.00040	-0.00237
#2	0.00104	0.00165
Mean	0.00032	-0.00036
%RSD	317.56921	793.58889

Method : Paragon2 File : 170717A
SampleId1 : 1706354-3 SampleId2 :
Analysis commenced : 7/17/2017 16:02:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:01
[SAMPLE]
Position : TUBE9

Final concentrations

Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
-----------	-----------	-----------	----------	-----------	-----------	-----------	-----------	-----------

#1	-0.00040	0.07983	0.00918	0.14384	0.00560	-0.00024	-0.00017	8.72936	0.00054
#2	-0.00204	0.07936	0.00252	0.14340	0.00554	-0.00024	0.00008	8.72291	0.00001
Mean	-0.00122	0.07959	0.00585	0.14362	0.00557	-0.00024	-0.00005	8.72613	0.00028
%RSD	94.71665	0.41786	80.53184	0.21580	0.75714	0.78476	364.07561	0.05221	135.49117
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00056	0.00169	0.00492	2.22380	3.55036	0.05206	0.49156	0.05199	0.00440
#2	-0.00139	0.00072	0.00349	2.22892	3.56921	0.05226	0.47809	0.05187	0.00409
Mean	-0.00041	0.00121	0.00421	2.22636	3.55979	0.05216	0.48482	0.05193	0.00425
%RSD	334.49907	56.93431	24.04623	0.16267	0.37445	0.27518	1.96438	0.17291	5.11787
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	49.73362	0.00773	0.07816	0.00301	0.00183	11.45119	-0.00086	0.00189	-0.00293
#2	50.53559	0.00604	-0.02592	-0.00638	0.00559	11.55119	-0.00401	0.00017	-0.00022
Mean	50.13460	0.00689	0.02612	-0.00168	0.00371	11.50119	-0.00243	0.00103	-0.00158
%RSD	1.13112	17.31055	281.78657	394.48641	71.64294	0.61486	91.42198	118.46974	121.36887
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.75832	0.00247	0.03449	0.00335	0.00153	-0.00628	0.00802	0.89215	-0.00391
#2	22.97281	-0.00082	0.03468	0.00354	0.00139	-0.02674	0.00690	0.88775	-0.00420
Mean	22.86557	0.00083	0.03458	0.00344	0.00146	-0.01651	0.00746	0.88995	-0.00405
%RSD	0.66332	281.30793	0.37699	3.82846	6.49177	87.65423	10.62144	0.34991	4.99959
	Pb	Se							
	calc	calc							
#1	0.00222	-0.00132							
#2	0.00160	-0.00009							
Mean	0.00191	-0.00071							
%RSD	23.04641	122.76840							

Method : Paragon2

File : 170717A

SampleId1 : 1706354-3D

SampleId2 :

Analysis commenced : 7/17/2017 16:03:09

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:01

[SAMPLE]

Position : TUBE10

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00077	0.07925	0.00042	0.13891	0.00512	-0.00022	0.00418	8.70645	0.00172
#2	-0.00204	0.07233	0.00129	0.13935	0.00518	-0.00026	0.00136	8.73866	0.00027
Mean	-0.00141	0.07579	0.00085	0.13913	0.00515	-0.00024	0.00277	8.72256	0.00100
%RSD	63.53340	6.45099	71.58018	0.22277	0.81849	10.65903	72.16375	0.26117	102.61225
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00092	0.00137	0.00460	2.20937	3.53248	0.05120	0.48849	0.05136	0.00317

#2	-0.00094	0.00104	0.00317	2.21775	3.55181	0.05159	0.48299	0.05161	0.00302
Mean	-0.00001	0.00120	0.00389	2.21356	3.54214	0.05139	0.48574	0.05149	0.00309
%RSD	9612.88350	19.77361	25.97991	0.26770	0.38595	0.54264	0.80209	0.34880	3.51218
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.97021	0.00717	-0.02592	-0.00085	0.00112	11.45119	-0.00362	0.00161	0.00026
#2	51.41513	0.00565	0.07816	-0.00469	0.00191	11.57120	-0.00559	-0.00281	-0.00177
Mean	51.19267	0.00641	0.02612	-0.00277	0.00151	11.51119	-0.00461	-0.00060	-0.00076
%RSD	0.61456	16.68733	281.78657	98.04849	36.91717	0.73719	30.18809	519.96673	189.35155
#1	Se	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	calc	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.79618	-0.00164	0.03255	0.00303	-0.00600	-0.00171	0.00801	0.89432	-0.00369
#2	22.96356	0.00083	0.03266	0.00354	-0.00058	-0.02786	0.00807	0.88652	-0.00442
Mean	22.87987	-0.00041	0.03261	0.00328	-0.00329	-0.01479	0.00804	0.89042	-0.00405
%RSD	0.51729	429.09644	0.25444	10.95343	116.38179	125.02240	0.50623	0.61964	12.73090
#1	Pb	Se							
	calc	calc							
#1	0.00046	0.00071							
#2	-0.00029	-0.00212							
Mean	0.00009	-0.00070							
%RSD	602.36424	283.25311							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:44:01

SampleId1 : CCV

SampleId2 :

[CV]

Analysis commenced : 7/17/2017 16:04:16

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD1

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19341	50.06886	0.47148	1.00113	0.96058	0.48498	0.48133	49.19286	0.49863
#2	0.19211	50.20099	0.47370	0.99795	0.96022	0.48470	0.49609	49.15077	0.49672
Mean	0.19276	50.13492	0.47259	0.99954	0.96040	0.48484	0.48871	49.17182	0.49768
%RSD	0.47610	0.18635	0.33321	0.22524	0.02656	0.04145	2.13605	0.06052	0.27044
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48369	0.96164	0.96906	19.73867	49.24341	0.50181	50.17451	0.98130	0.95446
#2	0.48458	0.95823	0.96809	19.72908	49.28750	0.50253	50.19513	0.98169	0.95855
Mean	0.48413	0.95994	0.96858	19.73387	49.26546	0.50217	50.18482	0.98149	0.95650
%RSD	0.12912	0.25123	0.07123	0.03437	0.06328	0.10127	0.02905	0.02769	0.30217
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.81768	0.98898	5.16869	0.97478	0.94931	5.12583	0.48407	0.98332	0.93533
#2	50.95799	0.98443	5.16869	0.97794	0.96640	5.15583	0.48393	0.99074	0.97209

Mean	50.88783	0.98670	5.16869	0.97636	0.95786	5.14083	0.48400	0.98703	0.95371
%RSD	0.19496	0.32577	0.00000	0.22908	1.26183	0.41266	0.02100	0.53123	2.72536

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.72144	1.00739	0.47382	0.46865	0.44746	4.80926	0.48349	0.98736	0.97569
#2	4.72877	1.00039	0.47316	0.46948	0.45881	4.83869	0.48006	0.98129	0.97382
Mean	4.72511	1.00389	0.47349	0.46906	0.45314	4.82398	0.48177	0.98432	0.97476
%RSD	0.10959	0.49270	0.09846	0.12516	1.77157	0.43146	0.50279	0.43609	0.13552

	Pb	Se
	calc	calc
#1	0.95779	0.95131
#2	0.97025	0.97830
Mean	0.96402	0.96481
%RSD	0.91352	1.97788

Method : Paragon2
File : 170717A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 7/17/2017 16:05:24
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:01
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00030	-0.02208	-0.00069	0.00294	-0.00060	-0.00023	0.00007	0.02301	0.00006
#2	0.00003	-0.01864	-0.00550	0.00262	-0.00060	-0.00024	-0.00173	0.02230	0.00055
Mean	0.00017	-0.02036	-0.00310	0.00278	-0.00060	-0.00024	-0.00083	0.02266	0.00031
%RSD	114.09212	11.94668	109.93445	8.35766	0.00000	0.50543	152.79277	2.20974	113.25567

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00012	0.00066	-0.00053	0.01041	0.09392	0.00339	0.01347	-0.00018	0.00133
#2	0.00038	-0.00005	-0.00037	0.01010	0.07756	0.00337	0.01653	-0.00031	0.00087
Mean	0.00025	0.00031	-0.00045	0.01025	0.08574	0.00338	0.01500	-0.00025	0.00110
%RSD	74.74141	163.18730	25.57966	2.11084	13.48890	0.48515	14.43080	36.30163	29.73914

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09576	0.00099	0.07816	-0.00069	-0.00025	-0.00426	0.00069	0.00700	-0.00264
#2	0.09364	-0.00057	0.07816	-0.00022	-0.00063	-0.01926	-0.00029	-0.00335	0.00084
Mean	0.09470	0.00021	0.07816	-0.00045	-0.00044	-0.01176	0.00020	0.00183	-0.00090
%RSD	1.57849	529.29482	0.00000	73.08657	59.89627	90.16774	350.30575	400.69881	273.56331

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00715	0.00042	-0.00177	-0.00033	0.00628	0.00511	0.00059	-0.00009	0.00101
#2	0.00513	-0.00246	-0.00178	-0.00051	0.00961	0.00170	-0.00076	0.00019	0.00054
Mean	0.00614	-0.00102	-0.00178	-0.00042	0.00794	0.00340	-0.00008	0.00005	0.00078

%RSD	23.35629	199.73133	0.66668	31.32225	29.64216	70.85250	1119.16757	374.71127	43.01162
	Pb		Se						
	calc	calc							
#1	-0.00040	0.00057							
#2	-0.00049	-0.00056							
Mean	-0.00045	0.00001							
%RSD	14.88610	8764.14721							

Method : Paragon2 File : 170717A
SampleId1 : 1706354-3L 5X **SampleId2 :**
Analysis commenced : 7/17/2017 16:06:16
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:01
[SAMPLE]
Position : TUBE11

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00873	-0.01715	-0.00168	0.02737	0.00095	-0.00028	-0.02584	1.70745	-0.00125
#2	-0.01991	-0.03513	-0.00526	0.02124	0.00077	-0.00022	-0.05717	1.78053	-0.00368
Mean	-0.01432	-0.02614	-0.00347	0.02431	0.00086	-0.00025	-0.04151	1.74399	-0.00246
%RSD	55.23624	48.63947	73.01388	17.84691	14.73821	16.98078	53.36653	2.96337	69.74821

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00555	-0.00580	-0.00428	0.42219	0.58621	0.01027	0.04529	0.00895	-0.00129
#2	-0.01342	-0.01376	-0.01233	0.43708	0.60739	0.01070	-0.03122	0.00769	-0.00620
Mean	-0.00948	-0.00978	-0.00831	0.42964	0.59680	0.01048	0.00704	0.00832	-0.00374
%RSD	58.72451	57.53691	68.51455	2.44991	2.50963	2.89573	768.56203	10.78737	92.86092

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.73992	-0.00308	0.07816	-0.03405	0.01824	2.05075	-0.01150	-0.00607	0.00775
#2	9.38039	-0.01176	-0.02592	-0.07768	0.04297	2.21575	-0.03118	-0.03622	0.02215
Mean	9.06016	-0.00742	0.02612	-0.05586	0.03061	2.13325	-0.02134	-0.02114	0.01495
%RSD	4.99859	82.78138	281.78657	55.22783	57.13265	5.46932	65.21105	100.81562	68.08805

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.11144	-0.00328	0.00580	0.00062	-0.00520	-0.16922	-0.00464	0.16462	-0.00407
#2	4.37849	-0.01067	0.00545	0.00011	-0.01767	-0.40115	-0.01327	0.16986	-0.01039
Mean	4.24497	-0.00697	0.00563	0.00037	-0.01143	-0.28518	-0.00896	0.16724	-0.00723
%RSD	4.44833	74.95090	4.42048	97.90444	77.14535	57.50543	68.14245	2.21343	61.84523

	Pb	Se		
	calc	calc		
#1	0.00083	0.00315		
#2	0.00280	0.00271		
Mean	0.00181	0.00293		
%RSD	76.68168	10.54437		

ted: 7/17/2017 17:44:12 User: STEVE WORKMAN
Method : Paragon2 File : 170717A
SampleId1 : 1706354-3MS SampleId2 :
Analysis commenced : 7/17/2017 16:07:18
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:02
[SAMPLE]
Position : TUBE12

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09737	2.01584	0.99714	0.24050	0.97579	0.05041	0.00819	0.50856
#2	0.09691	2.01389	0.97964	0.23896	0.97856	0.05052	0.00538	0.50764
Mean	0.09714	2.01486	0.98839	0.23973	0.97718	0.05046	0.00678	0.50810
%RSD	0.33750	0.06858	1.25134	0.45259	0.20015	0.15990	29.28772	0.12712

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49657	0.19924	0.25671	3.09964	44.07112	0.57871	39.94817	0.54509	0.96665
#2	0.49436	0.19955	0.25623	3.10713	44.02273	0.57783	39.92265	0.54649	0.96757
Mean	0.49546	0.19940	0.25647	3.10339	44.04692	0.57827	39.93541	0.54579	0.96711
%RSD	0.31635	0.11012	0.13344	0.17067	0.07769	0.10780	0.04517	0.18182	0.06767

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	93.93159	0.51718	10.22123	0.49470	0.48272	21.50232	0.48744	2.04843	1.97470
#2	93.29861	0.51277	10.22123	0.49515	0.48948	21.52732	0.48824	2.05911	2.05820
Mean	93.61510	0.51497	10.22123	0.49492	0.48610	21.51482	0.48784	2.05377	2.01645
%RSD	0.47811	0.60586	0.00000	0.06344	0.98303	0.08218	0.11514	0.36771	2.92817

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.23706	0.51308	0.50769	0.46494	1.93247	-0.00150	0.50840	1.34686	-0.00325
#2	23.18484	0.50280	0.50898	0.46715	1.93223	0.00531	0.50930	1.34438	-0.00320
Mean	23.21095	0.50794	0.50834	0.46605	1.93235	0.00191	0.50885	1.34562	-0.00322
%RSD	0.15909	1.43098	0.17884	0.33677	0.00876	252.71921	0.12492	0.13056	1.11321

	Pb	Se
	calc	calc
#1	0.48671	1.99925
#2	0.49136	2.05851
Mean	0.48904	2.02888
%RSD	0.67312	2.06507

Method : Paragon2 File : 170717A
SampleId1 : 1706354-3MSD SampleId2 :
Analysis commenced : 7/17/2017 16:08:20
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:02
[SAMPLE]
Position : TUBE13

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09840	2.03885	1.00235	0.24521	0.99053	0.05128	0.00078	47.70042	0.51739
#2	0.09885	2.03911	1.01202	0.24422	0.99137	0.05146	0.00463	47.88313	0.51831
Mean	0.09862	2.03898	1.00718	0.24472	0.99095	0.05137	0.00270	47.79178	0.51785
%RSD	0.32342	0.00885	0.67938	0.28503	0.06007	0.24134	100.61461	0.27033	0.12584

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50394	0.20193	0.25945	3.12071	44.59957	0.58927	40.33523	0.55377	0.98223
#2	0.50438	0.20374	0.26008	3.13179	44.42576	0.58798	40.41675	0.55466	0.98169
Mean	0.50416	0.20284	0.25976	3.12625	44.51266	0.58862	40.37599	0.55421	0.98196
%RSD	0.06193	0.62900	0.17277	0.25063	0.27611	0.15607	0.14278	0.11396	0.03888

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	94.65162	0.52034	10.33296	0.50399	0.49278	21.75735	0.50194	2.06449	2.00292
#2	94.38755	0.52146	10.55666	0.50610	0.49645	21.72235	0.50036	2.07859	2.08556
Mean	94.51958	0.52090	10.44481	0.50504	0.49461	21.73985	0.50115	2.07154	2.04424
%RSD	0.19755	0.15268	1.51445	0.29491	0.52400	0.11386	0.22416	0.48131	2.85844

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.36178	0.51882	0.51708	0.47165	1.97077	-0.02084	0.51463	1.35760	-0.00397
#2	23.37032	0.51636	0.51688	0.47298	1.97827	-0.00949	0.51553	1.36080	-0.00405
Mean	23.36605	0.51759	0.51698	0.47231	1.97452	-0.01517	0.51508	1.35920	-0.00401
%RSD	0.02585	0.33716	0.02777	0.20039	0.26854	52.93772	0.12382	0.16660	1.47740

	Pb	Se
	calc	calc
#1	0.49651	2.02343
#2	0.49966	2.08324
Mean	0.49809	2.05333
%RSD	0.44665	2.05983

Method : Paragon2
File : 170717A
sampleId1 : 1706354-4 sampleId2 :
Analysis commenced : 7/17/2017 16:09:23
Dilution ratio : 1.00000 to 1.00000 Tray :
Position : TUBE14

Printed : 7/17/2017 17:44:02
[SAMPLE]
Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00078	-0.00611	0.00129	0.11940	0.00113	-0.00023	0.00340	8.24304	0.00030
#2	0.00023	-0.00140	0.00622	0.11732	0.00095	-0.00021	0.00289	8.26772	0.00011
Mean	0.00050	-0.00376	0.00375	0.11836	0.00104	-0.00022	0.00314	8.25538	0.00020
%RSD	76.83037	88.73319	92.99505	1.24371	12.19618	8.53895	11.57135	0.21143	65.29534

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
--	----	----	----	----	---	----	----	----	----

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00030	0.00101	0.00139	1.59446	3.49429	0.05000	0.06457
Mean	0.00038	0.00027	0.00091	1.60342	3.52523	0.05072	0.06507
%RSD	0.00034	0.00064	0.00115	1.59894	3.50976	0.05036	0.06482
	18.37024	82.57968	29.32909	0.39653	0.62320	1.01801	0.55417

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	50.78255	0.00591	0.07816	0.00240	-0.00074	11.26617	0.00406	0.01339	0.00288
Mean	51.50697	0.00751	-0.02592	-0.00197	0.00067	11.30617	-0.00400	0.00885	0.00037
%RSD	51.14476	0.00671	0.02612	0.00022	-0.00004	11.28617	0.00003	0.01112	0.00163
	1.00154	16.84580	281.78657	1419.87056	2697.83572	0.25063	18079.61538	28.88933	109.16769

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	22.03503	0.00329	0.02407	0.00050	0.02113	0.01142	0.00769	0.01915	-0.00363
Mean	22.35465	-0.00122	0.02445	0.00040	0.01582	0.00573	0.00848	0.01757	-0.00369
%RSD	22.19484	0.00103	0.02426	0.00045	0.01847	0.00858	0.00809	0.01836	-0.00366
	1.01828	308.70859	1.12348	15.90955	20.31150	46.92357	6.86506	6.09695	1.14597

	Pb	Se
#1	calc	calc
#2	0.00030	0.00638
Mean	-0.00021	0.00319
%RSD	0.00005	0.00479
	757.67796	47.07084

Method : Paragon2
SampleId1 : 1706354-5
SampleId2 :
Analysis commenced : 7/17/2017 16:10:24
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 7/17/2017 17:44:02
[SAMPLE]
Position : TUBE15

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00078	0.16444	0.00486	0.14888	0.01324	-0.00020	0.00445	9.13109	0.00121
Mean	-0.00085	0.15482	0.00561	0.14932	0.01312	-0.00018	0.00367	9.07737	-0.00001
%RSD	-0.00004	0.15963	0.00523	0.14910	0.01318	-0.00019	0.00406	9.10423	0.00060
	3024.38154	4.26413	10.00283	0.20787	0.64026	4.39159	13.51917	0.41723	144.17333

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00074	0.00353	0.00524	2.83583	3.57356	0.05125	0.50625	0.05898	0.00448
Mean	-0.00050	0.00225	0.00461	2.83163	3.57453	0.05141	0.49400	0.05885	0.00186
%RSD	0.00012	0.00289	0.00492	2.83373	3.57405	0.05133	0.50013	0.05891	0.00317
	711.66437	31.37418	9.01668	0.10496	0.01913	0.20774	1.73116	0.15242	58.26015

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2									
Mean									
%RSD									

#1	52.21562	0.00902	-0.02592	0.00910	-0.00104	11.52119	-0.00264	0.01381	-0.00179
#2	52.31280	0.00868	0.07816	-0.00061	0.00655	11.63120	-0.00148	-0.00223	0.00285
Mean	52.26421	0.00885	0.02612	0.00424	0.00275	11.57620	-0.00206	0.00579	0.00053
%RSD	0.13147	2.76203	281.78657	161.83245	195.04137	0.67196	39.97146	195.99655	617.41908

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.31516	0.00329	0.04239	0.00686	0.01489	0.00787	0.00895	1.89933	-0.00337
#2	23.38518	-0.00246	0.04257	0.00659	0.01105	-0.01713	0.00766	1.88424	-0.00413
Mean	23.35017	0.00041	0.04248	0.00672	0.01297	-0.00463	0.00831	1.89179	-0.00375
%RSD	0.21206	988.14505	0.30697	2.85219	20.93327	381.44198	10.98704	0.56406	14.19377

	Pb	Se
	calc	calc
#1	0.00233	0.00341
#2	0.00417	0.00116
Mean	0.00325	0.00228
%RSD	39.86117	69.78962

Method : Paragon2
SampleId1 : 1706354-6
SampleId2 :
Analysis commenced : 7/17/2017 16:11:26
Dilution ratio : 1.00000 to 1.00000
Tray :

Printed : 7/17/2017 17:44:03
[SAMPLE]

Position : TUBE16

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00094	0.00620	0.00894	0.11425	0.00107	-0.00017	0.00825	8.16219	-0.00034
#2	0.00105	0.00356	0.00425	0.11524	0.00107	-0.00023	0.00468	8.17364	0.00038
Mean	0.00006	0.00488	0.00659	0.11475	0.00107	-0.00020	0.00647	8.16791	0.00002
%RSD	2447.32893	38.25619	50.30510	0.60769	0.00000	21.49871	39.06009	0.09910	2694.02809

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00015	-0.00007	0.00045	1.57591	3.46433	0.04990	0.46401	0.04349	0.00240
#2	0.00003	0.00078	0.00123	1.57668	3.44162	0.04966	0.46523	0.04387	0.00486
Mean	-0.00006	0.00035	0.00084	1.57629	3.45297	0.04978	0.46462	0.04368	0.00363
%RSD	215.84928	168.18373	65.83463	0.03467	0.46515	0.33780	0.18634	0.61670	47.87260

	Na	Ni	P	Pb	Pb	S	Sb	Se	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.09729	0.00509	0.07816	-0.00349	0.00568	11.24117	-0.00343	0.00896	-0.00040
#2	50.70436	0.00604	0.07816	0.00271	-0.00041	11.13616	-0.00262	0.01013	-0.00350
Mean	50.90082	0.00557	0.07816	-0.00039	0.00264	11.18867	-0.00302	0.00954	-0.00195
%RSD	0.54585	12.07709	0.00000	1130.63711	163.62106	0.66363	18.81875	8.66398	112.05920

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.05944	-0.00533	0.02387	0.00043	-0.00161	-0.02720	0.00685	0.01817	-0.00419

#2	21.94247	0.00288	0.02378	0.00062	-0.00097	0.00803	0.00747	0.01728	-0.00355
Mean	22.00096	-0.00122	0.02382	0.00053	-0.00129	-0.00958	0.00716	0.01773	-0.00387
%RSD	0.37594	474.44855	0.24870	24.95624	34.98248	259.94396	6.09942	3.56240	11.66194

	Pb	Se
	calc	calc
#1	0.00263	0.00271
#2	0.00063	0.00104
Mean	0.00163	0.00188
%RSD	86.91223	62.99608

Method : Paragon2
File : 170717A
SampleId1 : 1706509-1
SampleId2 :
Analysis commenced : 7/17/2017 16:12:27
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:03
[SAMPLE]
Position : TUBE17

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00039	-0.06220	0.00203	1.16464	0.01228	-0.00107	0.00775	258.91485	0.00045
#2	-0.00015	-0.06464	0.00252	1.16464	0.01246	-0.00108	-0.00173	258.66757	-0.00034
Mean	0.00012	-0.06342	0.00227	1.16464	0.01237	-0.00108	0.00301	258.79121	0.00005
%RSD	319.64657	2.71265	15.35947	0.00000	1.02290	0.70027	222.55780	0.06757	1083.08440

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00324	0.00034	0.00155	0.00765	57.41080	2.93049	643.00385	0.29902	0.00248
#2	0.00235	0.00042	0.00155	0.00627	57.70026	2.94704	643.94224	0.29978	0.00194
Mean	0.00280	0.00038	0.00155	0.00696	57.55553	2.93876	643.47305	0.29940	0.00221
%RSD	22.36836	16.33408	0.32382	13.98704	0.35562	0.39815	0.10312	0.18037	17.20688

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	272.88023	0.01996	0.07816	0.00231	-0.00352	1048.84169	0.00287	4.39811	4.29006
#2	266.82427	0.01840	0.07816	-0.00017	-0.00177	1044.89379	-0.00127	4.39952	4.41192
Mean	269.85225	0.01918	0.07816	0.00107	-0.00264	1046.86774	0.00080	4.39882	4.35099
%RSD	1.58687	5.73586	0.00000	164.58060	46.72617	0.26666	366.28228	0.02275	1.98057

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.76831	0.01192	16.75921	-0.00201	0.00745	0.01648	0.00070	0.00703	0.00056
#2	2.78138	0.01192	16.75407	-0.00221	0.00559	0.00284	0.00103	0.00517	0.00017
Mean	2.77484	0.01192	16.75664	-0.00211	0.00652	0.00966	0.00087	0.00610	0.00037
%RSD	0.33306	0.00140	0.02167	6.82466	20.15720	99.85484	27.40765	21.51324	76.00669

	Pb	Se
	calc	calc
#1	-0.00158	4.32604
#2	-0.00124	4.40780

Mean -0.00141 4.36692ser: STEVE WORKMAN
%RSD 16.94768 1.32385

Method : Paragon2 File : 170717A
SampleId1 : 1706655-1 SampleId2 :
Analysis commenced : 7/17/2017 16:15:13
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:03
[SAMPLE]
Position : TUBE18

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	-0.01891	0.00375	0.00568	0.01837	-0.00019	0.00006	24.90183	0.00026
#2	-0.00040	-0.01856	-0.00205	0.00349	0.01849	-0.00022	-0.00583	24.99277	-0.00036
Mean	-0.00032	-0.01873	0.00085	0.00459	0.01843	-0.00021	-0.00288	24.94730	-0.00005
%RSD	38.13884	1.31404	480.59779	33.76692	0.45787	7.02946	144.57627	0.25775	839.89886
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00041	0.00086	-0.00068	0.00857	0.97046	0.00537	4.37736	0.00058	-0.00036
#2	-0.00021	-0.00050	-0.00003	0.00796	0.96805	0.00539	4.41231	0.00032	-0.00052
Mean	0.00010	0.00018	-0.00036	0.00826	0.96925	0.00538	4.39484	0.00045	-0.00044
%RSD	435.01670	538.13729	127.81189	5.23797	0.17569	0.30479	0.56238	39.81311	24.66456

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.36841	0.00025	0.07816	-0.00186	0.00079	3.94079	-0.00287	-0.00024	-0.00167
#2	3.38936	0.00068	0.07816	-0.00466	0.00237	3.93079	-0.00030	0.00939	-0.00013
Mean	3.37889	0.00047	0.07816	-0.00326	0.00158	3.93579	-0.00158	0.00458	-0.00090
%RSD	0.43836	65.41607	0.00000	60.79076	71.05624	0.17967	114.32091	148.78902	121.59318

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.50088	-0.00081	0.10553	-0.00002	0.00491	-0.00626	0.00204	-0.00039	-0.00085
#2	5.57517	-0.00204	0.10633	-0.00024	-0.00262	-0.02103	0.00154	0.00017	-0.00136
Mean	5.53803	-0.00143	0.10593	-0.00013	0.00115	-0.01364	0.00179	-0.00011	-0.00110
%RSD	0.94853	60.96517	0.53782	117.35842	465.26018	76.57172	19.98725	366.76138	32.50690

	Pb	Se
	calc	calc
#1	-0.00009	-0.00119
#2	0.00003	0.00304
Mean	-0.00003	0.00092
%RSD	284.50064	324.12903

Method : Paragon2 File : 170717A
SampleId1 : 1706655-1D SampleId2 :
Analysis commenced : 7/17/2017 16:16:15
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:03
[SAMPLE]
Position : TUBE19

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00021	-0.01227	0.00116	0.00546	0.01825	-0.00017	-0.00121	24.76891	0.00025
#2	-0.00150	-0.01814	-0.00242	0.00251	0.01831	-0.00018	-0.00660	24.74993	-0.00031
Mean	-0.00064	-0.01520	-0.00063	0.00399	0.01828	-0.00017	-0.00390	24.75942	-0.00003
%RSD	188.86601	27.31385	403.26954	52.47663	0.23080	6.57876	97.65563	0.05422	1407.73478
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00032	0.00113	0.00075	0.02219	0.93385	0.00405	4.30439	0.00058	0.00010
#2	-0.00065	0.00009	-0.00099	0.02127	0.92133	0.00403	4.30929	0.00032	-0.00006
Mean	-0.00017	0.00061	-0.00012	0.02173	0.92759	0.00404	4.30684	0.00045	0.00002
%RSD	414.26048	119.68397	1028.45518	2.98798	0.95455	0.40638	0.08054	39.81311	531.22486
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	2.66267	0.00103	0.18232	0.00314	-0.00356	3.58078	-0.00129	0.00261	0.00074
#2	2.68613	-0.00096	0.07816	-0.00689	-0.00118	3.55578	-0.00640	-0.00579	0.00065
Mean	2.67440	0.00003	0.13024	-0.00187	-0.00237	3.56828	-0.00385	-0.00159	0.00070
%RSD	0.62046	4018.65975	56.55242	378.32259	70.99094	0.49542	93.98998	373.78625	9.75177
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	5.46510	0.00370	0.10261	0.00037	0.00505	0.00964	0.00272	-0.00007	-0.00060
#2	5.50174	0.00001	0.10340	0.00035	0.00379	-0.03241	0.00143	-0.00042	-0.00147
Mean	5.48342	0.00186	0.10300	0.00036	0.00442	-0.01138	0.00207	-0.00024	-0.00103
%RSD	0.47249	140.80188	0.54156	3.34057	20.13962	261.18323	43.96481	103.06191	59.65942
	Pb	Se							
	calc	calc							
#1	-0.00133	0.00137							
#2	-0.00308	-0.00150							
Mean	-0.00220	-0.00007							
%RSD	56.23589	3111.89839							

Printed : 7/17/2017 17:44:03

File : 170717A

[SAMPLE]

Method : Paragon2 SampleId1 : 1706655-1L 5X SampleId2 :

Analysis commenced : 7/17/2017 16:17:18

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE20

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00013	-0.01165	0.00437	0.00218	0.00333	-0.00017	0.00313	4.95437	0.00010
#2	0.00039	-0.00865	-0.00390	0.00229	0.00339	-0.00022	-0.00147	4.94012	0.00041
Mean	0.00013	-0.01015	0.00024	0.00223	0.00336	-0.00020	0.00083	4.94725	0.00026
%RSD	279.85566	20.92261	2473.51428	3.46931	1.25390	17.81354	391.09427	0.20367	86.92332

ted: 7/17/2017 17:44:12 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00032	0.00013	-0.00035	0.00612	0.22766	0.00379	0.87116	-0.00006	-0.00228
#2	0.00012	0.00058	-0.00101	0.00689	0.24258	0.00383	0.86381	0.00007	0.00033
Mean	-0.00010	0.00035	-0.00068	0.00650	0.23512	0.00381	0.86748	0.00001	-0.00098
%RSD	322.08027	89.69386	68.42360	8.31908	4.48576	0.75281	0.59893	1356.24132	188.80225

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.66533	0.00254	0.07816	-0.00608	0.00097	0.71074	-0.00701	0.00584	-0.00312
#2	0.65644	0.00297	0.07816	0.00327	-0.00129	0.69574	0.00068	0.00673	-0.00351
Mean	0.66088	0.00276	0.07816	-0.00140	-0.00016	0.70324	-0.00316	0.00628	-0.00331
%RSD	0.95136	11.08158	0.00000	470.37765	995.61752	1.50826	171.91377	10.00260	8.25422

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	1.08824	0.00247	0.01979	-0.00041	-0.00534	-0.02558	-0.00020	0.00206	-0.00022
#2	1.07910	0.00535	0.01969	-0.00024	0.00406	0.01307	0.00081	0.00146	0.00024
Mean	1.08367	0.00391	0.01974	-0.00033	-0.00064	-0.00625	0.00031	0.00176	0.00001
%RSD	0.59651	51.98035	0.36009	36.57560	1038.05642	436.87328	232.99055	24.12496	2826.81823

	Pb	Se
	calc	calc
#1	-0.00138	-0.00014
#2	0.00023	-0.00010
Mean	-0.00057	-0.00012
%RSD	196.99753	22.96929

Method : Paragon2 File : 170717A
SampleId1 : CCV SampleId2 :
Analysis commenced : 7/17/2017 16:18:33
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:04
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.19052	50.00979	0.47828	0.99531	0.95096	0.48111	0.48333	49.05308	0.50006
#2	0.19058	50.07356	0.47543	0.99905	0.95686	0.48290	0.49021	49.09216	0.49745
Mean	0.19055	50.04168	0.47686	0.99718	0.95391	0.48201	0.48677	49.07262	0.49875
%RSD	0.02406	0.09011	0.42197	0.26470	0.43672	0.26320	0.99993	0.05631	0.36926

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.48246	0.95457	0.96684	19.62002	49.16498	0.50084	50.09016	0.97426	0.95161
#2	0.48325	0.96008	0.96699	19.68387	49.34544	0.50270	50.20700	0.97746	0.95554
Mean	0.48286	0.95732	0.96691	19.65194	49.25521	0.50177	50.14858	0.97586	0.95357
%RSD	0.11683	0.40699	0.01115	0.22976	0.25907	0.26237	0.16474	0.23206	0.29166

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.16689	0.99253	4.95288	0.97560	0.93580	5.11583	0.47915	0.98770	0.94271
#2	50.26895	0.98941	5.16869	0.97607	0.95312	5.14583	0.47995	0.97280	0.97170
Mean	50.21792	0.99097	5.06078	0.97583	0.94446	5.13083	0.47955	0.98025	0.95720
%RSD	0.14372	0.22243	3.01536	0.03394	1.29711	0.41346	0.11744	1.07480	2.14148
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.70244	1.00904	0.47105	0.45965	0.45900	4.77883	0.47958	0.97863	0.97032
#2	4.70141	1.01027	0.47394	0.46353	0.46851	4.79347	0.48190	0.97981	0.97460
Mean	4.70193	1.00966	0.47249	0.46159	0.46375	4.78615	0.48074	0.97922	0.97246
%RSD	0.01553	0.08612	0.43262	0.59439	1.45080	0.21639	0.34139	0.08501	0.31132
	Pb	Se							
	calc	calc							
#1	0.94905	0.95769							
#2	0.96076	0.97206							
Mean	0.95491	0.96488							
%RSD	0.86726	1.05340							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:44:04

SampleId1 : CCB

SampleId2 :

[CB]

Analysis commenced : 7/17/2017 16:19:42

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00004	-0.01256	0.00104	-0.00111	-0.00054	-0.00013	-0.00173	0.02301	-0.00008
#2	-0.00041	-0.01638	0.00264	-0.00155	-0.00042	-0.00013	-0.00429	0.02266	0.00029
Mean	-0.00019	-0.01447	0.00184	-0.00133	-0.00048	-0.00013	-0.00301	0.02283	0.00011
%RSD	168.84482	18.66927	61.63215	23.34035	17.44514	2.17434	60.19710	1.09631	246.70004
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00038	-0.00020	-0.00052	0.01041	0.08863	0.00350	0.01102	-0.00031	-0.00029
#2	-0.00032	-0.00082	-0.00068	0.00979	0.08045	0.00349	0.00796	-0.00018	0.00056
Mean	0.00003	-0.00051	-0.00060	0.01010	0.08454	0.00349	0.00949	-0.00025	0.00014
%RSD	1645.24248	86.17325	18.12222	4.28563	6.84039	0.35209	22.80994	36.30163	440.38497
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.12190	0.00146	0.07816	-0.00001	-0.00294	-0.01926	-0.00089	0.00699	-0.00505
#2	0.11959	0.00055	0.07816	-0.00503	0.00091	0.00074	-0.00305	0.00145	-0.00186
Mean	0.12075	0.00101	0.07816	-0.00252	-0.00102	-0.00926	-0.00197	0.00422	-0.00346
%RSD	1.35092	63.70506	0.00000	141.11904	268.15956	152.67027	77.29304	92.82443	65.17613
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.00597	-0.00040	-0.00178	-0.00058	0.00245	-0.00626	-0.00070	0.00050	0.00095
Mean	0.00428	-0.00163	-0.00178	-0.00024	0.00268	-0.01876	0.00025	-0.00046	0.00054
%RSD	0.00513	-0.00102	-0.00178	-0.00041	0.00256	-0.01251	-0.00023	0.00002	0.00075
	23.23243	85.63203	0.00000	58.11977	6.60312	70.66789	297.32680	4049.32362	38.94053

	Pb	Se
	calc	calc
#1	-0.00197	-0.00104
#2	-0.00107	-0.00076
Mean	-0.00152	-0.00090
%RSD	41.87621	21.99168

Method : Paragon2 File : 170717A
SampleId1 : 1706655-1MS SampleId2 :
Analysis commenced : 7/17/2017 16:20:50
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:04
[SAMPLE]
Position : TUBE21

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.09726	1.92048	0.98064	0.10899	0.99095	0.05049	0.00176	63.44660	0.51003
%RSD	0.09592	1.92728	0.98882	0.10921	0.99804	0.05066	-0.00182	63.31945	0.51020
	0.09659	1.92388	0.98473	0.10910	0.99450	0.05058	-0.00003	63.38303	0.51012
	0.98704	0.24988	0.58790	0.14202	0.50455	0.22820	7711.51599	0.14185	0.02324

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	0.49333	0.19960	0.25207	0.98760	38.65016	0.49908	43.91311	0.49738	0.96549
%RSD	0.49262	0.19765	0.25401	0.98807	38.87486	0.50266	43.97543	0.49866	0.95809
	0.49298	0.19862	0.25304	0.98784	38.76251	0.50087	43.94427	0.49802	0.96179
	0.10126	0.69243	0.54235	0.03307	0.40990	0.50603	0.10029	0.18106	0.54433

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	42.21392	0.51329	9.99801	0.49134	0.47566	13.68138	0.49511	2.04004	1.97276
%RSD	42.45937	0.50857	10.10958	0.49109	0.48826	13.71138	0.49033	2.04840	2.02989
	42.33664	0.51093	10.05379	0.49122	0.48196	13.69638	0.49272	2.04422	2.00133
	0.40995	0.65256	0.78469	0.03579	1.84791	0.15490	0.68637	0.28918	2.01859

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Mean	6.30003	0.49664	0.57883	0.45719	1.93819	0.00182	0.50390	0.49695	-0.00033
%RSD	6.33579	0.50116	0.58188	0.46043	1.95192	-0.03455	0.50407	0.49531	-0.00093
	6.31791	0.49890	0.58035	0.45881	1.94506	-0.01636	0.50399	0.49613	-0.00063
	0.40033	0.64033	0.37153	0.49876	0.49915	157.17441	0.02322	0.23370	67.37312

Pb	Se
calc	calc

#1 0.48088 1.99516 **ser:** STEVE WORKMAN
#2 0.48920 2.03606
Mean 0.48504 2.01561
%RSD 1.21265 1.43452

Method : Paragon2 File : 170717A
sampleId1 : 1706655-1MSD sampleId2 :
Analysis commenced : 7/17/2017 16:21:53
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:05
[SAMPLE]
Position : TUBE22

Final concentrations

#1	Ag	ppm	Al	ppm	As	ppm	B	ppm	Ba	ppm	Be	ppm	Bi	ppm	Ca	ppm	Cd	ppm
#2	0.09707	1.87709	1.88195	0.97964	0.97456	0.10768	0.97946	0.97946	0.97381	0.04988	0.04989	0.00660	0.00097	62.84156	0.50310	0.50324	0.50317	
Mean	0.09626	1.87952	0.97710	0.97710	0.97710	0.10795	0.97664	0.97664	0.97664	0.04989	0.04989	0.00378	0.00378	62.81237	0.50317	0.50317	0.50317	
%RSD	1.19725	0.18312	0.36805	0.36805	0.36805	0.35884	0.40922	0.40922	0.40922	0.00968	0.00968	105.31590	105.31590	0.06572	0.01973	0.01973	0.01973	
#1	Co	ppm	Cr	ppm	Cu	ppm	Fe	ppm	K	ppm	Li	ppm	Mg	ppm	Mn	ppm	Mo	ppm
#2	0.48659	0.19758	0.19701	0.24758	0.24984	0.96789	0.97128	0.97128	37.97440	0.49022	0.49390	43.40211	43.40211	0.48948	0.94875	0.94891	0.94891	
Mean	0.48654	0.19729	0.24871	0.24871	0.24871	0.96959	0.96959	0.96959	38.10916	0.49206	0.49206	43.43576	43.43576	0.48999	0.94883	0.94883	0.94883	
%RSD	0.01239	0.20518	0.64152	0.64152	0.64152	0.24706	0.24706	0.24706	0.50010	0.53009	0.53009	0.10955	0.10955	0.14722	0.01149	0.01149	0.01149	
#1	Na	ppm	Ni	ppm	P	ppm	Pb I	ppm	Pb II	ppm	S	ppm	Sb	ppm	Se I	ppm	Se II	ppm
#2	41.54985	0.50347	0.50104	9.88652	9.88652	0.49396	0.48789	0.48789	0.47091	13.42635	13.53136	0.48907	0.48217	1.99494	1.92995	1.92995	1.92995	
Mean	41.67631	0.50225	0.50225	9.88652	9.88652	0.49092	0.49092	0.49092	0.47753	13.47886	13.47886	0.48562	0.48562	2.01563	1.96532	1.96532	1.96532	
%RSD	0.42913	0.34105	0.00000	0.00000	0.00000	0.87447	0.87447	0.87447	1.96061	0.55089	0.55089	1.00401	1.00401	1.45174	2.54501	2.54501	2.54501	
#1	Si	ppm	Sn	ppm	Sr	ppm	Ti	ppm	Tl	ppm	U	ppm	V	ppm	Zn	ppm	Zr	ppm
#2	6.22887	0.49871	0.56728	0.49871	0.56728	0.45030	0.45245	0.45245	1.91204	0.01207	0.01207	0.49532	0.49532	0.49282	-0.00061	-0.00061	-0.00061	
Mean	6.24737	0.49973	0.56882	0.49973	0.56882	0.45137	0.45137	0.45137	1.91848	-0.00157	-0.00157	0.49605	0.49605	0.49281	0.49281	-0.00091	-0.00091	
%RSD	0.41881	0.29046	0.38529	0.29046	0.38529	0.33710	0.33710	0.33710	0.47465	1229.91620	1229.91620	0.20771	0.20771	0.00361	47.00341	47.00341	47.00341	

Method : Paragon2 File : 170717A
sampleId1 : 1706286-2 500X sampleId2 :
Analysis commenced : 7/17/2017 16:24:21

Printed : 7/17/2017 17:44:05
[SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : TUBE23

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00060	0.00215	-0.00069	0.02945	0.03323	-0.00008	-0.00224	0.56058	-0.00001
#2	-0.00125	0.00230	-0.00291	0.02847	0.03341	-0.00009	-0.00070	0.56554	-0.00025
Mean	-0.00093	0.00222	-0.00180	0.02896	0.03332	-0.00009	-0.00147	0.56306	-0.00013
%RSD	49.25201	4.79404	87.26684	2.40719	0.37995	12.70996	73.85422	0.62284	125.71489

	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.00008	-0.00008	-0.00084	0.10150	0.11460	0.01103	0.07651	0.00807	0.00064
#2	-0.00001	-0.00021	-0.00101	0.10089	0.13673	0.01111	0.07835	0.00819	0.00094
Mean	0.00003	-0.00014	-0.00093	0.10119	0.12567	0.01107	0.07743	0.00813	0.00079
%RSD	185.32552	59.95853	12.49328	0.42804	12.45189	0.51857	1.67696	1.10400	27.55086

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	9.12434	0.00163	0.07816	-0.00280	0.00095	0.01574	-0.00108	0.00175	-0.00320
#2	9.13669	0.00038	0.07816	-0.00384	0.00386	-0.00926	-0.00541	0.00161	0.00230
Mean	9.13052	0.00101	0.07816	-0.00332	0.00240	0.00324	-0.00324	0.00168	-0.00045
%RSD	0.09560	87.97364	0.00000	22.00880	85.69932	546.14459	94.24759	5.67604	860.78001

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.04502	0.00124	0.08024	-0.00023	-0.00037	-0.00294	-0.00074	0.00174	-0.00002
#2	0.04282	-0.00451	0.08031	-0.00051	-0.00012	0.00388	-0.00018	0.00174	-0.00031
Mean	0.04392	-0.00163	0.08027	-0.00037	-0.00024	0.00047	-0.00046	0.00174	-0.00017
%RSD	3.53577	248.83217	0.05911	55.05865	73.51775	1032.63377	86.89724	0.21973	122.64497

	Pb calc	Se calc
#1	-0.00030	-0.00155
#2	0.00129	0.00207
Mean	0.00050	0.00026
%RSD	227.60621	991.20955

Method : Paragon2 File : 170717A

SampleId1 : 1706286-4 500X SampleId2 :

Analysis commenced : 7/17/2017 16:25:23

Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:05

[SAMPLE]

Position : TUBE24

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00087	0.00959	-0.00415	0.04622	0.00274	-0.00002	-0.00224	0.68565	0.00042
#2	-0.00050	0.00946	-0.00353	0.04654	0.00286	-0.00007	-0.00173	0.68139	0.00001

Mean	-0.00069	0.00952	-0.00384	0.04638	0.00280	-0.00004	-0.00198	0.68352	0.00021
%RSD	38.17663	0.94468	11.37364	0.50107	3.01584	78.34635	18.24175	0.43985	136.96756
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00014	-0.00043	0.00252	0.25900	0.16560	0.01380	0.08018	0.01200	0.00094
#2	-0.00032	-0.00043	0.00301	0.25824	0.16319	0.01379	0.08569	0.01200	-0.00090
Mean	-0.00023	-0.00043	0.00277	0.25862	0.16440	0.01379	0.08294	0.01200	0.00002
%RSD	54.15383	0.62961	12.36250	0.20956	1.03468	0.05947	4.69673	0.00000	6374.16072
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.49627	0.00263	0.49528	-0.00407	-0.00120	0.36574	0.00010	0.00117	0.00203
#2	13.43010	0.00176	0.49528	-0.00144	0.00167	0.33574	-0.00405	0.00500	0.00058
Mean	13.46319	0.00220	0.49528	-0.00275	0.00023	0.35074	-0.00197	0.00309	0.00131
%RSD	0.34749	27.83376	0.00000	67.60086	875.28034	6.04819	148.77410	87.61903	78.38358
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06598	0.00165	0.08896	-0.00031	-0.00440	-0.01220	-0.00092	0.00204	-0.00021
#2	0.06716	-0.00122	0.08886	-0.00045	0.00003	-0.01788	-0.00115	0.00235	-0.00019
Mean	0.06657	0.00021	0.08891	-0.00038	-0.00218	-0.01504	-0.00103	0.00219	-0.00020
%RSD	1.24982	948.41876	0.08007	25.32986	143.67769	26.71507	15.33950	10.01359	7.16589
	Pb	Se							
	calc	calc							
#1	-0.00216	0.00175							
#2	0.00063	0.00205							
Mean	-0.00076	0.00190							
%RSD	258.95340	11.42566							

Method : Paragon2 File : 170717A
SampleId1 : 1706299-3 SampleId2 :
Analysis commenced : 7/17/2017 16:26:25
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:44:05
[SAMPLE]
Position : TUBE25

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00049	0.02353	-0.00118	3.39267	0.40180	-0.00004	0.00390	2.95514	-0.00009
#2	-0.00112	0.01963	-0.00452	3.39631	0.40324	-0.00006	-0.00557	2.93986	-0.00021
Mean	-0.00081	0.02158	-0.00285	3.39449	0.40252	-0.00005	-0.00083	2.94750	-0.00015
%RSD	54.92716	12.78088	82.70208	0.07588	0.25235	36.03016	803.60053	0.36656	59.60369
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00003	-0.00047	0.00044	0.08328	8.52294	0.30706	0.51115	0.01924	-0.00106
#2	-0.00100	-0.00011	0.00013	0.08297	8.54581	0.30772	0.50625	0.01936	-0.00029
Mean	-0.00051	-0.00029	0.00029	0.08312	8.53437	0.30739	0.50870	0.01930	-0.00067

%RSD	134.09945	89.86862	77.05587	0.26051	0.18950	0.15210	0.68080	0.46509	80.96219
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	511.92596	0.00051	0.18232	-0.00209	0.00004	12.67629	0.00166	0.00699	0.00201
#2	496.91247	-0.00040	0.07816	-0.00580	0.00222	12.72129	-0.00384	0.00286	0.00278
Mean	504.41921	0.00006	0.13024	-0.00395	0.00113	12.69879	-0.00109	0.00492	0.00239
%RSD	2.10463	1134.06555	56.55242	66.46391	136.74743	0.25060	356.00378	59.31384	22.82038
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.37211	0.00453	0.33285	-0.00007	0.00802	-0.01088	-0.00001	0.00110	-0.00314
#2	17.35982	0.00617	0.33275	-0.00012	0.00467	-0.02906	-0.00113	0.00050	-0.00338
Mean	17.36596	0.00535	0.33280	-0.00010	0.00635	-0.01997	-0.00057	0.00080	-0.00326
%RSD	0.05004	21.72280	0.02149	36.36915	37.24251	64.38182	138.39153	53.27713	5.30550
	Pb	Se							
	calc	calc							
#1	-0.00067	0.00367							
#2	-0.00045	0.00281							
Mean	-0.00056	0.00324							
%RSD	28.23987	18.78476							

Method : Paragon2 File : 170717A
SampleId1 : 1706299-4 SampleId2 :
Analysis commenced : 7/17/2017 16:27:28
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:06
[SAMPLE]
Position : TUBE26

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00113	0.00254	0.00017	1.64223	1.02908	-0.00005	0.00621	2.57962	0.00043
#2	-0.00195	0.00089	-0.00057	1.64355	1.02806	-0.00006	0.00236	2.58389	0.00009
Mean	-0.00154	0.00171	-0.00020	1.64289	1.02857	-0.00006	0.00428	2.58176	0.00026
%RSD	37.41908	68.17438	267.67158	0.05679	0.07030	11.04896	63.45491	0.11673	94.87686
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00032	-0.00004	-0.00020	0.86876	8.03161	0.19852	0.54359	0.04552	-0.00075
#2	0.00085	-0.00050	-0.00115	0.87061	8.00049	0.19792	0.53870	0.04577	-0.00067
Mean	0.00059	-0.00027	-0.00068	0.86968	8.01605	0.19822	0.54115	0.04564	-0.00071
%RSD	63.98882	122.54419	100.00438	0.15015	0.27454	0.21311	0.63999	0.39341	7.65781
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	457.78189	0.00068	-0.02592	-0.00133	0.00258	0.75074	-0.00070	-0.00124	-0.00745
#2	456.19613	0.00047	-0.12992	-0.00400	0.00141	0.76574	-0.00542	0.00400	0.00018
Mean	456.98901	0.00058	-0.07792	-0.00267	0.00200	0.75824	-0.00306	0.00138	-0.00364
%RSD	0.24537	26.56425	94.37454	70.85331	41.63283	1.39885	109.00795	268.65275	148.39967

ted: 7/17/2017 17:44:12 User: STEVE WORKMAN

	Si	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	16.15988	0.00329	0.20873	0.00003	-0.01510	-0.00038	-0.00198	-0.00293
#2	16.19240	-0.00287	0.20805	0.00426	-0.02647	-0.00111	-0.00262	-0.00320
Mean	16.17614	0.00021	0.20839	0.00476	-0.02079	-0.00074	-0.00230	-0.00307
%RSD	0.14214	2036.37067	0.22828	14.76265	38.66991	69.20090	19.71012	6.29971
	Pb	Se						
	calc	calc						
#1	0.00128	-0.00538						
#2	-0.00039	0.00145						
Mean	0.00044	-0.00197						
%RSD	267.28822	245.74697						

Method : Paragon2 File : 1707117A Printed : 7/17/2017 17:44:06

SampleId1 : 1706329-3 500X SampleId2 :

Analysis commenced : 7/17/2017 16:28:30 [SAMPLE]

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE27

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00003	0.00925	0.01844	0.08621	0.00113	0.00015	-0.00019	1.88060	0.00014
#2	-0.00059	0.00584	0.01350	0.08697	0.00095	0.00016	-0.00327	1.87740	0.00023
Mean	-0.00028	0.00755	0.01597	0.08659	0.00104	0.00016	-0.00173	1.87900	0.00019
%RSD	157.29655	31.93385	21.85637	0.62631	12.19618	4.62635	125.99292	0.12019	32.96362
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	-0.00017	-0.00005	0.01775	2.29666	0.09298	0.21975	0.00730	0.00017
#2	-0.00112	-0.00090	-0.00099	0.01668	2.29280	0.09411	0.20751	0.00718	-0.00113
Mean	-0.00068	-0.00053	-0.00052	0.01722	2.29473	0.09354	0.21363	0.00724	-0.00048
%RSD	92.61917	97.06105	128.51578	4.40002	0.11895	0.85056	4.05237	1.23945	192.83357
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	14.40480	0.00284	-0.23384	-0.00016	-0.00079	0.90074	-0.00325	0.00658	-0.00051
#2	14.67523	0.00099	-0.12992	-0.00080	0.00448	0.91574	-0.00247	-0.00607	0.00036
Mean	14.54002	0.00192	-0.18188	-0.00048	0.00185	0.90824	-0.00286	0.00025	-0.00008
%RSD	1.31515	68.62121	40.40093	93.62043	202.15899	1.16783	19.24665	3512.75929	801.78378
	Si	Sr	Ti	Tl	U	V	Zn	Zr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
#1	0.05448	-0.00328	-0.00033	0.00233	0.00396	0.00048	0.00143	0.00043	
#2	0.05567	-0.00410	-0.00079	0.00343	-0.02331	-0.00109	0.00263	-0.00025	
Mean	0.05507	-0.00369	-0.00056	0.00288	-0.00967	-0.00031	0.00203	0.00009	
%RSD	1.52596	15.74238	58.14891	26.87887	199.34856	359.74258	42.05847	537.89461	

Seser: STEVE WORKMAN

Pb		calc
#1	-0.00058	0.00185
#2	0.00272	-0.00178
Mean	0.00107	0.00003
%RSD	218.44729	7634.92574

Method : Paragon2 File : 170717A
 SampleId1 : 1706329-4 500X SampleId2 :
 Analysis commenced : 7/17/2017 16:29:31
 Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:06
 [SAMPLE]

Position : TUBE28

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00061	0.00559	0.01659	0.08018	0.00083	0.00009	0.00135	1.42616	0.00046
#2	0.00022	0.00759	0.01647	0.08412	0.00077	0.00010	0.00186	1.42403	0.00036
Mean	-0.00019	0.00659	0.01653	0.08215	0.00080	0.00009	0.00160	1.42509	0.00041
%RSD	306.64185	21.47319	0.52805	3.39496	5.27954	4.85339	22.53306	0.10558	17.21104
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00038	0.00039	-0.00084	0.01393	2.40379	0.08785	0.17568	0.00743	0.00033
#2	0.00056	0.00023	-0.00004	0.01347	2.41585	0.08855	0.17812	0.00730	-0.00029
Mean	0.00047	0.00031	-0.00044	0.01370	2.40982	0.08820	0.17690	0.00737	0.00002
%RSD	26.63128	35.01805	128.14125	2.37029	0.35402	0.56262	0.97873	1.21810	2124.88065
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	14.09418	0.00189	0.07816	0.00141	-0.00013	1.27574	-0.00227	0.00756	0.00181
#2	14.22953	0.00042	-0.02592	-0.00161	0.00111	1.28574	-0.00109	0.00699	-0.00351
Mean	14.16185	0.00116	0.02612	-0.00010	0.00049	1.28074	-0.00168	0.00728	-0.00085
%RSD	0.67583	89.67625	281.78657	2076.06580	180.38505	0.55211	49.48203	5.55429	441.98179
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.03757	-0.00205	0.03136	0.00025	-0.00150	-0.00285	0.00087	0.00145	0.00033
#2	0.03893	-0.00287	0.03152	-0.00055	0.00158	-0.00740	0.00014	0.00268	0.00027
Mean	0.03825	-0.00246	0.03144	-0.00015	0.00004	-0.00513	0.00050	0.00207	0.00030
%RSD	2.50695	23.62713	0.37695	376.25913	5163.37367	62.71616	102.21114	42.16923	14.69389

Printed : 7/17/2017 17:44:06

File : 170717A

Method : Paragon2

SampleId1 : Z
Analysis commenced : 7/17/2017 16:30:33
Dilution ratio : 1.00000 to 1.00000 Tray :

[SAMPLE]
Position : TUBE29

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00176	-0.18242	-0.00390	-0.00768	-0.00078	-0.00240	-0.01021	-0.00035	-0.00060
#2	-0.00166	-0.18043	0.00536	-0.00637	-0.00078	-0.00244	-0.00483	-0.00248	-0.00052
Mean	-0.00171	-0.18142	0.00073	-0.00702	-0.00078	-0.00242	-0.00752	-0.00142	-0.00056
%RSD	3.86789	0.77351	896.52167	13.23371	0.00000	1.28546	50.52529	106.06597	10.41007

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00165	-0.00162	-0.00915	-0.00092	1.17615	0.00550	-0.00796	-0.00069	-0.00267
#2	-0.00174	-0.00107	-0.01010	-0.00107	1.16362	0.00541	-0.01469	-0.00056	-0.00067
Mean	-0.00169	-0.00134	-0.00963	-0.00099	1.16988	0.00545	-0.01132	-0.00063	-0.00167
%RSD	3.70029	29.13605	7.04813	10.87853	0.75711	1.20359	42.04410	14.29111	84.59059

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.16103	-0.00061	-0.02592	-0.00778	0.00797	-0.02926	-0.00799	-0.00270	0.00277
#2	0.15103	-0.00122	0.07816	-0.00809	0.00701	-0.00926	-0.00758	-0.00370	0.00287
Mean	0.15603	-0.00092	0.02612	-0.00793	0.00749	-0.01926	-0.00779	-0.00320	0.00282
%RSD	4.53189	46.71636	281.78657	2.77432	9.11876	73.41534	3.71250	22.00981	2.42328

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.08850	-0.00862	-0.00197	-0.00099	-0.00302	-0.05966	-0.00132	-0.00143	-0.00006
#2	-0.09170	-0.00533	-0.00200	-0.00090	-0.00450	-0.06307	-0.00082	-0.00295	0.00009
Mean	-0.09010	-0.00697	-0.00199	-0.00095	-0.00376	-0.06137	-0.00107	-0.00219	0.00001
%RSD	2.51158	33.32043	1.19278	6.33237	27.88678	3.92858	33.35426	49.26061	763.79452

	Pb	Se
	calc	calc
#1	0.00273	0.00095
#2	0.00198	0.00068
Mean	0.00235	0.00081
%RSD	22.46277	23.19307

Method : Paragon2
SampleId1 : 1706509-1 100X
Analysis commenced : 7/17/2017 16:32:45
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
Printed : 7/17/2017 17:44:06
[SAMPLE]
Position : TUBE29

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.00049	0.01126	-0.00081	0.01773	0.00059	-0.00003	0.00007	3.45669	0.00029
#2	-0.00023	0.01102	-0.00081	0.01806	0.00053	-0.00005	-0.00378	3.48514	0.00059
Mean	0.00013	0.01114	-0.00081	0.01790	0.00056	-0.00004	-0.00185	3.47091	0.00044
%RSD	394.97446	1.49929	0.00000	1.29841	7.52773	29.57467	146.56802	0.57952	48.61664
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	0.00074	-0.00021	0.00872	0.38213	0.03306	8.16690	0.00934	-0.00059
#2	0.00012	0.00028	-0.00004	0.00857	0.37058	0.03347	8.23200	0.00934	-0.00090
Mean	-0.00006	0.00051	-0.00012	0.00865	0.37635	0.03327	8.19945	0.00934	-0.00075
%RSD	437.17457	64.76698	94.99625	1.25155	2.17004	0.87533	0.56144	0.00000	29.05780
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	96.91335	0.00271	0.07816	0.00156	-0.00149	63.90467	-0.00129	0.04174	0.03484
#2	98.07535	0.00284	-0.02592	0.00049	0.00128	64.23982	-0.00011	0.04357	0.03802
Mean	97.49435	0.00278	0.02612	0.00103	-0.00011	64.07224	-0.00070	0.04266	0.03643
%RSD	0.84278	3.29863	281.78657	73.88898	1836.83648	0.36987	118.48139	3.03903	6.18745
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03486	0.00329	0.23864	0.00018	0.00800	0.00056	0.00059	0.00023	0.00023
#2	0.03554	0.00206	0.24074	-0.00024	-0.00484	-0.00967	0.00008	0.00176	0.00010
Mean	0.03520	0.00268	0.23969	-0.00003	0.00158	-0.00455	0.00033	0.00099	0.00016
%RSD	1.36742	32.51827	0.62059	964.54495	573.14167	158.90487	106.55754	109.07652	52.96199
	Pb	Se							
	calc	calc							
#1	-0.00047	0.03714							
#2	0.00102	0.03987							
Mean	0.00027	0.03850							
%RSD	389.87007	5.02591							

Method : Paragon2 File : 170717A Printed : 7/17/2017 17:44:07
SampleId1 : CCV **SampleId2 :**
Analysis commenced : 7/17/2017 16:35:26 **[CV]**

Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.18967	49.34000	0.46999	0.99279	0.94189	0.47420	0.49803	48.38306	0.49772
#2	0.19073	49.69621	0.47952	0.98807	0.94874	0.47629	0.48432	48.50133	0.49745
Mean	0.19020	49.51811	0.47475	0.99043	0.94531	0.47524	0.49117	48.44219	0.49758
%RSD	0.39551	0.50865	1.41893	0.33704	0.51261	0.31107	1.97297	0.17264	0.03921
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47618	0.94242	0.96318	19.35592	48.98815	0.49885	49.42423	0.96042	0.94258

#2	0.47813	0.94563	0.97069	19.44362	49.29161	0.50280	49.60163	0.96452	0.94366
Mean	0.47715	0.94403	0.96694	19.39977	49.13988	0.50082	49.51293	0.96247	0.94312
%RSD	0.28909	0.24074	0.54902	0.31969	0.43667	0.55685	0.25335	0.30113	0.08095
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.88233	0.99898	4.95288	0.96673	0.91418	5.03082	0.48602	0.98352	0.92964
#2	51.15144	0.99621	5.06074	0.96384	0.93736	5.03082	0.48484	0.99065	0.95299
Mean	51.01689	0.99759	5.00681	0.96528	0.92577	5.03082	0.48543	0.98709	0.94132
%RSD	0.37299	0.19640	1.52336	0.21209	1.77024	0.00000	0.17291	0.51076	1.75392
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.61572	0.99548	0.47294	0.44742	0.46789	4.72591	0.47524	0.96345	0.96177
#2	4.65822	0.98683	0.47582	0.45153	0.47680	4.75411	0.47689	0.96360	0.96627
Mean	4.63697	0.99116	0.47438	0.44947	0.47235	4.74001	0.47607	0.96353	0.96402
%RSD	0.64820	0.61669	0.42840	0.64772	1.33420	0.42075	0.24524	0.01038	0.32986
#1	Pb	Se							
	calc	calc							
#1	0.93168	0.94759							
#2	0.94617	0.96553							
Mean	0.93893	0.95656							
%RSD	1.09159	1.32673							

Method : Paragon2

File : 170717A

Printed : 7/17/2017 17:44:07

SampleId1 : CCB

SampleId2 :

Analysis commenced : 7/17/2017 16:36:34

[CB]

Dilution ratio : 1.00000 to 1.00000 Tray :

Position : STD2

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00024	0.00216	0.00166	-0.00056	-0.00054	0.00002	-0.00045	0.02690	0.00012
#2	-0.00059	-0.00593	-0.00452	-0.00133	-0.00042	-0.00003	0.00211	0.02726	0.00027
Mean	-0.00042	-0.00189	-0.00143	-0.00094	-0.00048	0.00000	0.00083	0.02708	0.00019
%RSD	59.82074	303.41096	305.18566	57.43381	17.44514	1261.36131	217.45656	0.92434	54.06956
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00047	0.00015	0.00012	0.01194	0.08959	0.00345	0.01347	-0.00018	-0.00052
#2	-0.00032	-0.00019	-0.00100	0.01102	0.08574	0.00345	0.01408	-0.00031	-0.00052
Mean	0.00007	-0.00002	-0.00044	0.01148	0.08766	0.00345	0.01377	-0.00025	-0.00052
%RSD	752.19678	1272.71283	178.54970	5.65706	3.10420	0.00000	3.14271	36.30163	0.00000
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09201	0.00068	0.07816	-0.00186	0.00138	-0.00426	-0.00345	0.00544	0.00548
#2	0.09105	0.00064	0.18232	-0.00190	0.00161	0.00074	-0.00031	0.00329	-0.00061

Mean	0.09153	0.00066	0.13024	-0.00188	0.00150	-0.00176	-0.00188	0.00437	0.00243
%RSD	0.74233	4.61878	56.55242	1.33494	11.31429	200.51925	118.45763	34.74242	176.78203
#1	0.00174	0.00083	-0.00175	-0.00050	0.00442	-0.00171	0.00003	-0.00073	0.00075
#2	0.00039	-0.00122	-0.00177	-0.00048	0.00565	-0.01990	-0.00059	-0.00012	0.00058
Mean	0.00107	-0.00020	-0.00176	-0.00049	0.00503	-0.01081	-0.00028	-0.00043	0.00066
%RSD	89.27244	739.93089	0.67302	2.45244	17.17816	118.99290	155.10956	100.25439	17.47223

	Pb	Se
	calc	calc
#1	0.00030	0.00546
#2	0.00045	0.00069
Mean	0.00037	0.00308
%RSD	28.09547	109.67183

Method : Paragon2
File : 170717A
SampleId1 : CRI
SampleId2 :
Analysis commenced : 7/17/2017 16:37:42
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:07
[CV]

Position : STD6

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.01924	0.40298	0.00943	0.40910	0.40120	0.01016	0.05195	5.12789	0.01047
	0.02022	0.40567	0.00733	0.41030	0.40509	0.01016	0.04889	5.15212	0.01056
Mean	0.01973	0.40433	0.00838	0.40970	0.40315	0.01016	0.05042	5.14000	0.01051
%RSD	3.54289	0.47079	17.70018	0.20816	0.68238	0.01103	4.29000	0.33334	0.61748

#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.10438	0.02023	0.05000	0.20766	3.94004	0.01815	5.07161	0.03155	0.01877
	0.10474	0.02096	0.05207	0.20904	3.96471	0.01827	5.09921	0.03168	0.01915
Mean	0.10456	0.02059	0.05103	0.20835	3.95238	0.01821	5.08541	0.03161	0.01896
%RSD	0.24294	2.50868	2.86655	0.46808	0.44126	0.47298	0.38380	0.28396	1.43280

#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	4.44769	0.08821	0.28656	0.00402	0.00575	0.20074	0.12627	0.01030	0.00811
	4.48401	0.08951	0.28656	0.00667	0.00306	0.20074	0.11703	0.01883	0.00463
Mean	4.46585	0.08886	0.28656	0.00534	0.00441	0.20074	0.12165	0.01457	0.00637
%RSD	0.57493	1.03195	0.00000	35.02286	43.05209	0.00000	5.37541	41.42120	38.61311

#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#2	0.09935	0.10596	0.01758	0.01845	0.02027	0.18446	0.10186	0.04108	0.05294
	0.10357	0.10760	0.01780	0.01860	0.02855	0.21059	0.10326	0.04080	0.05348
Mean	0.10146	0.10678	0.01769	0.01852	0.02441	0.19753	0.10256	0.04094	0.05321

%RSD	2.94025	1.08797	0.87069	0.58216	23.98946	9.35554	0.96629	0.48002	0.70871
	Pb	Se							
	calc	calc							
#1	0.00517	0.00884							
#2	0.00426	0.00936							
Mean	0.00472	0.00910							
%RSD	13.60757	4.06252							

Method : Paragon2 File : 170717A
SampleId1 : LCV **SampleId2** :
Analysis commenced : 7/17/2017 16:41:05
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:07
[SAMPLE]
Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00974	0.18914	0.02967	0.09870	0.09937	0.00509	0.01761	1.02232	0.00535
#2	0.00873	0.19266	0.02770	0.09738	0.09937	0.00510	0.01837	1.01416	0.00486
Mean	0.00923	0.19090	0.02869	0.09804	0.09937	0.00509	0.01799	1.01824	0.00511
%RSD	7.72710	1.30292	4.86825	0.94831	0.00000	0.06473	3.01583	0.56615	6.80671
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01889	0.00964	0.01925	0.11819	0.84894	0.01629	1.01016	0.01010	0.01938
#2	0.01907	0.00964	0.01941	0.11743	0.84075	0.01624	1.00097	0.01010	0.01854
Mean	0.01898	0.00964	0.01933	0.11781	0.84484	0.01626	1.00556	0.01010	0.01896
%RSD	0.66286	0.00562	0.58396	0.45963	0.68509	0.20174	0.64590	0.00000	3.15216
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.86192	0.02165	0.28656	0.01612	0.01942	0.21074	0.05117	0.03880	0.02867
#2	0.85824	0.02126	0.28656	0.01289	0.02255	0.20074	0.05175	0.03369	0.03002
Mean	0.86008	0.02145	0.28656	0.01451	0.02098	0.20574	0.05146	0.03624	0.02934
%RSD	0.30255	1.28228	0.00000	15.77522	10.55755	3.43695	0.80050	9.95749	3.25850
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09276	0.05297	0.01756	0.01868	0.02775	0.17660	0.01967	0.02139	0.02120
#2	0.09259	0.04558	0.01762	0.01824	0.02738	0.17773	0.01955	0.01953	0.02095
Mean	0.09268	0.04927	0.01759	0.01846	0.02757	0.17717	0.01961	0.02046	0.02108
%RSD	0.13019	10.60910	0.20208	1.68719	0.94818	0.45386	0.40453	6.42924	0.82719
	Pb	Se							
	calc	calc							
#1	0.01832	0.03204							
#2	0.01933	0.03124							
Mean	0.01883	0.03164							
%RSD	3.80097	1.78276							

ted: 7/17/2017 17:44:13 **User: STEVE WORKMAN**
Method : Paragon2 File : 170717A
SampleId1 : ICSA **SampleId2 :**
Analysis commenced : 7/17/2017 16:42:07
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:08
[ICSAB]
Position : STD3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00027	251.64858	0.00449	-0.00089	0.00095	0.00052	0.01184	252.68694	0.00058
#2	0.00036	253.57376	0.00116	-0.00198	0.00089	0.00052	0.00621	252.82979	0.00050
Mean	0.00005	252.61117	0.00283	-0.00144	0.00092	0.00052	0.00903	252.75836	0.00054
%RSD	978.22270	0.53889	83.31656	53.90278	4.59359	0.02555	44.09520	0.03996	9.94866

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00083	-0.00058	-0.00439	107.10821	0.13379	0.00462	261.29662	-0.00742	0.00140
#2	0.00057	-0.00015	-0.00359	107.45326	0.12224	0.00461	262.38944	-0.00754	0.00171
Mean	0.00070	-0.00037	-0.00399	107.28074	0.12802	0.00461	261.84303	-0.00748	0.00156
%RSD	26.85234	82.63070	14.11747	0.22743	6.37667	0.17789	0.29512	1.19950	13.95641

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09691	0.00207	0.07816	0.00796	-0.00247	0.04074	0.01171	-0.00190	-0.00581
#2	0.09643	0.00073	0.18232	0.01071	0.00011	0.03074	0.00011	0.01867	-0.00267
Mean	0.09667	0.00140	0.13024	0.00933	-0.00118	0.03574	0.00591	0.00838	-0.00424
%RSD	0.35144	67.84510	56.55242	20.83905	155.04018	19.78651	138.83585	173.51649	52.29565

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00867	0.00412	0.01358	-0.00124	-0.00666	0.03177	0.00342	0.00668	0.00243
#2	0.00682	0.00535	0.01366	-0.00146	-0.00275	0.04051	0.00306	0.00298	0.00299
Mean	0.00774	0.00473	0.01362	-0.00135	-0.00471	0.03614	0.00324	0.00483	0.00271
%RSD	16.97252	18.41076	0.43497	11.51456	58.83933	17.08915	7.92529	54.20740	14.49793

	Pb	Se
	calc	calc
#1	0.00101	-0.00451
#2	0.00364	0.00443
Mean	0.00232	-0.00004
%RSD	80.23850	17759.69333

Method : Paragon2 File : 170717A
SampleId1 : ICSAB **SampleId2 :**
Analysis commenced : 7/17/2017 16:43:15
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:08
[ICSAB]
Position : STD4

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.19376	248.15468	0.09103	0.99817	0.49671	0.47492	0.49742	245.47729	1.03264
	#2	0.19494	0.09881	1.00399	0.49671	0.47579	0.50506	246.34474	1.03314
	Mean	0.19435	0.09492	1.00108	0.49671	0.47535	0.50124	245.91102	1.03289
%RSD									
0.42822 0.29735 5.79500 0.41102 0.00000 1.07855 0.12932									
#1	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.47961	0.47013	0.52023	104.83363	0.12176	1.07376	255.18792	0.47061	0.94976
	#2	0.47836	0.47055	105.17023	0.12465	1.07431	256.15838	0.47201	0.95901
	Mean	0.47898	0.47034	105.00193	0.12321	1.07404	255.67315	0.47131	0.95438
%RSD									
0.18433 0.06315 0.04495 0.22667 1.65639 0.03628 0.26840									
#1	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.08471	0.98880	0.91369	0.05245	0.04460	1.06074	0.59665	0.06263	0.04600
	#2	0.08432	0.99197	0.05520	0.04943	1.08574	0.59398	0.05826	0.04363
	Mean	0.08452	0.99038	0.05382	0.04702	1.07324	0.59532	0.06045	0.04481
%RSD									
0.32155 0.22565 7.67087 3.60209 7.26634 1.64714 0.31782									
#1	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.92745	1.01884	0.97235	0.87941	0.08390	9.66510	0.48395	0.94392	0.48718
	#2	0.93627	0.97185	0.88311	0.07857	9.68503	0.48442	0.94394	0.48769
	Mean	0.93186	0.97210	0.88126	0.08124	9.67506	0.48418	0.94393	0.48743
%RSD									
0.66899 0.11383 0.03600 0.29636 4.64135 0.14569 0.06937									

Method : Paragon2
File : 170717A
SampleId1 : CCV
SampleId2 :
Analysis commenced : 7/17/2017 16:44:23
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:08
[CV]
Position : STD1

Final concentrations

#1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.19092	49.73589	0.48360	0.99323	0.94591	0.48012	0.49194	49.18422	0.50458
	#2	0.19165	49.92243	0.99949	0.94537	0.47960	0.49754	49.14514	0.50486
	Mean	0.19128	49.82916	0.99636	0.94564	0.47986	0.49474	49.16468	0.50472
%RSD									
0.27002 0.26472 0.94703 0.44413 0.04046 0.07648 0.80128 0.05621									
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	ppm	0.48451	ppm	0.95563	ppm	19.62755	ppm	49.40032	ppm	0.50252	ppm	50.01207	ppm	0.97272	ppm	0.95114
#2		0.48238		0.95589		19.61385		49.48800		0.50300		50.10703		0.97169		0.94945
Mean		0.48344		0.95576		19.62070		49.44416		0.50276		50.05955		0.97221		0.95030
%RSD		0.31185		0.01957		0.04935		0.12539		0.06689		0.13414		0.07454		0.12624

	Na	ppm	Ni	ppm	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	51.71777		1.00617		4.95288	0.97743	0.93372	5.07083	0.48682	0.97429	0.93367
#2	51.83705		1.00023		4.95288	0.97422	0.94801	5.06082	0.48267	0.98553	0.95467
Mean	51.77741		1.00320		4.95288	0.97583	0.94086	5.06583	0.48475	0.97991	0.94417
%RSD	0.16289		0.41808		0.00000	0.23264	1.07403	0.13959	0.60554	0.81093	1.57290

	Si	ppm	Sn	ppm	Sr	Ti	Tl	U	V	Zn	Zr
#1	4.65778		1.00041		0.47563	0.44867	0.48312	4.72902	0.47947	0.98211	0.97047
#2	4.67681		1.00535		0.47465	0.45065	0.47734	4.74601	0.47919	0.98150	0.96835
Mean	4.66729		1.00288		0.47514	0.44966	0.48023	4.73752	0.47933	0.98180	0.96941
%RSD	0.28831		0.34793		0.14593	0.31174	0.85194	0.25361	0.04177	0.04405	0.15419

	Pb	calc	Se	calc
#1	0.94827		0.94720	
#2	0.95674		0.96495	
Mean	0.95250		0.95607	
%RSD	0.62825		1.31284	

Method : Paragon2
SampleId1 : CCB
SampleId2 :
Analysis commenced : 7/17/2017 16:45:31
Dilution ratio : 1.00000 to 1.00000 Tray :
File : 170717A

Printed : 7/17/2017 17:44:08
[CB]
Position : STD2

Final concentrations

	Ag	ppm	Al	ppm	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00051		0.01793		-0.00143	-0.00034	-0.00036	0.00013	0.00083	0.03965	0.00037
#2	-0.00032		0.00944		-0.00118	-0.00144	-0.00036	0.00009	-0.00378	0.03646	0.00001
Mean	-0.00041		0.01369		-0.00131	-0.00089	-0.00036	0.00011	-0.00148	0.03806	0.00019
%RSD	32.08336		43.87470		13.36047	87.10169	0.00000	21.21128	220.94058	5.92011	130.92921

	Co	ppm	Cr	ppm	Cu	Fe	K	Li	Mg	Mn	Mo
#1	-0.00032		-0.00008		-0.00100	0.01622	0.19247	0.00347	0.02326	-0.00006	-0.00013
#2	-0.00059		0.00004		-0.00100	0.01546	0.18526	0.00346	0.02142	-0.00018	0.00040
Mean	-0.00046		-0.00002		-0.00100	0.01584	0.18887	0.00347	0.02234	-0.00012	0.00014
%RSD	41.08327		528.13413		0.20955	3.41615	2.70158	0.35503	5.81186	74.60008	280.24543

	Na	ppm	Ni	ppm	P	Pb I	Pb II	S	Sb	Se I	Se II
#1											
#2											
Mean											
%RSD											

#1	0.09662	-0.00053	0.07816	-0.00482	0.00209	-0.00426	-0.00148	-0.00209	0.00065
#2	0.09345	0.00008	0.07816	-0.00177	0.00134	-0.00426	-0.00069	0.00230	-0.00090
Mean	0.09504	-0.00022	0.07816	-0.00329	0.00172	-0.00426	-0.00109	0.00011	-0.00013
%RSD	2.35936	190.71886	0.00000	65.40117	30.84231	0.00000	51.46051	2882.38224	873.64384

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00174	-0.00410	-0.00170	-0.00024	0.00639	-0.01195	-0.00014	0.00081	0.00068
#2	0.00006	-0.00040	-0.00172	-0.00043	0.00787	-0.01763	-0.00042	-0.00073	0.00048
Mean	0.00090	-0.00225	-0.00171	-0.00034	0.00713	-0.01479	-0.00028	0.00004	0.00058
%RSD	132.18218	116.17434	0.69281	39.21885	14.64792	27.16902	70.69655	2840.98765	24.92250

	Pb	Se
	calc	calc
#1	-0.00021	-0.00026
#2	0.00031	0.00017
Mean	0.00005	-0.00005
%RSD	736.96475	641.38738

Method : Paragon2
File : 170717A
SampleId1 : CCV
SampleId2 :
Analysis commenced : 7/17/2017 17:27:26
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:08
[CV]

Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.18925	49.31383	0.47432	0.97149	0.93684	0.47550	0.47462	48.25017	0.48785
#2	0.18875	49.62087	0.46838	0.97314	0.94453	0.47736	0.48178	48.26068	0.48700
Mean	0.18900	49.46735	0.47135	0.97231	0.94069	0.47643	0.47820	48.25542	0.48742
%RSD	0.18857	0.43891	0.89089	0.11976	0.57837	0.27505	1.05897	0.01540	0.12293

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47517	0.94548	0.95168	19.41832	48.46159	0.49313	49.50668	0.96491	0.93757
#2	0.47615	0.94675	0.96046	19.48262	48.73562	0.49671	49.67659	0.96900	0.93742
Mean	0.47566	0.94612	0.95607	19.45047	48.59861	0.49492	49.59164	0.96696	0.93750
%RSD	0.14558	0.09463	0.64905	0.23376	0.39871	0.51211	0.24226	0.29975	0.01163

	Na	Ni	P	Pb	I	Pb	II	S	Sb	Se	II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.90594	0.96374	5.27672	0.96360	0.92707	5.10583	0.46765	0.97099	0.92965		
#2	51.11186	0.96798	5.16869	0.96600	0.94197	5.13583	0.47493	0.96323	0.96399		
Mean	51.00890	0.96586	5.22270	0.96480	0.93452	5.12083	0.47129	0.96711	0.94682		
%RSD	0.28544	0.31060	1.46257	0.17580	1.12799	0.41427	1.09185	0.56742	2.56419		

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.64132	0.98024	0.46729	0.45840	0.46776	4.68736	0.47548	0.97605	0.95813

#2	4.65489	0.99341	0.46968	0.46143	0.47299	4.73936	0.47612	0.97330	0.96042
Mean	4.64811	0.98683	0.46849	0.45991	0.47037	4.71336	0.47580	0.97468	0.95928
%RSD	0.20650	0.94307	0.35975	0.46630	0.78520	0.78007	0.09421	0.19941	0.16885

	Pb	Se
	calc	calc
#1	0.93923	0.94342
#2	0.94997	0.96373
Mean	0.94460	0.95358
%RSD	0.80413	1.50657

Method : Paragon2
File : 170717A
SampleId1 : CCB
SampleId2 :
Analysis commenced : 7/17/2017 17:28:34
Dilution ratio : 1.00000 to 1.00000 Tray :
Printed : 7/17/2017 17:44:09
[CB]

Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00004	-0.03558	-0.00192	-0.00374	-0.00066	-0.00029	-0.00378	0.00814	0.00032
#2	-0.00088	-0.03542	-0.00094	-0.00308	-0.00090	-0.00031	-0.00173	0.00708	0.00021
Mean	-0.00042	-0.03550	-0.00143	-0.00341	-0.00078	-0.00030	-0.00275	0.00761	0.00027
%RSD	154.02351	0.32102	48.82889	13.63391	21.58008	4.42971	52.65395	9.86665	28.54629

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00012	0.00039	-0.00020	0.00551	0.18189	0.00328	0.00490	-0.00044	-0.00036
#2	-0.00041	-0.00044	-0.00053	0.00444	0.18189	0.00329	-0.00061	-0.00056	0.00163
Mean	-0.00015	-0.00002	-0.00036	0.00497	0.18189	0.00329	0.00214	-0.00050	0.00064
%RSD	255.98388	2490.84556	62.96408	15.23023	0.00000	0.24942	181.82740	17.91109	222.40815

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06434	0.00064	0.07816	0.00210	0.00062	-0.01426	-0.00109	0.00770	-0.00071
#2	0.06396	0.00029	0.07816	-0.00392	0.00045	-0.00926	-0.00678	0.00998	0.00007
Mean	0.06415	0.00047	0.07816	-0.00091	0.00054	-0.01176	-0.00393	0.00884	-0.00032
%RSD	0.42356	52.33286	0.00000	468.89531	22.13557	30.05591	102.12019	18.20395	170.77853

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00208	0.00247	-0.00184	-0.00050	-0.00002	-0.00739	-0.00042	0.00021	0.00083
#2	0.00074	0.00124	-0.00190	-0.00053	0.00467	-0.00057	-0.00042	0.00048	0.00054
Mean	0.00141	0.00186	-0.00187	-0.00051	0.00232	-0.00398	-0.00042	0.00035	0.00069
%RSD	67.47011	46.90712	2.53524	4.66233	142.91224	121.18689	0.23846	55.53520	29.68088

	Pb	Se
	calc	calc
#1	0.00112	0.00209
#2	-0.00100	0.00337

Mean 0.00006 0.00273ser: STEVE WORKMAN
%RSD 2629.91257 32.96827

Method : Paragon2 File : 170717A
SampleId1 : 1706655-2 SampleId2 :
Analysis commenced : 7/17/2017 17:29:41
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:09
[SAMPLE]

Position : TUBE1

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	-0.00123	-0.03303	-0.00550	0.00043	0.01831	-0.00024	-0.00045	24.86933	0.00030
#2	-0.00031	-0.03461	0.00030	0.00152	0.01831	-0.00029	0.00211	24.76855	0.00003
Mean	-0.00077	-0.03382	-0.00260	0.00097	0.01831	-0.00026	0.00083	24.81894	0.00016
%RSD	83.95352	3.29723	157.61936	79.61279	0.00000	12.27237	218.00338	0.28713	116.95526
	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	-0.00012	0.00020	-0.00068	0.00214	1.03963	0.00375	4.35222	-0.00056	-0.00029
#2	0.00006	0.00036	0.00061	0.00260	1.02567	0.00371	4.34793	-0.00044	0.00017
Mean	-0.00003	0.00028	-0.00004	0.00237	1.03265	0.00373	4.35007	-0.00050	-0.00006
%RSD	389.17464	40.80475	2503.01257	13.68604	0.95638	0.65982	0.06977	17.91109	578.18871
	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	2.63300	0.00034	0.07816	-0.00346	0.00036	3.54078	-0.00286	0.00358	-0.00138
#2	2.63773	0.00034	0.07816	-0.00327	-0.00022	3.52078	-0.00168	0.00471	-0.00215
Mean	2.63536	0.00034	0.07816	-0.00336	0.00007	3.53078	-0.00227	0.00415	-0.00177
%RSD	0.12694	0.00000	0.00000	3.94203	595.06325	0.40055	36.86298	19.23158	30.88359
	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	5.51417	-0.00287	0.10313	0.00008	0.00848	-0.01421	0.00182	0.00020	-0.00089
#2	5.52236	-0.00328	0.10301	-0.00034	-0.00225	-0.02103	0.00232	0.00083	-0.00040
Mean	5.51827	-0.00307	0.10307	-0.00013	0.00312	-0.01762	0.00207	0.00052	-0.00065
%RSD	0.10488	9.44341	0.08061	225.68927	243.72236	27.37556	17.23596	85.85304	53.73354

	Pb calc	Se calc
#1	-0.00091	0.00027
#2	-0.00124	0.00013
Mean	-0.00107	0.00020
%RSD	21.61846	49.10613

Method : Paragon2 File : 170717A
SampleId1 : CRI SampleId2 :
Analysis commenced : 7/17/2017 17:30:47
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:09
[CV]

Position : STD6

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.01959	0.38949	0.01239	0.40340	0.40426	0.01001	0.05221	5.12646	0.01067
#2	0.01906	0.39288	0.00363	0.40055	0.40509	0.01000	0.04120	5.12112	0.01114
Mean	0.01933	0.39118	0.00801	0.40197	0.40468	0.01000	0.04671	5.12379	0.01091
%RSD	1.91909	0.61182	77.34010	0.50147	0.14642	0.02171	16.66799	0.07376	3.05512
	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.10500	0.02179	0.05111	0.21915	4.02941	0.01811	5.11884	0.03219	0.01930
#2	0.10412	0.02067	0.05113	0.21762	4.03134	0.01809	5.10044	0.03193	0.01861
Mean	0.10456	0.02123	0.05112	0.21839	4.03037	0.01810	5.10964	0.03206	0.01896
%RSD	0.59794	3.72709	0.02457	0.49621	0.03394	0.06798	0.25466	0.56006	2.57904
	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	4.47397	0.08765	0.28656	0.00541	0.00648	0.20074	0.11899	0.01060	0.00898
#2	4.47267	0.08648	0.28656	-0.00305	0.00766	0.19074	0.11486	0.01440	0.01158
Mean	4.47332	0.08707	0.28656	0.00118	0.00707	0.19574	0.11692	0.01250	0.01028
%RSD	0.02061	0.94788	0.00000	506.48493	11.79671	3.61254	2.49932	21.46480	17.93857
	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.10695	0.10801	0.01765	0.01882	0.02214	0.20377	0.10276	0.05014	0.05325
#2	0.10189	0.10103	0.01763	0.01885	0.02286	0.16968	0.10136	0.04761	0.05274
Mean	0.10442	0.10452	0.01764	0.01884	0.02250	0.18672	0.10206	0.04887	0.05299
%RSD	3.42955	4.72436	0.06717	0.12722	2.26244	12.90929	0.97144	3.66019	0.68399
	Pb	Se							
#1	calc	calc							
#2	0.00612	0.00952							
Mean	0.00511	0.01102							
%RSD	28.11406	19.27071							

Method : Paragon2 File : 170717A
SampleId1 : LCV SampleId2 :
Analysis commenced : 7/17/2017 17:33:49
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:09
[SAMPLE]
Position : STD7

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	0.00954	0.17689	0.02856	0.09552	0.09907	0.00495	0.02068	1.05138	0.00518
#2	0.00973	0.17675	0.02745	0.09519	0.09913	0.00492	0.01761	1.05422	0.00524
Mean	0.00964	0.17682	0.02801	0.09535	0.09910	0.00494	0.01915	1.05280	0.00521
%RSD	1.38152	0.05624	2.80476	0.24375	0.04260	0.35910	11.34286	0.19047	0.80079

ted: 7/17/2017 17:44:13 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.01916	0.01038	0.01988	0.11631	0.89179	0.01620	1.02608	0.01086	0.02084
#2	0.01969	0.01027	0.02116	0.11692	0.88842	0.01623	1.02730	0.01073	0.01869
Mean	0.01942	0.01032	0.02052	0.11662	0.89010	0.01621	1.02669	0.01080	0.01976
%RSD	1.93608	0.78301	4.42577	0.37149	0.26777	0.12647	0.08435	0.83142	7.69623

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
#1	0.87122	0.02100	0.28656	0.02037	0.01854	0.21074	0.04941	0.02633	0.02335
#2	0.87636	0.02165	0.28656	0.01374	0.02368	0.20074	0.04447	0.03838	0.02673
Mean	0.87379	0.02132	0.28656	0.01706	0.02111	0.20574	0.04694	0.03235	0.02504
%RSD	0.41542	2.15013	0.00000	27.49126	17.22049	3.43695	7.43695	26.33137	9.54546

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
#1	0.09766	0.04804	0.01751	0.01924	0.02998	0.18910	0.01995	0.02297	0.02126
#2	0.09698	0.04558	0.01743	0.01892	0.03109	0.18342	0.02023	0.02452	0.02104
Mean	0.09732	0.04681	0.01747	0.01908	0.03053	0.18626	0.02009	0.02374	0.02115
%RSD	0.49632	3.72228	0.33906	1.19299	2.56416	2.15724	0.98564	4.60141	0.75539

	Pb	Se
	calc	calc
#1	0.01915	0.02434
#2	0.02037	0.03061
Mean	0.01976	0.02748
%RSD	4.36695	16.12701

Method : Paragon2 File : 170717A
SampleId1 : ICSA SampleId2 :
Analysis commenced : 7/17/2017 17:34:52
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:10

[ICSAB]

Position : STD3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
#1	-0.00091	254.66332	0.00153	-0.00505	0.00077	0.00027	0.00441	253.21930	0.00045
#2	0.00111	253.16322	-0.00229	-0.00231	0.00089	0.00028	0.01081	253.52517	0.00048
Mean	0.00010	253.91327	-0.00038	-0.00368	0.00083	0.00027	0.00761	253.37224	0.00046
%RSD	1374.48134	0.41775	710.55742	52.58349	10.17908	2.77822	59.43716	0.08536	4.40228

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
#1	0.00065	-0.00018	-0.00326	108.57920	0.13379	0.00451	264.76775	-0.00691	0.00156
#2	0.00118	-0.00041	-0.00294	108.66648	0.14629	0.00455	264.69875	-0.00716	-0.00098
Mean	0.00092	-0.00029	-0.00310	108.62284	0.14004	0.00453	264.73325	-0.00704	0.00029
%RSD	40.75087	55.78746	7.37975	0.05682	6.31495	0.54323	0.01843	2.55044	619.56787

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08798	0.00077	0.07816	0.00314	-0.00026	0.03574	0.00660	0.01780	-0.00475
#2	0.08817	0.00021	0.07816	0.01159	-0.00032	0.02074	0.00382	0.01042	-0.00666
Mean	0.08807	0.00049	0.07816	0.00736	-0.00029	0.02824	0.00521	0.01411	-0.00570
%RSD	0.15429	81.28114	0.00000	81.06717	15.55139	37.56303	37.66844	36.98711	23.79333

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00953	-0.00040	0.01348	-0.00187	-0.00680	0.02116	0.00283	0.00639	0.00260
#2	0.00951	-0.00081	0.01348	-0.00136	-0.00480	0.01539	0.00352	0.00421	0.00292
Mean	0.00952	-0.00061	0.01348	-0.00162	-0.00580	0.01827	0.00318	0.00530	0.00276
%RSD	0.10882	48.02033	0.00000	22.25175	24.29350	22.33819	15.42759	29.10904	8.42679

	Pb	Se
	calc	calc
#1	0.00087	0.00276
#2	0.00364	-0.00098
Mean	0.00226	0.00089
%RSD	86.70416	296.10073

Method : Paragon2
SampleId1 : ICSAB
Analysis commenced : 7/17/2017 17:36:00
Dilution ratio : 1.00000 to 1.00000 Tray :

File : 170717A
SampleId2 :
[ICSAB]

Printed : 7/17/2017 17:44:10

Position : STD4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19479	248.01503	0.09943	0.98280	0.49353	0.48208	0.49646	247.44202	1.01586
#2	0.19536	250.04219	0.10042	0.98434	0.49838	0.48294	0.49167	247.27848	1.01924
Mean	0.19507	249.02861	0.09992	0.98357	0.49596	0.48251	0.49407	247.36025	1.01755
%RSD	0.20600	0.57560	0.69906	0.11050	0.69174	0.12541	0.68497	0.04675	0.23498

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48246	0.47617	0.51191	106.49021	0.16409	1.05583	258.04357	0.47851	0.95747
#2	0.48325	0.47631	0.51619	106.73324	0.14774	1.06565	258.88873	0.47966	0.96009
Mean	0.48286	0.47624	0.51405	106.61172	0.15591	1.06074	258.46615	0.47909	0.95878
%RSD	0.11583	0.02083	0.58863	0.16119	7.41742	0.65458	0.23122	0.16937	0.19339

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07779	0.97071	1.01850	0.06060	0.04244	1.12074	0.59413	0.07324	0.04110
#2	0.07731	0.97248	1.01850	0.05428	0.04883	1.08574	0.57959	0.04950	0.04866
Mean	0.07755	0.97160	1.01850	0.05744	0.04564	1.10324	0.58686	0.06137	0.04488
%RSD	0.43801	0.12918	0.00000	7.77206	9.90177	2.24329	1.75307	27.35173	11.91863

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.93998	ppm	1.01222	ppm	0.96081	ppm	0.08973	ppm	9.63972	ppm	0.48587	ppm	0.96724	ppm	0.48681
#2	0.94483		1.01633		0.96876		0.07516		9.72398		0.48655		0.96351		0.49071
Mean	0.94240		1.01427		0.96479		0.08244		9.68185		0.48621		0.96538		0.48876
%RSD	0.36391		0.28630		0.58285		12.49696		0.61536		0.09830		0.27344		0.56421

	Pb	Se
	calc	calc
#1	0.04849	0.05180
#2	0.05065	0.04894
Mean	0.04957	0.05037
%RSD	3.08162	4.01508

Method : Paragon2
File : 170717A
SampleId1 : CCV
SampleId2 :
Analysis commenced : 7/17/2017 17:37:08
Dilution ratio : 1.00000 to 1.00000 Tray :

Printed : 7/17/2017 17:44:10
[CV]
Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19247	49.77175	0.47630	0.97369	0.94417	0.48259	0.48077	49.01025	0.49599
#2	0.19145	49.69337	0.47086	0.97961	0.94477	0.48402	0.48281	49.03355	0.49267
Mean	0.19196	49.73256	0.47358	0.97665	0.94447	0.48331	0.48179	49.02190	0.49433
%RSD	0.37558	0.11143	0.81282	0.42922	0.04501	0.20916	0.30006	0.03360	0.47549

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48385	0.95979	0.95725	19.70726	48.81400	0.49721	50.28260	0.98002	0.94845
#2	0.48314	0.96010	0.95836	19.73723	48.72435	0.49637	50.34446	0.98079	0.95230
Mean	0.48350	0.95994	0.95781	19.72225	48.76918	0.49679	50.31353	0.98041	0.95037
%RSD	0.10405	0.02267	0.08228	0.10746	0.12999	0.11888	0.08694	0.05544	0.28690

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.38609	0.97750	5.16869	0.98056	0.93565	5.11083	0.47871	0.98824	0.93776
#2	51.25292	0.97660	5.06074	0.98797	0.96174	5.14083	0.47382	0.96268	0.97851
Mean	51.31950	0.97705	5.11472	0.98427	0.94869	5.12583	0.47626	0.97546	0.95814
%RSD	0.18350	0.06580	1.49234	0.53234	1.94459	0.41386	0.72586	1.85253	3.00753

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.69951	0.99505	0.47250	0.46460	0.47724	4.75157	0.48112	0.99133	0.96813
#2	4.69015	1.00204	0.47139	0.46614	0.47331	4.76286	0.48164	0.99851	0.96874
Mean	4.69483	0.99854	0.47194	0.46537	0.47528	4.75722	0.48138	0.99492	0.96843
%RSD	0.14088	0.49514	0.16717	0.23428	0.58460	0.16777	0.07523	0.51036	0.04457

Pb	Se
calc	calc

#1 0.95061 0.95457ser: STEVE WORKMAN
 #2 0.97048 0.97324
Mean 0.96054 0.96390
 %RSD 1.46270 1.36973

Method : Paragon2 File : 170717A Printed : 7/17/2017 17:44:10
sampleId1 : CCB sampleId2 :
Analysis commenced : 7/17/2017 17:38:16
 Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag ppm	Al ppm	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca ppm	Cd ppm
#1	0.00085	-0.01439	0.00153	-0.00231	-0.00036	-0.00014	0.00391	0.04142	0.00047
#2	-0.00088	-0.01824	-0.00600	-0.00188	-0.00030	-0.00021	0.00006	0.03363	0.00043
Mean	-0.00001	-0.01632	-0.00223	-0.00209	-0.00033	-0.00017	0.00199	0.03752	0.00045
%RSD	10848.40904	16.68887	238.50665	14.79441	12.61199	29.64814	136.88856	14.67615	6.94236

	Co ppm	Cr ppm	Cu ppm	Fe ppm	K ppm	Li ppm	Mg ppm	Mn ppm	Mo ppm
#1	0.00021	0.00105	-0.00005	0.00867	0.23000	0.00348	0.03366	0.00007	-0.00067
#2	-0.00015	-0.00020	-0.00052	0.00377	0.22855	0.00344	0.02448	-0.00018	0.00140
Mean	0.00003	0.00043	-0.00028	0.00622	0.22928	0.00346	0.02907	-0.00006	0.00037
%RSD	840.90649	206.18370	117.47217	55.65167	0.44511	0.82980	22.32982	315.76964	400.56467

	Na ppm	Ni ppm	P ppm	Pb I ppm	Pb II ppm	S ppm	Sb ppm	Se I ppm	Se II ppm
#1	0.08202	-0.00001	0.07816	-0.00088	0.00045	-0.02926	-0.00287	-0.00179	-0.00206
#2	0.07846	0.00034	0.07816	-0.00433	0.00269	-0.01426	-0.00088	0.00486	0.00364
Mean	0.08024	0.00016	0.07816	-0.00261	0.00157	-0.02176	-0.00187	0.00154	0.00079
%RSD	3.13270	148.49813	0.00000	93.63468	101.11036	48.73643	75.15717	305.78586	509.33047

	Si ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	U ppm	V ppm	Zn ppm	Zr ppm
#1	0.00495	0.00165	-0.00163	-0.00007	0.01195	0.00511	0.00003	-0.00038	0.00093
#2	0.00192	-0.00122	-0.00172	0.00008	-0.00151	-0.01080	-0.00104	-0.00012	0.00068
Mean	0.00343	0.00021	-0.00168	0.00000	0.00522	-0.00284	-0.00051	-0.00025	0.00081
%RSD	62.39468	950.49592	3.53327	3804.98987	182.24800	395.43653	149.15973	71.56375	21.53933

	Pb calc	Se calc
#1	0.00000	-0.00197
#2	0.00035	0.00405
Mean	0.00018	0.00104
%RSD	137.97876	409.08366

Header Information for Analytical Sequence 17F14k00

Instrument: Agilent ICPMS Model 7700X; Serial No. JP09400112

Software Revision: B.01.01

Date of Analysis: 06/14/2017

Analyst: Hannah M. Alt

Calibration Standards

High Calibration Standard: ST170502-5 (expires 04/30/2018)

This standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	10000	5000	2000	1000	500	200	100	50	30	10	2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

1/10, 1/100, and 1/1000 dilutions of the High Calibration Standard are prepared daily to provide additional calibration standards.

ICV

The ICV is prepared by diluting 1ml of the 2nd Source intermediate (ST160606-18, expires 05/31/2017) to 5ml giving the following concentrations (ng/ml).

20000	10000	2000	1000	400	200	100	40	20	10	6	2	0.4
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

LIV/LCV

The LIV/LCV is prepared by diluting 0.05ml of the Reporting Limit Verification Spike Solution (ST170502-8 expires 04/30/2018) to 50ml giving the following concentrations (ng/ml).

100	20	15	10	2	1	0.5	0.2	0.1	0.05	0.02	0.01
Na	Ti	B	Al	Cu	Cr	Ba	As	Sb	Ag	Th	Tl
Ca			Fe	Li	Se	Co	Cd		Be		U
K			Mg	Ni	Sn	Mn	Mo		Ce		
			Zn			Sr	Pb		La		
						V			Nd		
									Pr		
									Y		

ICSA

The ICSA is prepared by diluting 0.5ml of ICSA intermediate (ST150423-1, expires 04/03/2018) to a final volume of 50ml giving the following concentrations (ng/ml).

42.5 X 10 ⁶	30000	25000	20000	10000	200
Cl	Ca	Fe	C	Al	Mo
		Na		K	Ti
				Mg	
				P	
				S	

ICSAB

The ICSAB is prepared by diluting 0.5ml of ICSA intermediate (ST150423-1, expires 04/03/2018) and 5ml of High Calibration Standard: ST170502-5 (expires 04/30/2018) to a final volume of 50ml. The ICSAB contains the following elements at the listed concentrations (ng/ml).

42.5X10 ⁶	35000	25500	20000	15000	11000	10500	10000	400	210
Cl	Ca	Fe	C	K	Mg	Al	P	Ti	Mo
	Na						S		

200	100	50	20	10	5	3	1	0.2
Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Cu	Ni		Co	Be	Cd	U	
	Li	Sn		As		Y	Ag	
				Se		La		
				Ba		Ce		
				Sr		Pr		
						Nd		

CCV

The CCV is prepared by diluting 5ml of the High Calibration Standard: ST170502-5 (expires 04/30/2018) to a final volume of 50ml. The CCV contains the following elements at the listed concentrations (ng/ml).

10000	5000	1000	500	200	100	50	20	10	5	3	1	0.2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

Linear Dynamic Range Standards

LDR-Ca,Na,K

The LDR-Ca,Na,K standard is prepared by diluting 1ml of the High Calibration Standard Intermediate Mix (ST170502-5, expires 04/30/2018) to a final volume of 10ml. The LDR-Ca,Na,K standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Al	Ti	Cu	Ni		Co	Be	Cd	U	
			Li	Sn		As		Y	Ag	
						Se		La		
						Mo		Ce		
						Ba		Pr		
						Sr		Nd		

1000 Na

The 1000 Na standard is prepared by diluting 1ml of the 10000mg/L Na stock solution (ST140409-4, expires 12/31/2020) to a final volume of 10ml. The 1000 Na standard contains Na at 1000000 ng/ml.

500 Ca

The 500 Ca standard is prepared by diluting 0.5ml of the 10000mg/L Ca stock solution (ST140409-5, expires 04/30/2021) to a final volume of 10ml. The 500 Ca standard contains Ca at 500000 ng/ml.

500 K

The 500 K standard is prepared by diluting 0.5ml of the 10000mg/L K stock solution (ST140409-6, expires 01/31/2021) to a final volume of 10ml. The 500 K standard contains K at 500000 ng/ml.

Linear Dynamic Range

The instrument Linear Dynamic Range (LDR) is determined at least every 6 months. The current LDR was determined on 05/01/2016. The instrument LDR is given below (ng/ml).

1000000	500000	100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

ICB/CCB and all diluent

1% HNO₃, 1% HCl in double deionized water

HNO₃ Lot No. 137345

HCl Lot No. 132880

Internal Standards

The internal standard intermediate contains 4 PPM each of Ga, Ge, Pt, In, Rh, Bi and Sc. This intermediate is added to all standards and samples in the same proportion by a peristaltic pump.

Pipet ID Numbers

1.0 to 5.0 ml -- M-87
0.1 to 1.0ml -- M-60
0.01 to 0.1ml -- M-56

Dilutions

2X dilutions made by diluting 5ml of sample to 10ml final volume
5X dilutions made by diluting 1ml of sample to 5ml final volume
10X dilutions made by diluting 1ml of sample to 10ml final volume
50X dilutions made by diluting 0.1ml of sample to 5ml final volume
100X dilutions made by diluting 0.1ml of sample to 10ml final volume
200X dilutions made by diluting 0.05ml of sample to 10ml final volume
500X dilutions made by diluting 0.02ml of sample to 10ml final volume

Analytical Spikes

1705538-10A and 1705541-6A, were post spiked by diluting ST170502-4 and ST170601-4 500 fold then ten fold dilution of the sample digestates.

Daily Maintenance Items

1. Check / change pump tubing
2. Check / clean drain containers
3. Tune instrument per manufacturer's procedures
4. Perform resolution / mass calibration / stability test and print QC tune report

Monthly Maintenance Items

1. Check / clean torch and cones
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoir
4. Check / fill vacuum pump oil

Additional Comments

No additional comments.

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 14 Jun 2017 09:47:27 am
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\2008TUNE.m

Minimum Response(CPS)

Element	Actual	Required	Flag
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RSD (%)

Element	Actual	Required	Flag
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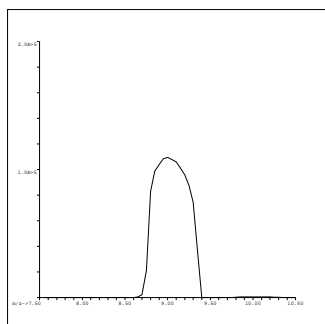
9 Be	0.93	5.00	
24 Mg	0.52	5.00	
25 Mg	1.30	5.00	
26 Mg	0.63	5.00	
59 Co	0.73	5.00	
115 In	0.61	5.00	
206 Pb	0.84	5.00	
207 Pb	0.96	5.00	
208 Pb	0.49	5.00	

Ion Ratio

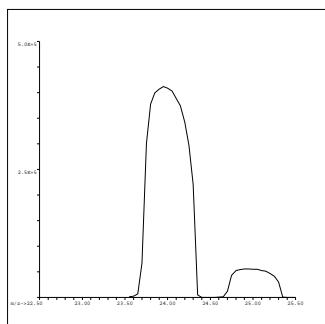
Element	Actual	Required	Flag
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Maximum Bkg. Count(CPS)

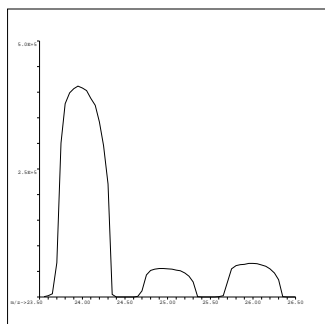
Element	Actual	Required	Flag
---------	--------	----------	------



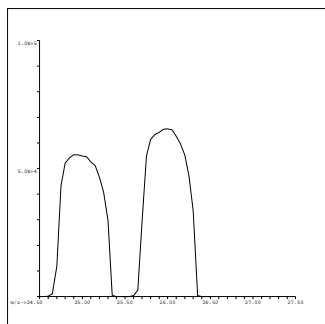
9 Be
 Mass Calib.
 Actual: 9.00
 Required: 8.90-9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



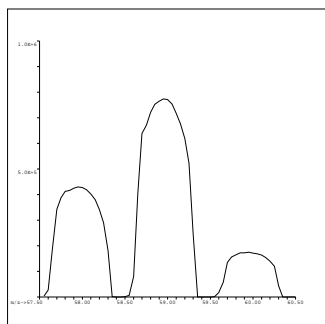
24 Mg
 Mass Calib.
 Actual: 23.95
 Required: 23.90-24.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



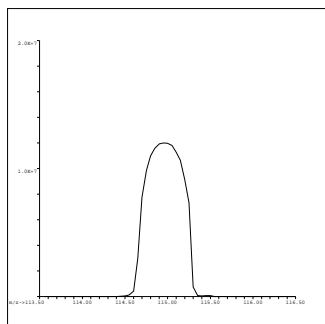
25 Mg
 Mass Calib.
 Actual: 24.95
 Required: 24.90-25.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



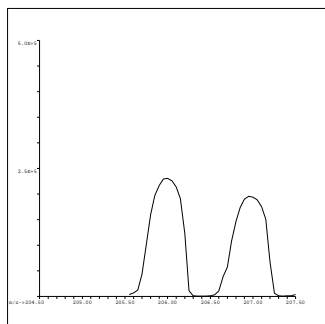
26 Mg
 Mass Calib.
 Actual: 25.95
 Required: 25.90-26.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



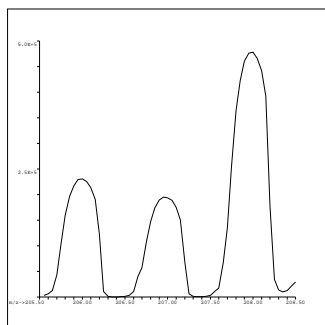
59 Co
 Mass Calib.
 Actual: 58.95
 Required: 58.90-59.10
 Flag:
 Peak Width
 Actual: 0.70
 Required: 0.80
 Flag:



115 In
 Mass Calib.
 Actual: 114.95
 Required: 114.90-115.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:

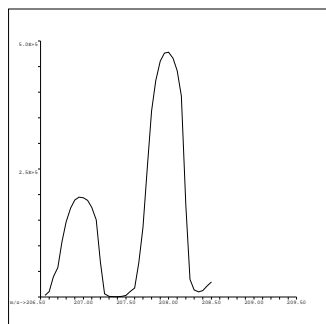


206 Pb
 Mass Calib.
 Actual: 206.00
 Required: 205.90-206.10
 Flag:
 Peak Width
 Actual: 0.50
 Required: 0.80
 Flag:



207 Pb
 Mass Calib.
 Actual: 207.00
 Required: 206.90-207.10
 Flag:
 Peak Width
 Actual: 0.55
 Required: 0.80
 Flag:

C:\ICPMH\1\7500\QCTUNE.D



208 Pb

Mass Calib.

Actual: 208.00

Required: 207.90-208.10

Flag:

Peak Width

Actual: 0.60

Required: 0.80

Flag:

QC Tune Result:Pass

Batch Summary Report

Batch Folder: C:\ICPMH\1\DATA\17F14k00.B\

Analysis File: 17F14k00.batch.xml

Tune Step: #1 nogas.u

#2 hehe.u

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		6/14/2017 10:01:35	001CALB.D	blank	CalBlk	1	1.0000
2		6/14/2017 10:07:30	002CALB.D	blank	CalBlk	1	1.0000
3		6/14/2017 10:13:26	003CALB.D	blank	CalBlk	1	1.0000
4		6/14/2017 10:19:21	004CALB.D	blank	CalBlk	1	1.0000
5		6/14/2017 10:25:18	005CALS.D	H/1000	CalStd	2	1.0000
6		6/14/2017 10:28:17	006CALS.D	H/100	CalStd	3	1.0000
7		6/14/2017 10:31:17	007CALS.D	H/10	CalStd	4	1.0000
8		6/14/2017 10:37:10	008CALS.D	HIGH	CalStd	5	1.0000
9		6/14/2017 10:51:44	001SMPL_17F14k01.D	ICV	6-ICV		1.0000
10		6/14/2017 10:57:37	002SMPL_17F14k01.D	ICB	6-CCB		1.0000
11		6/14/2017 11:03:33	003SMPL_17F14k01.D	LIV	RLIV		1.0000
12		6/14/2017 11:06:33	004SMPL_17F14k01.D	ICSA	6-ICSA		1.0000
13		6/14/2017 11:12:27	005SMPL_17F14k01.D	ICSAB	6-ICSAB		1.0000
14		6/14/2017 11:18:18	006SMPL_17F14k01.D	CCV	6-CCV		1.0000
15		6/14/2017 11:24:13	007SMPL_17F14k01.D	CCB	6-CCB		1.0000
16		6/14/2017 14:51:49	014SMPL_17F14k01.D	1705538-14 100X	Sample		1.0000
17		6/14/2017 14:57:46	015SMPL_17F14k01.D	IP170612-2RBMB 10X	6-CCB		1.0000
18		6/14/2017 15:03:41	016SMPL_17F14k01.D	IP170612-2MB 10X	6-CCB		1.0000
19		6/14/2017 15:09:36	017SMPL_17F14k01.D	IM170612-2LCS 10X	6-LCS		1.0000
20		6/14/2017 15:15:29	018SMPL_17F14k01.D	IM170612-2LCSD 10X	6-LCS		1.0000
21		6/14/2017 15:21:24	019SMPL_17F14k01.D	1705316-1 10X	Sample		1.0000
22		6/14/2017 15:29:43	020SMPL_17F14k01.D	1705316-2 10X	Sample		1.0000
23		6/14/2017 15:35:36	021SMPL_17F14k01.D	1705316-3 10X	Sample		1.0000
24		6/14/2017 15:38:34	022SMPL_17F14k01.D	1705316-4 10X	Sample		1.0000
25		6/14/2017 15:44:28	023SMPL_17F14k01.D	1705316-5 10X	Sample		1.0000
26		6/14/2017 15:50:22	024SMPL_17F14k01.D	CCV	6-CCV		1.0000
27		6/14/2017 15:56:18	025SMPL_17F14k01.D	CCB	6-CCB		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		6/14/2017 15:59:19	026SMPL_17F14k01.D	1705541-6 10X	Sample		1.0000
29		6/14/2017 16:02:17	027SMPL_17F14k01.D	1705541-6L 50X	Sample		1.0000
30		6/14/2017 16:14:09	029SMPL_17F14k01.D	LCV	RLCV		1.0000
31		6/14/2017 16:17:07	030SMPL_17F14k01.D	CCV	6-CCV		1.0000
32		6/14/2017 16:23:01	031SMPL_17F14k01.D	CCB	6-CCB		1.0000
33		6/14/2017 16:25:59	032SMPL_17F14k01.D	IP170613-1MB 10X	6-CCB		1.0000
34		6/14/2017 16:28:57	033SMPL_17F14k01.D	IP170613-1LCS 10X	6-LCS		1.0000
35		6/14/2017 16:34:50	034SMPL_17F14k01.D	1705533-2 10X	Sample		1.0000
36		6/14/2017 16:37:46	035SMPL_17F14k01.D	1705533-2L 50X	Sample		1.0000
37		6/14/2017 16:40:45	036SMPL_17F14k01.D	1705533-2DUP 10X	Sample		1.0000
38		6/14/2017 16:43:41	037SMPL_17F14k01.D	1705533-2MS 10X	Sample		1.0000
39		6/14/2017 16:46:37	038SMPL_17F14k01.D	1705533-2MSD 10X	Sample		1.0000
40		6/14/2017 16:52:30	039SMPL_17F14k01.D	1705533-2A 10X	Sample		1.0000
41		6/14/2017 16:58:20	040SMPL_17F14k01.D	1705542-7 10X	Sample		1.0000
42		6/14/2017 17:04:15	041SMPL_17F14k01.D	CCV	6-CCV		1.0000
43		6/14/2017 17:10:10	042SMPL_17F14k01.D	CCB	6-CCB		1.0000
44		6/14/2017 17:24:48	043SMPL_17F14k01.D	1705542-8 10X	Sample		1.0000
45		6/14/2017 17:27:47	044SMPL_17F14k01.D	1705542-9 10X	Sample		1.0000
46		6/14/2017 17:30:46	045SMPL_17F14k01.D	1705542-10 10X	Sample		1.0000
47		6/14/2017 17:33:44	046SMPL_17F14k01.D	1705542-11 10X	Sample		1.0000
48		6/14/2017 17:36:40	047SMPL_17F14k01.D	1705542-12 10X	Sample		1.0000
49		6/14/2017 17:39:38	048SMPL_17F14k01.D	1705542-13 10X	Sample		1.0000
50		6/14/2017 17:42:38	049SMPL_17F14k01.D	1705542-14 10X	Sample		1.0000
51		6/14/2017 17:45:35	050SMPL_17F14k01.D	1705542-15 10X	Sample		1.0000
52		6/14/2017 17:48:35	051SMPL_17F14k01.D	1706115-1 10X	Sample		1.0000
53		6/14/2017 17:51:33	052SMPL_17F14k01.D	1706115-3 10X	Sample		1.0000
54		6/14/2017 17:57:26	053SMPL_17F14k01.D	CCV	6-CCV		1.0000
55		6/14/2017 18:05:56	054SMPL_17F14k01.D	CCB	6-CCB		1.0000
56		6/14/2017 18:08:56	055SMPL_17F14k01.D	1706115-4 10X	Sample		1.0000
57		6/14/2017 18:11:54	056SMPL_17F14k01.D	1706115-5 10X	Sample		1.0000
58		6/14/2017 18:14:52	057SMPL_17F14k01.D	1706115-6 10X	Sample		1.0000
59		6/14/2017 18:17:52	058SMPL_17F14k01.D	1706115-7 10X	Sample		1.0000
60		6/14/2017 18:20:52	059SMPL_17F14k01.D	1706115-8 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
61		6/14/2017 18:23:51	060SMPL_17F14k01.D	1706118-1 10X	Sample		1.0000
62		6/14/2017 18:26:50	061SMPL_17F14k01.D	1706118-2 10X	Sample		1.0000
63		6/14/2017 18:29:49	062SMPL_17F14k01.D	1706118-3 10X	Sample		1.0000
64		6/14/2017 18:41:39	064SMPL_17F14k01.D	LCV	RLCV		1.0000
65		6/14/2017 18:44:37	065SMPL_17F14k01.D	CCV	6-CCV		1.0000
66		6/14/2017 18:50:32	066SMPL_17F14k01.D	CCB	6-CCB		1.0000
67		6/14/2017 18:59:28	068SMPL_17F14k01.D	ZZZ	Sample		1.0000
68		6/14/2017 19:06:53	069SMPL_17F14k01.D	IP170613-2MB 10X	6-CCB		1.0000
69		6/14/2017 19:12:49	070SMPL_17F14k01.D	IM170613-2LCS 10X	6-LCS		1.0000
70		6/14/2017 19:15:47	071SMPL_17F14k01.D	1705603-1 10X	Sample		1.0000
71		6/14/2017 19:18:45	072SMPL_17F14k01.D	1705603-1L 50X	Sample		1.0000
72		6/14/2017 19:21:45	073SMPL_17F14k01.D	1705603-1DUP 10X	Sample		1.0000
73		6/14/2017 19:24:43	074SMPL_17F14k01.D	1705603-1MS 10X	Sample		1.0000
74		6/14/2017 19:27:40	075SMPL_17F14k01.D	1705603-1MSD 10X	Sample		1.0000
75		6/14/2017 19:33:35	076SMPL_17F14k01.D	1705603-2 10X	Sample		1.0000
76		6/14/2017 19:36:33	077SMPL_17F14k01.D	1705603-3 10X	Sample		1.0000
77		6/14/2017 19:39:32	078SMPL_17F14k01.D	1705603-4 10X	Sample		1.0000
78		6/14/2017 19:45:28	079SMPL_17F14k01.D	ICSA	6-ICSA		1.0000
79		6/14/2017 19:51:21	080SMPL_17F14k01.D	ICSAB	6-ICSAB		1.0000
80		6/14/2017 19:57:12	081SMPL_17F14k01.D	CCV	6-CCV		1.0000
81		6/14/2017 20:03:07	082SMPL_17F14k01.D	CCB	6-CCB		1.0000
82		6/14/2017 20:06:06	083SMPL_17F14k01.D	1705603-5 10X	Sample		1.0000
83		6/14/2017 20:09:04	084SMPL_17F14k01.D	1705603-6 10X	Sample		1.0000
84		6/14/2017 20:12:03	085SMPL_17F14k01.D	1705603-7 10X	Sample		1.0000
85		6/14/2017 20:15:00	086SMPL_17F14k01.D	1706221-1 10X	Sample		1.0000
86		6/14/2017 20:26:53	088SMPL_17F14k01.D	LCV	RLCV		1.0000
87		6/14/2017 20:29:51	089SMPL_17F14k01.D	CCV	6-CCV		1.0000
88		6/14/2017 20:35:45	090SMPL_17F14k01.D	CCB	6-CCB		1.0000
89		6/14/2017 20:38:44	091SMPL_17F14k01.D	FP170613-3MB 10X	6-CCB		1.0000
90		6/14/2017 20:41:44	092SMPL_17F14k01.D	IP170613-3MB 10X	6-CCB		1.0000
91		6/14/2017 20:44:43	093SMPL_17F14k01.D	IM170613-3LCS 10X	6-LCS		1.0000
92		6/14/2017 20:50:37	094SMPL_17F14k01.D	1706070-1 10X	Sample		1.0000
93		6/14/2017 20:53:37	095SMPL_17F14k01.D	1706070-2 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
94		6/14/2017 20:56:38	096SMPL_17F14k01.D	1706087-1 10X	Sample		1.0000
95		6/14/2017 20:59:38	097SMPL_17F14k01.D	1706089-1 10X	Sample		1.0000
96		6/14/2017 21:02:38	098SMPL_17F14k01.D	1706089-1L 50X	Sample		1.0000
97		6/14/2017 21:05:38	099SMPL_17F14k01.D	1706089-1DUP 10X	Sample		1.0000
98		6/14/2017 21:08:38	100SMPL_17F14k01.D	1706089-1MS 10X	Sample		1.0000
99		6/14/2017 21:14:32	101SMPL_17F14k01.D	CCV	6-CCV		1.0000
100		6/14/2017 21:20:27	102SMPL_17F14k01.D	CCB	6-CCB		1.0000
101		6/14/2017 21:23:26	103SMPL_17F14k01.D	1706089-1MSD 10X	Sample		1.0000
102		6/14/2017 21:29:20	104SMPL_17F14k01.D	1706089- 10X	Sample		1.0000
103		6/14/2017 21:32:19	105SMPL_17F14k01.D	1706089-3 10X	Sample		1.0000
104		6/14/2017 21:35:18	106SMPL_17F14k01.D	1706089-4 10X	Sample		1.0000
105		6/14/2017 21:38:18	107SMPL_17F14k01.D	1706125-1 10X	Sample		1.0000
106		6/14/2017 21:41:18	108SMPL_17F14k01.D	1706125-2 10X	Sample		1.0000
107		6/14/2017 21:47:16	109SMPL_17F14k01.D	1706126-1 10X	Sample		1.0000
108		6/14/2017 21:50:14	110SMPL_17F14k01.D	1706126-2 10X	Sample		1.0000
109		6/14/2017 21:53:13	111SMPL_17F14k01.D	1706126-3 10X	Sample		1.0000
110		6/14/2017 21:56:12	112SMPL_17F14k01.D	1706126-4 10X	Sample		1.0000
111		6/14/2017 22:02:07	113SMPL_17F14k01.D	CCV	6-CCV		1.0000
112		6/14/2017 22:08:02	114SMPL_17F14k01.D	CCB	6-CCB		1.0000
113		6/14/2017 22:11:01	115SMPL_17F14k01.D	1706153-1 10X	Sample		1.0000
114		6/14/2017 22:14:00	116SMPL_17F14k01.D	1706153-3 10X	Sample		1.0000
115		6/14/2017 22:19:57	117SMPL_17F14k01.D	1706192-1 10X	Sample		1.0000
116		6/14/2017 22:22:56	118SMPL_17F14k01.D	1706197-1 10X	Sample		1.0000
117		6/14/2017 22:25:55	119SMPL_17F14k01.D	1706236-1 10X	Sample		1.0000
118		6/14/2017 22:28:55	120SMPL_17F14k01.D	1706236-2 10X	Sample		1.0000
119		6/14/2017 22:31:53	121SMPL_17F14k01.D	1706236-3 100X	Sample		1.0000
120		6/14/2017 22:43:43	123SMPL_17F14k01.D	LCV	RLCV		1.0000
121		6/14/2017 22:46:41	124SMPL_17F14k01.D	CCV	6-CCV		1.0000
122		6/14/2017 22:52:36	125SMPL_17F14k01.D	CCB	6-CCB		1.0000
123		6/14/2017 22:55:36	126SMPL_17F14k01.D	FP170614-3MB 10X	6-CCB		1.0000
124		6/14/2017 22:58:35	127SMPL_17F14k01.D	IP170614-3MB 10X	6-CCB		1.0000
125		6/14/2017 23:01:34	128SMPL_17F14k01.D	IM170614-3LCS 10X	6-LCS		1.0000
126		6/14/2017 23:07:28	129SMPL_17F14k01.D	1705515-1 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
127		6/14/2017 23:10:27	130SMPL_17F14k01.D	1705515-1L 50X	Sample		1.0000
128		6/14/2017 23:13:28	131SMPL_17F14k01.D	1705515-1DUP 10X	Sample		1.0000
129		6/14/2017 23:16:26	132SMPL_17F14k01.D	1705515-1MS 10X	Sample		1.0000
130		6/14/2017 23:19:23	133SMPL_17F14k01.D	1705515-1MSD 10X	Sample		1.0000
131		6/14/2017 23:25:19	134SMPL_17F14k01.D	1705515-3 10X	Sample		1.0000
132		6/14/2017 23:28:18	135SMPL_17F14k01.D	1706185-1 100X	Sample		1.0000
133		6/14/2017 23:34:10	136SMPL_17F14k01.D	CCV	6-CCV		1.0000
134		6/14/2017 23:40:04	137SMPL_17F14k01.D	CCB	6-CCB		1.0000
135		6/14/2017 23:43:04	138SMPL_17F14k01.D	1706185-3 100X	Sample		1.0000
136		6/14/2017 23:48:59	139SMPL_17F14k01.D	1706193-1 100X	Sample		1.0000
137		6/14/2017 23:54:52	140SMPL_17F14k01.D	1706193-2 100X	Sample		1.0000
138		6/15/2017 00:00:45	141SMPL_17F14k01.D	1706201-1 10X	Sample		1.0000
139		6/15/2017 00:03:44	142SMPL_17F14k01.D	1706271-1 100X	Sample		1.0000
140		6/15/2017 00:09:38	143SMPL_17F14k01.D	1706271-2 100X	Sample		1.0000
141		6/15/2017 00:15:33	144SMPL_17F14k01.D	1706286-1 100X	Sample		1.0000
142		6/15/2017 00:21:27	145SMPL_17F14k01.D	1706286-3 100X	Sample		1.0000
143		6/15/2017 00:39:11	148SMPL_17F14k01.D	LCV	RLCV		1.0000
144		6/15/2017 00:42:08	149SMPL_17F14k01.D	CCV	6-CCV		1.0000
145		6/15/2017 00:48:02	150SMPL_17F14k01.D	CCB	6-CCB		1.0000

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0084	2338.85	0.0012	32.67	0.0733	2413.54	-0.8655	16268.61	0.3571	36.67
2	blank	0.0035	2187.49	0.0006	26.00	-0.0122	1811.23	-0.2184	16555.53	-0.1065	6.67
3	blank	0.0031	2176.16	0.0009	28.67	0.0219	2014.60	-0.5318	16295.27	-0.0021	13.33
4	blank	0.0000	2081.48	0.0000	18.67	0.0000	1854.57	0.0000	16408.80	0.0000	13.33
5	H/1000	1.1274	36463.11	0.0479	531.34	1.2397	9751.82	107.4904	61484.24	9.8438	643.38
6	H/100	11.1108	340930.65	0.5073	5388.23	9.9982	64793.95	1035.2477	449270.41	99.3319	6358.22
7	H/10	104.6704	3194254.67	4.9201	51265.90	95.7038	594668.80	9859.5945	4032434.32	968.0949	60258.75
8	HIGH	999.5217	30484844.00	50.0079	510265.84	1000.4294	6073153.65	100013.6806	38575355.26	10003.1973	589233.40
9	ICV	206.5806	6302246.33	10.2394	105491.76	209.9762	1288032.94	19585.2104	7788034.47	1995.3191	120961.10
10	ICB	0.1533	6756.73	0.0002	20.00	1.5972	11680.80	2.6209	17216.22	-0.0513	10.00
11	LIV	2.2769	71520.42	0.0505	539.35	15.1363	94808.12	104.3554	58530.74	9.2729	590.03
12	ICSA	0.1361	6232.53	0.0027	45.33	1.3609	10064.22	25450.0026	9820538.39	10099.5648	594523.45
13	ICSAB	100.2905	3060676.75	5.0644	51367.51	98.3736	595005.65	35963.5576	13837702.30	11331.7957	665364.91
14	CCV	105.0867	3206948.58	5.0149	51971.37	95.7582	591891.00	9949.6708	4018235.46	978.5697	60142.56
15	CCB	0.0923	4897.40	0.0001	18.67	0.9314	7488.41	2.8550	17056.02	-0.1562	3.33
16	1705538-14 100X	0.5685	19419.20	0.1770	1846.12	0.6704	5907.77	5.7116	18210.57	101.2193	6261.47
17	IP170612-2RBM...	-0.0270	1256.72	-0.0004	14.00	0.3689	4110.56	-3.2626	14897.37	0.3158	33.33
18	IP170612-2MB ...	-0.0229	1384.07	0.0001	19.33	0.2280	3303.70	-4.9430	14063.15	1.8187	126.68
19	IM170612-2LCS...	116.9002	3567230.83	5.3337	57591.18	102.5054	659899.50	1083.8371	453546.70	1014.1070	62564.48
20	IM170612-2LCS...	112.2648	3425863.08	5.4183	56881.45	103.4375	647367.25	1050.0506	441207.77	1030.8773	63789.31
21	1705316-1 10X	0.0419	3359.03	0.0005	22.67	0.9482	7552.90	15.2478	21885.10	6.6023	416.69
22	1705316-2 10X	0.0248	2836.92	-0.0004	14.00	0.6538	5856.63	12.1833	21064.10	6.8872	443.36
23	1705316-3 10X	-0.0230	1380.74	-0.0005	12.67	0.4842	4718.48	11.7564	20570.28	6.3829	406.69
24	1705316-4 10X	-0.0254	1306.73	-0.0007	10.67	0.3302	3796.03	14.7165	22075.46	7.5867	486.70
25	1705316-5 10X	-0.0298	1173.38	-0.0010	8.00	0.3132	3643.78	23.0244	25353.41	7.1973	460.03
26	CCV	104.8222	3198883.33	5.5523	53441.14	104.7617	601177.23	10111.0779	3981071.51	989.9635	59322.23
27	CCB	0.0213	2732.24	-0.0001	16.67	0.5863	5418.71	0.0499	15874.86	0.2226	26.67
28	1705541-6 10X	2.0483	64549.15	0.1633	1677.43	1.0033	7829.69	4.0738	17833.57	494.8250	31066.47
29	1705541-6L 50X	0.4042	14408.20	0.0349	370.01	0.3737	3992.74	-2.8027	14903.89	104.4598	6518.22
30	LCV	2.2563	70892.94	0.0499	526.01	14.9956	92703.58	103.5387	57439.84	9.8329	616.71
31	CCV	108.8311	3321142.58	5.4602	54120.58	103.0319	608821.78	10123.6932	4031630.05	989.0750	59945.17

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	0.0240	2813.59	-0.0006	12.00	0.6745	5892.21	-1.5325	15284.22	0.0058	13.33
33	IP170613-1MB ...	0.0078	2320.85	-0.0010	7.33	0.4267	4278.37	-2.6395	14964.02	0.2721	30.00
34	IP170613-1LCS...	115.3961	3521357.75	5.8282	58395.15	108.3957	647411.88	1087.4460	453800.49	1042.2155	64133.83
35	1705533-2 10X	21.2724	650832.54	0.8050	8135.33	6.7019	41927.38	234.1806	106543.62	7457.2076	443719.50
36	1705533-2L 50X	4.3704	135368.69	0.1652	1690.76	1.8457	12868.34	46.4275	34156.70	1474.9636	89727.25
37	1705533-2DUP ...	21.5956	660690.75	0.7539	7653.78	5.7614	36458.11	269.4659	120566.94	8637.8655	515213.31
38	1705533-2MS 10X	132.9484	4056657.58	6.2305	63464.95	94.7912	575846.64	1314.6726	534466.91	9938.8748	599298.68
39	1705533-2MSD ...	132.9849	4057772.33	6.4150	64769.14	99.2493	597613.00	1319.8988	534663.21	9047.9941	543695.62
40	1705533-2A 10X	275.7201	8410820.17	11.1396	112175.06	213.8364	1282492.87	4287.7062	1679716.59	13169.6797	780867.77
41	1705542-7 10X	6.4699	199395.81	0.2129	2192.16	8.3377	52407.13	1101.7319	455570.36	4086.7066	249226.79
42	CCV	106.1489	3239344.92	5.4461	53083.21	104.3710	606993.76	10029.8083	4019520.77	997.7560	60854.92
43	CCB	0.1004	5144.81	-0.0006	11.33	0.9566	7616.25	-0.1456	15604.66	0.1725	23.33
44	1705542-8 10X	9.1120	279972.31	0.2977	3018.96	11.3064	69563.43	2280.4074	922787.25	4156.0155	252564.98
45	1705542-9 10X	4.8538	150109.23	0.1710	1724.10	4.0328	25669.46	511.4035	217606.64	3225.1286	194645.81
46	1705542-10 10X	9.3555	287398.13	0.3258	3265.01	6.9117	42689.18	2954.4547	1180338.45	3939.0355	237256.32
47	1705542-11 10X	12.6036	386456.83	0.3792	3740.44	9.4432	56859.09	5700.9506	2238696.89	4558.2696	271567.67
48	1705542-12 10X	4.5692	141428.89	0.1792	1800.11	2.4952	16482.60	83.4737	48344.78	2835.2146	170481.36
49	1705542-13 10X	4.3925	136041.57	0.1728	1724.77	2.3654	15617.31	76.7573	45717.14	2773.1378	166816.22
50	1705542-14 10X	4.2677	132233.97	0.1826	1854.78	2.3848	16009.92	241.7318	111916.99	3988.5355	242609.25
51	1705542-15 10X	4.1926	129944.96	0.1227	1232.06	2.7027	17624.84	602.0132	252336.49	4213.2519	253217.76
52	1706115-1 10X	11.1970	343560.57	0.4628	4632.66	4.8943	30756.79	247.7267	111121.92	5580.0471	329975.70
53	1706115-3 10X	3.6952	114776.23	0.3574	3641.08	2.1955	14991.19	41.9081	32519.49	1335.8781	81675.47
54	CCV	107.1310	3269293.58	5.3542	53600.97	100.6457	600978.50	10118.7729	4031044.84	996.4626	60416.46
55	CCB	0.0515	3653.09	-0.0009	8.67	0.4297	4405.08	-1.0604	15377.67	0.0606	16.67
56	1706115-4 10X	12.7766	391734.14	0.4845	4930.08	5.6790	36007.08	266.3133	119258.09	6154.4746	366822.73
57	1706115-5 10X	7.5800	233251.20	0.4299	4353.25	3.1944	20904.19	131.2985	67679.24	3178.5540	192599.07
58	1706115-6 10X	11.2346	344706.71	0.4276	4281.24	4.5800	28900.27	252.1381	113235.93	5498.5764	326284.35
59	1706115-7 10X	6.1343	189161.47	0.4587	4607.33	3.0794	20062.05	91.1667	51621.24	2857.7989	172684.46
60	1706115-8 10X	6.8244	210207.18	0.3813	3870.47	3.2227	21117.70	85.1872	49320.95	2996.2257	181257.99
61	1706118-1 10X	5.7532	177537.62	0.3844	3908.48	1.4338	10385.50	110.4559	59033.34	3804.3243	229012.79
62	1706118-2 10X	8.0502	247589.92	0.5159	5218.84	1.6475	11627.42	124.9927	64646.90	2946.2470	177059.02

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	4.7403	146648.53	0.3424	3453.72	1.1806	8779.03	125.7733	65578.69	3176.1248	192721.29
64	LCV	2.2766	71512.28	0.0514	542.01	14.7669	91366.61	102.5885	55680.82	8.4668	520.03
65	CCV	109.1292	3330234.42	5.1575	53064.03	97.3845	597192.96	10090.2122	3990992.65	992.0601	59721.10
66	CCB	0.0443	3432.38	-0.0003	14.67	0.7654	6506.88	-2.8199	14740.42	0.5430	46.67
67	ZZZ	-0.0203	1462.74	-0.0013	8.67	-0.0526	3414.84	-29.1122	11661.20	-0.1526	10.00
68	IP170613-2MB ...	0.0190	2662.23	-0.0003	14.67	0.2581	3315.93	-0.7792	15537.79	0.8207	63.33
69	IM170613-2LCS...	103.5067	3158764.42	5.3522	52262.17	104.0768	605934.94	1013.4288	411216.58	968.2030	57780.62
70	1705603-1 10X	11.6144	356290.88	0.0711	729.36	18.7623	114183.31	30680.7061	11852312.74	9688.9203	571010.46
71	1705603-1L 50X	2.3269	73047.32	0.0004	22.00	4.3386	27900.79	6265.9693	2492828.40	1912.8851	115512.22
72	1705603-1DUP ...	10.6609	327211.77	0.0001	18.67	15.6025	94856.53	30579.2178	11758374.41	9767.8184	573004.68
73	1705603-1MS 10X	118.3117	3610275.67	4.9312	52577.82	110.5033	702223.34	31611.7119	12141191.90	10693.4883	626619.15
74	1705603-1MSD ...	117.3506	3580965.25	5.5513	53999.41	126.2102	731527.05	31913.1224	12435856.48	10844.7913	644784.18
75	1705603-2 10X	8.6444	265714.20	0.0035	53.33	24.8842	153142.01	46942.9001	17941898.07	20672.3568	1205954.88
76	1705603-3 10X	4.4680	138343.32	-0.0001	16.67	13.2957	83685.30	26482.9525	10416425.05	13545.1549	812639.23
77	1705603-4 10X	8.9146	273954.57	-0.0009	8.67	13.4106	83952.11	24375.9148	9636764.23	8828.3957	532271.28
78	ICSA	0.0827	4603.33	0.0022	40.67	0.5162	4950.79	25887.3362	10147647.14	10249.1682	612876.50
79	ICSAB	103.2787	3151811.58	4.9313	51145.42	95.8577	592876.21	36679.9305	14263539.79	11476.4281	681072.96
80	CCV	108.7503	3318679.92	5.0227	52384.48	96.1555	598058.03	10342.9347	4170444.83	1004.0249	61620.84
81	CCB	0.0647	4055.18	-0.0007	10.67	0.8095	6851.46	7.6485	19208.59	0.4837	43.34
82	1705603-5 10X	0.9944	32406.95	0.0016	34.67	3.2909	22058.93	2210.4081	894152.20	7982.0244	484672.01
83	1705603-6 10X	0.1239	5859.05	-0.0007	10.67	6.4031	39899.09	35.0562	28939.43	11.8200	716.72
84	1705603-7 10X	2.3584	74005.43	0.0017	34.67	10.6553	65759.63	19452.9663	7628300.30	16227.0491	970080.98
85	1706221-1 10X	4.0701	126207.33	-0.0006	12.00	32.2360	200938.18	13398.6725	5331570.34	4912.5131	297760.03
86	LCV	2.2692	71286.73	0.0489	518.68	14.5763	90496.58	111.2896	60999.59	10.8912	686.71
87	CCV	104.7375	3196300.50	5.3125	51743.25	102.2413	593788.97	10379.9552	4109408.48	1017.0655	61286.11
88	CCB	0.0514	3648.42	0.0000	18.00	0.7017	6121.18	3.8852	17723.40	0.4239	40.00
89	FP170613-3MB...	0.0674	4135.88	-0.0010	7.33	0.5442	5061.94	8.2729	19068.23	0.6079	50.00
90	IP170613-3MB ...	0.0620	3971.83	0.0000	17.33	0.4763	4588.46	5.8004	18010.41	0.8286	63.33
91	IM170613-3LCS...	107.5388	3281731.17	5.1375	51953.23	101.0521	609232.37	1020.7397	429701.91	976.3205	60473.54
92	1706070-1 10X	0.5698	19458.57	-0.0009	8.67	2.0608	14471.86	1388.7798	565834.20	1064.2603	64421.83
93	1706070-2 10X	0.5235	18045.65	-0.0003	14.67	1.7554	12387.97	1526.0368	609914.29	1064.9977	63397.17

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	0.4741	16538.81	-0.0006	11.33	2.2204	14828.84	1284.6933	520879.71	1158.6194	69641.72
95	1706089-1 10X	0.9538	31171.28	-0.0001	16.00	3.8296	24314.19	2758.7682	1088145.98	2617.0904	155487.82
96	1706089-1L 50X	0.2174	8712.29	-0.0005	12.67	1.0667	8258.78	545.6845	231045.76	504.5108	30451.85
97	1706089-1DUP ...	0.9630	31450.52	-0.0009	8.67	3.8465	24829.35	2836.1269	1117600.90	2702.4609	160488.65
98	1706089-1MS 10X	105.7807	3228113.08	5.0846	50945.45	104.3169	623016.54	3852.2391	1536663.63	3694.6366	222839.42
99	CCV	105.2075	3210633.00	5.1463	51507.90	98.9357	590288.92	10300.4302	4057555.05	1002.9589	60128.46
100	CCB	0.0573	3829.79	-0.0002	15.33	0.8168	6692.52	2.5126	16732.39	0.0626	16.67
101	1706089-1MSD ...	103.2054	3149574.33	4.9778	50183.32	102.3601	615268.97	3895.8224	1528098.21	3700.9625	219551.36
102	1706089- 10X	1.0269	33400.19	-0.0007	11.33	4.1469	27397.79	2851.4170	1136007.33	2685.5581	161176.45
103	1706089-3 10X	0.7055	23598.47	-0.0006	12.00	1.6817	11983.23	1382.2148	556062.27	1333.7065	79696.84
104	1706089-4 10X	0.6934	23229.29	-0.0004	14.00	1.4843	10755.74	1405.6959	565277.71	1398.8391	83605.34
105	1706125-1 10X	0.0650	4065.19	-0.0004	13.33	0.4525	4442.87	5.8498	17756.73	2.3996	156.68
106	1706125-2 10X	1.1949	38522.99	-0.0003	14.00	4.5905	29015.98	12395.5098	4853768.78	4330.1352	258221.59
107	1706126-1 10X	0.9207	30159.48	-0.0005	12.67	1.1291	8444.42	2221.8464	884319.42	3036.5779	181460.82
108	1706126-2 10X	0.8878	29158.40	-0.0003	14.67	1.0940	8347.72	2197.3294	867546.79	3081.3765	182599.02
109	1706126-3 10X	0.8860	29103.66	-0.0009	8.67	1.0416	8016.42	1943.4874	768174.29	2962.5599	175336.90
110	1706126-4 10X	0.8655	28477.90	-0.0005	12.67	1.0452	8010.88	1881.7764	759196.87	2896.7634	174879.43
111	CCV	105.8380	3229863.50	4.9050	50579.85	94.8636	583450.13	10143.0865	4051720.67	988.0510	60068.73
112	CCB	0.0366	3196.34	-0.0013	4.67	0.5154	4811.85	1.1378	16088.39	0.1188	20.00
113	1706153-1 10X	13.8247	423697.89	0.0004	20.67	23.5121	138711.26	8652.7153	3334925.16	1750.2326	102583.92
114	1706153-3 10X	13.7743	422160.54	-0.0001	16.00	23.4894	141374.13	8651.2086	3333845.47	1702.3491	99759.57
115	1706192-1 10X	1.6817	53368.24	-0.0006	12.00	10.7634	66893.37	4514.9147	1768254.24	2657.0806	157617.94
116	1706197-1 10X	0.5198	17933.55	-0.0009	8.00	1.9484	13476.60	1239.2364	501389.71	1110.1222	66512.95
117	1706236-1 10X	30.7971	941313.00	0.0791	824.70	51.7912	316155.54	38122.1555	14560842.70	13720.2972	799639.93
118	1706236-2 10X	15.9264	487794.26	0.1146	1170.72	29.2950	177125.81	33038.0717	12717226.06	9596.9118	563602.48
119	1706236-3 100X	10.7465	329821.70	1.2588	12667.43	7.7224	47870.38	1762.1535	705941.84	5032.3970	301245.30
120	LCV	2.2039	69295.39	0.0425	448.68	14.4644	89062.39	112.3199	60922.07	11.4125	713.38
121	CCV	106.0598	3236624.83	5.1809	51283.24	99.1371	585168.08	10149.3082	4017197.02	1003.0177	60423.77
122	CCB	0.0275	2919.61	-0.0002	16.00	0.5986	5442.06	2.8203	17015.98	0.0600	16.67
123	FP170614-3MB...	0.0433	3402.37	-0.0007	10.67	0.4354	4313.94	7.5168	18417.37	0.8979	66.67
124	IP170614-3MB ...	0.0356	3167.66	-0.0006	12.00	0.2873	3457.06	5.2658	17533.17	0.7351	56.67

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	101.7465	3105081.92	5.0815	49445.18	101.8118	590687.81	1022.6767	419935.38	967.4798	58449.69
126	1705515-1 10X	21.4420	656005.93	0.0000	18.00	38.6819	240922.44	66824.6436	25406897.12	86.9819	5061.00
127	1705515-1L 50X	4.6288	143248.85	-0.0005	12.67	9.1191	57923.65	13101.4885	5207222.22	17.9676	1100.09
128	1705515-1DUP ...	22.6277	692166.69	0.0001	19.33	40.5468	253267.78	68956.6575	26481072.94	91.8480	5401.13
129	1705515-1MS 10X	122.2025	3728936.58	4.9740	50845.37	139.0028	846624.84	68930.8620	26219676.27	1091.4907	63387.76
130	1705515-1MSD ...	123.8878	3780332.25	4.8012	50351.84	137.6929	860362.36	68090.0297	25717986.29	1094.5467	63126.10
131	1705515-3 10X	3.5306	109755.99	0.0007	24.67	4.8580	31546.09	55827.4705	21537218.01	90.6293	5347.74
132	1706185-1 100X	43.1626	1318427.50	-0.0003	14.67	428.6306	2530500.11	120792.3485	45280965.99	815.2441	46679.54
133	CCV	104.9999	3204301.25	5.1967	51725.42	99.7375	592029.82	10190.3503	4005183.38	991.8487	59329.58
134	CCB	0.0524	3678.43	-0.0001	16.00	1.3928	9928.58	20.6838	24195.09	0.3837	36.67
135	1706185-3 100X	40.1470	1226460.42	-0.0004	13.33	501.4646	2926462.66	129667.5982	48147577.62	786.2292	44600.46
136	1706193-1 100X	46.3536	1415744.75	-0.0003	14.00	232.2617	1381043.04	116677.5653	43698372.69	524.8710	30024.48
137	1706193-2 100X	47.0278	1436304.83	-0.0008	9.33	240.9284	1418087.09	102161.1083	38582862.76	468.8248	27056.14
138	1706201-1 10X	30.0110	917336.54	0.3814	3899.81	12.5549	77769.11	25165.7787	9802921.10	15909.1915	945151.55
139	1706271-1 100X	165.9111	5061932.83	0.0406	397.34	658.0255	3677592.49	863512.7102	3.00371E+08	12908.8720	685887.10
140	1706271-2 100X	29.0998	889548.83	0.0041	60.00	328.6236	2006517.21	49731.4663	19254786.38	159.1491	9416.39
141	1706286-1 100X	49.2722	1504754.46	-0.0013	4.67	148.5943	890491.87	50870.5910	19621700.54	328.8997	19371.95
142	1706286-3 100X	64.2631	1961936.21	-0.0004	13.33	249.3465	1498715.95	74856.0622	28829672.07	410.4643	24148.19
143	LCV	2.2044	69310.83	0.0489	512.68	15.0553	92355.95	146.3238	73754.58	10.3397	640.04
144	CCV	103.4796	3157938.17	5.0612	50373.19	97.8711	580852.55	10286.0776	3999575.25	1010.7471	59824.18
145	CCB	0.0378	3235.67	-0.0011	6.67	1.2572	9249.28	31.8802	28278.40	-0.0464	10.00

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.1111	86.67	0.0664	10470.46	-1.8442	61.99	0.0604	33.33	0.0010	296.33
2	blank	0.1543	96.67	-4.6273	9736.60	4.0172	152.17	0.1975	53.33	-0.0016	281.00
3	blank	-0.0317	53.34	-0.4443	10320.35	0.3243	94.96	0.0228	26.67	0.0045	313.67
4	blank	0.0000	60.00	0.0000	10317.00	0.0000	88.11	0.0000	23.34	0.0000	288.00
5	H/1000	5.5238	1326.78	52.8989	18651.20	52.1458	898.44	1.7322	290.02	0.1231	992.37
6	H/100	50.5424	11634.60	532.3505	93704.22	521.9123	8207.65	20.6424	3187.12	1.0404	6155.83
7	H/10	474.6615	105950.13	5181.0618	800566.26	4849.9087	74578.94	191.1869	29143.33	9.9040	55756.74
8	HIGH	5002.5279	1056338.09	49981.5674	7227136.98	50014.7879	736224.68	2000.8752	298086.05	100.0092	556597.60
9	ICV	949.3379	206366.39	10078.5342	1507915.13	9833.8205	147399.43	392.1480	58404.66	19.5719	108279.93
10	ICB	0.0488	70.00	-1.8501	9866.69	0.2359	91.90	-0.0625	13.33	-0.0122	211.33
11	LIV	9.2309	2116.89	101.6639	25590.58	97.0800	1543.74	18.7337	2797.06	0.4960	2998.29
12	ICSA	9394.1139	1982240.96	10299.0884	1496106.13	30229.3798	443675.38	206.3750	30035.21	-0.0229	150.67
13	ICSAB	10073.6850	2120377.10	15551.7194	2247964.08	36356.1300	532354.94	402.4974	59585.68	9.7584	54802.66
14	CCV	480.0452	105783.55	5220.7665	796420.69	4904.6962	73810.40	194.9512	29240.30	10.0563	55186.96
15	CCB	0.1901	100.01	-0.4619	9926.74	-0.6500	78.56	-0.1059	6.67	-0.0162	191.00
16	1705538-14 100X	342.3706	75828.95	83.7203	22672.87	254.7664	3948.61	2.6108	416.69	3.0600	17307.36
17	IP170612-2RBM...	1.8317	473.36	-6.0476	9279.72	18.2386	362.45	-0.0390	16.67	-0.0123	210.00
18	IP170612-2MB ...	2.3592	586.71	-5.4011	9283.03	10.0941	240.73	-0.0407	16.67	-0.0331	95.67
19	IM170612-2LCS...	503.9772	111498.34	564.3058	95337.45	1107.6802	16691.72	211.0696	31280.96	10.6180	58666.75
20	IM170612-2LCS...	494.2485	109671.28	530.9206	90553.61	1013.3540	15549.52	211.4799	31110.34	10.7829	58503.78
21	1705316-1 10X	2.3637	576.71	1.5339	10150.16	22.7675	442.00	-0.0380	16.67	-0.0273	125.67
22	1705316-2 10X	2.1206	533.37	-3.3125	9609.87	24.7133	464.26	0.0073	23.33	-0.0318	102.00
23	1705316-3 10X	2.4109	590.04	3.8556	10543.73	25.7246	485.52	-0.0835	10.00	-0.0335	92.67
24	1705316-4 10X	2.6299	646.71	-4.8279	9363.04	31.9901	571.56	-0.1282	3.33	-0.0333	94.33
25	1705316-5 10X	2.4338	600.04	-4.7262	9339.64	39.1774	689.13	-0.1286	3.33	-0.0292	116.00
26	CCV	488.6788	105020.95	5273.8464	784400.88	4999.4100	74661.32	195.5851	28729.27	9.9973	55012.86
27	CCB	0.1894	100.00	-1.9375	9683.20	1.2847	104.87	-0.1054	6.67	0.0050	300.67
28	1705541-6 10X	1427.4940	321167.98	247.9619	48301.65	795.9863	12207.78	5.5327	853.40	4.8885	27171.17
29	1705541-6L 50X	293.7428	65633.06	45.5550	17042.71	155.3733	2472.45	1.3372	223.37	0.9566	5603.63
30	LCV	9.3141	2106.89	100.2815	25043.12	102.8093	1610.31	19.8708	2933.73	0.5239	3187.98
31	CCV	492.5575	107046.82	5285.5112	795074.96	4865.4012	72934.59	194.5192	28475.42	10.1741	55446.67

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	0.2946	123.34	-1.5050	9773.32	1.2084	104.96	-0.0375	16.67	0.0073	319.33
33	IP170613-1MB ...	1.5717	410.03	-4.5091	9399.72	1.9611	117.67	-0.0157	20.00	-0.0188	175.33
34	IP170613-1LCS...	509.0549	112328.56	547.2472	92510.84	1070.1907	16275.47	216.2623	31925.07	10.8029	59280.89
35	1705533-2 10X	11184.7218	2385733.87	3010.6201	448782.70	28977.3476	436316.24	192.0109	30079.55	18.1135	100464.12
36	1705533-2L 50X	2228.4143	485985.27	558.9489	93215.81	5759.5627	86579.52	34.7793	5224.51	3.5477	19780.79
37	1705533-2DUP ...	10799.0234	2309216.06	2727.4718	408506.48	24429.4996	367956.20	148.5150	23330.76	18.5068	101846.61
38	1705533-2MS 10X	11573.2236	2501646.84	3248.0895	489968.42	24566.3357	368208.02	300.2933	47757.31	28.5427	159027.60
39	1705533-2MSD ...	11517.9602	2480716.37	3241.5443	487302.32	23884.4258	357447.20	293.3080	45978.75	28.4545	157798.23
40	1705533-2A 10X	12002.2551	2551591.32	7020.9022	1030293.71	33700.8470	496214.81	535.8292	83602.50	37.6624	207178.85
41	1705542-7 10X	3527.1149	771148.48	855.2991	137758.36	26207.0384	396297.87	29.7059	4440.79	9.2266	52115.65
42	CCV	488.4100	106820.19	5259.5217	796163.48	4904.5208	73707.74	197.1167	29096.74	10.0919	55665.85
43	CCB	0.4715	160.01	-0.5560	9766.62	0.2777	91.08	-0.0597	13.33	-0.0059	245.00
44	1705542-8 10X	5077.9665	1106212.40	794.7574	128253.24	29774.5062	444554.37	26.8291	4030.68	18.1031	99267.21
45	1705542-9 10X	2549.6534	551674.67	687.1535	111465.46	27811.1816	417453.58	28.7544	4320.76	6.5598	35978.82
46	1705542-10 10X	4380.8860	945936.50	723.1175	116547.34	47154.0641	704956.03	18.1355	2750.38	13.7203	74554.92
47	1705542-11 10X	5025.2089	1073263.60	519.0257	85464.07	79055.8261	1175781.82	12.2770	1810.18	15.2518	81534.37
48	1705542-12 10X	2597.5138	559969.08	635.3488	103412.59	26517.0933	397764.55	26.8893	3977.31	6.0092	32412.90
49	1705542-13 10X	2546.6707	549186.57	623.6803	101727.37	28457.9486	422508.36	29.3145	4311.34	5.6391	30595.44
50	1705542-14 10X	2505.3277	546291.74	664.6575	108960.62	16338.9471	242340.65	46.0986	6798.50	7.0436	38499.48
51	1705542-15 10X	1839.9521	396466.56	617.5991	100734.92	30210.7925	444088.98	40.4001	5941.36	5.6726	31173.49
52	1706115-1 10X	5888.1618	1248163.94	1927.7674	289064.39	60255.2997	894545.83	62.7478	9303.04	32.5894	176927.29
53	1706115-3 10X	3102.0434	679864.39	1255.9824	198156.79	30641.2436	454690.27	61.5925	9259.68	19.0646	105704.40
54	CCV	488.2095	106138.20	5303.5334	798076.16	4865.0298	73016.59	195.9664	28572.34	10.2224	55074.23
55	CCB	0.4806	163.35	-1.0489	9783.36	2.3584	120.91	-0.0129	20.00	-0.0111	212.33
56	1706115-4 10X	6358.6031	1358575.29	2231.0419	335680.87	54433.5913	810029.19	65.3698	9816.69	31.8755	175101.52
57	1706115-5 10X	5115.3262	1111179.70	1517.6826	235277.73	20823.1345	311029.15	63.7101	9656.61	18.7631	103082.22
58	1706115-6 10X	5842.9603	1243126.44	1917.4366	288602.02	53368.9159	784680.06	70.9845	10620.59	28.4634	155868.57
59	1706115-7 10X	4278.3192	926732.75	2156.6960	329282.64	18236.6360	272067.89	68.0948	10310.35	17.7782	97659.39
60	1706115-8 10X	4358.2602	945092.93	1896.5473	291052.07	23883.6412	358462.71	63.7100	9586.71	18.2167	99081.50
61	1706118-1 10X	3133.3913	676199.94	741.3788	119171.93	5644.5292	83747.80	61.2748	9236.35	8.4202	46303.93
62	1706118-2 10X	4049.1050	872333.84	1028.7370	161313.93	25300.4279	375349.95	117.7800	17753.98	11.7758	63703.09

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	3279.4508	713318.56	853.9475	136841.35	11893.2511	177837.00	55.5238	8369.13	9.4013	51466.41
64	LCV	11.0951	2440.30	109.7159	25831.03	108.1448	1670.60	21.8513	3150.46	0.5028	2950.61
65	CCV	492.2150	106256.02	5272.4801	787780.77	4899.7209	72997.60	204.5912	29537.52	10.1243	54480.87
66	CCB	0.4018	146.68	-3.5802	9443.22	1.8853	114.43	-0.1281	3.33	-0.0131	201.33
67	ZZZ	-0.1022	100.00	-52.5913	5744.57	-4.4565	55.41	-0.1510	0.00	-0.0478	42.33
68	IP170613-2MB ...	1.2153	326.68	-0.9878	9816.68	12.0124	262.26	0.0758	33.33	-0.0169	179.00
69	IM170613-2LCS...	479.4040	102596.97	526.0510	86626.00	1000.0728	14628.24	204.6307	28742.75	10.1627	53732.76
70	1705603-1 10X	2.7007	626.71	4860.1981	711799.83	13651.3202	200671.25	0.4552	86.67	0.5095	3008.95
71	1705603-1L 50X	1.0900	293.35	937.5135	148574.89	2651.9509	39544.88	0.2620	60.00	0.1024	818.36
72	1705603-1DUP ...	1.6711	406.69	4850.1807	707107.98	13714.3785	200897.60	0.1019	36.67	0.4880	2926.27
73	1705603-1MS 10X	492.8527	103599.17	5430.4185	789681.89	14627.9713	216704.34	204.5167	29424.16	10.7582	58140.45
74	1705603-1MSD ...	494.9064	105535.31	5480.0370	808492.28	14696.2312	222764.17	205.3640	29741.05	10.7505	58858.36
75	1705603-2 10X	2.0658	486.70	891.7979	137010.33	62699.9693	918427.46	0.0090	23.33	0.6913	4034.51
76	1705603-3 10X	1.8918	463.36	3631.9371	543932.04	22153.0209	333158.77	-0.1284	3.33	0.7948	4680.35
77	1705603-4 10X	1.4778	376.69	4107.4965	616980.75	13158.3375	199978.17	0.0481	30.00	0.4147	2562.54
78	ICSA	9566.3831	2050701.38	10544.5149	1555684.04	30991.4048	459234.48	215.4924	31498.00	-0.0213	162.33
79	ICSAB	10424.6277	2217539.34	16208.2740	2367876.73	36857.9697	544295.06	412.7237	60719.65	10.0921	56765.85
80	CCV	504.1666	110955.41	5403.8139	822938.11	4986.3483	75752.64	204.2304	30529.23	10.1861	56745.06
81	CCB	0.1241	86.67	0.1859	10140.28	3.8753	144.78	-0.1288	3.33	-0.0127	208.33
82	1705603-5 10X	2.5568	613.38	573.3475	95178.77	20097.1221	298030.29	0.1438	43.33	0.1856	1298.06
83	1705603-6 10X	1.4651	366.68	3.5239	10133.49	22.1170	403.81	-0.0820	10.00	-0.0100	215.33
84	1705603-7 10X	6.7986	1513.48	975.2629	152622.75	42515.2360	628633.00	0.2368	56.67	0.5377	3222.99
85	1706221-1 10X	1.7676	440.03	1479.2867	229619.10	8799.7847	133723.01	0.0518	30.00	0.0230	408.34
86	LCV	11.7644	2667.01	107.8769	26381.96	103.2414	1644.73	20.2683	2973.72	0.5233	3147.65
87	CCV	490.6212	106020.72	5340.1338	798602.44	4961.2175	73842.41	202.3021	29624.25	10.2971	55721.93
88	CCB	0.3311	133.34	0.1704	10170.27	-1.2355	68.20	0.0757	33.34	-0.0020	261.00
89	FP170613-3MB...	1.6077	410.02	-0.6213	9813.32	6.7782	185.60	-0.1047	6.67	-0.0015	267.33
90	IP170613-3MB ...	1.3850	360.02	-2.4862	9499.87	-1.0537	70.09	-0.0599	13.33	0.0012	279.67
91	IM170613-3LCS...	480.2135	106633.77	507.2164	87025.16	1028.1444	15448.33	204.8831	29804.80	10.2696	55931.36
92	1706070-1 10X	1.6256	410.03	539.9064	89916.35	4686.1326	70110.02	0.0076	23.33	1.0087	5801.38
93	1706070-2 10X	3.0682	710.04	569.9212	92812.57	3928.5727	59031.27	0.0073	23.33	1.4189	8029.97

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	1.4562	370.02	409.1282	70008.24	3789.9493	56204.16	-0.0357	16.67	2.4844	13316.38
95	1706089-1 10X	1.8503	450.03	1026.6252	159155.15	8720.9504	128301.78	0.1016	36.67	1.3911	7707.48
96	1706089-1L 50X	0.9521	263.34	200.1624	39367.61	1717.5722	25650.03	-0.1058	6.67	0.2838	1793.77
97	1706089-1DUP ...	2.0576	493.36	1058.7811	163708.54	9241.1563	132781.30	0.0114	23.33	1.4130	7886.90
98	1706089-1MS 10X	481.5368	104176.54	1582.1515	243736.38	10076.6041	150201.57	199.7536	29113.42	11.5750	63235.75
99	CCV	488.8817	105116.18	5300.0783	788684.94	4922.4495	73065.92	201.3664	29086.88	10.2417	54847.76
100	CCB	0.5291	173.34	0.2689	9930.06	2.0989	115.05	-0.0606	13.33	0.0063	307.00
101	1706089-1MSD ...	486.1428	103451.98	1567.4296	237590.08	10025.8896	146306.17	206.6215	29774.69	11.7046	62704.81
102	1706089- 10X	1.4862	376.69	1075.0547	167931.72	9302.1321	135791.31	-0.0114	20.00	1.4740	8227.73
103	1706089-3 10X	1.7763	436.69	730.3767	116678.08	4880.1454	70998.13	-0.0581	13.33	1.8302	10163.80
104	1706089-4 10X	4.0767	930.06	720.2558	115214.13	4810.6295	70956.96	0.0550	30.00	1.9245	10664.12
105	1706125-1 10X	1.3025	336.69	1.5566	9950.07	11.8010	259.74	0.0576	30.00	0.0275	414.01
106	1706125-2 10X	6.9885	1550.14	3075.0717	459238.74	13989.5492	204033.47	0.6633	116.67	0.3539	2142.82
107	1706126-1 10X	1.4057	356.69	1023.1864	159571.87	11648.3502	167912.49	0.0564	30.00	1.5207	8372.13
108	1706126-2 10X	2.8989	670.05	1042.8463	161081.09	11356.1410	168117.35	0.0333	26.67	1.4639	8153.70
109	1706126-3 10X	1.9840	476.70	1048.1064	161668.06	10802.0106	158317.35	-0.0825	10.00	1.4310	8014.96
110	1706126-4 10X	1.6132	406.69	1028.1615	161980.20	10685.0190	159644.17	-0.0824	10.00	1.4209	7956.27
111	CCV	487.3964	106259.49	5247.4391	791900.51	4899.2306	73304.03	198.6802	29003.14	10.1719	55267.15
112	CCB	0.6101	190.01	-1.8844	9556.48	1.1833	102.44	-0.0359	16.67	0.0126	336.34
113	1706153-1 10X	7.4842	1626.84	467.5411	76678.17	8427.4522	123587.65	0.3105	66.67	0.2463	1572.75
114	1706153-3 10X	2.5434	590.04	471.3981	77226.98	8151.4007	119051.71	0.0799	33.33	0.2114	1422.73
115	1706192-1 10X	2.9513	683.38	243.7443	45055.72	4754.4205	69264.53	0.1526	43.33	0.1447	1042.04
116	1706197-1 10X	5.1709	1166.77	409.3647	69833.96	3249.7981	47949.88	-0.1043	6.67	1.1902	6610.34
117	1706236-1 10X	1103.1820	230528.87	828.7430	127856.72	9444.0007	138100.63	21.9453	3180.45	2.1374	11733.85
118	1706236-2 10X	1826.8287	384608.35	829.9946	129007.61	11833.9739	171005.75	42.7736	6198.13	6.9148	37711.41
119	1706236-3 100X	7809.8589	1675959.61	2747.4966	412942.59	11601.8351	171219.22	16.4723	2536.98	13.9742	76980.27
120	LCV	11.0285	2483.63	108.0127	26191.88	107.5308	1664.84	20.1041	2930.39	0.5240	3130.98
121	CCV	493.3256	106572.28	5320.5192	795469.68	4887.2848	73192.68	203.8100	29734.85	10.3447	55206.33
122	CCB	0.7490	223.34	-1.8836	9699.98	0.3812	91.54	-0.1279	3.33	0.0042	298.33
123	FP170614-3MB...	2.0576	500.03	1.4710	9946.77	3.1828	130.37	-0.1510	0.00	0.0041	290.00
124	IP170614-3MB ...	1.3004	336.69	1.0129	9873.37	2.5154	121.36	0.0339	26.67	0.0080	313.67

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	483.1844	104680.21	518.0127	86499.49	1030.3182	15245.47	204.6044	28996.60	10.0149	54511.37
126	1705515-1 10X	3.3438	750.10	309.1517	53400.71	537.7860	7804.80	0.0131	23.33	0.0605	620.35
127	1705515-1L 50X	3.5905	836.73	69.8677	20179.73	131.5676	2038.55	0.1232	40.00	0.0168	367.01
128	1705515-1DUP ...	2.8726	660.05	307.4055	53698.40	605.1893	8808.79	-0.1034	6.67	0.0247	421.01
129	1705515-1MS 10X	502.0869	104565.43	827.6979	127228.54	1550.3499	22707.33	204.9172	29270.38	9.7624	54942.42
130	1705515-1MSD ...	498.4358	103086.59	835.5490	127475.81	1597.6866	22983.30	209.3529	29387.14	9.7013	54549.51
131	1705515-3 10X	3.5422	803.40	298.8667	52691.56	463.3784	6690.10	0.0610	30.00	0.0212	396.68
132	1706185-1 100X	1.6401	390.02	560.4894	87940.04	10011.5145	142810.20	0.1129	36.67	0.0057	299.67
133	CCV	494.4344	106064.53	5315.6617	789268.11	5021.3754	73968.06	196.2114	28552.60	10.3253	55549.87
134	CCB	1.2329	330.02	1.7464	10233.57	1.9960	114.52	-0.1278	3.33	0.0053	300.00
135	1706185-3 100X	1.8019	420.03	559.4046	86950.68	9605.1698	135454.21	-0.0794	10.00	0.0142	340.67
136	1706193-1 100X	1.0037	260.01	670.1765	103236.82	5632.9803	80878.41	-0.1274	3.33	0.0062	300.00
137	1706193-2 100X	7.7880	1663.56	590.6392	92856.51	5479.9658	78243.65	-0.1276	3.33	0.0185	369.67
138	1706201-1 10X	912.2516	194339.39	974.7975	151606.35	53429.0119	789288.89	6.7221	993.44	3.6610	20053.50
139	1706271-1 100X	3.3702	690.05	40898.7857	5337684.61	8490.6297	114586.23	0.0939	33.33	0.0278	403.01
140	1706271-2 100X	0.6666	196.68	351.6623	60517.63	1692.7245	24803.34	-0.0356	16.67	0.0030	290.67
141	1706286-1 100X	0.5742	176.68	279.4688	49876.08	4176.8219	60047.31	-0.1047	6.67	0.0017	277.00
142	1706286-3 100X	1.0183	270.02	536.0533	86807.55	5193.4538	74532.51	-0.0103	20.00	0.0502	537.34
143	LCV	11.1068	2473.64	109.0614	26054.82	95.4313	1475.81	20.5794	2973.76	0.5533	3182.65
144	CCV	492.6827	104556.61	5311.7537	780184.39	4976.3513	72680.33	198.2846	28165.06	10.1038	53731.94
145	CCB	1.8848	466.69	1.2281	10006.75	1.0705	101.27	-0.0822	10.00	0.0050	298.33

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0186	1791.24	0.0217	214.45	0.2303	6198.10	0.0011	36.67	0.0302	243.34
2	blank	0.0015	1668.99	0.0075	145.56	0.1513	5667.93	0.0025	53.33	0.0340	255.56
3	blank	-0.0017	1633.44	0.0148	180.00	0.1095	5344.41	0.0014	40.00	0.0199	208.89
4	blank	0.0000	1632.32	0.0000	107.78	0.0000	4577.53	0.0000	22.22	0.0000	145.56
5	H/1000	0.5965	5880.01	0.2443	1283.40	6.1968	46159.31	0.1009	1238.95	0.5416	1849.03
6	H/100	5.1873	38438.10	2.0332	9875.31	53.5665	363369.55	1.0127	12218.03	5.1514	16323.84
7	H/10	49.8747	346375.84	19.4344	91073.96	501.5463	3277726.82	9.8786	115934.60	49.4905	151588.12
8	HIGH	500.0106	3272899.10	200.0562	886392.14	4999.8085	30888472.87	100.0120	1110809.96	500.0494	1448552.82
9	ICV	99.3318	670446.10	39.2598	179112.56	988.0255	6285378.66	19.7502	225754.75	99.2279	295915.66
10	ICB	0.0026	1626.77	0.0190	195.56	0.2581	6198.12	0.0009	32.22	0.0380	260.01
11	LIV	1.0188	8640.15	0.5207	2542.46	10.5365	73221.54	0.5263	6195.72	2.0114	6295.74
12	ICSA	0.4186	4246.17	0.8680	3940.53	25099.2333	1.54951E+08	0.0069	97.78	0.0887	390.01
13	ICSAB	51.8996	340012.44	20.9560	92662.99	25910.4952	1.59562E+08	10.1592	112486.32	50.4021	145680.59
14	CCV	49.9448	342464.45	19.3815	89677.79	504.2611	3253760.16	9.8143	113718.79	49.4018	149399.53
15	CCB	0.0182	1710.11	0.0113	156.67	0.1724	5551.19	0.0016	40.00	0.0049	155.56
16	1705538-14 100X	0.3701	4122.81	5.3715	25047.02	1398.4584	9058669.86	0.5048	5897.80	0.9610	3058.11
17	IP170612-2RBM...	0.1544	2700.26	0.0312	254.45	3.9698	30786.74	0.0029	56.66	0.1217	521.13
18	IP170612-2MB ...	1.4395	11587.72	0.0545	361.12	4.0706	31127.16	0.0006	28.89	0.0399	264.45
19	IM170612-2LCS...	52.0683	358371.19	10.5965	49269.14	523.8132	3392973.18	10.6741	124167.55	52.2526	158637.98
20	IM170612-2LCS...	51.5392	355810.02	10.3186	48128.15	526.2531	3418789.84	10.5381	122953.39	51.2208	155978.72
21	1705316-1 10X	0.1443	2554.68	0.0936	534.46	2.3780	19669.24	0.0026	51.11	0.1120	476.68
22	1705316-2 10X	0.2052	3025.88	276.0028	1296528.21	6.6310	47910.97	0.0042	71.11	0.0563	315.56
23	1705316-3 10X	0.1494	2601.35	230.7372	1067430.93	6.3319	45256.99	0.0029	55.56	0.1413	567.80
24	1705316-4 10X	0.1649	2742.49	367.0336	1721602.74	13.2470	91090.85	0.0032	58.89	0.0702	357.78
25	1705316-5 10X	0.1649	2731.38	96.9544	452974.39	27.2589	181978.93	0.0035	62.22	0.0748	370.01
26	CCV	50.9142	340426.73	19.7207	88969.65	512.6664	3225614.12	9.9425	112337.29	50.2828	148286.71
27	CCB	-0.0023	1565.66	0.0087	144.45	0.0840	4967.65	0.0001	22.22	0.0006	142.22
28	1705541-6 10X	0.7522	6852.62	35.2246	166354.84	2857.9470	18810369.30	0.7824	9276.08	0.8444	2748.05
29	1705541-6L 50X	0.1123	2375.77	7.2163	33905.01	587.5656	3841980.99	0.1563	1857.91	0.4299	1457.87
30	LCV	1.0317	8615.71	0.5463	2626.92	10.6545	73026.57	0.5135	5965.61	2.0671	6384.68
31	CCV	51.0021	344874.84	19.8664	90647.46	510.1130	3245995.68	10.0226	114531.61	50.4095	150345.29

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	0.0050	1619.00	0.0084	143.34	0.0411	4700.93	0.0024	50.00	0.0042	153.34
33	IP170613-1MB ...	0.0063	1642.33	0.0841	498.90	2.1647	18614.63	0.0004	26.67	0.1471	592.24
34	IP170613-1LCS...	52.8761	362952.41	10.6293	49291.40	534.6994	3454214.53	10.8484	125863.98	52.8395	159996.69
35	1705533-2 10X	28.9724	193029.55	936.4155	4190992.05	27276.9965	1.70217E+08	16.7227	187631.83	31.2969	91707.62
36	1705533-2L 50X	5.6292	39598.57	185.0894	846934.08	5375.4884	34294738.65	3.2987	37854.73	6.0759	18312.61
37	1705533-2DUP ...	28.7274	191875.67	706.8255	3171432.02	24641.6135	1.54138E+08	14.5923	164132.83	30.1119	88456.55
38	1705533-2MS 10X	80.7755	542604.91	666.0277	3020774.88	23749.5146	1.50187E+08	23.8183	270811.30	79.9660	237238.93
39	1705533-2MSD ...	80.9338	541762.01	710.4537	3211150.78	23661.8036	1.49102E+08	24.2002	274178.54	80.5586	238158.62
40	1705533-2A 10X	129.2146	852654.95	958.8567	4276165.25	27975.1020	1.73966E+08	36.0457	402995.30	129.8271	378667.43
41	1705542-7 10X	2.6242	19343.72	163.7941	751431.07	3663.0876	23430877.15	2.0133	23168.74	3.5388	10750.33
42	CCV	50.6850	344930.72	19.6632	90296.50	510.0312	3266372.14	9.9548	114487.47	49.8534	149636.34
43	CCB	0.0165	1672.33	0.0397	284.45	0.2864	6194.79	0.0010	32.22	-0.0092	111.12
44	1705542-8 10X	3.0922	22434.36	130.5347	596715.37	4654.1625	296655334.56	2.4433	28017.38	3.9198	11852.24
45	1705542-9 10X	1.9993	14954.70	159.1923	722750.09	2984.2331	18905566.39	1.6238	18500.57	2.8258	8523.42
46	1705542-10 10X	2.4860	18179.06	117.7664	533616.58	4221.2927	26667903.77	4.5044	51176.16	4.9633	14837.95
47	1705542-11 10X	2.4953	18043.38	64.4593	288948.95	3930.1452	24559288.80	4.0892	45953.20	5.0643	14971.43
48	1705542-12 10X	1.9169	14348.60	142.8955	646415.67	2817.9732	17772320.57	1.4265	16193.72	2.7880	8380.05
49	1705542-13 10X	1.8587	13963.82	142.5238	644938.66	2723.4854	17184839.74	1.4053	15959.02	2.4513	7387.31
50	1705542-14 10X	3.1577	22891.55	166.1599	760182.87	3633.0442	23175493.82	1.6958	19462.81	3.7256	11279.57
51	1705542-15 10X	2.1225	15714.33	197.1925	891506.56	2678.6048	16887049.75	1.3306	15098.21	3.0512	9153.76
52	1706115-1 10X	13.4157	89640.10	238.0742	1059006.97	16012.8437	99302941.85	6.1942	69082.22	22.8396	66541.89
53	1706115-3 10X	6.0838	42882.33	154.8351	712061.91	8049.1281	51607289.23	3.1076	35840.33	9.6886	29264.01
54	CCV	50.7037	343002.62	19.5913	89430.76	506.8662	3226881.20	9.9727	114006.51	50.0347	149287.65
55	CCB	-0.0333	1348.96	0.0247	217.78	0.3221	6481.66	0.0003	25.56	-0.0066	120.00
56	1706115-4 10X	14.6202	98331.44	241.3471	1082055.34	17054.8111	1.06605E+08	6.5701	73852.90	21.8212	64092.20
57	1706115-5 10X	8.5891	59371.91	176.0411	802462.95	10792.0468	68592397.31	4.4362	50702.43	11.9466	35740.16
58	1706115-6 10X	12.3988	83263.86	206.2268	920549.09	14781.0505	91988518.63	5.8804	65816.57	20.5844	60199.90
59	1706115-7 10X	7.0167	48649.24	224.1966	1019042.74	12789.1844	81047237.12	3.9474	44993.81	10.2676	30644.26
60	1706115-8 10X	7.7803	53837.61	164.5358	748701.00	9786.1242	62085769.07	3.9572	45154.14	11.3121	33781.50
61	1706118-1 10X	4.2756	30135.46	75.9324	343884.54	7136.8858	45057362.66	2.9534	33542.19	5.4819	16363.90
62	1706118-2 10X	9.9135	67721.43	124.9208	564753.38	9859.1581	62140355.74	4.5036	51051.44	8.8243	26213.34

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	7.9971	55456.08	108.9526	497328.04	5095.1578	32427415.35	3.2864	37620.97	7.0243	21098.15
64	LCV	0.9984	8186.60	0.5405	2538.01	11.0887	73997.60	0.5170	5862.24	1.9477	5875.58
65	CCV	50.2271	337358.94	19.5434	88575.13	508.3361	3212992.14	9.9795	113270.49	49.8093	147554.27
66	CCB	-0.0235	1422.30	0.0146	172.22	0.1855	5634.55	0.0002	23.33	-0.0053	124.45
67	ZZZ	-0.1727	1126.72	-0.0132	121.11	-0.4689	3937.38	-0.0011	24.44	-0.0398	55.56
68	IP170613-2MB ...	-0.0189	1450.09	0.0800	474.46	1.1592	11898.24	0.0051	81.11	0.0440	273.34
69	IM170613-2LCS...	49.0851	326883.58	9.8163	44158.05	494.3410	3097835.16	10.0206	112755.53	48.9498	143761.69
70	1705603-1 10X	0.0888	2095.72	89.5731	397156.64	4.6382	32903.98	0.3136	3504.87	1.7974	5343.17
71	1705603-1L 50X	0.0111	1624.55	17.5873	79979.76	0.8534	9746.66	0.0630	737.81	0.3841	1277.85
72	1705603-1DUP ...	0.0162	1611.21	88.0903	388786.12	7.1772	48369.09	0.3183	3541.55	1.7366	5143.11
73	1705603-1MS 10X	50.6393	331131.37	98.9268	436125.72	517.3242	3183375.47	10.6109	117272.23	50.9604	146976.80
74	1705603-1MSD ...	50.1878	333002.45	99.0446	443017.59	523.9514	3271262.56	10.5781	118600.60	51.4552	150567.67
75	1705603-2 10X	0.0242	1654.55	4.4156	19478.30	0.9009	9710.06	0.0080	108.89	0.5211	1627.88
76	1705603-3 10X	0.0246	1704.56	28.7587	129876.05	3.1875	24365.93	0.0106	141.12	0.8656	2691.38
77	1705603-4 10X	0.0324	1764.57	67.6884	307085.85	1.3702	12999.15	0.3237	3699.36	1.1932	3674.91
78	ICSA	0.4092	4253.94	0.8582	3961.65	25328.6330	1.58831E+08	0.0039	64.45	0.0394	252.23
79	ICSAB	52.5203	347753.58	21.2304	94854.42	26453.4658	1.64632E+08	10.1358	113438.14	51.4456	150246.06
80	CCV	51.6078	353357.47	20.1406	93061.71	519.9466	3350370.68	10.0813	116657.66	50.7692	153329.24
81	CCB	0.0098	1670.11	0.0175	187.78	0.5218	7902.36	0.0013	36.67	0.0412	268.89
82	1705603-5 10X	0.1014	2243.52	0.8529	3998.33	3.2277	24916.47	0.0071	102.22	0.3458	1171.17
83	1705603-6 10X	0.0279	1711.22	0.0438	296.67	1.6830	14770.75	0.0028	52.22	0.1368	535.57
84	1705603-7 10X	0.1307	2404.66	9.8227	44278.33	10.4529	69842.55	0.4268	4831.90	0.6165	1949.03
85	1706221-1 10X	0.0486	1884.58	0.3477	1687.89	2.1834	18234.22	0.0291	353.34	0.1694	644.47
86	LCV	1.0444	8764.66	0.5617	2718.05	11.1585	76836.98	0.5139	6015.62	2.0587	6402.46
87	CCV	51.0940	343511.78	19.7719	89701.31	512.2479	3241011.93	10.0015	113635.05	50.3489	149310.55
88	CCB	0.0013	1616.77	0.0200	200.01	0.1516	5501.16	0.0014	38.89	0.0123	181.11
89	FP170613-3MB...	0.0566	1954.59	0.0543	353.34	2.3331	19358.90	0.0032	58.89	0.0353	245.56
90	IP170613-3MB ...	0.0205	1703.45	0.0619	386.68	9.1851	63082.18	0.0030	55.56	0.0193	196.67
91	IM170613-3LCS...	49.7465	343746.34	9.9363	46368.56	508.7671	3308224.74	10.1331	118305.95	49.1709	149823.13
92	1706070-1 10X	1.9089	14387.52	0.2153	1082.27	2.1552	18027.37	0.0029	54.45	0.0735	356.68
93	1706070-2 10X	1.6134	12194.66	0.0887	497.79	9.4870	63501.06	0.0022	45.55	0.1182	482.24

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	0.3918	4158.37	6.4587	29295.18	0.9395	10237.00	0.0161	203.34	0.1272	512.24
95	1706089-1 10X	0.7680	6593.63	0.0357	260.01	1.7886	15411.24	0.0057	84.45	0.0598	310.01
96	1706089-1L 50X	0.1639	2649.14	0.0301	238.89	0.6044	8165.77	0.0032	57.78	0.0893	403.34
97	1706089-1DUP ...	0.7776	6651.44	0.0416	286.67	1.6438	14513.72	0.0061	88.89	0.0882	393.35
98	1706089-1MS 10X	50.5407	340185.13	10.1863	46309.40	509.1040	3224645.68	10.0115	113867.98	48.6235	144366.69
99	CCV	50.8628	340244.52	19.7719	89248.86	519.9141	3273032.24	10.0733	113886.87	50.7022	149607.82
100	CCB	0.0121	1649.00	0.0174	183.34	0.2878	6231.50	0.0007	28.89	0.0195	197.78
101	1706089-1MSD ...	51.0442	337910.73	10.2071	45647.62	510.6759	3181479.64	10.1368	113405.35	48.7676	142387.79
102	1706089- 10X	0.7823	6757.05	0.1101	598.91	1.5375	13996.58	0.0433	511.13	0.1541	592.24
103	1706089-3 10X	0.2377	3111.45	0.8864	4085.01	5.5492	39068.28	0.0442	518.91	1.0279	3155.91
104	1706089-4 10X	1.5985	12144.63	1.0021	4605.15	15.9190	104059.38	0.0235	285.56	1.6880	5096.43
105	1706125-1 10X	0.0558	1912.36	0.0583	364.45	0.6240	8240.08	0.0010	32.22	0.0229	204.45
106	1706125-2 10X	2.2878	16685.27	11.6755	52466.63	253.2120	1587728.73	0.1225	1397.86	0.8870	2736.95
107	1706126-1 10X	0.5203	4989.72	0.3684	1757.90	2.9182	22586.55	0.0426	501.13	0.4107	1342.30
108	1706126-2 10X	1.1705	9228.23	0.3837	1809.02	6.1392	42412.66	0.0188	230.01	0.6508	2032.38
109	1706126-3 10X	0.3129	3576.00	0.1004	546.68	1.4550	13279.34	0.0337	396.68	0.2872	970.04
110	1706126-4 10X	0.3491	3891.62	0.0775	454.46	2.7875	21992.34	0.0061	90.00	0.3159	1076.71
111	CCV	50.6290	343431.31	19.6457	89927.14	512.4159	3270903.39	9.9357	113894.16	49.8516	149144.63
112	CCB	0.0074	1608.99	0.0159	175.56	0.2831	6171.47	0.0013	35.56	0.0177	191.11
113	1706153-1 10X	0.1516	2492.44	6.4698	28623.91	21.8267	138386.63	0.0516	591.13	0.1567	585.57
114	1706153-3 10X	0.1362	2391.32	7.4107	32761.65	6.7728	45838.95	0.0538	614.47	0.1838	663.36
115	1706192-1 10X	0.0646	1949.03	0.6122	2831.40	7.1349	48653.63	0.0329	388.90	0.1087	452.23
116	1706197-1 10X	0.0825	2086.83	7.0971	32079.24	5.9927	41955.74	0.0285	343.34	0.2562	891.15
117	1706236-1 10X	1.1238	8774.69	20.5027	89997.25	1579.0935	9656732.78	0.4110	4539.58	1.0784	3222.59
118	1706236-2 10X	3.8390	26556.01	96.8655	427954.56	4280.2222	26362866.27	3.1245	34625.47	6.0799	17695.27
119	1706236-3 100X	7.6808	52611.55	740.0975	3332254.52	15324.1114	96210081.90	6.1274	69183.91	13.4288	39665.81
120	LCV	1.0484	8723.54	0.5588	2685.82	11.2113	76579.99	0.5050	5864.47	2.0831	6424.68
121	CCV	50.7416	341043.29	19.9032	90266.71	508.8470	3218437.03	9.9582	113108.05	50.1410	148641.93
122	CCB	0.0069	1630.11	0.0166	181.12	0.2153	5831.30	-0.0002	18.89	0.0067	161.11
123	FP170614-3MB...	0.0376	1792.35	0.0964	536.68	14.2403	94002.05	0.0031	56.67	0.1059	450.02
124	IP170614-3MB ...	0.0372	1789.01	0.0631	386.68	6.4901	45176.67	0.0013	35.56	0.0624	321.12

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	49.5301	333894.20	9.9794	45441.51	506.8797	3215250.89	10.0956	114998.44	48.6719	144701.33
126	1705515-1 10X	0.0370	1727.90	0.7166	3227.03	54.0215	333006.14	0.0014	35.56	0.0970	408.90
127	1705515-1L 50X	0.0296	1753.45	0.2455	1220.07	12.7167	85081.85	0.0047	74.44	0.1509	587.80
128	1705515-1DUP ...	0.0529	1851.24	0.7192	3271.49	55.2687	344082.82	0.0025	47.78	0.0944	405.57
129	1705515-1MS 10X	51.2321	331944.74	10.9365	47867.36	570.9880	3481074.32	10.4264	114179.71	52.0129	148666.00
130	1705515-1MSD ...	50.9700	327986.98	10.9472	47580.83	574.8974	3480888.28	10.3512	112569.44	50.7141	143935.80
131	1705515-3 10X	0.0928	2119.06	0.8119	3696.03	46.5860	291984.18	0.0043	67.78	0.0924	402.24
132	1706185-1 100X	1.1822	8987.01	15.6078	67294.50	1219.2261	7323358.22	0.0045	68.89	0.4014	1260.07
133	CCV	50.9787	340252.02	19.7721	89049.36	515.3122	3236656.83	9.9975	112780.43	50.0790	147438.33
134	CCB	0.0017	1591.21	0.0174	184.45	0.2890	6281.47	0.0012	35.56	0.0177	193.34
135	1706185-3 100X	1.8189	12913.02	12.3725	52860.39	958.7441	5705644.71	0.0118	146.67	0.2406	800.03
136	1706193-1 100X	0.0804	1979.04	2.5572	11097.23	117.6575	709806.63	0.0027	48.89	0.0696	326.67
137	1706193-2 100X	0.1126	2201.29	3.4708	15153.82	178.9728	1086595.56	0.0141	173.34	0.1445	540.01
138	1706201-1 10X	1.0349	8355.56	61.4402	274649.24	663.1799	4135805.46	2.3727	26596.26	3.7789	11173.97
139	1706271-1 100X	0.3060	3169.24	33.0860	132324.86	164.6737	921348.94	0.0190	208.89	3.1359	8312.22
140	1706271-2 100X	0.0326	1732.33	2.4528	11003.82	148.1001	922163.16	0.0012	34.45	0.0506	282.23
141	1706286-1 100X	0.1559	2533.57	6.4414	28622.82	513.7892	3176524.22	0.0046	72.22	0.0900	395.57
142	1706286-3 100X	0.1106	2232.41	25.6235	113430.54	1421.2930	8769301.75	0.2497	2789.17	2.2189	6550.30
143	LCV	1.0124	8381.13	0.5380	2558.02	11.0089	74413.68	0.4960	5695.51	2.0835	6354.65
144	CCV	51.0316	336950.99	19.8110	88265.95	513.5316	3190990.16	10.0536	112188.97	50.4682	146983.87
145	CCB	-0.0141	1462.31	0.0041	121.11	0.2134	5717.94	0.0006	27.78	0.0106	170.01

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0117	1308.97	0.0472	206.68	0.0035	8.00	-0.0045	2.53	-0.0036	50.00
2	blank	0.0127	1318.96	0.0205	160.01	0.0032	7.67	0.0062	3.60	-0.0048	43.33
3	blank	0.0087	1276.73	0.0230	163.35	0.0036	8.00	0.0134	4.27	-0.0012	63.34
4	blank	0.0000	1201.17	0.0000	123.34	0.0000	5.00	0.0000	2.93	0.0000	70.00
5	H/1000	1.0666	9493.99	2.2402	3980.67	0.1088	95.00	0.1115	13.87	0.1286	800.06
6	H/100	10.6465	83810.63	20.4215	35242.28	1.0431	854.69	1.0349	104.13	1.0859	6221.48
7	H/10	102.8293	778654.27	200.3534	335752.05	10.1844	8246.78	9.9697	951.90	9.4987	52510.76
8	HIGH	999.7105	7155695.83	1999.9602	3171420.27	99.9811	80363.49	100.0027	9013.83	100.0492	522816.54
9	ICV	206.7175	1523575.18	389.7752	636183.28	19.6099	15636.87	20.1771	1873.97	20.3765	109664.57
10	ICB	0.0007	1186.73	0.1043	296.69	0.0044	8.33	0.0018	3.07	-0.0027	53.33
11	LIV	2.0661	16789.91	9.9205	16739.22	0.2168	176.67	0.9727	95.47	0.4773	2703.70
12	ICSA	0.1664	2299.09	1.1897	1996.89	0.0198	20.33	0.0067	3.33	0.3434	1856.86
13	ICSAB	103.3923	738769.17	201.4694	318599.06	10.2020	8240.78	9.9305	894.56	10.6774	55671.59
14	CCV	102.7013	767844.14	200.9611	332519.39	10.3402	8162.74	9.8174	925.63	9.6589	52718.55
15	CCB	-0.0319	924.49	0.0770	246.68	0.0013	6.00	0.0152	4.27	-0.0026	53.33
16	1705538-14 100X	1.6906	13843.83	5.4738	9216.36	1.2387	1000.70	0.9524	92.80	1.8483	10190.38
17	IP170612-2RBM...	-0.0470	828.92	0.2425	533.37	0.0023	6.67	0.0100	3.87	0.0818	526.70
18	IP170612-2MB ...	1.2827	10902.67	1.1115	1990.22	0.0053	9.00	0.0050	3.33	0.0274	220.01
19	IM170612-2LCS...	108.4450	813888.40	212.1045	352339.88	11.0372	8774.06	10.3978	984.03	10.4130	57056.28
20	IM170612-2LCS...	106.7134	803349.58	209.1046	348405.62	11.1097	8673.00	10.2573	973.76	10.1635	55858.85
21	1705316-1 10X	0.0235	1330.07	0.9289	1650.15	0.0068	10.00	0.0141	4.13	0.2011	1160.10
22	1705316-2 10X	0.0085	1241.18	0.8861	1610.16	0.0075	10.67	-0.0007	2.80	0.1374	830.06
23	1705316-3 10X	0.0101	1234.51	1.1385	2003.56	0.0028	7.00	0.0081	3.60	0.1763	1030.08
24	1705316-4 10X	-0.0066	1125.61	1.2528	2223.60	0.0083	11.33	0.0119	4.00	0.1558	930.07
25	1705316-5 10X	0.0297	1394.53	1.5097	2643.68	0.0028	7.00	0.0134	4.13	0.3072	1760.17
26	CCV	104.9825	765352.28	206.2794	332831.09	10.1054	7999.33	9.8912	909.63	9.7336	51811.77
27	CCB	-0.0378	877.82	0.0795	250.02	-0.0006	4.33	0.0010	2.93	-0.0001	66.67
28	1705541-6 10X	1.2011	10340.07	7.8997	13462.74	0.5130	412.68	0.1489	17.20	3.4058	19025.42
29	1705541-6L 50X	0.1675	2441.33	1.6075	2817.03	0.1039	88.33	0.0301	5.73	0.6879	3867.31
30	LCV	2.0566	16504.07	10.3081	17163.06	0.2391	196.67	1.0416	100.67	0.5298	2953.76
31	CCV	105.1879	775538.77	206.7266	337352.85	10.3832	8140.07	9.9940	929.23	9.7820	52657.93

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	-0.0412	854.48	0.0888	266.68	0.0010	5.67	0.0122	4.00	-0.0008	63.33
33	IP170613-1MB ...	0.5412	5268.69	4.3815	7468.75	0.0047	8.67	0.0022	3.07	0.0034	86.67
34	IP170613-1LCS...	111.4185	833987.64	224.0085	371133.33	11.3774	8983.50	11.0492	1042.97	10.5720	57768.83
35	1705533-2 10X	23.2876	169467.36	57.9092	92872.44	2.5718	2060.14	1.2382	115.47	59.4742	314022.78
36	1705533-2L 50X	4.6108	35223.59	11.9927	19756.09	0.5167	415.34	0.2277	24.00	11.5203	62238.99
37	1705533-2DUP ...	22.7393	165899.53	56.3023	90518.04	3.0301	2407.52	1.0640	99.60	50.7291	268504.13
38	1705533-2MS 10X	127.6977	936631.01	265.0200	430314.23	13.1445	10567.11	10.9002	1008.30	59.2899	317241.16
39	1705533-2MSD ...	133.5731	976272.64	270.1373	437088.98	13.4835	10787.93	11.3264	1043.90	60.7327	323815.41
40	1705533-2A 10X	226.4062	1632283.82	457.0992	729702.02	22.8085	18106.09	22.0952	2007.19	77.6091	408327.96
41	1705542-7 10X	5.1205	39084.46	13.2678	21899.02	2.2760	1852.45	0.5961	58.40	116.2957	629303.69
42	CCV	104.0691	772230.25	205.7434	337892.40	10.4036	8255.46	10.2731	961.36	9.8406	53296.76
43	CCB	-0.0369	873.37	0.1199	313.35	0.0065	10.00	0.0143	4.13	0.0031	83.33
44	1705542-8 10X	7.9085	59534.51	16.8117	27614.45	3.3005	2612.89	0.7806	75.33	166.1841	895989.70
45	1705542-9 10X	4.0008	30474.04	12.0024	19619.27	2.7012	2128.15	0.5504	53.60	104.0296	557131.44
46	1705542-10 10X	7.8721	58740.50	15.1683	24712.79	4.6162	3615.41	1.2475	117.73	241.8434	1292333.39
47	1705542-11 10X	5.4700	40715.01	16.1285	25981.78	3.4524	2662.56	1.4124	131.47	496.4686	2624089.80
48	1705542-12 10X	3.3175	25367.63	11.9284	19425.59	2.0491	1587.42	0.3456	34.53	96.2981	513808.53
49	1705542-13 10X	3.2917	25189.51	11.3022	18417.81	1.7560	1369.06	0.2929	29.73	97.2870	519253.17
50	1705542-14 10X	3.0820	23916.51	13.2706	21842.10	1.3848	1090.71	0.3403	34.40	61.0966	329751.56
51	1705542-15 10X	2.7652	21322.97	10.6206	17299.91	1.0223	809.69	0.4299	42.27	99.9958	533255.99
52	1706115-1 10X	30.0819	217219.76	81.9128	130510.11	12.1380	9511.47	3.6750	335.20	377.2742	1979410.91
53	1706115-3 10X	10.5161	79262.77	39.7678	65565.93	4.6485	3718.77	1.3814	132.00	1662.5291	9017040.49
54	CCV	103.8414	765935.23	203.6873	332537.97	10.4712	8115.71	10.1203	941.23	9.6761	52109.36
55	CCB	-0.0502	782.25	0.0836	256.68	0.0046	8.33	0.0012	2.93	0.0042	90.01
56	1706115-4 10X	29.4190	214163.86	76.0373	122123.13	8.1737	6481.98	3.2861	302.40	272.1019	1438923.00
57	1706115-5 10X	14.7755	109918.70	49.0628	80152.42	5.0638	4013.51	1.6513	155.87	143.9530	773959.39
58	1706115-6 10X	23.7366	172257.03	77.7780	124359.18	6.9290	5476.28	3.0143	276.27	889.2887	4682241.18
59	1706115-7 10X	12.7879	95016.62	46.0727	75057.31	4.3476	3446.38	1.5205	143.33	126.3919	677612.60
60	1706115-8 10X	15.3695	114089.48	45.9756	74982.96	4.6729	3666.76	1.7405	163.87	117.6206	631293.08
61	1706118-1 10X	3.5393	27020.21	28.0734	45608.23	1.8579	1472.07	0.4548	44.67	16.6574	89030.52
62	1706118-2 10X	6.8471	51124.10	37.5564	60875.18	3.1425	2450.86	0.7663	73.20	73.6589	392778.38

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	5.2271	39678.15	24.8520	40722.27	2.1677	1710.10	0.5437	53.20	17.5308	94441.17
64	LCV	2.0454	16023.58	10.8422	17606.87	0.2207	174.67	1.0656	100.40	0.5643	3067.09
65	CCV	103.3464	756846.12	201.4907	326590.66	10.2980	7970.64	9.8742	912.03	9.5500	51059.09
66	CCB	-0.0548	752.25	0.0327	173.34	0.0012	5.67	0.0163	4.40	0.0030	83.34
67	ZZZ	-0.1256	623.35	-0.0398	150.01	-0.0034	6.00	-0.0191	2.93	-0.0093	46.67
68	IP170613-2MB ...	-0.0409	854.48	0.2809	583.38	-0.0009	4.00	-0.0118	1.73	0.0402	286.68
69	IM170613-2LCS...	102.6003	744932.85	201.9973	324587.91	10.6190	8076.03	10.0285	918.16	9.6329	51059.06
70	1705603-1 10X	0.4997	4690.74	1.5606	2590.33	2.3991	1866.78	0.9811	91.20	24.1328	126244.07
71	1705603-1L 50X	0.0573	1558.99	0.7320	1306.77	0.4871	381.34	0.1675	18.27	4.7205	25347.65
72	1705603-1DUP ...	0.3996	3953.87	0.5933	1050.08	2.3414	1843.11	0.9386	86.93	24.0937	125459.08
73	1705603-1MS 10X	104.0166	741681.17	205.5333	324351.04	12.9222	10046.79	11.2366	1009.77	34.3626	178700.43
74	1705603-1MSD ...	103.8250	751104.22	205.4664	328984.50	12.7915	10076.14	11.1210	1014.17	33.7700	178195.20
75	1705603-2 10X	0.1879	2431.33	0.4551	826.73	7.7149	6067.15	4.1310	371.34	193.7939	1003047.80
76	1705603-3 10X	0.2869	3221.47	2.1066	3517.20	1.2167	978.37	1.1743	110.53	61.6025	327979.34
77	1705603-4 10X	0.2832	3212.58	0.2792	570.04	1.9898	1588.42	0.8053	77.07	25.5253	136605.22
78	ICSA	0.1163	1971.26	1.1887	2030.24	0.0180	19.33	0.0178	4.40	0.3456	1900.21
79	ICSAB	103.9570	750589.12	202.6268	323828.04	10.3053	8340.49	10.0079	911.36	10.7272	56543.87
80	CCV	105.5741	788218.18	206.4368	341131.83	10.4233	8353.16	10.0604	947.23	9.8023	53430.26
81	CCB	-0.0385	884.48	0.0792	253.35	0.0044	8.33	0.0116	4.00	0.0003	70.00
82	1705603-5 10X	0.0656	1630.10	0.7964	1420.13	0.0988	83.33	0.8684	83.47	72.2133	389112.51
83	1705603-6 10X	0.0682	1612.33	0.5483	990.09	0.0087	11.33	0.0051	3.20	0.1245	723.39
84	1705603-7 10X	0.3146	3412.63	0.9624	1666.83	0.9046	720.69	1.2355	115.73	128.0751	679370.72
85	1706221-1 10X	0.9255	7958.70	6.1831	10207.02	0.0210	21.67	0.5643	55.07	114.7792	617314.00
86	LCV	2.0562	16620.79	10.9513	18354.63	0.2113	172.33	1.0165	99.07	0.4737	2667.02
87	CCV	104.4700	765889.10	205.5885	333592.38	10.3717	8074.69	10.0393	928.16	9.6487	51641.28
88	CCB	-0.0460	831.15	0.0449	196.68	-0.0009	4.00	0.0143	4.27	-0.0004	66.67
89	FP170613-3MB...	-0.0193	1008.94	0.3533	700.04	0.0088	11.67	0.0042	3.20	0.0178	163.35
90	IP170613-3MB ...	-0.0327	906.71	0.2108	463.36	0.0004	5.00	-0.0044	2.40	0.0099	120.01
91	IM170613-3LCS...	102.0140	768528.23	202.3396	337387.37	10.6521	8346.83	10.0842	958.30	9.9385	54660.90
92	1706070-1 10X	1.5482	12526.05	1.8721	3167.13	0.2914	235.33	0.0909	11.20	23.0503	123828.25
93	1706070-2 10X	1.8560	14544.37	4.1987	6845.07	0.4527	362.34	0.1470	16.13	18.2802	96594.48

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	0.0060	1176.73	1.7123	2887.05	0.1792	140.67	0.1456	16.13	15.6476	83485.16
95	1706089-1 10X	-0.0026	1101.17	0.2888	576.70	0.3525	277.00	0.8911	83.73	45.7139	241003.94
96	1706089-1L 50X	-0.0392	850.04	0.3395	666.71	0.0820	68.33	0.1437	16.00	9.0631	48564.80
97	1706089-1DUP ...	-0.0048	1085.61	0.3961	746.72	0.3710	293.67	0.9262	86.80	47.0587	247984.47
98	1706089-1MS 10X	102.1416	749626.53	202.6743	329214.34	10.8165	8504.91	11.2305	1039.37	56.9468	304828.65
99	CCV	104.6147	763158.56	205.7129	332080.09	10.3041	7937.96	10.1590	934.43	9.8327	52360.42
100	CCB	-0.0438	825.59	0.1291	330.02	0.0050	8.67	0.0227	4.93	-0.0013	60.00
101	1706089-1MSD ...	102.9875	743401.74	203.3663	324909.01	10.9387	8434.88	11.0651	1006.83	56.6952	298463.42
102	1706089- 10X	0.0009	1137.83	1.6878	2843.71	0.3675	291.33	0.8625	82.00	47.1865	251283.73
103	1706089-3 10X	0.0654	1601.22	1.8435	3080.45	0.5675	447.68	0.3708	36.67	23.1056	122554.54
104	1706089-4 10X	0.2152	2689.15	2.8322	4670.92	0.5970	470.34	0.3562	35.33	23.3026	123607.87
105	1706125-1 10X	-0.0377	856.70	0.4027	766.73	0.0061	9.33	0.0178	4.40	0.0358	256.68
106	1706125-2 10X	0.6654	5944.51	4.7016	7662.15	0.2168	170.67	0.9317	87.73	80.2030	424362.51
107	1706126-1 10X	-0.0030	1103.39	0.5104	936.74	0.5226	407.01	1.6023	149.20	57.2287	303469.89
108	1706126-2 10X	0.0235	1285.63	0.4376	810.06	0.5091	400.68	1.6202	149.60	57.8868	304334.46
109	1706126-3 10X	0.1246	2011.27	0.5477	986.74	0.4701	372.34	1.5797	145.73	54.8358	287976.01
110	1706126-4 10X	0.1360	2134.62	0.3836	740.05	0.4630	366.34	1.5033	141.60	54.6250	292688.75
111	CCV	103.5371	765765.98	205.8123	336904.28	10.2891	8042.01	9.7980	914.03	9.5818	51744.77
112	CCB	-0.0513	766.70	0.1591	376.69	0.0013	5.67	0.0115	3.87	-0.0062	33.33
113	1706153-1 10X	0.2105	2603.58	0.3510	666.72	0.0875	71.67	0.1825	19.07	47.4065	246568.78
114	1706153-3 10X	0.2330	2763.61	0.4063	753.39	0.0842	70.67	0.1946	20.13	47.0282	244545.25
115	1706192-1 10X	0.1057	1879.03	2.0390	3370.51	0.0631	53.33	0.1007	11.87	76.5626	402988.21
116	1706197-1 10X	0.0287	1337.85	5.8447	9543.26	0.0672	56.33	0.0806	10.13	12.8577	68400.73
117	1706236-1 10X	1.0114	8262.19	5.7048	9059.63	0.7345	573.68	0.6417	59.87	240.1912	1242017.35
118	1706236-2 10X	3.2701	24439.51	11.9286	18975.15	1.4364	1128.71	7.9518	717.09	134.3349	700024.78
119	1706236-3 100X	9.3945	69459.94	59.5703	96110.14	4.7487	3770.79	1.6727	156.00	100.0408	531340.81
120	LCV	2.0549	16476.24	10.9335	18184.25	0.1959	159.00	1.0425	100.80	0.4996	2787.06
121	CCV	104.1334	763162.47	206.8943	335578.63	10.3635	7957.31	10.1860	941.36	9.7947	52404.14
122	CCB	-0.0459	818.93	0.1134	306.69	0.0007	5.33	0.0123	4.00	-0.0002	66.67
123	FP170614-3MB...	-0.0302	911.15	0.6769	1210.10	0.0035	7.33	0.0206	4.67	0.0083	110.01
124	IP170614-3MB ...	-0.0381	853.37	7.5242	12278.46	0.0081	11.00	0.0061	3.33	0.0014	73.33

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	102.4018	752628.56	198.5807	323024.52	10.3099	8073.36	10.1310	938.96	9.7681	52414.00
126	1705515-1 10X	-0.0170	973.38	0.2229	460.03	0.0228	23.33	0.0134	3.87	75.8412	390619.36
127	1705515-1L 50X	0.2636	3079.22	3.0973	5164.41	0.0075	10.67	0.0059	3.33	14.1243	75914.29
128	1705515-1DUP ...	-0.0221	946.71	0.5001	903.40	0.0458	42.00	0.0190	4.40	77.9948	405818.84
129	1705515-1MS 10X	105.6135	746228.93	208.3277	325766.44	9.9173	8029.01	10.3173	918.96	86.9059	447750.94
130	1705515-1MSD ...	105.5200	740378.91	208.5624	323895.09	9.7915	7918.62	10.6716	944.03	86.8636	444453.44
131	1705515-3 10X	-0.0127	1020.05	0.2463	503.36	0.0332	31.33	-0.0034	2.40	42.9510	224495.41
132	1706185-1 100X	-0.0178	955.60	0.6991	1186.76	0.0026	6.67	0.0324	5.47	1022.2575	5191882.53
133	CCV	104.8413	762987.31	206.0410	331842.72	10.3492	8009.67	10.1310	929.76	9.7618	51848.48
134	CCB	-0.0317	923.38	0.1695	400.02	0.0054	9.00	-0.0089	2.00	0.0023	80.00
135	1706185-3 100X	0.1234	1919.03	0.7499	1253.45	0.0207	20.33	0.0191	4.27	952.9544	4793915.76
136	1706193-1 100X	-0.0520	716.70	0.3139	593.37	0.0380	33.67	0.0141	3.87	603.5001	3062346.31
137	1706193-2 100X	0.0780	1634.55	12.8257	20026.42	0.0525	45.33	0.0137	3.87	559.3544	2862280.37
138	1706201-1 10X	2.7382	20883.48	11.7174	18855.13	0.8551	672.02	0.9046	84.93	513.1657	2704840.37
139	1706271-1 100X	8.2838	54470.57	34.9117	50028.11	3.4418	2562.22	0.0078	3.07	259.8577	1225113.86
140	1706271-2 100X	0.0220	1271.18	0.1026	276.68	0.0118	14.00	0.0082	3.47	134.2039	703700.41
141	1706286-1 100X	-0.0092	1043.38	0.4209	780.06	0.0113	13.33	0.0054	3.20	434.0096	2267051.27
142	1706286-3 100X	21.3663	153759.33	9.0781	14483.78	1.2633	976.70	0.0440	6.67	486.6924	2539187.72
143	LCV	2.0848	16512.97	10.5378	17329.86	0.2357	184.33	1.0112	96.67	0.4756	2627.00
144	CCV	104.6582	753531.93	206.8275	329588.98	10.3647	7929.30	10.0731	914.30	9.9261	52166.66
145	CCB	-0.0456	806.70	0.1327	333.35	-0.0001	4.67	-0.0100	1.87	0.0019	76.67

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	-0.0008	13.33	0.0034	45.56	0.0001	26.67	-0.0023	3.33	-0.0231	1670.17
2	blank	-0.0014	6.67	0.0000	18.89	-0.0007	17.78	-0.0020	4.00	-0.0243	1573.49
3	blank	-0.0011	10.00	-0.0001	17.78	-0.0008	16.67	-0.0031	1.33	-0.0264	1523.48
4	blank	0.0000	23.33	0.0000	18.89	0.0000	25.56	0.0000	8.67	0.0000	2186.26
5	H/1000	0.0317	406.69	0.0906	711.14	0.0092	130.00	0.0298	78.60	0.4848	14537.49
6	H/100	0.3040	3703.96	0.9482	7252.86	0.1018	1172.29	0.2914	691.31	5.1155	130484.89
7	H/10	2.9159	35326.60	9.4876	70538.68	1.0011	11010.65	2.9444	6729.83	48.4719	1212477.98
8	HIGH	30.0084	363341.53	100.0518	703962.73	9.9999	103893.41	30.0056	64846.10	500.1517	11681483.99
9	ICV	5.7054	69099.69	19.1176	138434.00	2.0136	21548.20	5.7897	12881.61	105.2575	2589800.79
10	ICB	-0.0006	16.67	0.0041	48.89	-0.0005	20.00	-0.0017	4.66	0.1085	4955.39
11	LIV	0.0479	603.37	0.1874	1411.19	0.0562	642.24	0.2073	481.87	1.0125	27388.08
12	ICSA	0.0006	30.00	207.3116	1457685.08	0.0053	78.89	-0.0118	-17.64	0.1151	4760.92
13	ICSAB	2.8861	34966.24	220.7662	1548411.05	1.0094	10473.61	2.9491	6360.77	51.1184	1218356.13
14	CCV	2.9943	36275.96	9.5630	70202.58	0.9993	10853.85	2.9869	6740.55	47.8487	1199659.39
15	CCB	-0.0019	0.00	0.0078	75.56	0.0005	30.00	-0.0025	2.66	0.0322	2953.78
16	1705538-14 100X	0.9502	11527.99	1.1923	8810.34	0.0088	121.11	0.0259	67.13	0.1878	6938.52
17	IP170612-2RBM...	0.0000	23.33	0.0051	56.67	-0.0002	23.33	-0.0023	3.32	-0.0439	1066.76
18	IP170612-2MB ...	-0.0008	13.33	0.0024	36.67	-0.0005	20.00	-0.0011	6.00	-0.0259	1573.49
19	IM170612-2LCS...	3.1772	38490.71	10.1842	75055.50	1.0658	11618.83	3.1428	7119.56	52.8676	1354595.81
20	IM170612-2LCS...	3.1822	38550.88	10.0910	74594.43	1.0399	11372.01	3.1177	7084.94	51.0351	1298956.12
21	1705316-1 10X	-0.0003	20.00	0.0112	100.00	0.0001	25.56	-0.0013	5.32	-0.0274	1466.80
22	1705316-2 10X	0.0000	23.33	0.0075	74.44	0.0000	25.55	33.3035	76301.87	-0.0388	1186.76
23	1705316-3 10X	0.0006	30.00	0.0013	27.78	-0.0009	14.44	7.4909	16911.10	-0.0462	976.75
24	1705316-4 10X	0.0099	143.34	0.0022	34.44	0.0009	34.45	45.4147	103891.48	-0.0291	1386.79
25	1705316-5 10X	0.0000	23.33	0.0055	58.89	0.0009	34.44	88.5170	201658.70	-0.0304	1373.46
26	CCV	2.9305	35504.05	9.6931	69383.46	1.0369	10981.73	3.0429	6697.26	49.9453	1220055.97
27	CCB	-0.0006	16.67	0.0010	25.55	0.0003	27.78	-0.0014	5.33	0.0001	2150.25
28	1705541-6 10X	1.1495	13940.10	0.0253	207.78	0.0002	27.78	0.0027	14.64	0.6981	19366.11
29	1705541-6L 50X	0.2393	2920.42	0.0050	55.56	-0.0014	10.00	-0.0005	7.33	0.1117	4800.96
30	LCV	0.0498	626.71	0.1970	1462.31	0.0541	611.13	0.1864	428.53	0.9594	26273.14
31	CCV	3.0048	36402.80	9.8315	71183.36	1.0451	11191.86	3.1205	6945.20	49.5210	1216224.59

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	-0.0014	6.67	0.0033	42.22	-0.0010	14.44	-0.0022	3.33	0.0056	2270.28
33	IP170613-1MB ...	-0.0017	3.33	0.0032	42.22	-0.0011	13.33	-0.0014	5.33	1.2483	33179.50
34	IP170613-1LCS...	3.2722	39640.41	10.2663	75462.94	1.0960	11915.74	3.2093	7251.59	55.2167	1338028.81
35	1705533-2 10X	12.7508	154399.68	0.2406	1727.90	0.0170	202.23	0.0127	35.83	1.6273	41663.87
36	1705533-2L 50X	2.5851	31321.74	0.0477	364.46	0.0026	52.22	0.0008	9.96	0.3413	10517.36
37	1705533-2DUP ...	9.9720	120756.51	0.3757	2693.60	0.0186	220.01	0.0086	27.07	3.1962	78979.89
38	1705533-2MS 10X	12.8893	156077.17	9.3093	67066.94	1.1008	11730.06	3.1465	6968.29	55.0234	1309460.48
39	1705533-2MSD ...	13.6941	165820.43	9.4352	67743.13	1.0564	11220.82	3.1701	6994.25	55.2666	1325834.61
40	1705533-2A 10X	18.4738	223689.53	19.4883	138049.88	2.0219	21165.50	5.8466	12724.87	106.8677	2547903.19
41	1705542-7 10X	3.9850	48270.65	0.2394	1762.35	0.0626	697.80	0.0460	111.16	1.1465	29863.04
42	CCV	2.9816	36122.15	9.7014	70690.45	1.0023	10807.20	2.9330	6569.09	49.4799	1214945.37
43	CCB	-0.0003	20.00	0.0017	30.00	0.0015	40.00	-0.0016	4.67	0.0006	2133.59
44	1705542-8 10X	3.9922	48357.34	0.3123	2284.64	0.1568	1705.68	0.0393	95.78	1.4563	37797.11
45	1705542-9 10X	3.4375	41642.25	2.0898	15087.35	0.0271	312.23	0.0620	145.17	1.4125	36804.90
46	1705542-10 10X	3.7928	45944.11	0.5556	4015.01	0.1660	1786.80	0.0564	132.94	1.4007	36109.76
47	1705542-11 10X	2.8006	33930.41	0.4250	3042.56	0.2334	2475.79	0.0584	135.70	1.4792	37299.09
48	1705542-12 10X	3.1808	38534.18	0.1414	1034.49	0.0116	147.78	0.0455	108.57	1.3987	35812.21
49	1705542-13 10X	3.1433	38079.68	0.1002	737.81	0.0103	133.34	0.0428	102.59	1.3729	35257.88
50	1705542-14 10X	3.8334	46435.30	0.1026	763.37	0.0072	101.12	0.0237	61.26	1.3904	35929.54
51	1705542-15 10X	4.0678	49273.62	0.1280	936.71	0.0073	101.11	0.0404	97.24	1.3813	35301.05
52	1706115-1 10X	7.4519	90245.15	3.7516	26513.35	0.1615	1707.90	1.5882	3453.13	33.8641	810164.57
53	1706115-3 10X	5.9098	71574.59	1.3281	9716.40	0.0436	494.46	0.6419	1447.79	44.9660	1100542.67
54	CCV	2.9035	35176.60	9.5805	69397.99	1.0025	10742.67	3.0380	6765.30	48.5632	1208285.74
55	CCB	0.0014	40.00	0.0016	30.00	0.0007	32.22	-0.0019	4.00	-0.0030	2066.90
56	1706115-4 10X	7.6664	92842.71	3.6474	25986.89	0.1569	1673.45	1.3288	2913.06	43.7904	1072443.50
57	1706115-5 10X	6.7616	81887.19	1.2826	9300.61	0.0826	906.71	0.5345	1196.47	40.0442	976092.17
58	1706115-6 10X	7.0355	85203.55	3.1168	22108.91	0.1230	1311.19	1.1698	2554.70	29.6900	714756.94
59	1706115-7 10X	7.1728	86865.92	1.1706	8465.69	0.0530	588.91	0.5146	1149.22	32.1758	790836.34
60	1706115-8 10X	6.4827	78510.78	1.3814	9999.93	0.0726	798.92	0.6249	1395.08	24.8372	604202.79
61	1706118-1 10X	4.3910	53186.27	0.1978	1440.09	0.0135	167.78	0.0177	47.19	1.9310	49403.27
62	1706118-2 10X	6.5980	79906.63	0.7844	5647.75	0.0173	207.78	0.0595	139.44	1.7546	44447.72

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	5.5987	67808.27	0.5147	3747.16	0.0187	224.45	0.0260	66.30	1.1711	30644.59
64	LCV	0.0465	586.71	0.1975	1431.20	0.0466	516.69	0.2040	456.53	0.9890	26085.82
65	CCV	2.9691	35971.40	9.5343	68563.27	1.0011	10650.39	2.9843	6597.31	49.0416	1200684.85
66	CCB	-0.0019	0.00	0.0004	21.11	0.0000	24.45	-0.0028	2.00	0.0023	2213.60
67	ZZZ	-0.0008	13.33	-0.0012	25.55	-0.0014	27.78	-0.0029	5.33	-0.0595	1510.18
68	IP170613-2MB ...	-0.0008	13.33	0.0008	24.45	-0.0009	14.44	-0.0031	1.33	-0.0178	1653.50
69	IM170613-2LCS...	2.8977	35106.49	9.5333	67965.17	1.0081	10632.58	2.9893	6551.34	48.8111	1177155.63
70	1705603-1 10X	0.0028	56.67	0.8015	5659.96	0.0024	48.89	0.0195	50.11	0.7553	19892.15
71	1705603-1L 50X	-0.0014	6.67	0.1667	1221.18	-0.0003	21.11	0.0047	18.55	0.0096	2310.32
72	1705603-1DUP ...	0.0025	53.33	0.7569	5320.95	0.0009	33.33	0.0196	50.14	-0.0043	1910.25
73	1705603-1MS 10X	3.0489	36937.17	10.7317	75142.41	1.0245	10609.26	3.0197	6497.95	50.4318	1198856.65
74	1705603-1MSD ...	3.0414	36846.82	10.5830	75179.19	1.0051	10563.69	3.0518	6664.69	53.0621	1236823.39
75	1705603-2 10X	0.0000	23.33	0.2231	1572.32	0.0011	34.44	0.0022	12.51	-0.0185	1563.49
76	1705603-3 10X	-0.0014	6.67	0.6030	4338.44	0.0000	24.45	0.0267	66.90	-0.0261	1400.12
77	1705603-4 10X	-0.0014	6.67	0.7557	5462.12	0.0005	30.00	0.0123	35.46	-0.0278	1380.13
78	ICSA	-0.0008	13.33	207.6320	1483217.79	0.0061	87.78	-0.0143	-23.50	0.0174	2473.65
79	ICSAB	3.0061	36419.35	221.0820	1567007.27	1.0162	10657.09	2.9547	6439.64	51.9623	1230580.81
80	CCV	3.0172	36552.81	9.7092	71181.30	1.0106	10960.61	2.9501	6649.07	49.1052	1219425.03
81	CCB	-0.0019	0.00	0.0082	80.00	-0.0001	24.44	-0.0011	5.99	-0.0038	2053.57
82	1705603-5 10X	0.0058	93.34	0.0230	184.45	-0.0012	11.11	0.0071	23.98	-0.0057	1926.88
83	1705603-6 10X	0.0014	40.00	0.0079	73.33	0.0024	48.89	0.0000	7.99	-0.0165	1636.83
84	1705603-7 10X	0.0099	143.34	0.1096	800.03	0.0009	33.33	0.0346	83.92	0.0007	2020.21
85	1706221-1 10X	-0.0008	13.33	0.1955	1432.31	-0.0007	16.66	0.0035	15.86	0.0314	2847.06
86	LCV	0.0454	573.37	0.2010	1503.43	0.0507	577.80	0.1963	453.86	0.9803	26583.81
87	CCV	2.9592	35851.48	9.7454	70152.40	1.0267	10932.81	2.8929	6403.08	49.7994	1214130.92
88	CCB	-0.0017	3.33	0.0012	27.78	0.0006	32.22	-0.0005	7.33	-0.0072	1953.54
89	FP170613-3MB...	-0.0014	6.67	0.0038	45.56	-0.0006	17.78	-0.0025	2.66	0.0309	2850.41
90	IP170613-3MB ...	0.0006	30.00	0.0032	41.11	-0.0007	16.67	-0.0022	3.33	0.0121	2387.00
91	IM170613-3LCS...	3.0426	36860.28	9.5557	70685.54	1.0299	11269.72	2.9443	6696.47	49.3250	1205075.50
92	1706070-1 10X	-0.0011	10.00	0.1623	1191.17	-0.0004	20.00	-0.0032	1.22	0.0264	2787.06
93	1706070-2 10X	0.0008	33.33	0.2659	1907.92	-0.0006	17.78	-0.0007	6.48	0.0057	2240.28

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	-0.0006	16.67	0.5383	3881.64	-0.0005	18.89	-0.0012	5.62	0.0063	2256.96
95	1706089-1 10X	-0.0006	16.67	0.1306	944.49	-0.0007	16.67	-0.0016	4.57	-0.0065	1873.54
96	1706089-1L 50X	-0.0017	3.33	0.0291	227.78	0.0009	33.33	-0.0019	3.98	-0.0238	1496.81
97	1706089-1DUP ...	0.0011	36.67	0.1303	941.15	0.0002	25.55	-0.0025	2.57	-0.0072	1866.87
98	1706089-1MS 10X	3.0768	37274.79	9.8456	70949.20	1.0466	11155.19	3.0052	6656.44	50.0993	1214468.24
99	CCV	2.9247	35433.70	9.7439	69787.25	1.0245	10855.01	3.0135	6635.21	48.6276	1201504.96
100	CCB	-0.0011	10.00	0.0021	33.33	-0.0015	8.89	-0.0031	1.33	-0.0022	2080.23
101	1706089-1MSD ...	2.9752	36045.25	9.9606	70598.75	1.0388	10889.47	2.9895	6514.41	49.3337	1191926.65
102	1706089- 10X	0.0006	30.00	0.1248	911.16	-0.0010	13.33	-0.0019	3.91	0.0145	2423.63
103	1706089-3 10X	0.0019	46.67	0.2433	1754.57	0.0016	41.11	-0.0020	3.83	0.0074	2266.94
104	1706089-4 10X	0.0058	93.34	0.2437	1756.79	0.0038	64.44	0.0005	9.16	0.0081	2293.61
105	1706125-1 10X	-0.0014	6.67	0.0023	34.44	-0.0014	8.89	-0.0034	0.66	-0.0032	2020.23
106	1706125-2 10X	0.0039	70.00	0.3796	2721.39	0.0017	42.22	0.0078	25.06	0.0201	2483.66
107	1706126-1 10X	0.0006	30.00	0.2252	1625.67	0.0014	38.89	-0.0035	0.51	-0.0045	1970.19
108	1706126-2 10X	0.0011	36.67	0.2395	1712.34	0.0033	57.78	-0.0016	4.50	-0.0175	1623.51
109	1706126-3 10X	-0.0011	10.00	0.2200	1572.33	0.0023	47.78	-0.0019	3.85	-0.0136	1710.17
110	1706126-4 10X	0.0003	26.67	0.2143	1562.32	0.0010	34.44	-0.0023	3.18	-0.0192	1580.16
111	CCV	2.9416	35637.47	9.6196	69863.30	1.0077	10827.17	2.9607	6610.53	48.2395	1201464.98
112	CCB	-0.0011	10.00	0.0027	37.78	-0.0014	8.89	-0.0034	0.66	-0.0067	1933.54
113	1706153-1 10X	0.0127	176.68	0.5475	3850.52	0.0062	87.78	0.0036	15.62	0.0246	2617.01
114	1706153-3 10X	0.0140	193.34	0.5324	3744.94	0.0060	85.56	0.0020	12.29	0.0172	2450.32
115	1706192-1 10X	0.0058	93.34	0.3154	2252.41	-0.0009	14.45	-0.0017	4.44	0.0664	3587.25
116	1706197-1 10X	0.0028	56.67	0.3912	2816.96	0.0013	37.78	0.0010	10.39	0.0057	2210.26
117	1706236-1 10X	1.7162	20801.17	0.2517	1770.12	0.0088	114.45	0.0186	47.82	0.1162	4790.94
118	1706236-2 10X	1.7192	20837.68	0.2895	2047.94	0.0379	416.68	0.0589	135.13	0.1096	4607.58
119	1706236-3 100X	15.9440	193060.47	0.1857	1345.64	0.0992	1071.17	0.2441	543.88	0.2263	7612.21
120	LCV	0.0487	613.37	0.1890	1403.42	0.0483	546.69	0.1872	429.87	0.9892	26293.24
121	CCV	2.9336	35540.60	9.5940	69039.88	1.0175	10831.61	2.9635	6555.91	49.6130	1205613.58
122	CCB	-0.0014	6.67	0.0016	30.00	-0.0010	14.45	-0.0013	5.33	-0.0054	1976.89
123	FP170614-3MB...	-0.0006	16.67	0.0023	34.44	0.0001	25.56	-0.0013	5.33	0.0317	2840.41
124	IP170614-3MB ...	-0.0008	13.33	0.0034	42.22	-0.0003	21.11	-0.0019	4.00	0.0021	2106.91

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	2.9617	35881.30	9.5744	69096.70	1.0043	10722.68	2.9834	6619.27	48.4325	1168259.02
126	1705515-1 10X	-0.0014	6.67	0.0729	522.24	-0.0011	12.22	-0.0022	3.28	0.0184	2436.99
127	1705515-1L 50X	0.0006	30.00	0.0189	154.45	0.0002	26.67	0.0044	17.98	0.0193	2540.33
128	1705515-1DUP ...	0.0008	33.33	0.0794	573.36	-0.0007	16.66	-0.0019	3.94	0.0023	2046.90
129	1705515-1MS 10X	3.0097	36462.77	10.0564	69777.45	1.0377	10651.50	3.0945	6600.53	50.5344	1183776.36
130	1705515-1MSD ...	2.9932	36262.22	10.0403	69174.89	1.0341	10540.34	2.9723	6295.79	50.4500	1196361.15
131	1705515-3 10X	0.0113	160.01	0.1066	767.81	0.0003	26.67	-0.0019	3.93	0.0221	2550.34
132	1706185-1 100X	0.0014	40.00	0.0549	392.23	-0.0012	11.11	-0.0018	3.96	-0.0042	1883.53
133	CCV	2.9256	35443.91	9.7340	69564.67	1.0278	10863.89	3.0004	6593.21	49.0626	1197015.58
134	CCB	-0.0008	13.33	0.0005	22.22	-0.0004	20.00	-0.0013	5.33	0.0033	2220.26
135	1706185-3 100X	0.0050	83.34	0.1375	947.82	0.0008	31.11	0.0001	7.91	0.0055	2093.57
136	1706193-1 100X	0.0017	43.33	0.4126	2835.86	-0.0006	16.67	-0.0013	5.05	-0.0146	1633.49
137	1706193-2 100X	0.0006	30.00	0.2394	1665.67	0.0005	27.78	-0.0003	7.17	-0.0082	1813.52
138	1706201-1 10X	3.5974	43577.39	0.2000	1436.75	0.0022	46.67	0.1342	300.53	0.0070	2200.26
139	1706271-1 100X	0.0036	66.67	0.0228	160.01	0.1201	1147.84	0.0799	163.32	-0.0055	1670.18
140	1706271-2 100X	-0.0014	6.67	0.0050	52.22	0.0003	26.67	-0.0006	6.66	-0.0213	1543.49
141	1706286-1 100X	0.0019	46.67	0.0199	157.78	-0.0003	20.00	-0.0031	1.32	-0.0001	2043.57
142	1706286-3 100X	0.0000	23.33	0.1329	951.15	0.0008	32.22	-0.0010	5.91	0.0075	2190.26
143	LCV	0.0496	623.37	0.1962	1440.09	0.0559	622.25	0.1951	442.53	1.0149	26864.20
144	CCV	2.9291	35487.20	9.8245	69458.35	1.0256	10727.10	2.9714	6458.50	48.9642	1180293.47
145	CCB	-0.0011	10.00	0.0024	35.55	-0.0004	20.00	-0.0034	0.66	-0.0095	1876.89

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0026	46.67	0.0035	40.00	-0.0004	23.33	0.0001	213.35	-0.0001	13.33
2	blank	0.0004	30.00	0.0180	70.00	0.0004	43.33	-0.0003	150.01	0.0002	43.33
3	blank	-0.0005	23.33	0.0222	80.00	0.0001	36.67	-0.0003	153.34	0.0000	20.00
4	blank	0.0000	26.67	0.0332	103.34	0.0000	33.33	0.0000	186.68	0.0000	20.00
5	H/1000	0.1055	814.48	0.1637	380.03	0.0355	910.07	0.0304	3657.29	0.0313	4187.45
6	H/100	0.3199	2384.66	1.0120	2173.61	0.3156	7842.33	0.2975	33841.74	0.3020	39826.10
7	H/10	3.0783	22543.12	9.8792	20868.17	2.9329	71704.56	2.8882	324509.39	2.8713	375615.37
8	HIGH	29.9919	217882.74	100.0119	200984.43	30.0065	702642.13	30.0112	3221331.93	30.0129	3752225.67
9	ICV	6.1118	44060.83	20.2790	42028.40	6.1183	145816.86	5.9887	676459.86	6.0054	789942.18
10	ICB	0.0020	40.00	0.0362	106.67	0.0005	46.67	-0.0002	160.01	0.0001	26.67
11	LIV	0.0989	734.47	0.5875	1246.78	0.0552	1350.12	0.0532	6048.16	0.0520	6721.79
12	ICSA	0.0106	101.11	0.2992	623.37	0.0253	620.04	0.0048	700.06	0.0008	120.01
13	ICSAB	3.0004	21919.94	10.6894	20924.96	3.0458	70967.07	2.9510	321136.88	2.9841	378069.16
14	CCV	3.0978	22113.56	10.0736	20664.75	2.9998	71767.82	2.9136	325235.53	2.8711	373157.23
15	CCB	-0.0015	15.56	0.0267	86.67	-0.0003	26.67	-0.0001	166.68	0.0001	33.33
16	1705538-14 100X	0.0245	204.45	19.7870	40888.70	2.7238	65737.43	6.1731	686762.18	0.7576	98142.57
17	IP170612-2RBM...	0.0015	36.67	0.0199	73.33	0.1468	3580.60	0.0080	1116.76	0.0010	160.01
18	IP170612-2MB ...	0.0017	37.78	0.0829	206.68	0.0022	86.67	0.0026	496.70	0.0001	30.00
19	IM170612-2LCS...	3.3055	23761.49	10.9672	22610.95	3.3865	80791.95	3.3047	372610.68	6.4812	850822.07
20	IM170612-2LCS...	3.4385	24273.39	11.1070	22711.06	3.2423	78718.13	3.1214	360191.97	6.2001	832766.26
21	1705316-1 10X	0.0219	180.00	0.1203	283.35	0.0753	1893.54	0.0011	300.02	0.0003	63.33
22	1705316-2 10X	0.0189	160.00	0.1720	386.69	0.0354	890.07	0.0012	323.35	0.0003	63.34
23	1705316-3 10X	0.0009	32.22	0.1340	303.35	0.0930	2313.62	0.0034	556.71	0.0004	73.34
24	1705316-4 10X	0.0040	54.45	0.1790	396.69	0.0979	2390.30	0.0054	780.06	0.0003	60.00
25	1705316-5 10X	0.0048	60.00	0.2385	523.37	0.0791	1963.55	0.0039	616.71	0.0002	46.67
26	CCV	3.1753	22727.78	10.3157	21065.12	3.0379	72126.39	3.0320	332678.33	3.0253	386418.54
27	CCB	0.0036	51.11	0.0142	60.00	0.0013	63.33	0.0000	183.34	0.0001	33.33
28	1705541-6 10X	0.1023	763.75	112.2869	230478.74	3.4075	82582.63	7.3086	807990.69	0.8507	109542.43
29	1705541-6L 50X	0.0053	64.44	22.5579	46859.12	0.6631	16225.87	1.5670	169425.83	0.1843	23221.78
30	LCV	0.1028	770.03	0.5635	1190.10	0.0531	1286.78	0.0558	6331.63	0.0515	6628.43
31	CCV	3.2339	22926.94	10.0718	20621.14	3.0521	72728.89	3.0112	328840.91	3.0287	385107.65

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	0.0010	33.33	0.0144	60.00	-0.0004	23.33	-0.0004	140.01	0.0001	30.00
33	IP170613-1MB ...	0.0010	33.33	0.0396	113.34	0.0014	66.67	0.0001	186.68	0.0000	20.00
34	IP170613-1LCS...	3.4784	24836.57	11.3159	23061.51	3.2778	78922.58	3.3475	365288.67	6.6095	839724.62
35	1705533-2 10X	0.0100	97.78	111.8567	221925.73	10.9042	261186.61	34.9194	3753819.84	4.6568	583210.35
36	1705533-2L 50X	0.0021	41.11	22.0890	43907.09	2.1304	50926.91	7.0096	763861.71	0.9664	122681.92
37	1705533-2DUP ...	0.0139	125.56	103.5222	205700.86	9.5983	229935.93	32.6265	3495312.03	3.9912	498179.90
38	1705533-2MS 10X	0.9907	7221.76	115.4727	227658.56	13.0511	311157.47	34.5474	3682936.09	10.7108	1330198.63
39	1705533-2MSD ...	1.0509	7625.29	131.5217	261521.84	13.1448	312899.90	34.8927	3703305.05	10.9964	1359881.54
40	1705533-2A 10X	6.1081	43843.52	131.5775	260295.59	16.7540	392435.96	41.7068	4394900.04	10.7814	1323330.84
41	1705542-7 10X	0.0603	468.90	163.3896	327587.30	6.9218	166482.11	15.3465	1658454.56	1.9574	246424.33
42	CCV	3.1456	22568.68	10.2689	20781.67	2.9630	70793.73	2.9797	328522.27	3.0017	385360.78
43	CCB	0.0011	33.33	0.0476	126.67	0.0004	43.33	0.0002	206.68	0.0003	63.34
44	1705542-8 10X	0.0506	386.68	274.3781	555580.36	7.0819	168218.00	14.9706	1619755.44	2.0048	252684.18
45	1705542-9 10X	0.0457	350.01	99.7237	200195.71	6.3276	151097.85	13.9190	1504064.35	1.7736	223208.27
46	1705542-10 10X	0.0635	474.46	171.3868	342643.26	6.4747	154018.68	15.2539	1636037.94	1.9653	245516.67
47	1705542-11 10X	0.0710	517.79	213.4582	415473.85	4.3274	102392.19	10.5912	1137666.99	1.4352	179609.12
48	1705542-12 10X	0.0444	335.56	97.7509	194926.03	5.8558	139743.75	12.3410	1334656.10	1.6325	205630.40
49	1705542-13 10X	0.0501	376.68	96.3455	191922.51	5.8471	138107.40	12.1205	1287334.04	1.6222	200669.60
50	1705542-14 10X	0.0787	583.35	104.5478	207595.18	7.3342	173015.55	15.7909	1698245.34	2.0326	254628.55
51	1705542-15 10X	0.0518	393.34	106.5299	211163.27	7.1169	166435.38	15.0163	1611377.64	2.0001	250009.96
52	1706115-1 10X	0.3140	2249.09	1749.4944	3448893.70	9.4033	222092.60	21.0714	2267232.31	2.7213	341074.38
53	1706115-3 10X	0.1954	1436.76	2550.9458	5099901.38	11.1942	264241.03	23.1316	2510517.46	2.7959	353413.44
54	CCV	3.1712	22227.06	10.7282	21666.09	2.9843	71212.77	3.0007	330122.57	2.9877	382695.54
55	CCB	0.0015	35.55	0.0602	153.34	-0.0001	30.00	0.0007	256.68	0.0002	40.00
56	1706115-4 10X	0.2985	2163.51	2008.9378	3980189.32	10.7859	255354.45	24.7226	2683666.63	3.0922	390978.50
57	1706115-5 10X	0.1732	1264.52	2406.6361	4843094.09	11.2517	267370.90	23.3767	2537247.83	2.9494	372762.49
58	1706115-6 10X	0.2363	1712.35	1910.9178	3765242.44	10.1720	237897.54	23.2463	2486509.08	2.9352	365610.26
59	1706115-7 10X	0.1571	1150.06	2626.6930	5238903.99	12.0487	285905.79	24.8226	2692367.46	3.1118	393088.87
60	1706115-8 10X	0.1903	1373.41	2868.5259	5695836.17	11.0882	264715.30	23.3279	2550376.16	2.9250	372479.92
61	1706118-1 10X	0.0255	207.78	53.5085	107315.12	11.0425	260416.64	22.7100	2459227.57	2.6748	337361.23
62	1706118-2 10X	0.0667	494.46	81.9674	161806.70	14.2573	336466.93	29.7137	3206243.39	3.5206	442506.79

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	0.0402	311.12	44.1935	88644.39	13.6932	325590.71	28.3575	3048892.87	3.2838	411152.69
64	LCV	0.1057	761.14	0.6417	1320.13	0.0562	1343.47	0.0564	6328.22	0.0511	6511.70
65	CCV	3.1192	21835.36	10.1286	20124.01	2.9545	69976.05	2.9635	325118.15	2.9631	378548.03
66	CCB	0.0000	25.56	0.0296	90.01	0.0016	70.00	0.0002	200.01	0.0000	23.33
67	ZZZ	-0.0009	54.44	0.0202	210.01	-0.0010	26.67	-0.0011	153.34	-0.0001	13.33
68	IP170613-2MB ...	-0.0012	16.67	0.0619	153.34	0.0030	103.34	0.0053	756.73	0.0007	106.67
69	IM170613-2LCS...	3.1487	21656.26	10.1846	20040.55	3.1280	72394.00	3.1065	331780.85	6.1349	762837.25
70	1705603-1 10X	0.0302	236.67	0.6829	1363.46	0.0073	203.34	0.0536	5818.15	0.0925	11312.26
71	1705603-1L 50X	0.0045	56.66	0.1596	346.69	0.0033	110.01	0.0015	346.69	0.0007	113.34
72	1705603-1DUP ...	0.0245	198.89	0.6617	1310.11	0.0056	163.34	0.0080	1026.75	0.0012	173.35
73	1705603-1MS 10X	3.1363	22053.45	11.5948	22764.30	3.0537	71975.46	3.0067	328096.38	5.9738	759022.88
74	1705603-1MSD ...	3.1859	22699.92	11.8555	23038.05	3.0508	73576.42	3.1102	337789.06	6.1265	774751.81
75	1705603-2 10X	0.0091	90.00	4.5821	8876.29	0.0045	136.68	0.0022	410.03	0.0008	116.67
76	1705603-3 10X	0.0153	136.67	8.8431	17266.99	0.0019	76.67	0.0019	380.02	0.0000	23.33
77	1705603-4 10X	0.0117	110.00	0.2975	620.05	0.0057	170.01	0.0059	826.73	0.0004	63.34
78	ICSA	0.0087	88.89	0.3611	726.72	0.0207	520.03	0.0041	620.05	0.0008	120.01
79	ICSAB	3.0778	22519.63	10.8589	21145.39	3.0771	72300.38	2.9751	324803.63	3.0004	381385.06
80	CCV	3.1743	23002.58	10.5744	21195.22	2.9968	72377.90	2.9720	332291.85	2.9667	386215.12
81	CCB	-0.0014	15.55	0.0259	83.34	0.0001	36.67	-0.0004	136.68	0.0003	56.67
82	1705603-5 10X	0.0071	76.67	7.9564	15648.57	0.0097	260.02	0.0046	676.71	0.0005	76.67
83	1705603-6 10X	0.0018	37.78	0.0585	143.34	0.0030	100.00	0.0012	303.35	0.0002	46.67
84	1705603-7 10X	0.0127	116.67	9.2213	18014.59	0.0139	360.03	0.0358	4010.72	0.0026	346.69
85	1706221-1 10X	0.0301	244.45	0.9289	1876.87	0.0014	66.67	0.0017	366.73	0.0004	73.34
86	LCV	0.1112	822.26	0.5816	1196.76	0.0563	1386.80	0.0537	6101.47	0.0524	6748.44
87	CCV	3.2140	22629.83	10.2672	20270.89	3.0051	71104.89	2.9738	325415.09	3.0066	383054.06
88	CCB	0.0011	32.22	0.0084	46.67	0.0003	40.00	-0.0005	126.67	0.0002	50.00
89	FP170613-3MB...	0.0119	110.00	0.0713	173.34	0.0162	413.36	0.0065	876.74	0.0005	76.67
90	IP170613-3MB ...	0.0010	32.22	0.0353	100.00	0.0005	43.33	0.0005	233.35	0.0001	36.67
91	IM170613-3LCS...	3.1822	22539.73	10.7183	21695.96	3.1448	74785.65	3.2159	345926.05	6.3016	789333.89
92	1706070-1 10X	0.0174	150.00	2.8947	5788.00	0.0010	56.67	0.0008	266.68	0.0004	73.34
93	1706070-2 10X	0.0187	158.89	3.3701	6635.05	0.0030	103.34	0.0027	470.03	0.0007	103.34

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	0.0042	53.33	4.6250	9006.40	0.0016	70.00	0.0011	296.68	0.0004	73.34
95	1706089-1 10X	0.0187	155.56	6.6485	13052.71	0.0016	70.00	0.0017	360.02	0.0003	60.00
96	1706089-1L 50X	0.0032	47.78	1.3705	2730.40	0.0003	40.00	-0.0002	156.68	0.0000	23.33
97	1706089-1DUP ...	0.0165	141.12	6.9638	13446.46	0.0039	120.01	0.0049	690.05	0.0002	46.67
98	1706089-1MS 10X	3.2253	22934.73	17.6246	34569.86	3.0093	71358.78	3.1498	335044.83	6.2132	769505.54
99	CCV	3.1763	22130.25	10.2255	20547.72	3.0521	72015.95	2.9875	325758.25	2.9700	377051.90
100	CCB	-0.0009	18.89	0.0248	80.00	0.0010	56.67	0.0001	193.34	0.0001	33.33
101	1706089-1MSD ...	3.2074	22369.49	17.6664	34383.01	3.1038	72049.38	3.0701	328476.47	6.0916	758900.59
102	1706089- 10X	0.0263	211.12	6.7890	13336.38	0.0009	53.34	0.0017	360.02	0.0005	76.67
103	1706089-3 10X	0.0326	255.56	3.7439	7422.11	0.0008	50.00	0.0024	433.36	0.0004	70.00
104	1706089-4 10X	0.0252	203.34	3.8076	7452.12	0.0066	186.68	0.0149	1790.19	0.0014	193.34
105	1706125-1 10X	0.0014	34.45	0.0370	103.34	0.0009	53.33	0.0013	313.35	0.0001	36.67
106	1706125-2 10X	0.0151	128.89	13.3253	25879.42	0.0072	196.68	0.0143	1686.83	0.0014	186.68
107	1706126-1 10X	0.0552	408.90	6.8497	13282.99	0.0007	46.67	0.0008	266.68	0.0001	36.67
108	1706126-2 10X	0.0190	158.89	7.6134	14777.68	0.0033	110.01	0.0053	740.05	0.0005	80.00
109	1706126-3 10X	0.0587	440.02	6.9244	13596.61	0.0072	200.01	0.0049	690.05	0.0004	70.00
110	1706126-4 10X	0.0159	137.78	7.1926	14077.07	0.0006	46.67	0.0018	363.36	0.0003	60.00
111	CCV	3.2095	22687.67	10.3536	20808.13	2.9944	71226.16	3.0001	326995.82	3.0027	381073.88
112	CCB	0.0001	25.56	0.0523	133.34	-0.0001	30.00	-0.0001	166.68	0.0004	63.34
113	1706153-1 10X	0.0162	136.67	7.4816	14724.43	0.0191	476.70	0.0627	6841.85	0.0058	736.72
114	1706153-3 10X	0.0722	537.80	7.6746	14974.65	0.0186	463.37	0.0639	6985.26	0.0040	516.70
115	1706192-1 10X	0.1225	878.92	6.0123	11598.19	0.0107	280.02	0.0229	2607.04	0.0027	346.69
116	1706197-1 10X	0.0211	172.22	3.8239	7518.80	0.0092	246.68	0.0105	1306.78	0.0015	203.35
117	1706236-1 10X	0.0397	303.34	18.1181	34880.47	4.3124	100303.26	10.0040	1058492.56	1.1093	136753.84
118	1706236-2 10X	0.0695	516.68	41.5904	81451.33	2.3564	54163.03	5.7054	610852.84	0.7679	95762.67
119	1706236-3 100X	0.0056	65.56	215.7032	422986.85	29.4879	691876.99	59.9094	6442826.78	6.7005	839339.02
120	LCV	0.1120	822.26	0.5743	1163.43	0.0561	1343.46	0.0589	6571.79	0.0514	6518.34
121	CCV	3.1947	22180.38	10.3221	20491.09	2.9766	70953.99	2.9988	324174.49	2.9898	376350.11
122	CCB	-0.0010	18.89	0.0235	76.67	0.0005	43.33	0.0005	233.35	0.0003	53.33
123	FP170614-3MB...	0.0487	362.23	0.0658	160.01	0.0019	76.67	0.0019	376.69	0.0004	63.34
124	IP170614-3MB ...	0.0018	37.78	0.0662	160.01	0.0046	140.01	0.0008	263.35	0.0001	36.67

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	3.1364	22207.02	10.7865	21202.10	3.1023	72658.56	3.1044	327867.86	6.1834	760365.85
126	1705515-1 10X	0.0028	46.67	65.0458	126337.09	0.0024	86.67	0.0047	670.04	0.0006	90.01
127	1705515-1L 50X	0.0100	96.67	12.4781	24754.21	0.0075	210.01	0.0171	2036.90	0.0019	256.68
128	1705515-1DUP ...	0.0013	35.56	67.0209	129691.36	0.0030	100.01	0.0028	466.69	0.0003	53.33
129	1705515-1MS 10X	3.0315	22195.94	75.7657	147849.61	3.0991	71982.42	3.1211	327237.76	6.1810	754493.97
130	1705515-1MSD ...	3.0059	21977.92	75.8016	146663.57	3.1715	72356.49	3.1691	333529.45	6.2509	766023.17
131	1705515-3 10X	0.0001	26.67	74.4282	144925.64	0.0032	103.34	0.0028	473.37	0.0007	110.01
132	1706185-1 100X	0.0025	42.22	585.5758	1112493.24	0.0039	120.01	0.0000	173.34	0.0003	50.00
133	CCV	3.1624	22134.73	10.3772	20611.34	3.0322	70998.25	2.9943	326488.01	2.9629	376224.46
134	CCB	-0.0017	13.33	0.0264	83.34	0.0009	53.33	0.0003	210.01	0.0000	23.33
135	1706185-3 100X	0.0022	40.00	631.9232	1213919.93	0.0047	136.67	0.0017	350.02	0.0002	46.67
136	1706193-1 100X	0.0011	32.22	259.7010	497852.39	0.0052	150.01	0.0003	196.68	-0.0001	10.00
137	1706193-2 100X	0.2974	2103.50	226.7760	437471.52	0.0022	80.00	0.0048	670.04	0.0005	76.67
138	1706201-1 10X	0.1476	1066.72	9.6665	18879.02	3.0304	71239.15	7.7501	831218.81	0.9400	117426.45
139	1706271-1 100X	0.1150	797.81	12.6011	21722.90	0.0066	170.01	0.1633	16096.92	0.0205	2350.33
140	1706271-2 100X	-0.0003	23.33	13.8975	27502.32	0.0001	33.33	0.0003	213.34	0.0000	20.00
141	1706286-1 100X	0.0041	53.33	184.5800	361820.91	0.0030	100.01	0.0008	263.35	0.0004	70.00
142	1706286-3 100X	0.2385	1683.45	45.2474	87534.69	0.0030	100.03	0.0018	366.69	0.0002	40.00
143	LCV	0.1070	761.14	0.6399	1306.80	0.0589	1396.81	0.0561	6171.52	0.0533	6655.08
144	CCV	3.1766	21976.67	10.0424	19840.28	2.9973	69607.78	2.9597	316314.83	2.9729	369950.06
145	CCB	0.0017	36.66	0.0184	66.67	-0.0001	30.00	-0.0002	156.68	0.0001	36.67

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	-0.0005	13.33	0.0005	25.24	-0.0276	1136.76	0.0003	35.56	0.0005	33.33
2	blank	0.0003	30.00	0.0003	21.43	-0.0191	1330.12	0.0001	28.89	-0.0002	14.44
3	blank	-0.0003	16.67	-0.0002	12.38	-0.0293	1070.09	-0.0001	22.22	0.0001	21.11
4	blank	0.0000	23.33	0.0000	15.71	-0.0190	1330.11	0.0000	25.56	0.0000	18.89
5	H/1000	0.0333	793.39	0.0023	57.62	0.0359	2726.95	0.0083	247.78	0.0102	284.45
6	H/100	0.3045	7008.60	0.0206	390.48	0.4982	14406.80	0.0903	2434.69	0.1069	2788.09
7	H/10	2.8684	65306.77	0.1997	3607.13	5.0387	127637.76	0.9339	24862.60	0.9659	24980.55
8	HIGH	30.0131	653090.12	2.0000	33916.28	49.9962	1178483.82	10.0067	253423.90	10.0033	246191.67
9	ICV	5.8490	133941.96	0.4038	7187.02	10.4753	260218.21	1.9302	50399.63	1.9709	50017.01
10	ICB	-0.0010	0.00	-0.0002	12.38	-0.0257	1156.77	0.0001	27.78	0.0001	20.00
11	LIV	0.0533	1213.44	0.0102	198.10	0.1838	6380.92	0.0179	492.24	0.0101	275.56
12	ICSA	0.0037	103.34	0.0003	20.00	-0.0148	1350.11	0.0006	40.00	0.0008	36.67
13	ICSAB	2.9384	64804.79	0.2047	3489.96	5.1285	122567.80	1.0248	25267.73	1.0322	24725.69
14	CCV	2.8873	65340.83	0.1996	3599.50	4.9236	124530.74	0.9489	24516.47	0.9970	25030.62
15	CCB	-0.0002	16.67	-0.0002	12.38	-0.0252	1143.43	-0.0002	20.00	0.0000	17.78
16	1705538-14 100X	2.8892	65155.94	0.0442	825.27	2.2723	59614.26	0.9605	25016.16	11.2848	285508.84
17	IP170612-2RBM...	0.0022	73.34	0.0085	174.29	-0.0115	1543.47	0.0005	37.78	0.0000	18.89
18	IP170612-2MB ...	0.0004	33.33	-0.0005	6.67	0.0266	2540.27	0.0003	32.22	-0.0001	16.67
19	IM170612-2LCS...	3.2622	74548.74	0.2249	4074.88	5.4948	139442.33	1.0454	27153.38	1.0878	27453.91
20	IM170612-2LCS...	3.1449	73587.38	0.2186	3953.89	5.4215	137394.89	1.0448	26907.38	1.0997	27512.92
21	1705316-1 10X	-0.0007	6.67	-0.0002	11.90	-0.0064	1670.16	0.0009	50.00	0.0019	67.78
22	1705316-2 10X	0.0007	40.00	0.0276	527.63	319.1290	8217841.29	0.0004	35.55	0.0020	68.89
23	1705316-3 10X	0.0012	50.00	0.0164	320.48	181.7799	4671034.31	0.0000	25.56	0.0020	67.78
24	1705316-4 10X	0.0006	36.67	0.0334	630.50	447.6725	11408905.56	0.0007	43.33	0.0030	94.44
25	1705316-5 10X	0.0022	73.33	0.0105	213.34	122.4873	3180919.38	-0.0001	23.33	0.0037	113.34
26	CCV	3.0053	66816.92	0.2018	3640.00	5.1031	129034.77	0.9662	24850.42	1.0328	25812.12
27	CCB	-0.0001	20.00	-0.0006	4.76	0.0057	1936.86	-0.0001	21.11	0.0005	30.00
28	1705541-6 10X	3.0983	69441.15	0.0104	204.29	1.9760	51815.50	0.7785	20156.42	0.4769	12003.97
29	1705541-6L 50X	0.6946	15224.90	0.0020	52.86	0.3955	11959.25	0.1105	2915.90	0.0950	2433.58
30	LCV	0.0503	1146.76	0.0097	192.39	0.1965	6777.79	0.0185	504.46	0.0110	295.56
31	CCV	3.0153	66750.15	0.2029	3695.72	5.0710	129499.16	0.9870	25448.11	1.0169	25478.05

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCB	-0.0003	16.67	-0.0005	7.14	-0.0068	1636.83	0.0000	25.56	0.0001	20.00
33	IP170613-1MB ...	0.0011	46.67	-0.0004	8.09	0.1086	4593.87	0.0007	43.33	-0.0004	8.89
34	IP170613-1LCS...	3.3032	73051.23	0.2267	4058.68	5.6075	140638.53	1.0265	26361.88	1.1122	27750.08
35	1705533-2 10X	20.6779	450683.65	0.1744	3114.16	10.5075	260971.64	6.2959	157414.22	0.4213	10255.95
36	1705533-2L 50X	4.3460	96056.41	0.0343	630.49	2.0871	53721.41	1.2260	30709.31	0.0768	1884.59
37	1705533-2DUP ...	17.1972	373592.53	0.1733	3120.83	10.0094	250873.68	6.1779	154716.50	0.3938	9598.83
38	1705533-2MS 10X	20.6186	445621.31	0.3836	6776.35	14.0112	344696.15	7.3734	183171.94	1.4985	36199.63
39	1705533-2MSD ...	21.5633	463988.62	0.3831	6807.80	14.9647	370299.19	7.4751	187303.87	1.5051	36669.60
40	1705533-2A 10X	27.0702	578430.04	0.5729	10022.49	20.5296	499738.60	8.3448	208006.70	2.4396	59120.99
41	1705542-7 10X	7.6811	168250.15	0.0320	595.73	4.2278	108145.49	1.6533	41787.84	1.2894	31678.78
42	CCV	3.0248	67590.02	0.2061	3675.72	5.0953	127458.09	0.9973	25421.38	1.0355	25645.07
43	CCB	0.0000	23.33	-0.0003	9.52	-0.0074	1616.84	0.0002	28.89	0.0000	18.89
44	1705542-8 10X	7.8390	171972.80	0.0407	742.88	4.4057	111092.98	1.6838	42993.75	2.3960	59444.59
45	1705542-9 10X	6.9617	152472.38	0.0448	812.89	4.2791	107547.13	1.4564	36866.86	1.1797	29027.80
46	1705542-10 10X	7.7545	168588.53	0.1034	1861.56	8.1869	204757.09	1.7964	45287.32	4.6807	114639.60
47	1705542-11 10X	5.8333	127022.01	0.1381	2451.65	6.9834	172795.22	1.5288	37519.65	6.3240	150778.70
48	1705542-12 10X	6.2968	138010.41	0.0270	500.01	3.5718	90719.50	1.4154	35590.37	1.1100	27128.60
49	1705542-13 10X	6.2690	135023.59	0.0246	456.68	3.4954	88901.85	1.3808	34690.47	1.1085	27070.72
50	1705542-14 10X	7.8503	171148.47	0.0350	641.92	3.7475	94903.11	1.9878	49766.43	0.2687	6552.67
51	1705542-15 10X	7.7280	168096.94	0.0309	562.87	3.0711	77372.81	1.6986	42448.74	0.4755	11560.26
52	1706115-1 10X	11.2610	245618.11	0.3765	6676.30	11.7884	291389.46	4.3127	107146.43	2.2144	53475.87
53	1706115-3 10X	10.6205	233645.68	0.2082	3776.69	8.1293	205694.14	3.2596	82160.71	1.0760	26373.91
54	CCV	3.0147	67225.03	0.2041	3639.04	5.0913	127252.49	0.9849	25056.25	1.0248	25339.01
55	CCB	0.0000	23.33	-0.0004	8.57	-0.0046	1660.16	0.0000	25.55	0.0004	28.89
56	1706115-4 10X	12.5142	275405.55	0.3227	5704.94	12.2138	300822.55	4.4775	111801.79	1.9677	47764.54
57	1706115-5 10X	11.5448	253998.24	0.1989	3606.17	8.1119	205206.13	3.6494	92568.59	0.9949	24544.07
58	1706115-6 10X	11.8894	257750.42	0.3293	5849.77	11.1990	277335.56	4.2667	105967.02	1.8979	45825.07
59	1706115-7 10X	11.9196	262087.15	0.1784	3250.38	8.5129	216134.80	3.9942	100413.24	1.0205	24953.57
60	1706115-8 10X	11.3190	250882.71	0.1970	3564.73	8.0380	202839.16	3.5788	89563.17	1.0980	26722.27
61	1706118-1 10X	9.9491	218484.92	0.0435	794.32	5.5620	139939.36	3.1976	80805.70	0.4315	10613.99
62	1706118-2 10X	13.4542	294330.77	0.0987	1779.17	6.5822	165179.65	4.0526	100812.48	0.7988	19327.36

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1706118-3 10X	12.3316	268819.33	0.0487	891.46	5.3715	136089.70	3.9419	99616.91	0.4875	11988.41
64	LCV	0.0546	1226.78	0.0105	201.91	0.1926	6497.60	0.0181	482.24	0.0122	317.79
65	CCV	2.9641	65933.51	0.2020	3592.36	4.9893	124410.38	0.9801	24515.39	1.0205	24802.51
66	CCB	-0.0001	20.00	-0.0003	10.95	-0.0061	1633.51	-0.0003	15.56	0.0000	17.78
67	ZZZ	-0.0007	16.67	-0.0007	7.14	-0.0183	3907.38	-0.0003	47.78	-0.0006	7.78
68	IP170613-2MB ...	0.0026	80.00	-0.0006	4.28	-0.0038	1660.17	0.0001	25.56	-0.0004	8.89
69	IM170613-2LCS...	3.0669	66391.71	0.2125	3690.01	5.1735	125946.60	0.9578	23727.41	1.0301	24794.67
70	1705603-1 10X	0.0495	1076.77	0.0479	837.65	-0.0164	1310.11	0.0024	83.34	0.0119	302.23
71	1705603-1L 50X	0.0016	56.67	0.0085	165.72	-0.0172	1330.11	0.0004	33.33	0.0019	64.44
72	1705603-1DUP ...	0.0048	126.68	0.0444	785.26	-0.0211	1213.44	0.0002	27.78	0.0106	268.89
73	1705603-1MS 10X	3.0099	66575.47	0.2516	4331.14	5.0281	121558.68	0.9741	24089.08	1.0271	24682.30
74	1705603-1MSD ...	3.0698	67569.90	0.2527	4349.71	5.0536	122079.15	1.0073	24670.10	1.0482	24949.33
75	1705603-2 10X	0.0011	46.67	0.0089	161.43	-0.0113	1383.46	0.0003	30.00	0.3651	8652.69
76	1705603-3 10X	0.0006	36.67	0.0592	1037.18	-0.0134	1390.12	-0.0001	22.22	0.0253	621.13
77	1705603-4 10X	0.0004	30.00	0.0350	624.30	-0.0214	1210.11	0.0001	25.56	0.0169	427.79
78	ICSA	0.0029	86.67	0.0001	16.67	-0.0073	1520.13	0.0005	36.67	-0.0002	13.34
79	ICSAB	2.9588	65477.31	0.2108	3579.97	5.0489	120287.04	1.0375	25443.63	1.0451	24908.22
80	CCV	2.9894	67750.70	0.2010	3556.64	5.0552	125472.38	0.9943	25087.44	1.0227	25081.88
81	CCB	0.0000	23.33	-0.0005	7.14	-0.0177	1340.13	-0.0001	22.22	0.0005	30.00
82	1705603-5 10X	0.0023	73.34	0.0019	48.57	-0.0173	1320.11	0.0003	32.22	0.1521	3674.97
83	1705603-6 10X	-0.0002	16.67	-0.0004	8.09	-0.0005	1700.15	0.0003	30.00	-0.0001	15.56
84	1705603-7 10X	0.0099	236.68	0.0114	210.48	-0.0111	1436.80	0.0019	70.00	0.1676	4020.63
85	1706221-1 10X	0.0021	70.00	-0.0002	10.95	-0.0034	1670.15	-0.0005	12.22	0.4870	11883.86
86	LCV	0.0509	1160.10	0.0097	186.67	0.2056	6761.05	0.0178	474.46	0.0109	286.67
87	CCV	2.9958	66445.11	0.2065	3647.14	5.0998	126322.44	0.9881	24584.40	1.0461	25295.67
88	CCB	0.0002	26.67	-0.0003	9.05	-0.0298	1030.08	0.0005	35.55	-0.0003	11.11
89	FP170613-3MB...	0.0005	33.33	-0.0005	6.19	-0.0187	1276.77	0.0003	32.22	-0.0001	15.56
90	IP170613-3MB ...	-0.0002	16.67	-0.0005	5.71	-0.0330	943.41	-0.0003	15.56	0.0000	17.78
91	IM170613-3LCS...	3.1539	68761.58	0.2187	3854.81	5.1861	128241.17	0.9916	25283.33	1.0234	25363.56
92	1706070-1 10X	0.0015	56.67	-0.0001	12.86	0.0255	2386.90	0.0000	24.44	0.3019	7369.74
93	1706070-2 10X	0.0004	30.00	-0.0004	9.05	0.0506	3000.30	0.0004	34.44	0.2370	5703.42

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	1706087-1 10X	0.0001	23.33	-0.0001	13.34	-0.0292	1026.74	-0.0002	18.89	0.1466	3503.81
95	1706089-1 10X	0.0007	36.67	-0.0003	9.52	-0.0284	1023.41	-0.0002	18.89	0.4519	10860.87
96	1706089-1L 50X	-0.0008	3.33	-0.0005	7.14	-0.0364	853.38	0.0002	30.00	0.0866	2111.31
97	1706089-1DUP ...	0.0009	40.00	-0.0004	8.57	-0.0286	1026.74	-0.0005	12.22	0.4736	11196.70
98	1706089-1MS 10X	3.1270	67422.65	0.1998	3508.53	5.1053	125603.31	0.9981	24672.26	1.5254	36632.67
99	CCV	3.0010	66325.30	0.1970	3513.30	5.0750	126851.67	0.9666	24458.56	1.0227	25148.64
100	CCB	-0.0008	3.33	-0.0005	6.67	-0.0250	1136.76	-0.0001	21.11	-0.0002	12.22
101	1706089-1MSD ...	3.0938	67084.89	0.2086	3599.51	5.1770	125224.63	0.9980	24488.62	1.5032	35828.63
102	1706089- 10X	0.0008	40.00	-0.0001	13.33	-0.0201	1236.78	0.0003	30.00	0.4784	11505.81
103	1706089-3 10X	0.0019	63.33	-0.0002	11.43	-0.0259	1116.75	-0.0001	21.11	0.3452	8363.65
104	1706089-4 10X	0.0051	133.34	0.0000	14.76	0.0215	2293.56	0.0015	60.00	0.3615	8646.00
105	1706125-1 10X	0.0002	26.67	-0.0004	8.09	-0.0267	1106.75	-0.0001	22.22	0.0009	40.00
106	1706125-2 10X	0.0057	143.34	0.0006	24.29	7.9247	188514.16	0.0023	80.00	5.6502	134247.70
107	1706126-1 10X	0.0014	53.33	0.0000	14.28	-0.0204	1223.46	0.0001	25.55	0.8204	19462.07
108	1706126-2 10X	0.0010	43.33	0.0002	18.57	-0.0258	1103.43	0.0001	26.67	0.7972	18930.26
109	1706126-3 10X	0.0021	66.67	-0.0001	12.86	-0.0297	1000.08	0.0002	27.78	0.4089	9830.09
110	1706126-4 10X	0.0002	26.67	-0.0002	10.95	-0.0320	943.40	0.0002	27.78	0.4117	9866.82
111	CCV	3.0153	66615.79	0.1993	3558.07	5.0443	126323.07	0.9868	24975.04	1.0320	25380.14
112	CCB	-0.0002	16.67	-0.0003	10.48	-0.0255	1126.77	0.0004	33.33	0.0000	18.89
113	1706153-1 10X	0.0196	443.36	0.0003	20.95	-0.0172	1316.79	0.0043	130.00	0.7664	18455.17
114	1706153-3 10X	0.0160	366.69	0.0011	33.81	-0.0235	1156.76	0.0031	100.00	0.7626	18200.38
115	1706192-1 10X	0.0075	183.34	-0.0002	10.48	-0.0073	1506.79	0.0015	58.89	0.9016	21272.33
116	1706197-1 10X	0.0004	30.00	0.0001	17.14	-0.0185	1296.77	0.0000	24.45	0.0898	2170.19
117	1706236-1 10X	4.0840	87630.94	0.0205	360.48	1.3897	34284.13	1.1855	28758.60	0.3164	7471.99
118	1706236-2 10X	3.1864	69154.05	0.0776	1338.17	2.4631	60016.59	0.9046	22344.09	0.7775	18662.03
119	1706236-3 100X	24.5077	53437.22	0.2442	4302.55	25.4243	621325.42	9.0636	223997.46	4.8424	116326.89
120	LCV	0.0528	1183.44	0.0110	207.62	0.1980	6520.96	0.0166	437.79	0.0102	264.45
121	CCV	3.0405	66602.65	0.2013	3513.30	5.0772	124290.82	0.9767	24417.44	1.0302	25028.47
122	CCB	-0.0001	20.00	-0.0003	10.47	-0.0294	1033.41	0.0001	25.55	-0.0002	12.22
123	FP170614-3MB...	0.0013	50.00	-0.0006	4.76	-0.0201	1243.45	0.0005	36.67	0.0009	38.89
124	IP170614-3MB ...	0.0013	50.00	-0.0006	4.76	-0.0239	1146.75	0.0000	23.33	-0.0004	7.78

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	IM170614-3LCS...	3.0747	65819.09	0.2118	3676.67	5.1054	124277.21	0.9981	24711.27	1.0427	25086.39
126	1705515-1 10X	0.0007	36.67	-0.0003	9.05	-0.0250	1093.42	0.0004	34.44	0.0038	108.89
127	1705515-1L 50X	0.0032	93.34	-0.0001	12.86	0.0192	2183.54	-0.0002	18.89	0.0016	56.67
128	1705515-1DUP ...	0.0006	33.33	-0.0003	9.52	-0.0272	1040.08	0.0002	27.78	0.0033	95.56
129	1705515-1MS 10X	3.1507	66953.75	0.2109	3589.50	5.0585	120692.05	1.0024	24665.60	1.0298	24623.33
130	1705515-1MSD ...	3.1108	66381.59	0.2077	3507.11	5.1252	121336.40	1.0076	24584.33	1.0289	24391.74
131	1705515-3 10X	0.0038	103.34	-0.0004	7.14	-0.0188	1233.44	0.0007	41.11	0.0036	102.22
132	1706185-1 100X	0.0003	26.67	0.0010	30.48	-0.0307	940.07	-0.0003	16.66	-0.0003	11.11
133	CCV	2.9761	65782.46	0.2052	3584.74	5.0521	123861.76	0.9782	24476.43	1.0404	25299.01
134	CCB	-0.0004	13.33	-0.0006	5.24	-0.0232	1190.10	0.0004	33.33	0.0000	17.78
135	1706185-3 100X	0.0017	56.67	0.0019	46.67	-0.0057	1526.80	0.0003	31.11	0.0002	22.22
136	1706193-1 100X	0.0007	36.67	0.0162	284.29	-0.0265	1033.42	0.0006	37.78	0.0003	23.33
137	1706193-2 100X	0.0023	70.00	0.0112	200.48	-0.0139	1336.78	0.0016	61.11	0.0024	73.33
138	1706201-1 10X	3.9445	85774.20	0.0207	369.05	3.2684	79279.55	0.8554	21039.93	4.3393	103648.47
139	1706271-1 100X	0.0776	1556.84	0.6902	10363.20	3.2625	69433.89	0.0029	83.33	0.0088	202.23
140	1706271-2 100X	0.0007	36.67	0.0002	19.05	0.0030	1786.83	0.0005	35.56	-0.0003	10.00
141	1706286-1 100X	-0.0005	10.00	0.0003	19.52	-0.0198	1230.12	-0.0003	16.66	0.0002	22.22
142	1706286-3 100X	0.0005	33.33	0.0000	15.24	-0.0190	1223.43	0.0002	28.89	0.0354	855.59
143	LCV	0.0472	1046.75	0.0105	197.62	0.1810	6120.86	0.0177	468.90	0.0095	250.01
144	CCV	3.0274	65587.60	0.2065	3549.98	5.1472	124083.67	0.9858	24514.26	1.0294	24879.32
145	CCB	0.0001	23.33	-0.0004	7.62	-0.0337	916.73	0.0001	25.56	0.0000	16.67

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	67962752.32		3827416.92	100.0	260851.59	100.0	1852546.90	100.0	117335.54	100.0
2	blank	66062982.35		3669201.20	100.0	256508.53	100.0	1814384.92	100.0	117047.01	100.0
3	blank	65341050.69		3637220.88	100.0	257031.06	100.0	1798808.88	100.0	116231.89	100.0
4	blank	65309640.69		3577184.32	100.0	258989.22	100.0	1780533.57	100.0	116227.95	100.0
5	H/1000	64870872.36		3586973.07	100.3	257257.18	99.3	1780140.81	100.0	116610.87	100.3
6	H/100	64087372.38		3571832.65	99.9	256152.96	98.9	1759575.34	98.8	115212.50	99.1
7	H/10	63081857.39		3503062.66	97.9	254644.98	98.3	1730832.27	97.2	114291.81	98.3
8	HIGH	63662090.72		3375185.68	94.4	248985.48	96.1	1695562.73	95.2	113525.69	97.7
9	ICV	63883249.05		3476218.91	97.2	248851.06	96.1	1711732.73	96.1	112604.17	96.9
10	ICB	63153602.39		3465789.84	96.9	251461.62	97.1	1728648.36	97.1	112529.28	96.8
11	LIV	61799052.41		3450196.09	96.5	247662.62	95.6	1717298.10	96.4	111945.51	96.3
12	ICSA	61827382.41		3429695.26	95.9	243051.11	93.8	1704236.95	95.7	111236.52	95.7
13	ICSAB	62504152.40		3365411.72	94.1	247337.98	95.5	1684768.26	94.6	114023.28	98.1
14	CCV	63535597.38		3514366.61	98.2	250446.55	96.7	1721848.31	96.7	111428.20	95.9
15	CCB	62054280.74		3472465.99	97.1	248251.47	95.9	1712151.07	96.2	113557.15	97.7
16	1705538-14 100X	61875732.41		3501704.95	97.9	252143.62	97.4	1716700.76	96.4	113546.21	97.7
17	IP170612-2RBM...	64416777.37		3635319.63	101.6	249015.30	96.1	1740693.78	97.8	112137.79	96.5
18	IP170612-2MB ...	66217310.68		3643021.82	101.8	249653.24	96.4	1778870.91	99.9	112146.80	96.5
19	IM170612-2LCS...	64339810.71		3612248.07	101.0	247563.74	95.6	1795765.96	100.9	112206.33	96.5
20	IM170612-2LCS...	64129987.38		3529687.03	98.7	245699.79	94.9	1754422.37	98.5	110197.78	94.8
21	1705316-1 10X	62794130.73		3506630.26	98.0	245703.58	94.9	1703435.13	95.7	110344.90	94.9
22	1705316-2 10X	63157195.73		3539461.20	98.9	246423.57	95.1	1731945.81	97.3	111109.65	95.6
23	1705316-3 10X	62664577.40		3472304.95	97.1	247657.60	95.6	1700899.56	95.5	111008.58	95.5
24	1705316-4 10X	62627495.73		3426249.74	95.8	246920.95	95.3	1707514.51	95.9	111395.23	95.8
25	1705316-5 10X	62834114.07		3454355.16	96.6	247964.11	95.7	1684818.41	94.6	111092.04	95.6
26	CCV	61534745.75		3380414.53	94.5	245322.67	94.7	1603308.99	90.0	111717.02	96.1
27	CCB	61885009.08		3443818.28	96.3	244279.97	94.3	1725937.58	96.9	110502.71	95.1
28	1705541-6 10X	61729564.08		3474420.36	97.1	250782.53	96.8	1690435.86	94.9	112259.65	96.6
29	1705541-6L 50X	61001232.42		3358648.18	93.9	250683.47	96.8	1678283.52	94.3	113526.71	97.7
30	LCV	62079634.07		3427579.12	95.8	244841.35	94.5	1695162.89	95.2	113286.91	97.5
31	CCV	61512285.75		3383678.91	94.6	244470.26	94.4	1648512.48	92.6	110652.99	95.2

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCB	60953335.76		3441155.16	96.2	245290.87	94.7	1705155.18	95.8	112636.36	96.9
33	IP170613-1MB ...	60778957.43		3399815.68	95.0	246858.01	95.3	1665738.62	93.6	112637.08	96.9
34	IP170613-1LCS...	61747387.41		3379387.76	94.5	246580.42	95.2	1666422.27	93.6	111448.85	95.9
35	1705533-2 10X	61279512.42		3545687.34	99.1	261614.37	101.0	1675702.32	94.1	112858.81	97.1
36	1705533-2L 50X	60521267.43		3427637.56	95.8	249928.40	96.5	1682941.49	94.5	112193.36	96.5
37	1705533-2DUP ...	61292605.75		3555876.62	99.4	262291.80	101.3	1683041.12	94.5	111985.63	96.4
38	1705533-2MS 10X	61543255.75		3555525.26	99.4	265712.41	102.6	1692537.26	95.1	113495.85	97.6
39	1705533-2MSD ...	61655734.08		3538180.57	98.9	261882.89	101.1	1677928.15	94.2	112972.30	97.2
40	1705533-2A 10X	61730089.08		3499485.57	97.8	260700.67	100.7	1673048.00	94.0	112109.97	96.5
41	1705542-7 10X	61317159.09		3396967.14	95.0	248559.58	96.0	1697213.93	95.3	114623.44	98.6
42	CCV	62356267.41		3445284.84	96.3	246529.00	95.2	1633680.81	91.8	112006.03	96.4
43	CCB	61233612.42		3428507.24	95.8	244107.77	94.3	1706066.64	95.8	111905.52	96.3
44	1705542-8 10X	61320767.42		3415023.80	95.5	249698.69	96.4	1676032.84	94.1	111580.25	96.0
45	1705542-9 10X	61034822.42		3402151.62	95.1	249802.86	96.5	1659644.87	93.2	111092.51	95.6
46	1705542-10 10X	60978612.42		3382359.12	94.6	251431.27	97.1	1656202.06	93.0	110491.13	95.1
47	1705542-11 10X	60568145.77		3333172.24	93.2	243540.13	94.0	1632038.31	91.7	108733.02	93.6
48	1705542-12 10X	60689920.76		3348419.64	93.6	245892.07	94.9	1653242.63	92.9	109173.83	93.9
49	1705542-13 10X	60803637.43		3350496.62	93.7	244841.91	94.5	1643064.87	92.3	109726.29	94.4
50	1705542-14 10X	60602384.10		3362649.84	94.0	245833.30	94.9	1671664.09	93.9	110746.50	95.3
51	1705542-15 10X	61118765.76		3392680.88	94.8	244845.79	94.5	1644526.54	92.4	111159.05	95.6
52	1706115-1 10X	61064075.76		3430144.53	95.9	247147.85	95.4	1657163.26	93.1	110612.54	95.2
53	1706115-3 10X	61980355.74		3443344.32	96.3	250677.05	96.8	1684632.47	94.6	112835.17	97.1
54	CCV	62634850.73		3443187.24	96.3	243528.87	94.0	1663663.67	93.4	109394.28	94.1
55	CCB	61760604.08		3429734.01	95.9	242249.73	93.5	1708602.11	96.0	109938.55	94.6
56	1706115-4 10X	61637335.75		3473990.47	97.1	250402.35	96.7	1685024.87	94.6	111921.08	96.3
57	1706115-5 10X	61762610.74		3411681.41	95.4	252759.90	97.6	1675810.13	94.1	111800.09	96.2
58	1706115-6 10X	60899432.43		3430334.95	95.9	249574.16	96.4	1658804.82	93.2	111562.79	96.0
59	1706115-7 10X	61630390.75		3435246.51	96.0	252494.76	97.5	1662993.83	93.4	111787.81	96.2
60	1706115-8 10X	61570775.75		3418019.84	95.6	250886.98	96.9	1679632.22	94.3	110677.08	95.2
61	1706118-1 10X	62309937.41		3506024.22	98.0	251338.39	97.0	1682696.74	94.5	111546.61	96.0
62	1706118-2 10X	61633094.08		3497565.37	97.8	251567.39	97.1	1675880.13	94.1	109918.54	94.6

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1706118-3 10X	60755199.09		3428517.14	95.8	251213.22	97.0	1667182.27	93.6	111105.81	95.6
64	LCV	61125580.76		3407224.53	95.2	239271.50	92.4	1695405.34	95.2	108784.56	93.6
65	CCV	61499604.09		3405514.64	95.2	241150.19	93.1	1712977.99	96.2	109259.99	94.0
66	CCB	62473247.40		3467344.84	96.9	245947.33	95.0	1721251.85	96.7	109645.69	94.3
67	ZZZ	1.51698E+08		8296383.00	231.9	699900.33	270.2	4093849.00	229.9	316334.70	272.2
68	IP170613-2MB ...	61319894.09		3377721.93	94.4	244517.94	94.4	1685834.51	94.7	108686.33	93.5
69	IM170613-2LCS...	59938789.11		3311586.41	92.6	234613.84	90.6	1622624.98	91.1	107357.10	92.4
70	1705603-1 10X	60951535.76		3313585.16	92.6	238762.01	92.2	1675409.40	94.1	109642.68	94.3
71	1705603-1L 50X	61602615.75		3434513.60	96.0	242021.63	93.4	1685335.70	94.7	109222.19	94.0
72	1705603-1DUP ...	60876370.76		3371183.18	94.2	241957.37	93.4	1667406.43	93.6	110881.85	95.4
73	1705603-1MS 10X	61998120.74		3468170.05	97.0	240301.78	92.8	1771427.63	99.5	109773.07	94.4
74	1705603-1MSD ...	61794109.08		3328823.39	93.1	242044.34	93.5	1621232.58	91.1	111203.60	95.7
75	1705603-2 10X	62419549.07		3384827.35	94.6	244106.24	94.3	1699707.01	95.5	110985.51	95.5
76	1705603-3 10X	62483834.07		3435002.14	96.0	247843.17	95.7	1721073.98	96.7	112972.81	97.2
77	1705603-4 10X	62941740.73		3445411.20	96.3	251868.96	97.3	1712256.23	96.2	112476.34	96.8
78	ICSA	62406000.74		3458924.43	96.7	244164.31	94.3	1713673.88	96.2	113109.34	97.3
79	ICSAB	62973765.73		3418449.95	95.6	245799.89	94.9	1723217.84	96.8	114231.26	98.3
80	CCV	64155792.38		3540991.30	99.0	249630.32	96.4	1732493.83	97.3	113112.53	97.3
81	CCB	63024540.73		3477347.76	97.2	249860.51	96.5	1739894.92	97.7	112387.92	96.7
82	1705603-5 10X	62146637.41		3436350.68	96.1	245226.77	94.7	1720669.40	96.6	112176.47	96.5
83	1705603-6 10X	60141634.11		3353941.62	93.8	242354.31	93.6	1665419.09	93.5	108486.13	93.3
84	1705603-7 10X	61267820.75		3363676.41	94.0	244961.18	94.6	1678598.15	94.3	111794.79	96.2
85	1706221-1 10X	62514140.73		3482483.70	97.4	246655.66	95.2	1725990.60	96.9	113273.57	97.5
86	LCV	61647325.75		3421049.43	95.6	243384.79	94.0	1700577.06	95.5	111927.80	96.3
87	CCV	61362555.75		3394649.64	94.9	244588.66	94.4	1618292.21	90.9	109887.11	94.5
88	CCB	61130202.42		3426772.03	95.8	246344.29	95.1	1723712.53	96.8	109582.75	94.3
89	FP170613-3MB...	60684735.76		3340590.26	93.4	242377.64	93.6	1693687.21	95.1	111230.77	95.7
90	IP170613-3MB ...	60512232.43		3385389.53	94.6	245839.38	94.9	1670768.62	93.8	110159.69	94.8
91	IM170613-3LCS...	60384204.10		3362415.99	94.0	242987.44	93.8	1686279.61	94.7	110606.47	95.2
92	1706070-1 10X	61739217.41		3464788.59	96.9	245292.65	94.7	1719157.68	96.6	111766.62	96.2
93	1706070-2 10X	61102784.09		3385379.22	94.6	244428.15	94.4	1692078.93	95.0	111507.95	95.9

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	1706087-1 10X	59747032.44		3371466.62	94.2	242117.59	93.5	1650030.71	92.7	107190.63	92.2
95	1706089-1 10X	59639220.78		3333533.91	93.2	242701.55	93.7	1648750.70	92.6	109095.42	93.9
96	1706089-1L 50X	60243652.43		3415645.05	95.5	245591.82	94.8	1699974.56	95.5	109471.29	94.2
97	1706089-1DUP ...	59457370.78		3314543.28	92.7	241109.98	93.1	1676713.94	94.2	109972.53	94.6
98	1706089-1MS 10X	60158925.77		3368539.85	94.2	243567.32	94.0	1671848.67	93.9	110995.18	95.5
99	CCV	60718650.76		3402166.93	95.1	241288.99	93.2	1665222.79	93.5	108740.66	93.6
100	CCB	60488934.10		3427285.89	95.8	246472.84	95.2	1688385.23	94.8	110116.91	94.7
101	1706089-1MSD ...	59697152.44		3345501.41	93.5	240703.39	92.9	1674967.58	94.1	108864.69	93.7
102	1706089- 10X	60223767.44		3368925.37	94.2	239156.30	92.3	1725263.88	96.9	110130.42	94.8
103	1706089-3 10X	60102350.77		3380810.26	94.5	240452.50	92.8	1697924.25	95.4	110280.92	94.9
104	1706089-4 10X	59701962.44		3376211.30	94.4	243028.13	93.8	1692596.90	95.1	110216.52	94.8
105	1706125-1 10X	59695570.78		33433346.51	93.5	241268.76	93.2	1670217.22	93.8	108288.62	93.2
106	1706125-2 10X	59841605.77		3317079.43	92.7	239339.23	92.4	1660569.66	93.3	108116.45	93.0
107	1706126-1 10X	58962634.12		3310398.49	92.5	241979.57	93.4	1661380.60	93.3	108726.65	93.5
108	1706126-2 10X	59280739.12		3347261.20	93.6	241260.92	93.2	1684081.80	94.6	109858.49	94.5
109	1706126-3 10X	59347860.78		3377472.35	94.4	244974.85	94.6	1680300.76	94.4	110391.51	95.0
110	1706126-4 10X	60198330.77		3357088.59	93.8	243832.15	94.1	1674608.41	94.1	110326.94	94.9
111	CCV	60677330.76		3382955.57	94.6	243800.94	94.1	1713250.96	96.2	110358.25	94.9
112	CCB	59848392.44		3325724.74	93.0	242053.06	93.5	1667445.71	93.6	108653.68	93.5
113	1706153-1 10X	59362987.45		3276082.56	91.6	241461.16	93.2	1628007.27	91.4	108103.33	93.0
114	1706153-3 10X	59449732.45		3323877.14	92.9	239996.02	92.7	1661207.58	93.3	110843.98	95.4
115	1706192-1 10X	58663919.13		3275857.97	91.6	238616.08	92.1	1690930.91	95.0	108881.26	93.7
116	1706197-1 10X	60077237.44		3382735.47	94.6	242373.05	93.6	1682222.47	94.5	108716.80	93.5
117	1706236-1 10X	60075440.77		3318535.06	92.8	240484.68	92.9	1695911.07	95.2	109434.96	94.2
118	1706236-2 10X	60422572.43		3328764.74	93.1	241359.64	93.2	1672724.87	93.9	110482.29	95.1
119	1706236-3 100X	60825547.43		3501029.74	97.9	255182.95	98.5	1670142.37	93.8	112000.04	96.4
120	LCV	60754987.43		3386835.99	94.7	241795.84	93.4	1686299.56	94.7	111186.45	95.7
121	CCV	60458599.10		3362567.34	94.0	243667.56	94.1	1644332.84	92.4	108375.24	93.2
122	CCB	61750794.08		3449780.78	96.4	242658.41	93.7	1709345.23	96.0	111267.13	95.7
123	FP170614-3MB...	59537185.78		3327947.56	93.0	239143.88	92.3	1659108.46	93.2	108193.69	93.1
124	IP170614-3MB ...	59962267.44		3315681.93	92.7	240415.96	92.8	1670092.06	93.8	109387.78	94.1

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	IM170614-3LCS...	59367090.78		3307569.33	92.5	236655.78	91.4	1616517.11	90.8	110529.41	95.1
126	1705515-1 10X	59684544.11		3277846.41	91.6	236743.72	91.4	1727029.04	97.0	113989.64	98.1
127	1705515-1L 50X	60947614.09		3399209.64	95.0	243335.18	94.0	1720070.34	96.6	111177.10	95.7
128	1705515-1DUP ...	59957510.77		3250782.35	90.9	237981.54	91.9	1732705.23	97.3	114099.75	98.2
129	1705515-1MS 10X	60451400.77		3249501.93	90.8	238644.44	92.1	1698114.14	95.4	114269.14	98.3
130	1705515-1MSD ...	59779479.11		3266782.56	91.3	234470.06	90.5	1742383.10	97.9	114141.84	98.2
131	1705515-3 10X	59705097.44		3293997.56	92.1	237041.46	91.5	1711936.90	96.1	112838.20	97.1
132	1706185-1 100X	60839999.09		3239640.06	90.6	232301.52	89.7	1648287.53	92.6	108653.17	93.5
133	CCV	60529027.43		3329394.01	93.1	243164.58	93.9	1653851.48	92.9	109244.59	94.0
134	CCB	60468355.77		3387662.24	94.7	242046.13	93.5	1649010.97	92.6	109536.50	94.2
135	1706185-3 100X	60087814.11		3223982.24	90.1	233436.53	90.1	1629350.81	91.5	107354.38	92.4
136	1706193-1 100X	59850424.11		3261387.24	91.2	234906.55	90.7	1659253.15	93.2	107911.81	92.8
137	1706193-2 100X	60515429.10		3311752.66	92.6	236397.86	91.3	1642686.69	92.3	109197.37	94.0
138	1706201-1 10X	61159919.09		3368138.28	94.2	241559.82	93.3	1691586.17	95.0	110247.38	94.9
139	1706271-1 100X	58961940.79		3140072.66	87.8	226333.72	87.4	1560617.58	87.6	105021.94	90.4
140	1706271-2 100X	61640207.42		3403163.70	95.1	241613.99	93.3	1705992.11	95.8	110732.31	95.3
141	1706286-1 100X	61089380.75		3349323.18	93.6	239618.88	92.5	1670880.29	93.8	108258.26	93.1
142	1706286-3 100X	61149232.42		3351708.81	93.7	239702.86	92.6	1677547.27	94.2	108706.94	93.5
143	LCV	59594750.78		3321765.89	92.9	239750.73	92.6	1681544.30	94.4	107528.97	92.5
144	CCV	60046122.44		3287942.56	91.9	237213.74	91.6	1653716.33	92.9	107982.78	92.9
145	CCB	59825640.77		3352383.18	93.7	241705.81	93.3	1669448.98	93.8	109646.51	94.3

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	10887063.59	100.0	2694387.87	100.0	11142239.79	100.0	1684667.55	100.0	2305812.88	100.0
2	blank	10704101.09	100.0	2696302.88	100.0	10855477.81	100.0	1657211.70	100.0	2267329.55	100.0
3	blank	10517586.09	100.0	2675727.57	100.0	10628957.26	100.0	1654878.90	100.0	2229413.61	100.0
4	blank	10477380.68	100.0	2657107.57	100.0	10575902.98	100.0	1633422.94	100.0	2210576.06	100.0
5	H/1000	10498880.68	100.2	2668418.40	100.4	10511134.65	99.4	1652983.99	101.2	2190299.76	99.1
6	H/100	10340299.85	98.7	2664542.46	100.3	10414694.10	98.5	1655255.89	101.3	2201104.39	99.6
7	H/10	10137034.43	96.8	2596251.11	97.7	10339024.74	97.8	1634342.36	100.1	2148286.32	97.2
8	HIGH	9576050.07	91.4	2457815.59	92.5	9879261.15	93.4	1566142.25	95.9	2077833.46	94.0
9	ICV	10039277.14	95.8	2529225.90	95.2	10394319.51	98.3	1593914.17	97.6	2160797.57	97.7
10	ICB	10212317.97	97.5	2614363.45	98.4	10412431.93	98.5	1632543.07	99.9	2195651.63	99.3
11	LIV	10134464.02	96.7	2595964.70	97.7	10174208.49	96.2	1597479.35	97.8	2155943.93	97.5
12	ICSA	9553812.78	91.2	2455711.63	92.4	9936725.91	94.0	1561584.33	95.6	2074260.65	93.8
13	ICSAB	9583666.73	91.5	2450508.82	92.2	10011987.66	94.7	1557618.86	95.4	2024860.13	91.6
14	CCV	10000383.60	95.4	2563565.85	96.5	10269064.82	97.1	1599466.50	97.9	2165605.07	98.0
15	CCB	10135001.31	96.7	2575182.83	96.9	10275922.45	97.2	1640721.91	100.4	2189729.40	99.1
16	1705538-14 100X	10068229.02	96.1	2575544.75	96.9	10239502.50	96.8	1613263.06	98.8	2131045.54	96.4
17	IP170612-2RBM...	10463149.01	99.9	2631103.24	99.0	10653791.99	100.7	1615153.74	98.9	2189874.03	99.1
18	IP170612-2MB ...	10677302.96	101.9	2604816.94	98.0	10825073.23	102.4	1615368.73	98.9	2286209.13	103.4
19	IM170612-2LCS...	10409299.22	99.4	2573383.50	96.8	10375945.30	98.1	1594894.75	97.6	2238849.29	101.3
20	IM170612-2LCS...	10343592.76	98.7	2581396.21	97.2	10630187.38	100.5	1623058.34	99.4	2262521.53	102.3
21	1705316-1 10X	10073431.72	96.1	2555331.21	96.2	10313048.90	97.5	1651308.85	101.1	2164017.31	97.9
22	1705316-2 10X	10255510.06	97.9	2605465.48	98.1	10432705.73	98.6	1621094.41	99.2	2174607.52	98.4
23	1705316-3 10X	10145920.68	96.8	2566330.43	96.6	10333971.80	97.7	1640910.08	100.5	2130361.06	96.4
24	1705316-4 10X	10071737.56	96.1	2601966.89	97.9	10175207.10	96.2	1610928.89	98.6	2090365.18	94.6
25	1705316-5 10X	10162856.93	97.0	2590736.47	97.5	10325756.04	97.6	1631270.62	99.9	2121156.63	96.0
26	CCV	9804366.73	93.6	2500029.60	94.1	10094370.11	95.4	1587300.90	97.2	2063507.31	93.3
27	CCB	10073723.81	96.1	2569884.60	96.7	10266099.75	97.1	1590059.19	97.3	2164602.52	97.9
28	1705541-6 10X	10028817.77	95.7	2618570.85	98.5	10174187.05	96.2	1620283.14	99.2	2123258.77	96.1
29	1705541-6L 50X	9876459.02	94.3	2598834.96	97.8	9950242.22	94.1	1633140.65	100.0	2088232.94	94.5
30	LCV	10099862.35	96.4	2562655.95	96.4	10151922.65	96.0	1578030.55	96.6	2129199.87	96.3
31	CCV	9779302.15	93.3	2528095.33	95.1	10047055.00	95.0	1593436.77	97.6	2096922.83	94.9

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCB	10015380.48	95.6	2575730.69	96.9	10152877.65	96.0	1605750.85	98.3	2135600.13	96.6
33	IP170613-1MB ...	9850897.56	94.0	2598302.20	97.8	10117669.50	95.7	1626669.02	99.6	2112639.19	95.6
34	IP170613-1LCS...	9913635.27	94.6	2566697.31	96.6	10039383.49	94.9	1609585.26	98.5	2069494.19	93.6
35	1705533-2 10X	9543246.32	91.1	2482364.70	93.4	9896674.27	93.6	1601741.57	98.1	2063596.53	93.4
36	1705533-2L 50X	9699217.15	92.6	2537766.84	95.5	10036425.94	94.9	1598031.59	97.8	2073906.37	93.8
37	1705533-2DUP ...	9613779.65	91.8	2488734.08	93.7	9864136.22	93.3	1602306.55	98.1	2030627.47	91.9
38	1705533-2MS 10X	9673826.52	92.3	2515527.72	94.7	9814242.82	92.8	1594345.36	97.6	2051563.67	92.8
39	1705533-2MSD ...	9533519.44	91.0	2507032.10	94.4	9774838.59	92.4	1591877.49	97.5	2061360.54	93.2
40	1705533-2A 10X	9469057.36	90.4	2473949.44	93.1	9701540.46	91.7	1566496.85	95.9	2049867.83	92.7
41	1705542-7 10X	9722999.23	92.8	2544302.20	95.8	9948720.94	94.1	1608727.94	98.5	2087038.72	94.4
42	CCV	9798279.23	93.5	2544483.03	95.8	10143020.20	95.9	1597161.64	97.8	2034061.12	92.0
43	CCB	10080580.47	96.2	2536842.20	95.5	10275839.77	97.2	1608707.41	98.5	2120743.20	95.9
44	1705542-8 10X	9750122.77	93.1	2535399.28	95.4	9960546.11	94.2	1588434.73	97.2	2090687.57	94.6
45	1705542-9 10X	9774487.56	93.3	2518593.92	94.8	9945353.96	94.0	1596930.50	97.8	2093706.48	94.7
46	1705542-10 10X	9549177.15	91.1	2512803.30	94.6	9872212.66	93.3	1590832.52	97.4	2056608.88	93.0
47	1705542-11 10X	9430761.74	90.0	2485391.06	93.5	9893306.21	93.5	1582380.74	96.9	2040375.44	92.3
48	1705542-12 10X	9607289.02	91.7	2508696.21	94.4	9953685.15	94.1	1595650.39	97.7	2060097.21	93.2
49	1705542-13 10X	9608319.44	91.7	2509399.91	94.4	9780459.79	92.5	1579660.33	96.7	2046130.07	92.6
50	1705542-14 10X	9667599.44	92.3	2537269.81	95.5	9900329.13	93.6	1577605.97	96.6	2068467.68	93.6
51	1705542-15 10X	9681813.81	92.4	2507243.19	94.4	9878671.26	93.4	1563682.44	95.7	2043883.15	92.5
52	1706115-1 10X	9521629.86	90.9	2466941.73	92.8	9904330.26	93.6	1579431.97	96.7	2057710.75	93.1
53	1706115-3 10X	9660294.02	92.2	2550434.81	96.0	9993737.88	94.5	1578748.19	96.7	2080233.30	94.1
54	CCV	9884604.02	94.3	2529166.11	95.2	10120625.52	95.7	1595107.94	97.7	2068280.80	93.6
55	CCB	10026956.73	95.7	2560152.04	96.4	10284726.12	97.2	1588989.37	97.3	2146298.77	97.1
56	1706115-4 10X	9665970.69	92.3	2486652.57	93.6	9992036.68	94.5	1583616.10	97.0	2070000.28	93.6
57	1706115-5 10X	9649481.11	92.1	2528563.19	95.2	9990050.19	94.5	1589039.28	97.3	2067991.01	93.5
58	1706115-6 10X	9488588.40	90.6	2475879.91	93.2	9846133.46	93.1	1564296.62	95.8	2045107.10	92.5
59	1706115-7 10X	9692189.23	92.5	2520917.15	94.9	9982903.14	94.4	1586775.30	97.1	2055346.95	93.0
60	1706115-8 10X	9742742.98	93.0	2523882.83	95.0	10062533.10	95.1	1596398.69	97.7	2065840.96	93.5
61	1706118-1 10X	9844840.27	94.0	2511420.69	94.5	9970815.50	94.3	1577022.83	96.5	2074992.26	93.9
62	1706118-2 10X	9687314.02	92.5	2507067.41	94.4	9932119.25	93.9	1578208.20	96.6	2056219.08	93.0

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1706118-3 10X	9737986.94	92.9	2531769.81	95.3	9903187.70	93.6	1590143.60	97.4	2073141.79	93.8
64	LCV	9890037.77	94.4	2500562.57	94.1	10033004.86	94.9	1560547.63	95.5	2105967.11	95.3
65	CCV	9755042.77	93.1	2510932.93	94.5	10098777.14	95.5	1583198.07	96.9	2081959.50	94.2
66	CCB	10128125.47	96.7	2571769.91	96.8	10322001.36	97.6	1594490.90	97.6	2143708.87	97.0
67	ZZZ	24280590.47	231.7	7261598.85	273.3	25505399.31	241.2	4576425.98	280.2	5169420.34	233.8
68	IP170613-2MB ...	9916243.19	94.6	2567234.96	96.6	10089661.08	95.4	1573770.54	96.3	2098006.22	94.9
69	IM170613-2LCS...	9653707.98	92.1	2489437.78	93.7	9825541.76	92.9	1547226.39	94.7	2019622.73	91.4
70	1705603-1 10X	9496227.78	90.6	2458843.19	92.5	9805276.78	92.7	1563386.89	95.7	2031652.73	91.9
71	1705603-1L 50X	9699981.10	92.6	2519418.82	94.8	10104931.05	95.5	1583065.20	96.9	2071357.94	93.7
72	1705603-1DUP ...	9540123.82	91.1	2447326.84	92.1	9874263.74	93.4	1557984.73	95.4	2007993.10	90.8
73	1705603-1MS 10X	9661847.98	92.2	2445119.81	92.0	10041655.03	94.9	1575615.93	96.5	2124144.19	96.1
74	1705603-1MSD ...	9640845.48	92.0	2480474.44	93.4	9999305.16	94.5	1612183.06	98.7	2023823.67	91.6
75	1705603-2 10X	9558070.69	91.2	2434110.75	91.6	9958568.38	94.2	1558436.30	95.4	2061436.95	93.3
76	1705603-3 10X	9759632.56	93.1	2503141.11	94.2	10068166.92	95.2	1600241.73	98.0	2049837.31	92.7
77	1705603-4 10X	9697257.56	92.6	2515864.60	94.7	10081198.45	95.3	1616854.30	99.0	2064312.52	93.4
78	ICSA	9526496.32	90.9	2495193.45	93.9	10004850.01	94.6	1576328.57	96.5	2083368.09	94.2
79	ICSAB	9527556.52	90.9	2475950.43	93.2	10044332.55	95.0	1570919.91	96.2	2030011.01	91.8
80	CCV	10038950.47	95.8	2559915.95	96.3	10285217.27	97.3	1614490.07	98.8	2141201.69	96.9
81	CCB	10146107.35	96.8	2604862.20	98.0	10410009.43	98.4	1612201.32	98.7	2176857.68	98.5
82	1705603-5 10X	9769072.35	93.2	2533841.00	95.4	10065164.33	95.2	1577452.03	96.6	2084851.27	94.3
83	1705603-6 10X	9700651.52	92.6	2478383.30	93.3	9813709.65	92.8	1544883.04	94.6	2041501.48	92.4
84	1705603-7 10X	9520418.40	90.9	2494640.64	93.9	9853797.83	93.2	1573061.11	96.3	2035594.55	92.1
85	1706221-1 10X	9871524.85	94.2	2528929.86	95.2	10255680.20	97.0	1615706.01	98.9	2100868.04	95.0
86	LCV	10038288.39	95.8	2580823.14	97.1	10145616.22	95.9	1607689.37	98.4	2151432.83	97.3
87	CCV	9737509.64	92.9	2513682.78	94.6	10067850.14	95.2	1581767.12	96.8	2031001.22	91.9
88	CCB	9930846.73	94.8	2613599.28	98.4	10126004.38	95.7	1610359.78	98.6	2137356.95	96.7
89	FP170613-3MB...	9753167.36	93.1	2551605.27	96.0	9940224.53	94.0	1576630.47	96.5	2102981.48	95.1
90	IP170613-3MB ...	9892710.48	94.4	2542417.20	95.7	10029918.52	94.8	1590934.47	97.4	2108754.76	95.4
91	IM170613-3LCS...	9747455.90	93.0	2583286.68	97.2	9900400.46	93.6	1589763.93	97.3	2084668.88	94.3
92	1706070-1 10X	9883341.73	94.3	2524933.14	95.0	10123079.99	95.7	1589791.60	97.3	2106349.19	95.3
93	1706070-2 10X	9730507.14	92.9	2483224.44	93.5	10129761.62	95.8	1596362.49	97.7	2075307.21	93.9

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	1706087-1 10X	9602618.19	91.7	2507243.04	94.4	9905771.18	93.7	1575751.09	96.5	2054444.14	92.9
95	1706089-1 10X	9453517.99	90.2	2478408.30	93.3	9853117.58	93.2	1564472.14	95.8	2027719.03	91.7
96	1706089-1L 50X	9691058.81	92.5	2517211.63	94.7	10005993.90	94.6	1583645.49	97.0	2075715.59	93.9
97	1706089-1DUP ...	9408959.86	89.8	2477528.97	93.2	9734482.26	92.0	1527972.51	93.5	2018187.21	91.3
98	1706089-1MS 10X	9605077.15	91.7	2516950.33	94.7	9785867.09	92.5	1585369.03	97.1	2042122.47	92.4
99	CCV	9737569.44	92.9	2501487.52	94.1	10031250.24	94.9	1577435.57	96.6	2079918.67	94.1
100	CCB	9951844.02	95.0	2547318.19	95.9	10089986.98	95.4	1570735.93	96.2	2130811.58	96.4
101	1706089-1MSD ...	9553008.82	91.2	2475080.54	93.1	9843841.84	93.1	1551857.35	95.0	2040061.22	92.3
102	1706089- 10X	9696200.90	92.5	2504614.23	94.3	9919985.72	93.8	1552184.89	95.0	2062961.95	93.3
103	1706089-3 10X	9684092.15	92.4	2492860.85	93.8	9971951.04	94.3	1546421.57	94.7	2089120.12	94.5
104	1706089-4 10X	9646322.98	92.1	2493223.14	93.8	9991018.37	94.5	1567472.34	96.0	2065156.69	93.4
105	1706125-1 10X	9700032.35	92.6	2503649.29	94.2	9980544.91	94.4	1574528.95	96.4	2105857.99	95.3
106	1706125-2 10X	9454399.65	90.2	2487708.40	93.6	9778174.04	92.5	1551392.44	95.0	2047317.37	92.6
107	1706126-1 10X	9534709.23	91.0	2493484.23	93.8	9938075.61	94.0	1532868.58	93.8	2027144.19	91.7
108	1706126-2 10X	9561821.11	91.3	2473220.80	93.1	9837797.75	93.0	1574305.61	96.4	2068659.45	93.6
109	1706126-3 10X	9536655.90	91.0	2468872.10	92.9	9781853.41	92.5	1558864.04	95.4	2042297.52	92.4
110	1706126-4 10X	9569532.57	91.3	2519046.63	94.8	9885381.27	93.5	1588755.08	97.3	2047628.41	92.6
111	CCV	9742726.31	93.0	2535932.36	95.4	10026331.43	94.8	1590241.28	97.4	2181135.59	98.7
112	CCB	9737316.73	92.9	2533509.39	95.3	9903216.95	93.6	1573330.78	96.3	2084494.55	94.3
113	1706153-1 10X	9371844.23	89.4	2445365.17	92.0	9788764.68	92.6	1559219.97	95.5	2032312.00	91.9
114	1706153-3 10X	9503210.69	90.7	2444785.17	92.0	9809785.13	92.8	1552856.82	95.1	2037552.52	92.2
115	1706192-1 10X	9460114.65	90.3	2474723.66	93.1	9767207.13	92.4	1548211.72	94.8	2041220.02	92.3
116	1706197-1 10X	9717550.89	92.7	2499285.28	94.1	9963262.04	94.2	1564163.48	95.8	2062432.00	93.3
117	1706236-1 10X	9319650.07	89.0	2432089.81	91.5	9738181.32	92.1	1555049.73	95.2	2058724.97	93.1
118	1706236-2 10X	9347198.40	89.2	2451061.68	92.2	9855173.06	93.2	1536683.01	94.1	2068446.59	93.6
119	1706236-3 100X	9636766.11	92.0	2497546.21	94.0	9898384.32	93.6	1569227.87	96.1	2065284.24	93.4
120	LCV	9864646.31	94.2	2560725.43	96.4	9999606.54	94.6	1563859.61	95.7	2113846.06	95.6
121	CCV	9676701.31	92.4	2512763.24	94.6	9946285.43	94.0	1591559.60	97.4	2049917.89	92.7
122	CCB	9958172.35	95.0	2572126.52	96.8	10226530.71	96.7	1596597.54	97.7	2115121.06	95.7
123	FP170614-3MB...	9662999.23	92.2	2505192.46	94.3	9822285.50	92.9	1554510.25	95.2	2083860.23	94.3
124	IP170614-3MB ...	9710795.27	92.7	2504754.96	94.3	9928842.65	93.9	1579264.65	96.7	2076061.12	93.9

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	IM170614-3LCS...	9577051.73	91.4	2519916.16	94.8	9715859.02	91.9	1566105.35	95.9	2037948.30	92.2
126	1705515-1 10X	9343272.99	89.2	2421522.88	91.1	9713219.28	91.8	1528623.98	93.6	2048434.19	92.7
127	1705515-1L 50X	9713323.60	92.7	2525325.53	95.0	10019788.24	94.7	1582565.39	96.9	2052223.87	92.8
128	1705515-1DUP ...	9308475.69	88.8	2446517.36	92.1	9647660.58	91.2	1534121.31	93.9	2033043.35	92.0
129	1705515-1MS 10X	9356699.45	89.3	2422855.22	91.2	9644940.53	91.2	1552652.53	95.1	2012807.05	91.1
130	1705515-1MSD ...	9389988.19	89.6	2405768.45	90.5	9686268.93	91.6	1525288.70	93.4	2052362.68	92.8
131	1705515-3 10X	9453227.15	90.2	2457229.76	92.5	9782062.48	92.5	1517190.80	92.9	2049914.50	92.7
132	1706185-1 100X	9202531.11	87.8	2388396.22	89.9	9597010.99	90.7	1517392.11	92.9	2023974.61	91.6
133	CCV	9669985.48	92.3	2495600.85	93.9	10032055.59	94.9	1566536.74	95.9	2058730.13	93.1
134	CCB	9793161.94	93.5	2568541.99	96.7	10036700.23	94.9	1576020.98	96.5	2106840.44	95.3
135	1706185-3 100X	9241189.03	88.2	2365839.02	89.0	9585832.22	90.6	1499685.13	91.8	1999951.38	90.5
136	1706193-1 100X	9262895.49	88.4	2386138.61	89.8	9579516.16	90.6	1526090.01	93.4	2023936.48	91.6
137	1706193-2 100X	9396161.52	89.7	2406231.16	90.6	9656613.63	91.3	1517533.65	92.9	2024374.14	91.6
138	1706201-1 10X	9502301.32	90.7	2478670.17	93.3	9868896.55	93.3	1571643.71	96.2	2066838.87	93.5
139	1706271-1 100X	8603638.00	82.1	2217302.00	83.4	9037871.69	85.5	1434823.42	87.8	1844128.25	83.4
140	1706271-2 100X	9620766.32	91.8	2465836.00	92.8	9965314.29	94.2	1554186.11	95.1	2072234.71	93.7
141	1706286-1 100X	9573260.69	91.4	2456918.19	92.5	9955444.16	94.1	1527175.27	93.5	2100855.65	95.0
142	1706286-3 100X	9465447.15	90.3	2453233.19	92.3	9877830.23	93.4	1525353.87	93.4	2057425.65	93.1
143	LCV	9768394.65	93.2	2531498.77	95.3	9840960.21	93.1	1551754.52	95.0	2083072.89	94.2
144	CCV	9564895.69	91.3	2468836.58	92.9	9831849.91	93.0	1552464.94	95.0	2038536.17	92.2
145	CCB	9716627.15	92.7	2530553.50	95.2	10022277.74	94.8	1581078.55	96.8	2124167.26	96.1

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	415058.61	100.0	7520996.76	100.0	2168617.73	100.0
2	blank	408439.81	100.0	7218582.81	100.0	2126961.12	100.0
3	blank	414068.83	100.0	7243020.72	100.0	2127605.85	100.0
4	blank	410803.17	100.0	7182955.10	100.0	2120579.81	100.0
5	H/1000	407854.10	99.3	7100761.77	98.9	2122607.10	100.1
6	H/100	406667.12	99.0	6980463.44	97.2	2112619.19	99.6
7	H/10	405727.29	98.8	6946561.56	96.7	2086543.67	98.4
8	HIGH	386349.02	94.0	6495713.65	90.4	1966256.12	92.7
9	ICV	398215.31	96.9	6838998.65	95.2	2061664.97	97.2
10	ICB	399728.21	97.3	7127240.52	99.2	2114568.40	99.7
11	LIV	397948.33	96.9	6943676.98	96.7	2086815.75	98.4
12	ICSA	380926.50	92.7	6622339.28	92.2	1997496.79	94.2
13	ICSAB	375935.82	91.5	6619883.65	92.2	1969508.20	92.9
14	CCV	393775.51	95.9	6962584.69	96.9	2082832.37	98.2
15	CCB	398808.42	97.1	7021136.14	97.7	2074173.77	97.8
16	1705538-14 100X	397083.29	96.7	7076983.23	98.5	2125108.93	100.2
17	IP170612-2RBM...	402534.81	98.0	7189754.47	100.1	2152380.91	101.5
18	IP170612-2MB ...	405555.41	98.7	7457399.26	103.8	2163309.29	102.0
19	IM170612-2LCS...	395897.53	96.4	7121821.77	99.1	2093225.75	98.7
20	IM170612-2LCS...	392567.00	95.6	7078815.93	98.6	2089730.70	98.5
21	1705316-1 10X	401467.80	97.7	7089595.94	98.7	2149051.95	101.3
22	1705316-2 10X	397270.18	96.7	7154593.43	99.6	2150610.02	101.4
23	1705316-3 10X	391748.73	95.4	7021140.10	97.7	2146292.41	101.2
24	1705316-4 10X	393069.82	95.7	6912008.23	96.2	2128750.80	100.4
25	1705316-5 10X	397283.00	96.7	7007861.14	97.6	2168195.07	102.2
26	CCV	392082.58	95.4	6784252.81	94.4	2083257.63	98.2
27	CCB	394629.45	96.1	7037559.90	98.0	2102864.39	99.2
28	1705541-6 10X	394523.07	96.0	6880519.48	95.8	2114549.71	99.7
29	1705541-6L 50X	399050.18	97.1	6803633.23	94.7	2139717.26	100.9
30	LCV	395136.67	96.2	7002904.06	97.5	2112752.42	99.6
31	CCV	393000.39	95.7	6822855.52	95.0	2104135.49	99.2

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCB	392685.69	95.6	6984437.19	97.2	2115096.33	99.7
33	IP170613-1MB ...	399022.50	97.1	6923036.56	96.4	2133883.56	100.6
34	IP170613-1LCS...	391426.95	95.3	6730640.94	93.7	2068584.40	97.5
35	1705533-2 10X	381448.67	92.9	6769662.40	94.2	2060832.57	97.2
36	1705533-2L 50X	381894.43	93.0	6865713.86	95.6	2079393.62	98.1
37	1705533-2DUP ...	382074.53	93.0	6697331.56	93.2	2078879.50	98.0
38	1705533-2MS 10X	378975.20	92.3	6610556.78	92.0	2044615.44	96.4
39	1705533-2MSD ...	382274.24	93.1	6664846.15	92.8	2057304.81	97.0
40	1705533-2A 10X	380276.78	92.6	6628368.65	92.3	2026671.58	95.6
41	1705542-7 10X	385475.09	93.8	6750430.11	94.0	2101488.14	99.1
42	CCV	388520.92	94.6	6821963.44	95.0	2060743.36	97.2
43	CCB	387785.85	94.4	6935848.02	96.6	2106290.86	99.3
44	1705542-8 10X	389319.26	94.8	6820982.82	95.0	2073213.25	97.8
45	1705542-9 10X	385979.47	94.0	6838530.94	95.2	2065104.24	97.4
46	1705542-10 10X	384410.16	93.6	6763765.11	94.2	2071155.85	97.7
47	1705542-11 10X	374225.62	91.1	6634678.44	92.4	2046039.19	96.5
48	1705542-12 10X	383410.35	93.3	6718528.86	93.5	2080046.69	98.1
49	1705542-13 10X	382999.74	93.2	6728917.61	93.7	2082136.06	98.2
50	1705542-14 10X	381848.24	93.0	6775063.02	94.3	2075920.44	97.9
51	1705542-15 10X	381095.99	92.8	6698933.65	93.3	2056753.30	97.0
52	1706115-1 10X	378956.62	92.2	6638807.82	92.4	2052640.96	96.8
53	1706115-3 10X	384448.20	93.6	6796246.15	94.6	2095065.80	98.8
54	CCV	387790.24	94.4	6909121.77	96.2	2059461.17	97.1
55	CCB	391097.45	95.2	7018167.40	97.7	2074545.75	97.8
56	1706115-4 10X	380862.72	92.7	6800055.11	94.7	2045503.88	96.5
57	1706115-5 10X	386909.80	94.2	6767249.48	94.2	2094736.17	98.8
58	1706115-6 10X	378851.27	92.2	6679580.11	93.0	2055713.67	96.9
59	1706115-7 10X	383567.08	93.4	6821909.07	95.0	2103438.51	99.2
60	1706115-8 10X	381735.14	92.9	6744516.15	93.9	2089886.37	98.6
61	1706118-1 10X	385491.56	93.8	6824979.27	95.0	2075253.09	97.9
62	1706118-2 10X	379442.08	92.4	6722261.36	93.6	2073993.35	97.8

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1706118-3 10X	385550.55	93.9	6791569.48	94.6	2088598.10	98.5
64	LCV	386548.79	94.1	6758259.27	94.1	2056011.38	97.0
65	CCV	381289.27	92.8	6800363.44	94.7	2053511.90	96.8
66	CCB	386797.42	94.2	7067143.02	98.4	2087481.95	98.4
67	ZZZ	1136716.55	276.7	17912913.48	249.4	6171258.87	291.0
68	IP170613-2MB ...	383246.75	93.3	6865961.15	95.6	2058443.46	97.1
69	IM170613-2LCS...	377653.70	91.9	6698416.57	93.3	2006258.56	94.6
70	1705603-1 10X	375465.10	91.4	6646185.73	92.5	1994837.78	94.1
71	1705603-1L 50X	381012.50	92.7	6801878.02	94.7	2056241.01	97.0
72	1705603-1DUP ...	371988.28	90.6	6594088.44	91.8	2015587.73	95.0
73	1705603-1MS 10X	376901.15	91.7	6601836.36	91.9	1991423.15	93.9
74	1705603-1MSD ...	373476.18	90.9	6479041.78	90.2	1989751.12	93.8
75	1705603-2 10X	371277.96	90.4	6553740.74	91.2	1925276.32	90.8
76	1705603-3 10X	374719.32	91.2	6618045.53	92.1	2002492.16	94.4
77	1705603-4 10X	380905.36	92.7	6728081.56	93.7	2022820.70	95.4
78	ICSA	371324.68	90.4	6720592.61	93.6	1982492.99	93.5
79	ICSAB	373820.79	91.0	6578397.20	91.6	1964123.36	92.6
80	CCV	384754.49	93.7	6895851.98	96.0	2044643.72	96.4
81	CCB	389471.69	94.8	7044464.27	98.1	2083564.40	98.3
82	1705603-5 10X	377403.57	91.9	6772243.65	94.3	2036348.51	96.0
83	1705603-6 10X	374034.91	91.0	6664037.40	92.8	2000586.12	94.3
84	1705603-7 10X	375029.38	91.3	6563827.40	91.4	1993511.58	94.0
85	1706221-1 10X	382435.41	93.1	6821065.53	95.0	2054458.51	96.9
86	LCV	385960.41	94.0	6944232.81	96.7	2038000.02	96.1
87	CCV	379276.05	92.3	6772476.36	94.3	2040664.19	96.2
88	CCB	385285.64	93.8	6996821.56	97.4	2060306.84	97.2
89	FP170613-3MB...	385451.44	93.8	6849515.11	95.4	2026404.40	95.6
90	IP170613-3MB ...	383759.41	93.4	6845698.44	95.3	2057622.94	97.0
91	IM170613-3LCS...	388693.60	94.6	6784847.61	94.5	2037716.48	96.1
92	1706070-1 10X	382379.75	93.1	6968216.98	97.0	2056451.11	97.0
93	1706070-2 10X	376666.75	91.7	6874048.86	95.7	2055235.28	96.9

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	1706087-1 10X	373282.81	90.9	6879538.65	95.8	2029757.21	95.7
95	1706089-1 10X	376569.15	91.7	6643801.78	92.5	1992991.43	94.0
96	1706089-1L 50X	379221.93	92.3	6813962.82	94.9	2040095.38	96.2
97	1706089-1DUP ...	370528.00	90.2	6683830.32	93.1	2005208.15	94.6
98	1706089-1MS 10X	376767.61	91.7	6733602.81	93.7	2027781.43	95.6
99	CCV	385658.13	93.9	6863317.81	95.6	2059335.02	97.1
100	CCB	386689.45	94.1	7000200.31	97.5	2049244.87	96.6
101	1706089-1MSD ...	374095.55	91.1	6711084.69	93.4	1993309.29	94.0
102	1706089- 10X	377013.55	91.8	6782646.15	94.4	2013585.54	95.0
103	1706089-3 10X	379501.31	92.4	6833035.52	95.1	2052340.44	96.8
104	1706089-4 10X	374826.68	91.2	6857653.65	95.5	2061459.50	97.2
105	1706125-1 10X	381941.82	93.0	6885678.86	95.9	2070568.15	97.6
106	1706125-2 10X	372891.79	90.8	6578924.07	91.6	1969481.69	92.9
107	1706126-1 10X	372027.71	90.6	6817376.77	94.9	2003202.78	94.5
108	1706126-2 10X	372504.42	90.7	6711947.61	93.4	2020011.53	95.3
109	1706126-3 10X	376660.25	91.7	6685481.57	93.1	2003892.37	94.5
110	1706126-4 10X	375562.27	91.4	6697948.23	93.2	2003832.47	94.5
111	CCV	385749.81	93.9	6917601.35	96.3	2062665.13	97.3
112	CCB	382731.63	93.2	6879501.15	95.8	2055599.24	96.9
113	1706153-1 10X	377614.46	91.9	6647353.65	92.5	2031939.13	95.8
114	1706153-3 10X	374312.77	91.1	6675355.94	92.9	2018350.96	95.2
115	1706192-1 10X	370018.47	90.1	6597343.44	91.8	1966823.46	92.7
116	1706197-1 10X	376226.39	91.6	6787974.27	94.5	2048434.55	96.6
117	1706236-1 10X	369794.75	90.0	6624585.94	92.2	1960893.20	92.5
118	1706236-2 10X	376566.97	91.7	6590679.69	91.8	1978551.84	93.3
119	1706236-3 100X	377001.48	91.8	6803838.23	94.7	2036048.04	96.0
120	LCV	379755.19	92.4	6811178.02	94.8	2021954.03	95.3
121	CCV	381122.44	92.8	6748635.11	94.0	2016516.74	95.1
122	CCB	384063.73	93.5	6920710.94	96.3	2058385.33	97.1
123	FP170614-3MB...	379724.76	92.4	6783713.02	94.4	2026963.93	95.6
124	IP170614-3MB ...	379423.30	92.4	6743068.44	93.9	2020917.31	95.3

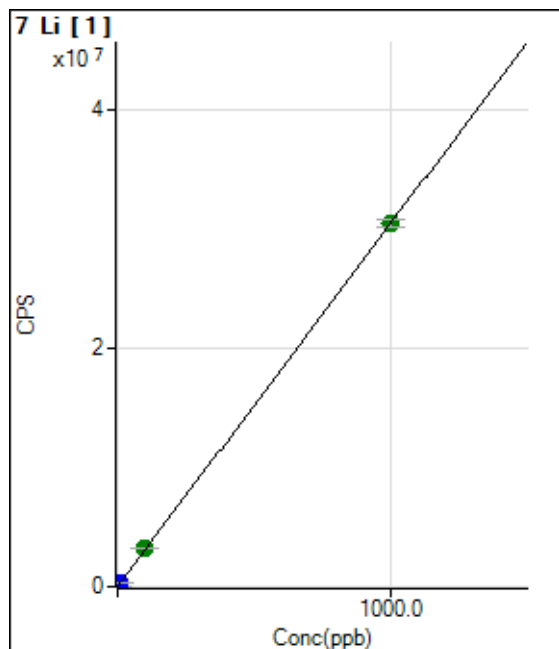
Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	IM170614-3LCS...	377383.02	91.9	6698982.40	93.3	2005634.45	94.6
126	1705515-1 10X	373312.26	90.9	6566785.32	91.4	1964575.08	92.6
127	1705515-1L 50X	380918.28	92.7	6784952.61	94.5	2014250.02	95.0
128	1705515-1DUP ...	371963.38	90.5	6528006.57	90.9	1967745.23	92.8
129	1705515-1MS 10X	375072.78	91.3	6505520.53	90.6	1965963.77	92.7
130	1705515-1MSD ...	371899.18	90.5	6586363.24	91.7	1950617.05	92.0
131	1705515-3 10X	374322.77	91.1	6632735.11	92.3	1961544.19	92.5
132	1706185-1 100X	365289.27	88.9	6487714.49	90.3	1936249.92	91.3
133	CCV	381504.60	92.9	6775328.44	94.3	2019395.08	95.2
134	CCB	385478.35	93.8	6999772.19	97.4	2067031.38	97.5
135	1706185-3 100X	369295.60	89.9	6437708.24	89.6	1941637.79	91.6
136	1706193-1 100X	368571.91	89.7	6460536.78	89.9	1929954.87	91.0
137	1706193-2 100X	370944.02	90.3	6578616.98	91.6	1935983.04	91.3
138	1706201-1 10X	374856.78	91.2	6661590.94	92.7	1983040.80	93.5
139	1706271-1 100X	331333.93	80.7	5853033.25	81.5	1739846.75	82.0
140	1706271-2 100X	379944.10	92.5	6746261.15	93.9	2001901.43	94.4
141	1706286-1 100X	376857.86	91.7	6700182.61	93.3	1991752.42	93.9
142	1706286-3 100X	371876.29	90.5	6592498.44	91.8	1951469.66	92.0
143	LCV	383581.04	93.4	6795429.90	94.6	2027088.41	95.6
144	CCV	379134.85	92.3	6695641.15	93.2	1986233.04	93.7
145	CCB	381767.08	92.9	6928260.73	96.5	2031687.42	95.8

Batch Folder: C:\ICPMH\1\DATA\17F14k00.B\
Analysis File: 17F14k00.batch.xml
DA Date-Time: 6/15/2017 10:54:52
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:
Tune Step: #1 nogas.u
#2 hehe.u

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.D	blank	6/14/2017 10:19:21
2	005CALS.D	H/1000	6/14/2017 10:25:18
3	006CALS.D	H/100	6/14/2017 10:28:17
4	007CALS.D	H/10	6/14/2017 10:31:17
5	008CALS.D	HIGH	6/14/2017 10:37:10
6			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2081.48		P	2.3
2	<input type="checkbox"/>	1.0000	1.1274	36463.11		P	2.3
3	<input type="checkbox"/>	10.0000	11.1108	340930.65		P	1.9
4	<input type="checkbox"/>	100.0000	104.6704	3194254.67		A	1.4
5	<input type="checkbox"/>	1000.0000	999.5217	30484864.00		A	2.1
6	<input type="checkbox"/>	200.0000					

$$y = 30497.3688 * x + 2081.4767$$

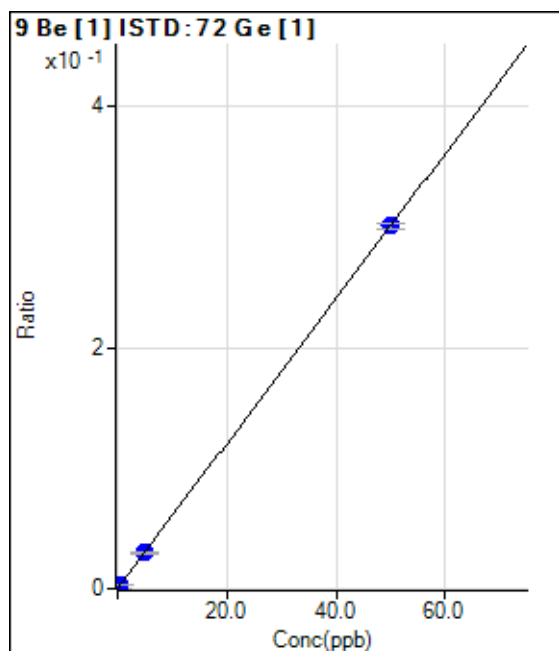
$$R = 1.0000$$

$$DL = 0.004728$$

$$BEC = 0.06825$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	18.67	0.0000	P	17.1
2	<input type="checkbox"/>	0.0500	0.0479	531.34	0.0003	P	5.6
3	<input type="checkbox"/>	0.5000	0.5073	5388.23	0.0031	P	3.1
4	<input type="checkbox"/>	5.0000	4.9201	51265.90	0.0296	P	3.2
5	<input type="checkbox"/>	50.0000	50.0079	510265.84	0.3009	P	1.6
6	<input type="checkbox"/>	10.0000					

$$y = 0.0060 * x + 1.0493E-005$$

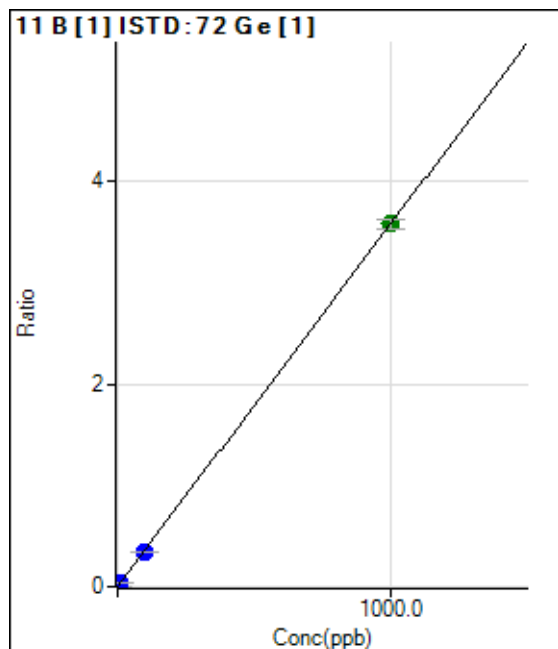
$$R = 1.0000$$

$$DL = 0.0008932$$

$$BEC = 0.001744$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1854.57	0.0010	P	1.1
2	<input type="checkbox"/>	1.0000	1.2397	9751.82	0.0055	P	2.6
3	<input type="checkbox"/>	10.0000	9.9982	64793.95	0.0368	P	2.0
4	<input type="checkbox"/>	100.0000	95.7038	594668.80	0.3436	P	2.5
5	<input type="checkbox"/>	1000.0000	1000.4294	6073153.65	3.5815	A	2.4
6	<input type="checkbox"/>	200.0000					

$$y = 0.0036 * x + 0.0010$$

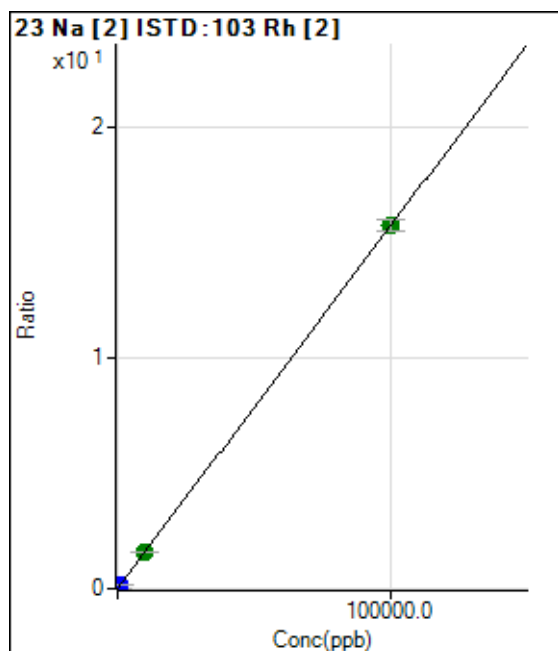
$$R = 1.0000$$

$$DL = 0.009573$$

$$BEC = 0.2911$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	16408.80	0.0062	P	2.4
2	<input type="checkbox"/>	100.0000	107.4904	61484.24	0.0230	P	0.8
3	<input type="checkbox"/>	1000.0000	1035.2477	449270.41	0.1686	P	1.0
4	<input type="checkbox"/>	10000.0000	9859.5945	4032434.32	1.5533	A	1.7
5	<input type="checkbox"/>	100000.0000	100013.6806	38575355.26	15.6998	A	3.2
6	<input type="checkbox"/>	20000.0000					

$$y = 1.5692E-004 * x + 0.0062$$

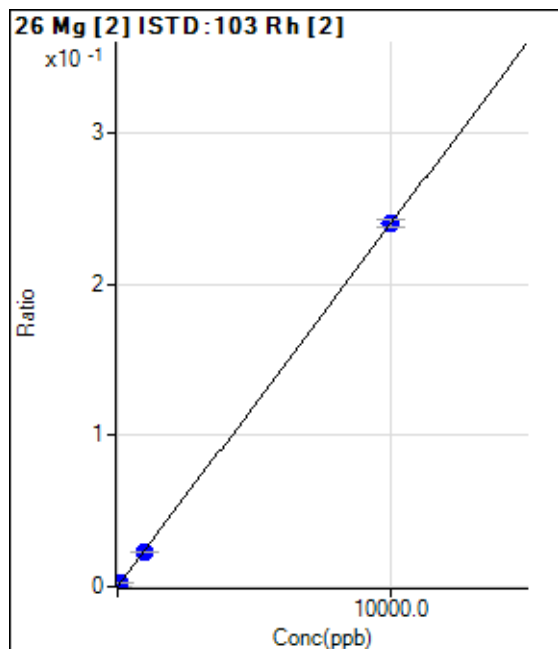
$$R = 1.0000$$

$$DL = 2.851$$

$$BEC = 39.35$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	13.33	0.0000	P	45.4
2	<input type="checkbox"/>	10.0000	9.8438	643.38	0.0002	P	11.3
3	<input type="checkbox"/>	100.0000	99.3319	6358.22	0.0024	P	2.4
4	<input type="checkbox"/>	1000.0000	968.0949	60258.75	0.0232	P	0.3
5	<input type="checkbox"/>	10000.0000	10003.1973	589233.40	0.2398	P	2.1
6	<input type="checkbox"/>	2000.0000					

$$y = 2.3970\text{E-}005 * x + 5.0469\text{E-}006$$

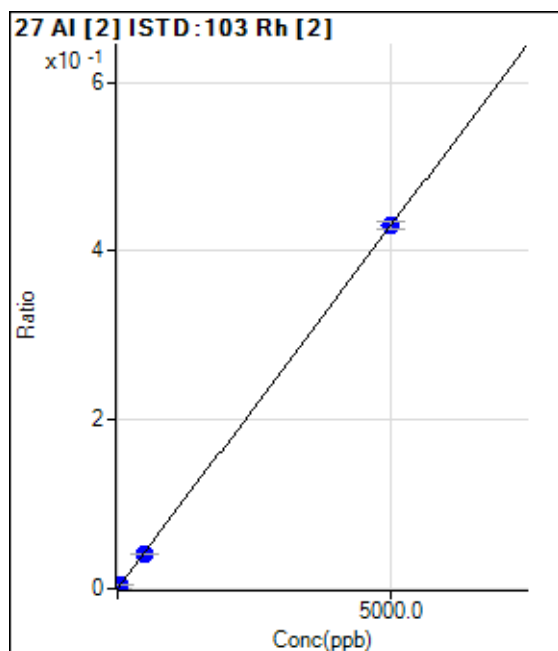
$$R = 1.0000$$

$$DL = 0.2869$$

$$BEC = 0.2106$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	60.00	0.0000	P	2.2
2	<input type="checkbox"/>	5.0000	5.5238	1326.78	0.0005	P	0.9
3	<input type="checkbox"/>	50.0000	50.5424	11634.60	0.0044	P	3.8
4	<input type="checkbox"/>	500.0000	474.6615	105950.13	0.0408	P	0.8
5	<input type="checkbox"/>	5000.0000	5002.5279	1056338.09	0.4299	P	2.0
6	<input type="checkbox"/>	1000.0000					

$$y = 8.5928\text{E-}005 * x + 2.2588\text{E-}005$$

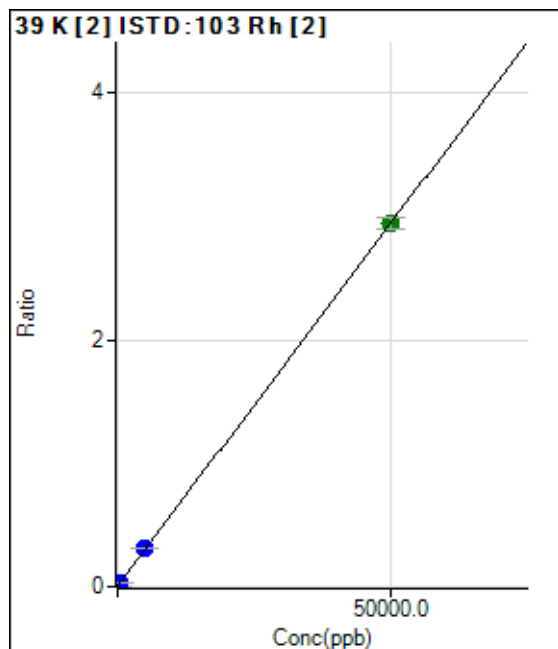
$$R = 1.0000$$

$$DL = 0.0173$$

$$BEC = 0.2629$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	10317.00	0.0039	P	2.2
2	<input type="checkbox"/>	50.0000	52.8989	18651.20	0.0070	P	6.7
3	<input type="checkbox"/>	500.0000	532.3505	93704.22	0.0352	P	1.8
4	<input type="checkbox"/>	5000.0000	5181.0618	800566.26	0.3084	P	1.9
5	<input type="checkbox"/>	50000.0000	49981.5674	7227136.98	2.9414	A	3.3
6	<input type="checkbox"/>	10000.0000					

$$y = 5.8771E-005 * x + 0.0039$$

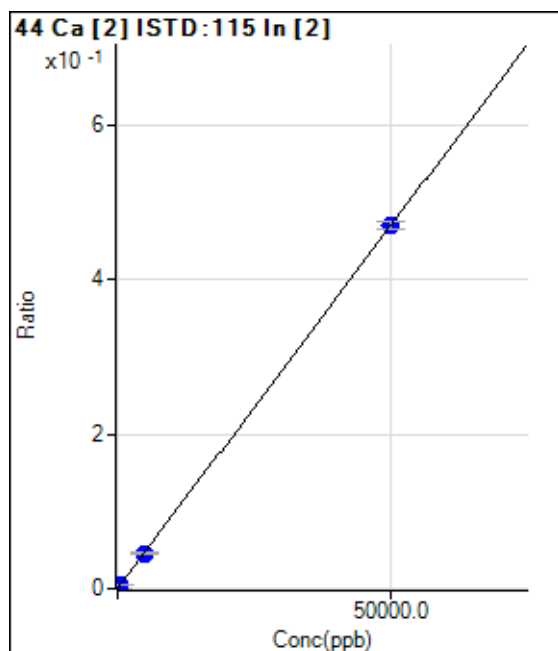
$$R = 1.0000$$

$$DL = 4.283$$

$$BEC = 66.06$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	88.11	0.0001	P	1.7
2	<input type="checkbox"/>	50.0000	52.1458	898.44	0.0005	P	10.8
3	<input type="checkbox"/>	500.0000	521.9123	8207.65	0.0050	P	2.2
4	<input type="checkbox"/>	5000.0000	4849.9087	74578.94	0.0456	P	3.0
5	<input type="checkbox"/>	50000.0000	50014.7879	736224.68	0.4701	P	2.2
6	<input type="checkbox"/>	10000.0000					

$$y = 9.3990E-006 * x + 5.3948E-005$$

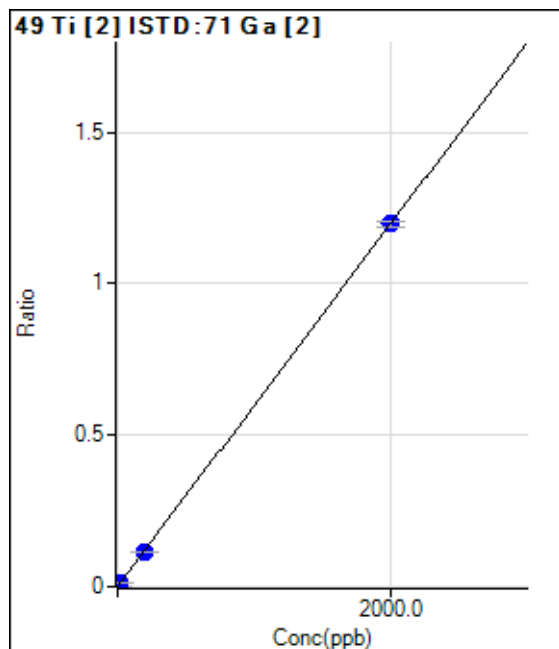
$$R = 1.0000$$

$$DL = 0.298$$

$$BEC = 5.74$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	23.34	0.0001	P	107.9
2	<input type="checkbox"/>	2.0000	1.7322	290.02	0.0011	P	17.8
3	<input type="checkbox"/>	20.0000	20.6424	3187.12	0.0124	P	8.6
4	<input type="checkbox"/>	200.0000	191.1869	29143.33	0.1145	P	4.2
5	<input type="checkbox"/>	2000.0000	2000.8752	298086.05	1.1972	P	1.5
6	<input type="checkbox"/>	400.0000					

$$y = 5.9830E-004 * x + 9.0336E-005$$

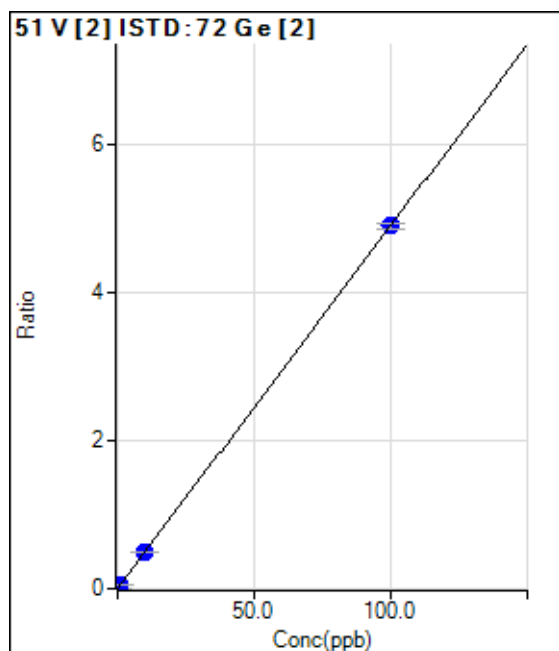
R = 1.0000

DL = 0.4886

BEC = 0.151

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	288.00	0.0025	P	3.7
2	<input type="checkbox"/>	0.1000	0.1231	992.37	0.0085	P	3.1
3	<input type="checkbox"/>	1.0000	1.0404	6155.83	0.0535	P	3.8
4	<input type="checkbox"/>	10.0000	9.9040	55756.74	0.4879	P	1.6
5	<input type="checkbox"/>	100.0000	100.0092	556597.60	4.9037	P	1.8
6	<input type="checkbox"/>	20.0000					

$$y = 0.0490 * x + 0.0025$$

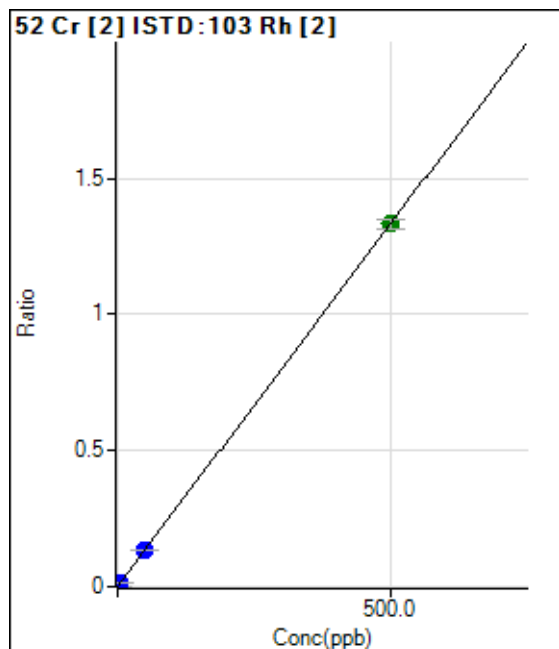
R = 1.0000

DL = 0.005556

BEC = 0.05055

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1632.32	0.0006	P	11.0
2	<input type="checkbox"/>	0.5000	0.5965	5880.01	0.0022	P	2.1
3	<input type="checkbox"/>	5.0000	5.1873	38438.10	0.0144	P	2.6
4	<input type="checkbox"/>	50.0000	49.8747	346375.84	0.1334	P	1.1
5	<input type="checkbox"/>	500.0000	500.0106	3272889.10	1.3320	A	3.0
6	<input type="checkbox"/>	100.0000					

$$y = 0.0027 * x + 6.1531E-004$$

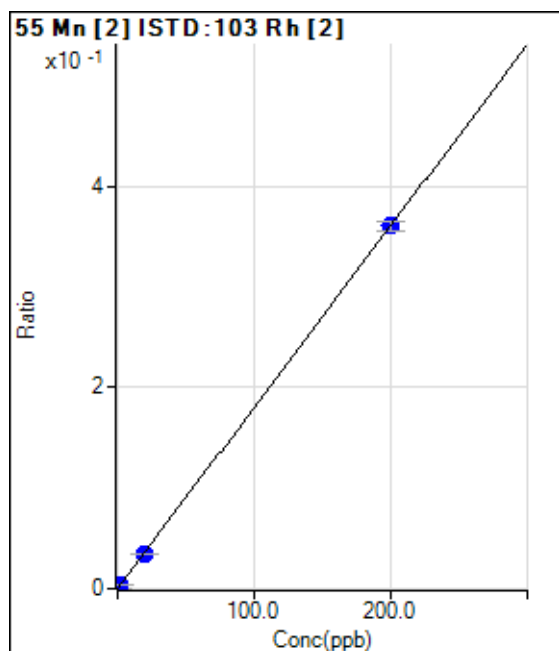
$$R = 1.0000$$

$$DL = 0.07631$$

$$BEC = 0.2311$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	107.78	0.0000	P	31.8
2	<input type="checkbox"/>	0.2000	0.2443	1283.40	0.0005	P	3.3
3	<input type="checkbox"/>	2.0000	2.0332	9875.31	0.0037	P	0.0
4	<input type="checkbox"/>	20.0000	19.4344	91073.96	0.0351	P	0.6
5	<input type="checkbox"/>	200.0000	200.0562	886392.14	0.3607	P	3.0
6	<input type="checkbox"/>	40.0000					

$$y = 0.0018 * x + 4.0500E-005$$

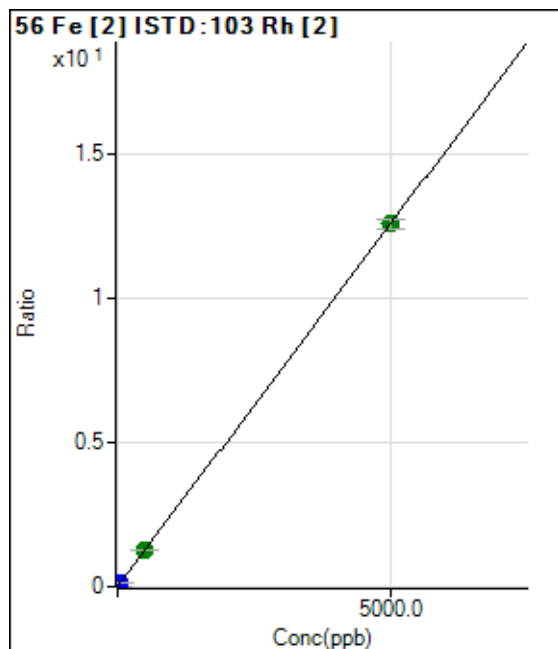
$$R = 1.0000$$

$$DL = 0.02142$$

$$BEC = 0.02246$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	4577.53	0.0017	P	7.0
2	<input type="checkbox"/>	5.0000	6.1968	46159.31	0.0173	P	1.6
3	<input type="checkbox"/>	50.0000	53.5665	363369.55	0.1364	P	1.0
4	<input type="checkbox"/>	500.0000	501.5463	3277726.82	1.2625	A	1.3
5	<input type="checkbox"/>	5000.0000	4999.8085	30888472.87	12.5704	A	2.9
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0025 * x + 0.0017$$

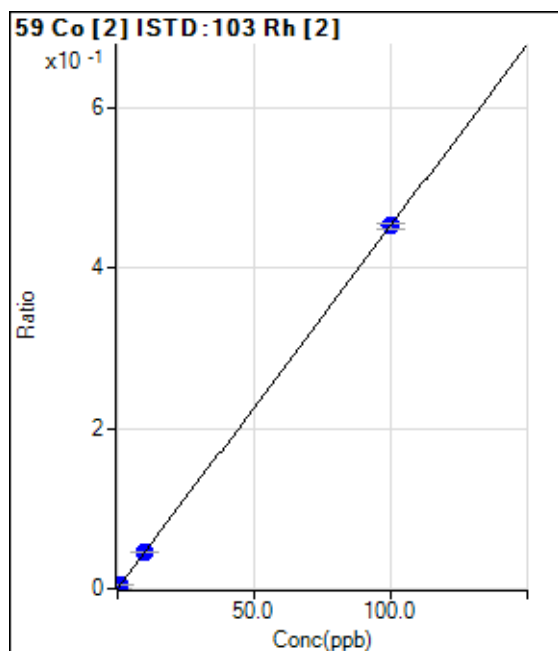
$$R = 1.0000$$

$$DL = 0.144$$

$$BEC = 0.6849$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	22.22	0.0000	P	33.4
2	<input type="checkbox"/>	0.1000	0.1009	1238.95	0.0005	P	6.1
3	<input type="checkbox"/>	1.0000	1.0127	12218.03	0.0046	P	1.2
4	<input type="checkbox"/>	10.0000	9.8786	115934.60	0.0447	P	0.8
5	<input type="checkbox"/>	100.0000	100.0120	1110809.96	0.4520	P	1.6
6	<input type="checkbox"/>	20.0000					

$$y = 0.0045 * x + 8.4030E-006$$

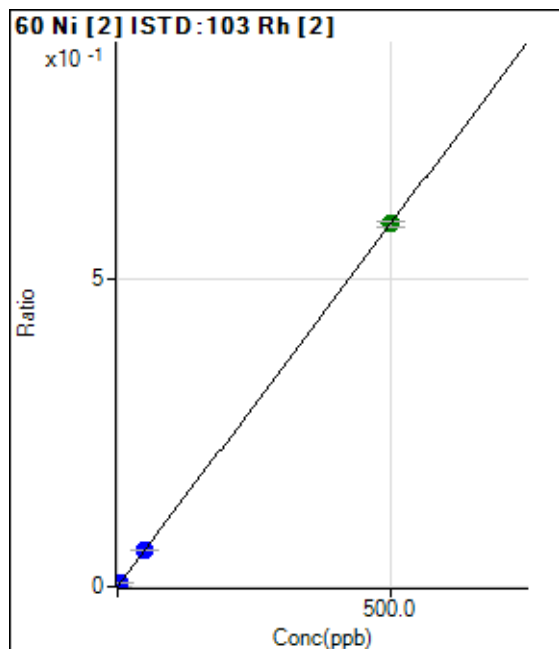
$$R = 1.0000$$

$$DL = 0.001862$$

$$BEC = 0.001859$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	145.56	0.0001	P	27.6
2	<input type="checkbox"/>	0.5000	0.5416	1849.03	0.0007	P	2.6
3	<input type="checkbox"/>	5.0000	5.1514	16323.84	0.0061	P	1.7
4	<input type="checkbox"/>	50.0000	49.4905	151588.12	0.0584	P	0.6
5	<input type="checkbox"/>	500.0000	500.0494	1448552.82	0.5895	A	1.6
6	<input type="checkbox"/>	100.0000					

$$y = 0.0012 * x + 5.4589E-005$$

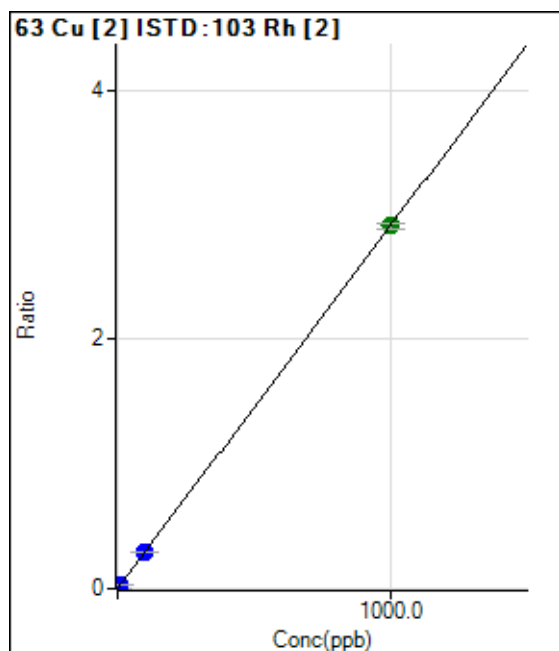
$$R = 1.0000$$

$$DL = 0.03838$$

$$BEC = 0.04631$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1201.17	0.0005	P	4.3
2	<input type="checkbox"/>	1.0000	1.0666	9493.99	0.0036	P	2.4
3	<input type="checkbox"/>	10.0000	10.6465	83810.63	0.0315	P	1.7
4	<input type="checkbox"/>	100.0000	102.8293	778654.27	0.2999	P	0.5
5	<input type="checkbox"/>	1000.0000	999.7105	7155695.83	2.9119	A	1.9
6	<input type="checkbox"/>	200.0000					

$$y = 0.0029 * x + 4.5182E-004$$

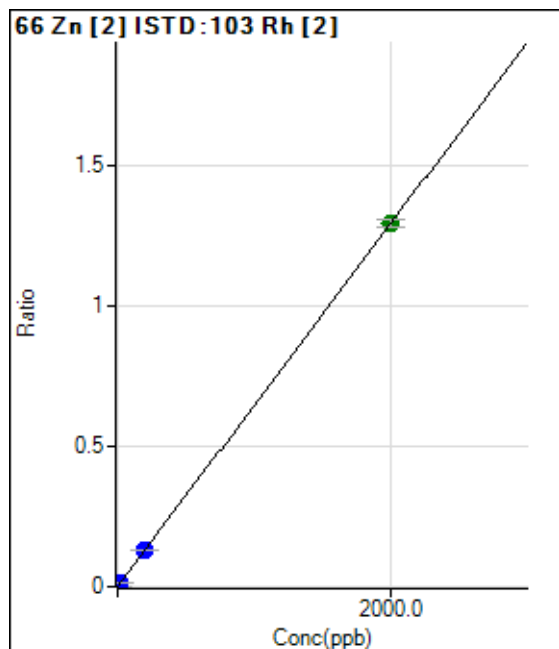
$$R = 1.0000$$

$$DL = 0.01986$$

$$BEC = 0.1551$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	123.34	0.0000	P	47.7
2	<input type="checkbox"/>	2.0000	2.2402	3980.67	0.0015	P	6.3
3	<input type="checkbox"/>	20.0000	20.4215	35242.28	0.0132	P	2.9
4	<input type="checkbox"/>	200.0000	200.3534	335752.05	0.1293	P	2.3
5	<input type="checkbox"/>	2000.0000	1999.9602	3171420.27	1.2906	A	2.1
6	<input type="checkbox"/>	400.0000					

$$y = 6.4530\text{E-}004 * x + 4.6210\text{E-}005$$

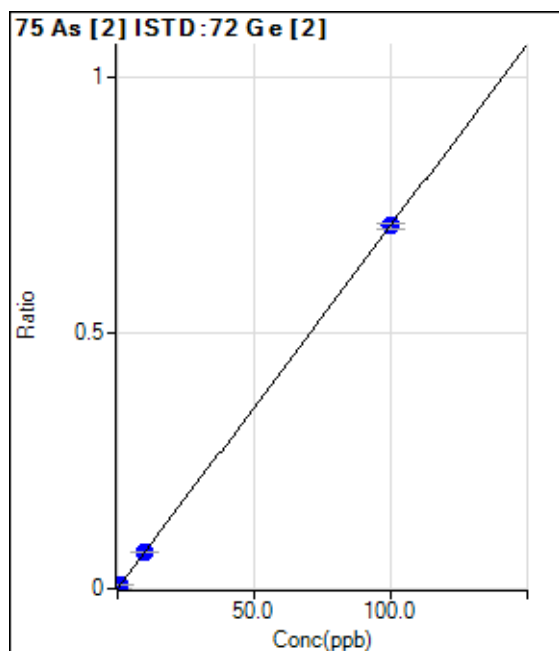
$$R = 1.0000$$

$$DL = 0.1025$$

$$BEC = 0.07161$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	5.00	0.0000	P	91.4
2	<input type="checkbox"/>	0.1000	0.1088	95.00	0.0008	P	18.1
3	<input type="checkbox"/>	1.0000	1.0431	854.69	0.0074	P	7.3
4	<input type="checkbox"/>	10.0000	10.1844	8246.78	0.0722	P	2.0
5	<input type="checkbox"/>	100.0000	99.9811	80363.49	0.7080	P	1.5
6	<input type="checkbox"/>	20.0000					

$$y = 0.0071 * x + 4.3133\text{E-}005$$

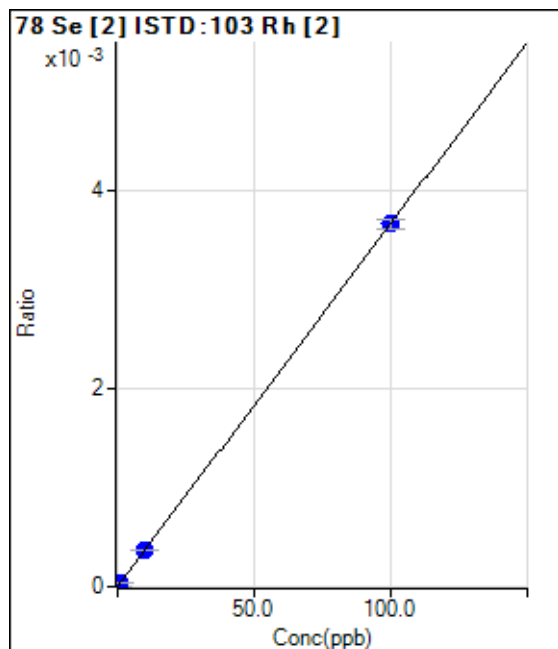
$$R = 1.0000$$

$$DL = 0.01671$$

$$BEC = 0.006092$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2.93	0.0000	P	15.9
2	<input type="checkbox"/>	0.1000	0.1115	13.87	0.0000	P	18.3
3	<input type="checkbox"/>	1.0000	1.0349	104.13	0.0000	P	12.1
4	<input type="checkbox"/>	10.0000	9.9697	951.90	0.0004	P	3.6
5	<input type="checkbox"/>	100.0000	100.0027	9013.83	0.0037	P	2.3
6	<input type="checkbox"/>	20.0000					

$$y = 3.6671\text{E-}005 * x + 1.1043\text{E-}006$$

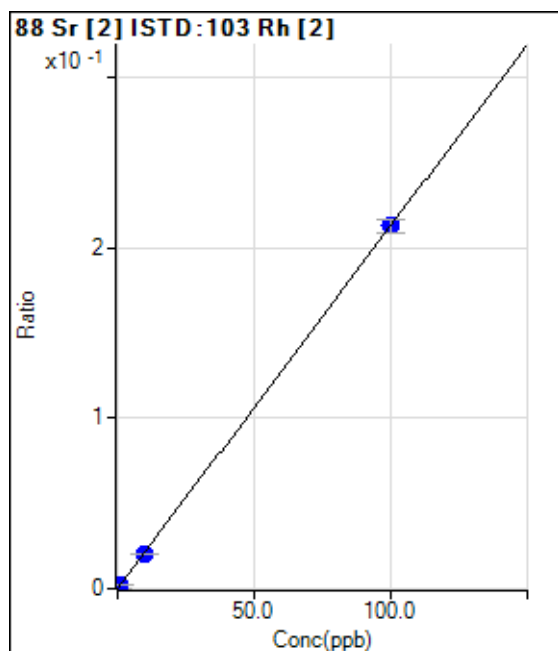
R = 1.0000

DL = 0.01437

BEC = 0.03011

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	70.00	0.0000	P	35.8
2	<input type="checkbox"/>	0.1000	0.1286	800.06	0.0003	P	14.6
3	<input type="checkbox"/>	1.0000	1.0859	6221.48	0.0023	P	6.9
4	<input type="checkbox"/>	10.0000	9.4987	52510.76	0.0202	P	3.4
5	<input type="checkbox"/>	100.0000	100.0492	522816.54	0.2128	P	3.6
6	<input type="checkbox"/>	20.0000					

$$y = 0.0021 * x + 2.6243\text{E-}005$$

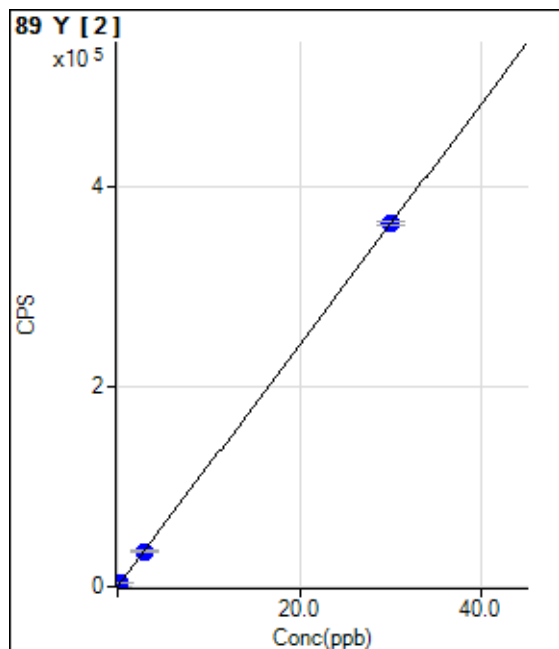
R = 1.0000

DL = 0.01326

BEC = 0.01234

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	23.33		P	99.0
2	<input type="checkbox"/>	0.0300	0.0317	406.69		P	25.1
3	<input type="checkbox"/>	0.3000	0.3040	3703.96		P	3.0
4	<input type="checkbox"/>	3.0000	2.9159	35326.60		P	4.2
5	<input type="checkbox"/>	30.0000	30.0084	363341.53		P	1.2
6	<input type="checkbox"/>	6.0000					

$$y = 12107.2287 * x + 23.3333$$

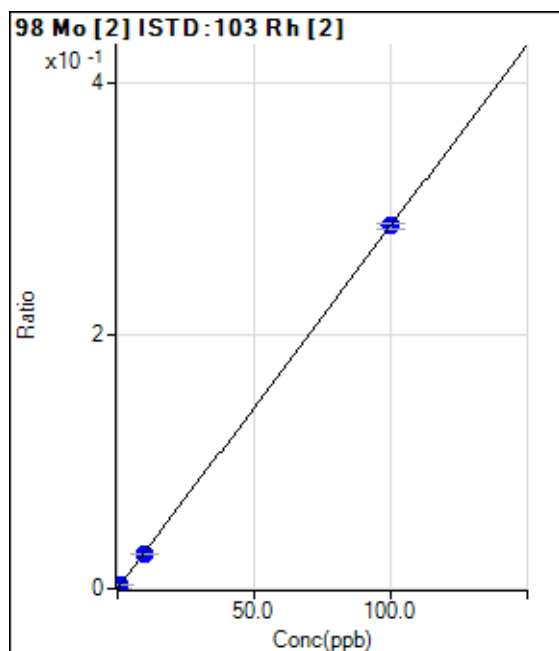
$$R = 1.0000$$

$$DL = 0.005722$$

$$BEC = 0.001927$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	18.89	0.0000	P	79.8
2	<input type="checkbox"/>	0.1000	0.0906	711.14	0.0003	P	6.4
3	<input type="checkbox"/>	1.0000	0.9482	7252.86	0.0027	P	0.4
4	<input type="checkbox"/>	10.0000	9.4876	70538.68	0.0272	P	2.7
5	<input type="checkbox"/>	100.0000	100.0518	703962.73	0.2865	P	1.9
6	<input type="checkbox"/>	20.0000					

$$y = 0.0029 * x + 7.0652E-006$$

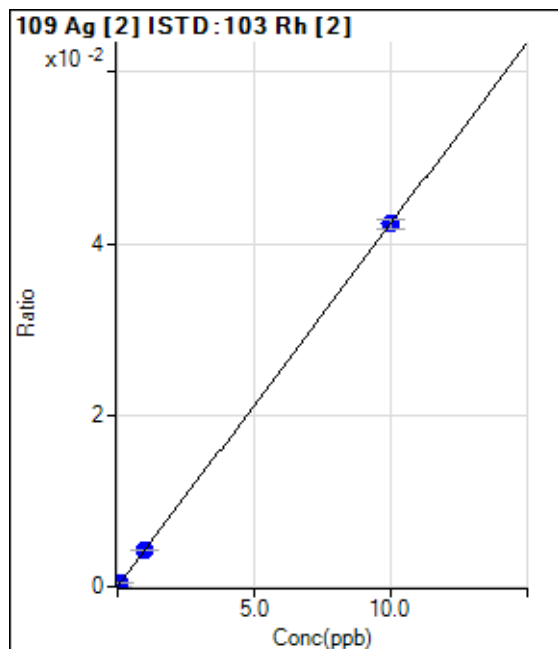
$$R = 1.0000$$

$$DL = 0.005911$$

$$BEC = 0.002468$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	25.56	0.0000	P	37.7
2	<input type="checkbox"/>	0.0100	0.0092	130.00	0.0000	P	19.9
3	<input type="checkbox"/>	0.1000	0.1018	1172.29	0.0004	P	5.2
4	<input type="checkbox"/>	1.0000	1.0011	11010.65	0.0042	P	2.4
5	<input type="checkbox"/>	10.0000	9.9999	103893.41	0.0423	P	2.4
6	<input type="checkbox"/>	2.0000					

$$y = 0.0042 * x + 9.6220E-006$$

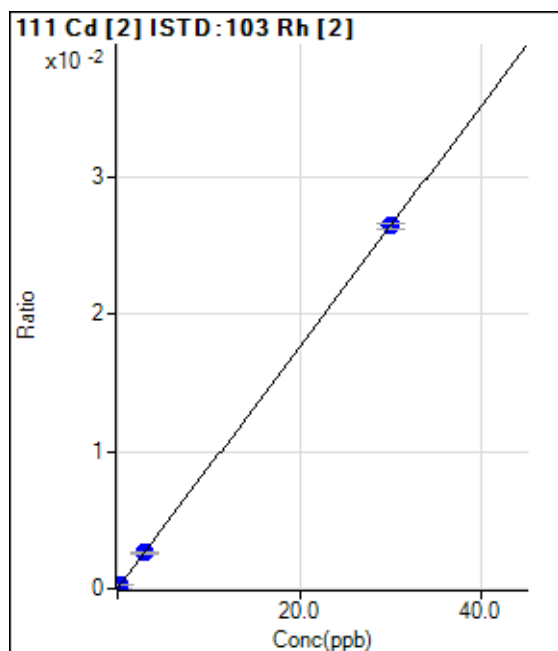
$$R = 1.0000$$

$$DL = 0.002576$$

$$BEC = 0.002276$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	8.67	0.0000	P	58.0
2	<input type="checkbox"/>	0.0300	0.0298	78.60	0.0000	P	12.5
3	<input type="checkbox"/>	0.3000	0.2914	691.31	0.0003	P	1.8
4	<input type="checkbox"/>	3.0000	2.9444	6729.83	0.0026	P	2.2
5	<input type="checkbox"/>	30.0000	30.0056	64846.10	0.0264	P	1.7
6	<input type="checkbox"/>	6.0000					

$$y = 8.7934E-004 * x + 3.2520E-006$$

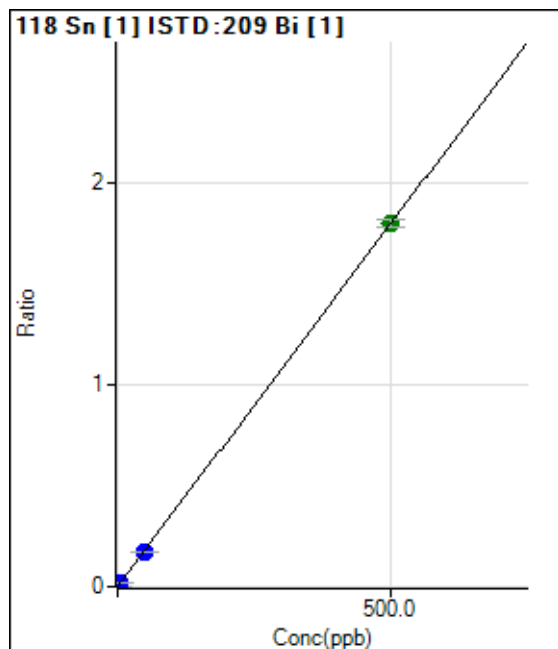
$$R = 1.0000$$

$$DL = 0.006433$$

$$BEC = 0.003698$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2186.26	0.0003	P	38.5
2	<input type="checkbox"/>	0.5000	0.4848	14537.49	0.0020	P	6.9
3	<input type="checkbox"/>	5.0000	5.1155	130484.89	0.0187	P	1.4
4	<input type="checkbox"/>	50.0000	48.4719	1212477.98	0.1745	P	1.5
5	<input type="checkbox"/>	500.0000	500.1517	11681483.99	1.7981	A	2.2
6	<input type="checkbox"/>	100.0000					

$$y = 0.0036 * x + 3.0522E-004$$

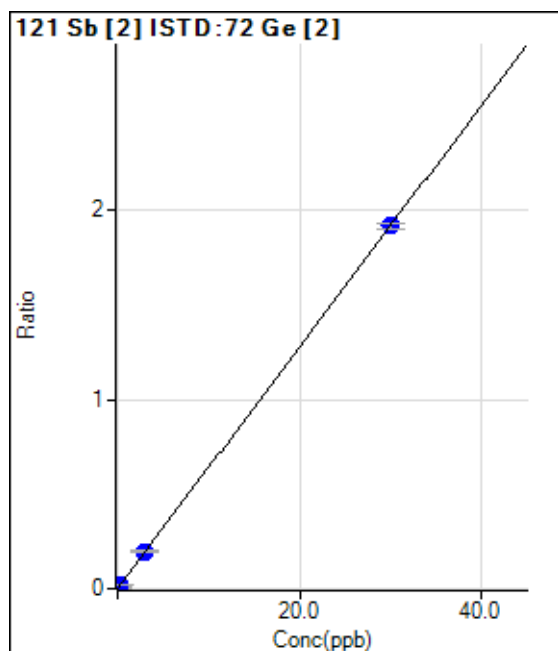
$$R = 1.0000$$

$$DL = 0.09806$$

$$BEC = 0.08491$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	26.67	0.0002	P	33.9
2	<input type="checkbox"/>	0.0300	0.1055	814.48	0.0070	P	2.7
3	<input type="checkbox"/>	0.3000	0.3199	2384.66	0.0207	P	1.6
4	<input type="checkbox"/>	3.0000	3.0783	22543.12	0.1972	P	2.1
5	<input type="checkbox"/>	30.0000	29.9919	217882.74	1.9197	P	1.9
6	<input type="checkbox"/>	6.0000					

$$y = 0.0640 * x + 2.2983E-004$$

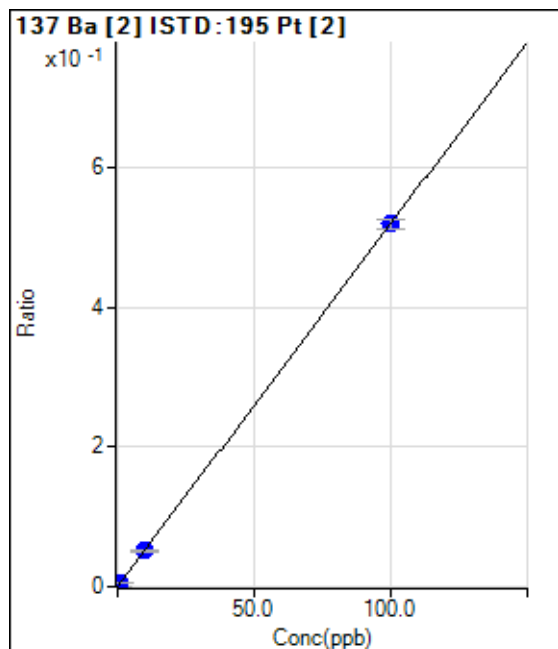
$$R = 1.0000$$

$$DL = 0.003652$$

$$BEC = 0.003591$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0332	103.34	0.0003	P	45.7
2	<input type="checkbox"/>	0.1000	0.1637	380.03	0.0009	P	22.1
3	<input type="checkbox"/>	1.0000	1.0120	2173.61	0.0053	P	7.6
4	<input type="checkbox"/>	10.0000	9.8792	20868.17	0.0515	P	4.6
5	<input type="checkbox"/>	100.0000	100.0119	200984.43	0.5203	P	2.9
6	<input type="checkbox"/>	20.0000					

$$y = 0.0052 * x + 7.8367E-005$$

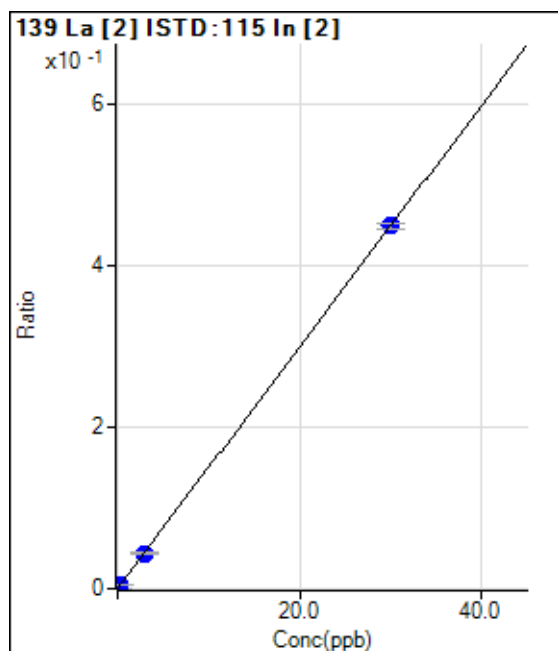
$$R = 1.0000$$

$$DL = 0.06617$$

$$BEC = 0.01506$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	33.33	0.0000	P	35.2
2	<input type="checkbox"/>	0.0300	0.0355	910.07	0.0006	P	24.6
3	<input type="checkbox"/>	0.3000	0.3156	7842.33	0.0047	P	2.8
4	<input type="checkbox"/>	3.0000	2.9329	71704.56	0.0439	P	1.2
5	<input type="checkbox"/>	30.0000	30.0065	702642.13	0.4487	P	1.4
6	<input type="checkbox"/>	6.0000					

$$y = 0.0150 * x + 2.0445E-005$$

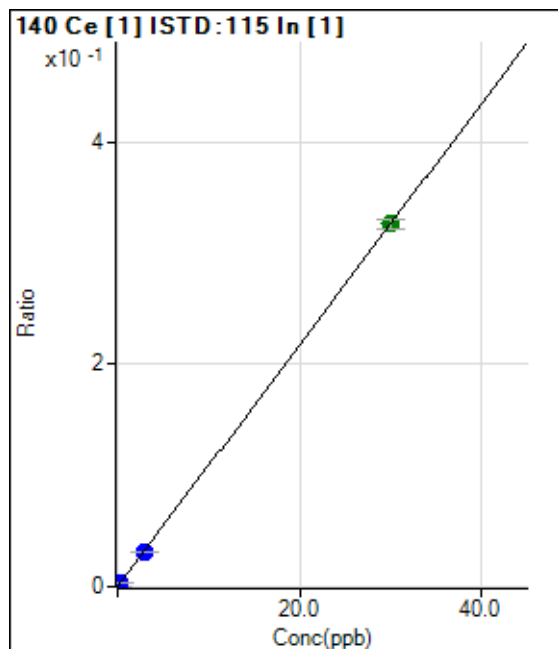
$$R = 1.0000$$

$$DL = 0.001444$$

$$BEC = 0.001367$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	186.68	0.0000	P	22.9
2	<input type="checkbox"/>	0.0300	0.0304	3657.29	0.0003	P	2.8
3	<input type="checkbox"/>	0.3000	0.2975	33841.74	0.0032	P	3.0
4	<input type="checkbox"/>	3.0000	2.8882	324509.39	0.0314	P	1.3
5	<input type="checkbox"/>	30.0000	30.0112	3221331.93	0.3261	A	2.5
6	<input type="checkbox"/>	6.0000					

$$y = 0.0109 * x + 1.7620E-005$$

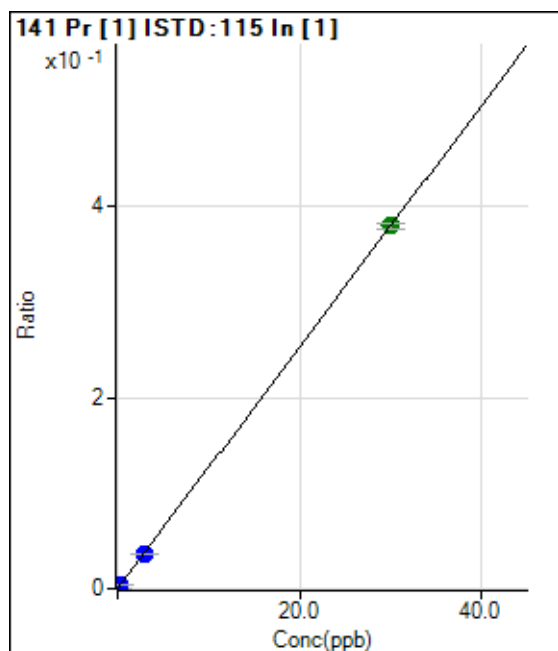
$$R = 1.0000$$

$$DL = 0.001114$$

$$BEC = 0.001622$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	20.00	0.0000	P	98.9
2	<input type="checkbox"/>	0.0300	0.0313	4187.45	0.0004	P	8.1
3	<input type="checkbox"/>	0.3000	0.3020	39826.10	0.0038	P	0.8
4	<input type="checkbox"/>	3.0000	2.8713	375615.37	0.0363	P	1.3
5	<input type="checkbox"/>	30.0000	30.0129	3752225.67	0.3798	A	1.4
6	<input type="checkbox"/>	6.0000					

$$y = 0.0127 * x + 1.8751E-006$$

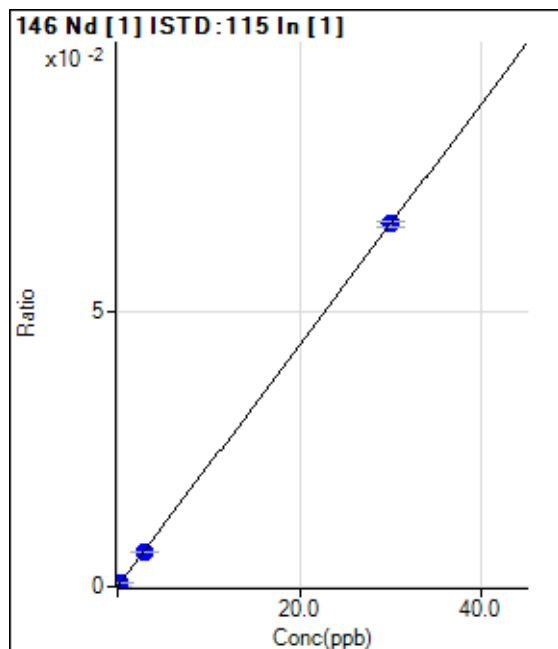
$$R = 1.0000$$

$$DL = 0.0004396$$

$$BEC = 0.0001482$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	23.33	0.0000	P	89.7
2	<input type="checkbox"/>	0.0300	0.0333	793.39	0.0001	P	3.1
3	<input type="checkbox"/>	0.3000	0.3045	7008.60	0.0007	P	5.6
4	<input type="checkbox"/>	3.0000	2.8684	65306.77	0.0063	P	3.0
5	<input type="checkbox"/>	30.0000	30.0131	653090.12	0.0661	P	1.4
6	<input type="checkbox"/>	6.0000					

$$y = 0.0022 * x + 2.1958E-006$$

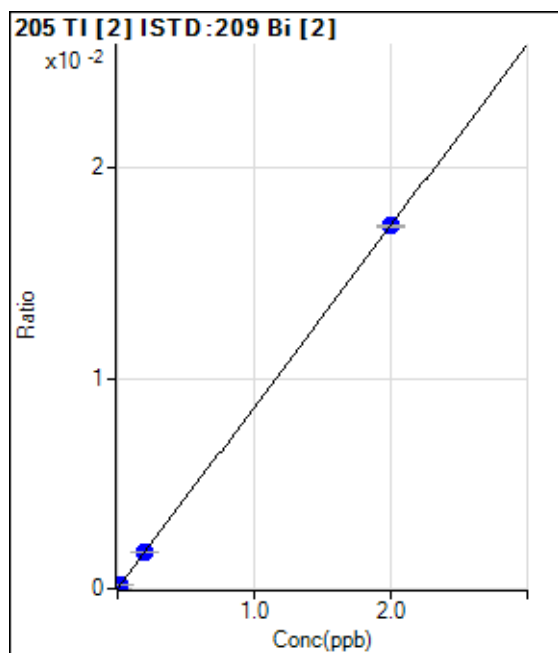
$$R = 1.0000$$

$$DL = 0.002683$$

$$BEC = 0.000997$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	15.71	0.0000	P	45.8
2	<input type="checkbox"/>	0.0020	0.0023	57.62	0.0000	P	23.3
3	<input type="checkbox"/>	0.0200	0.0206	390.48	0.0002	P	7.1
4	<input type="checkbox"/>	0.2000	0.1997	3607.13	0.0017	P	4.3
5	<input type="checkbox"/>	2.0000	2.0000	33916.28	0.0172	P	0.5
6	<input type="checkbox"/>	0.4000					

$$y = 0.0086 * x + 7.4212E-006$$

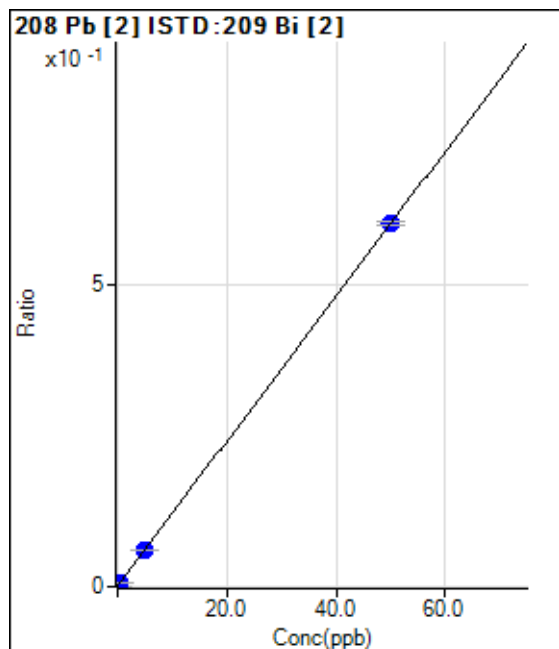
$$R = 1.0000$$

$$DL = 0.001182$$

$$BEC = 0.0008609$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	-0.0190	1330.11	0.0006	P	36.3
2	<input type="checkbox"/>	0.0500	0.0359	2726.95	0.0013	P	11.5
3	<input type="checkbox"/>	0.5000	0.4982	14406.80	0.0068	P	2.9
4	<input type="checkbox"/>	5.0000	5.0387	127637.76	0.0612	P	1.8
5	<input type="checkbox"/>	50.0000	49.9962	1178483.82	0.5994	P	1.0
6	<input type="checkbox"/>	10.0000					

$$y = 0.0120 * x + 8.5359E-004$$

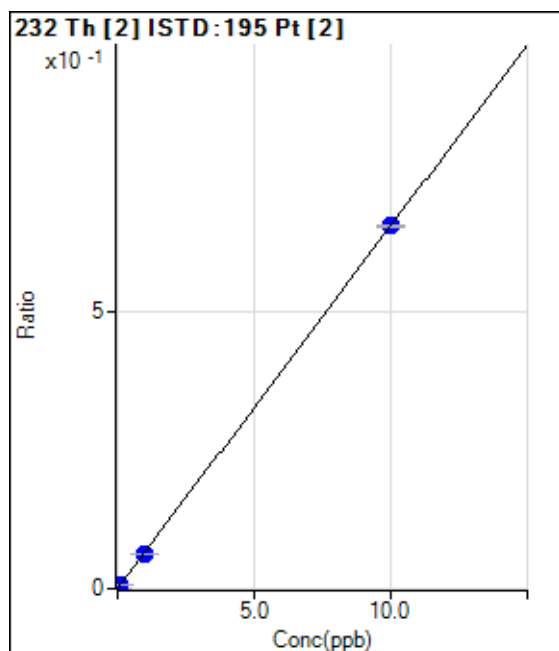
$$R = 1.0000$$

$$DL = 0.05707$$

$$BEC = 0.0713$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	25.56	0.0001	P	67.5
2	<input type="checkbox"/>	0.0100	0.0083	247.78	0.0006	P	17.3
3	<input type="checkbox"/>	0.1000	0.0903	2434.69	0.0060	P	10.9
4	<input type="checkbox"/>	1.0000	0.9339	24862.60	0.0613	P	1.0
5	<input type="checkbox"/>	10.0000	10.0067	253423.90	0.6560	P	0.8
6	<input type="checkbox"/>	2.0000					

$$y = 0.0655 * x + 6.2698E-005$$

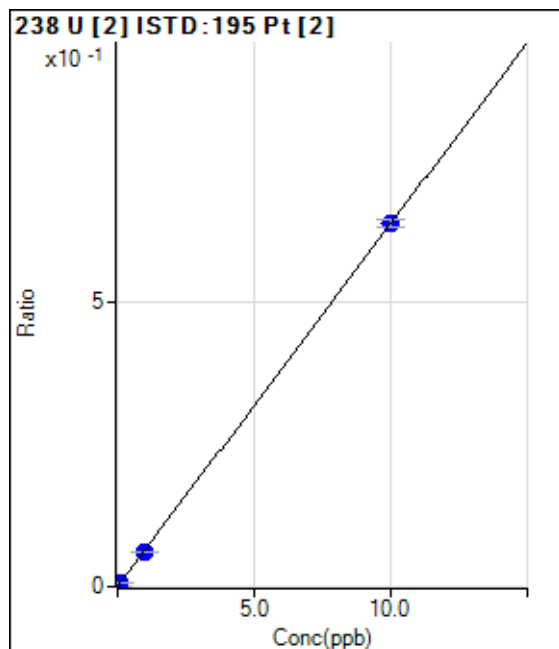
$$R = 1.0000$$

$$DL = 0.001938$$

$$BEC = 0.0009565$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	18.89	0.0000	P	90.6
2	<input type="checkbox"/>	0.0100	0.0102	284.45	0.0007	P	18.9
3	<input type="checkbox"/>	0.1000	0.1069	2788.09	0.0069	P	5.6
4	<input type="checkbox"/>	1.0000	0.9659	24980.55	0.0616	P	2.4
5	<input type="checkbox"/>	10.0000	10.0033	246191.67	0.6374	P	2.0
6	<input type="checkbox"/>	2.0000					

$$y = 0.0637 * x + 4.6458E-005$$

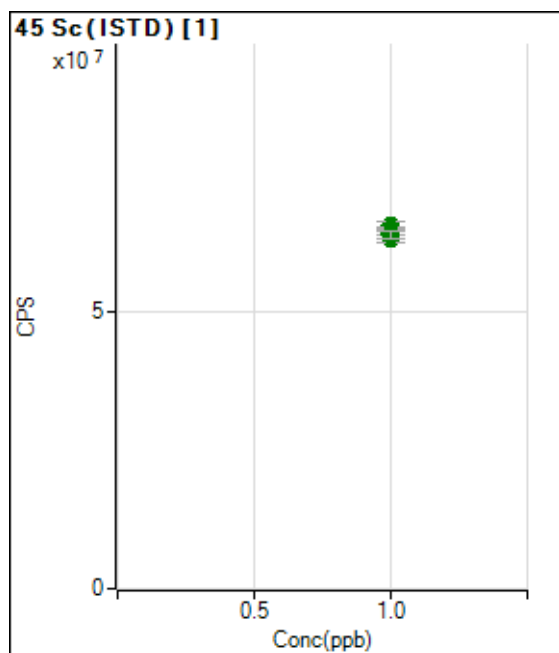
$$R = 1.0000$$

$$DL = 0.001981$$

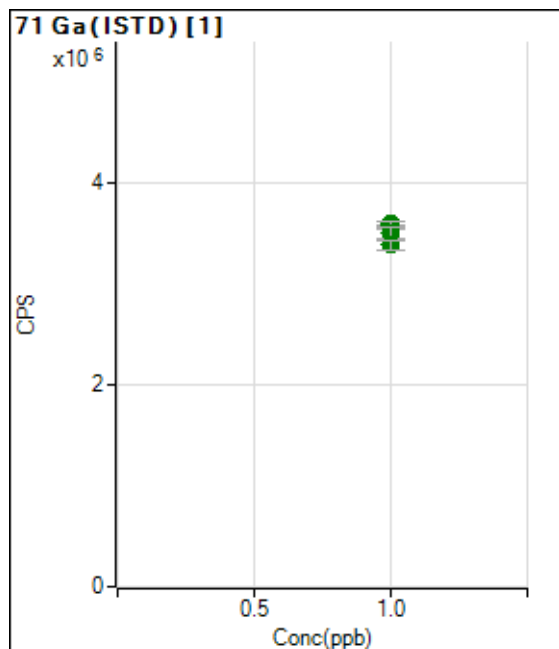
$$BEC = 0.0007292$$

Weight: None

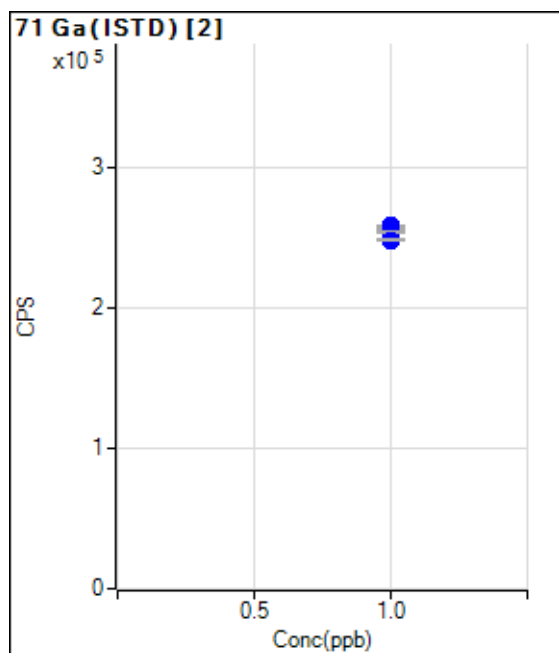
Min Conc: <None>



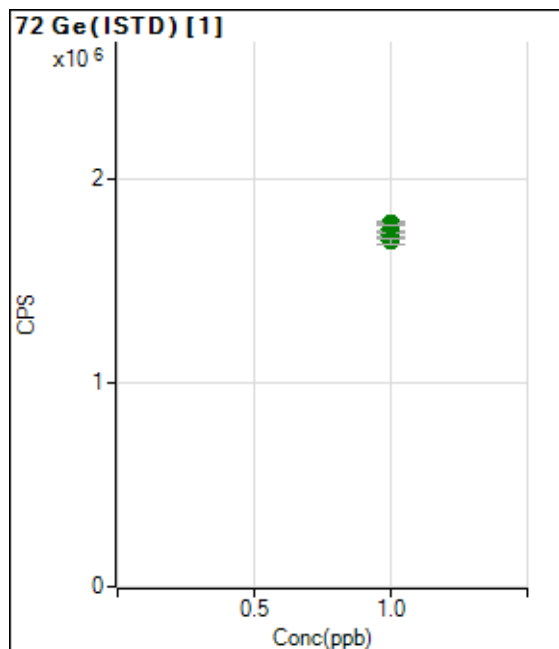
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		65309640.69		A	2.2
2	<input type="checkbox"/>	1.0000		64870872.36		A	1.1
3	<input type="checkbox"/>	1.0000		64087372.38		A	1.6
4	<input type="checkbox"/>	1.0000		63081857.39		A	2.5
5	<input type="checkbox"/>	1.0000		63662090.72		A	2.3
6	<input type="checkbox"/>	1.0000					



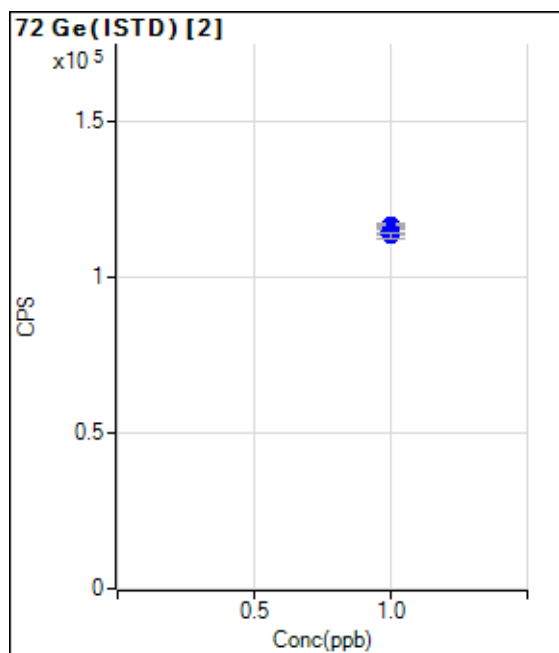
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		3577184.32		A	1.5
2	<input type="checkbox"/>	1.0000		3586973.07		A	1.1
3	<input type="checkbox"/>	1.0000		3571832.65		A	1.8
4	<input type="checkbox"/>	1.0000		3503062.66		A	3.0
5	<input type="checkbox"/>	1.0000		3375185.68		A	3.2
6	<input type="checkbox"/>	1.0000					



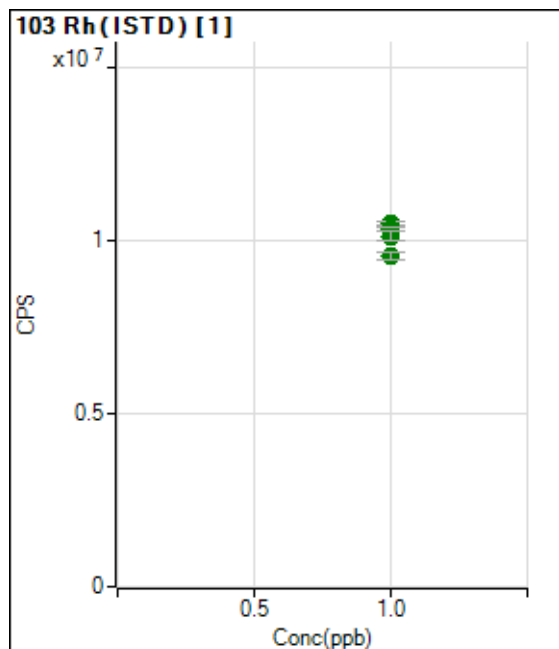
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		258989.22		P	0.4
2	<input type="checkbox"/>	1.0000		257257.18		P	0.7
3	<input type="checkbox"/>	1.0000		256152.96		P	0.6
4	<input type="checkbox"/>	1.0000		254644.98		P	1.0
5	<input type="checkbox"/>	1.0000		248985.48		P	0.5
6	<input type="checkbox"/>	1.0000					



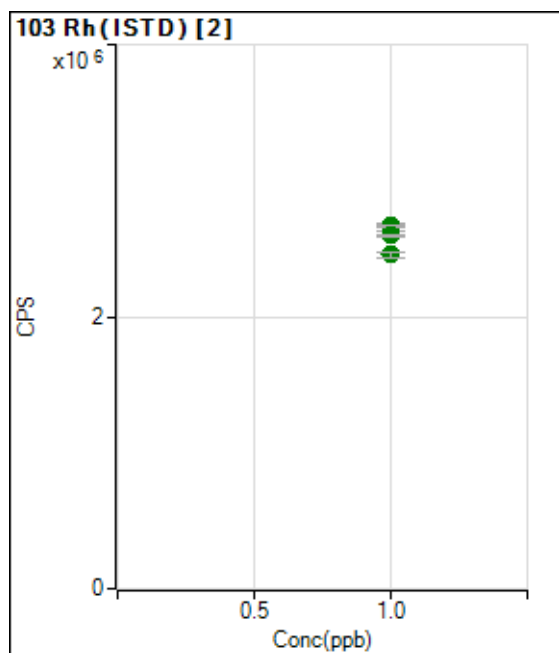
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1780533.57		A	1.0
2	<input type="checkbox"/>	1.0000		1780140.81		A	0.5
3	<input type="checkbox"/>	1.0000		1759575.34		A	1.5
4	<input type="checkbox"/>	1.0000		1730832.27		A	1.1
5	<input type="checkbox"/>	1.0000		1695562.73		A	1.5
6	<input type="checkbox"/>	1.0000					



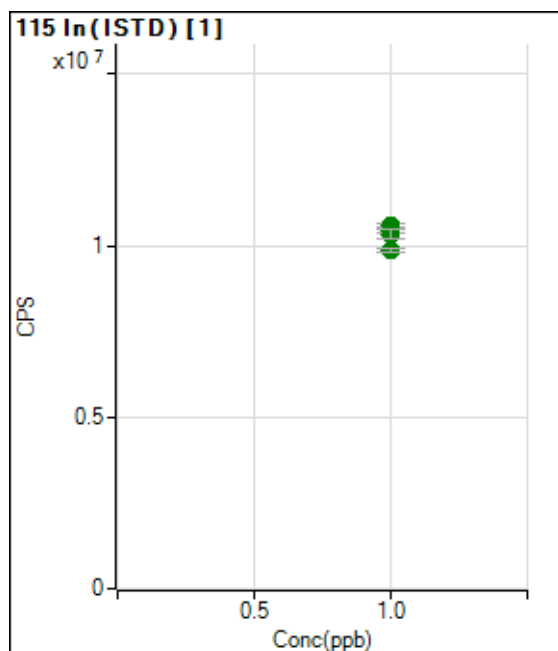
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		116227.95		P	0.8
2	<input type="checkbox"/>	1.0000		116610.87		P	0.9
3	<input type="checkbox"/>	1.0000		115212.50		P	3.0
4	<input type="checkbox"/>	1.0000		114291.81		P	0.2
5	<input type="checkbox"/>	1.0000		113525.69		P	1.8
6	<input type="checkbox"/>	1.0000					



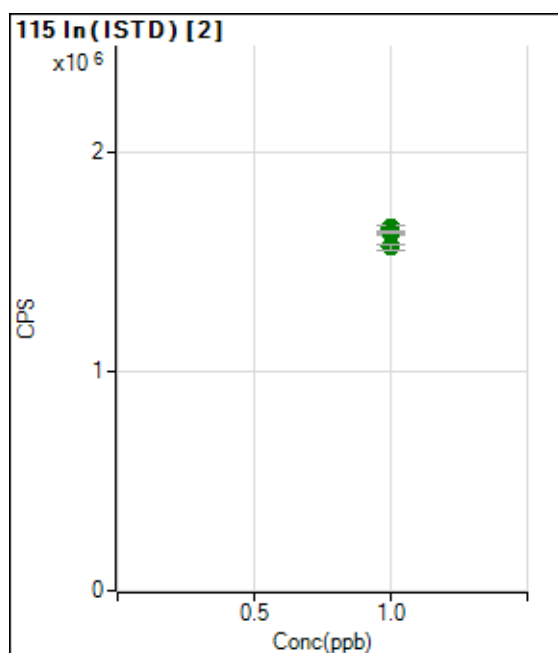
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		10477380.68		A	1.4
2	<input type="checkbox"/>	1.0000		10498880.68		A	1.0
3	<input type="checkbox"/>	1.0000		10340299.85		A	1.4
4	<input type="checkbox"/>	1.0000		10137034.43		A	2.6
5	<input type="checkbox"/>	1.0000		9576050.07		A	2.2
6	<input type="checkbox"/>	1.0000					



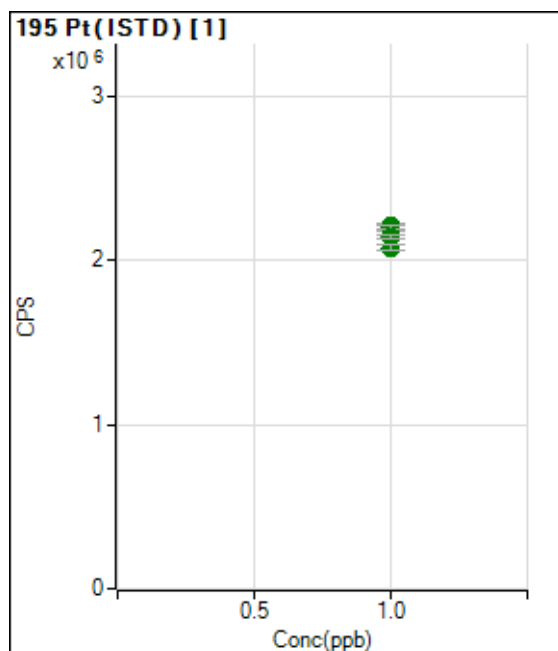
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2657107.57		A	2.2
2	<input type="checkbox"/>	1.0000		2668418.40		A	0.6
3	<input type="checkbox"/>	1.0000		2664542.46		A	0.9
4	<input type="checkbox"/>	1.0000		2596251.11		A	0.7
5	<input type="checkbox"/>	1.0000		2457815.59		A	1.6
6	<input type="checkbox"/>	1.0000					



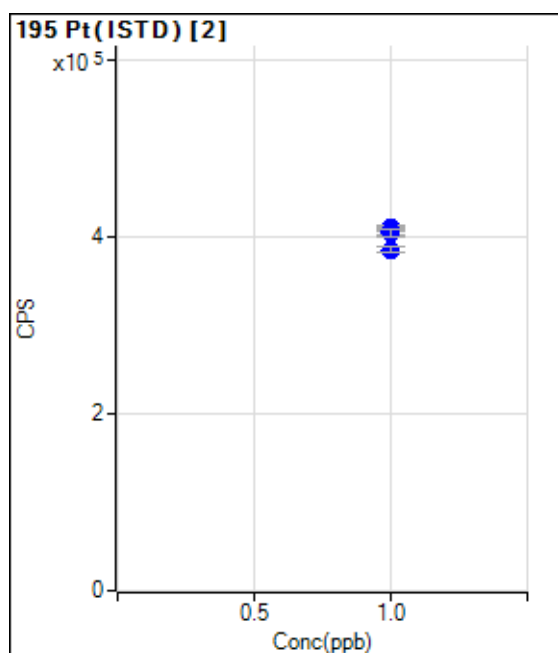
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		10575902.98		A	1.8
2	<input type="checkbox"/>	1.0000		10511134.65		A	1.0
3	<input type="checkbox"/>	1.0000		10414694.10		A	1.2
4	<input type="checkbox"/>	1.0000		10339024.74		A	3.0
5	<input type="checkbox"/>	1.0000		9879261.15		A	1.2
6	<input type="checkbox"/>	1.0000					



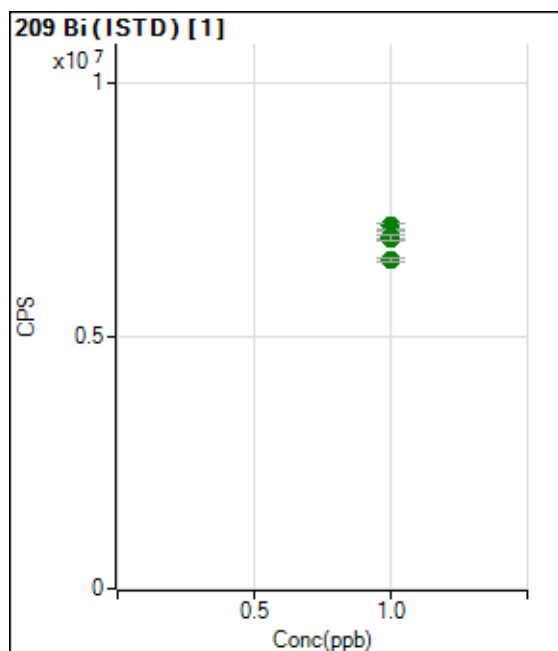
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1633422.94		A	1.0
2	<input type="checkbox"/>	1.0000		1652983.99		A	1.5
3	<input type="checkbox"/>	1.0000		1655255.89		A	1.3
4	<input type="checkbox"/>	1.0000		1634342.36		A	0.6
5	<input type="checkbox"/>	1.0000		1566142.25		A	1.2
6	<input type="checkbox"/>	1.0000					



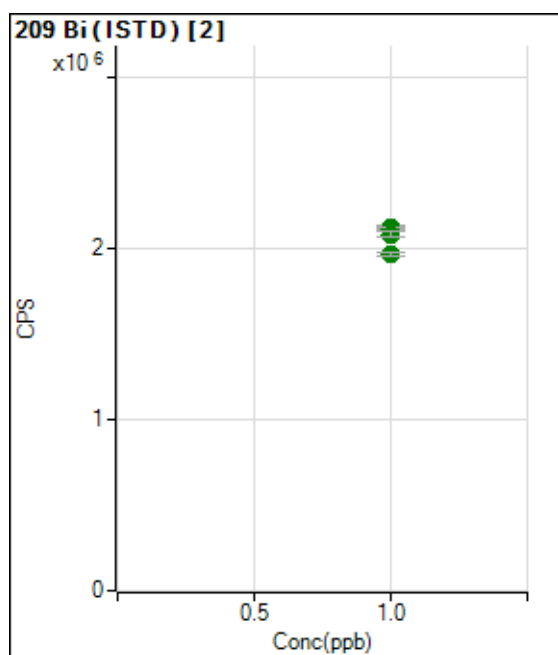
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2210576.06		A	1.4
2	<input type="checkbox"/>	1.0000		2190299.76		A	0.6
3	<input type="checkbox"/>	1.0000		2201104.39		A	1.3
4	<input type="checkbox"/>	1.0000		2148286.32		A	1.0
5	<input type="checkbox"/>	1.0000		2077833.46		A	1.6
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		410803.17		P	1.8
2	<input type="checkbox"/>	1.0000		407854.10		P	2.0
3	<input type="checkbox"/>	1.0000		406667.12		P	1.7
4	<input type="checkbox"/>	1.0000		405727.29		P	2.3
5	<input type="checkbox"/>	1.0000		386349.02		P	1.6
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		7182955.10		A	1.5
2	<input type="checkbox"/>	1.0000		7100761.77		A	1.0
3	<input type="checkbox"/>	1.0000		6980463.44		A	1.1
4	<input type="checkbox"/>	1.0000		6946561.56		A	1.9
5	<input type="checkbox"/>	1.0000		6495713.65		A	1.2
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2120579.81		A	0.7
2	<input type="checkbox"/>	1.0000		2122607.10		A	1.8
3	<input type="checkbox"/>	1.0000		2112619.19		A	1.1
4	<input type="checkbox"/>	1.0000		2086543.67		A	1.3
5	<input type="checkbox"/>	1.0000		1966256.12		A	1.0
6	<input type="checkbox"/>	1.0000					

Header Information for Analytical Sequence 17F15r01

Instrument: Agilent ICPMS Model 7700X; Serial No. JP09400112

Software Revision: B.01.01

Date of Analysis: 06/15/2017

Analyst: Hannah M. Alt

Calibration Standards

High Calibration Standard: ST170502-5 (expires 04/30/2018)

This standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	10000	5000	2000	1000	500	200	100	50	30	10	2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

1/10, 1/100, and 1/1000 dilutions of the High Calibration Standard are prepared daily to provide additional calibration standards.

ICV

The ICV is prepared by diluting 1ml of the 2nd Source intermediate (ST160606-18, expires 05/31/2017) to 5ml giving the following concentrations (ng/ml).

20000	10000	2000	1000	400	200	100	40	20	10	6	2	0.4
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

LIV/LCV

The LIV/LCV is prepared by diluting 0.05ml of the Reporting Limit Verification Spike Solution (ST170502-8 expires 04/30/2018) to 50ml giving the following concentrations (ng/ml).

100	20	15	10	2	1	0.5	0.2	0.1	0.05	0.02	0.01
Na	Ti	B	Al	Cu	Cr	Ba	As	Sb	Ag	Th	Tl
Ca			Fe	Li	Se	Co	Cd		Be		U
K			Mg	Ni	Sn	Mn	Mo		Ce		
			Zn			Sr	Pb		La		
						V			Nd		
									Pr		
									Y		

ICSA

The ICSA is prepared by diluting 0.5ml of ICSA intermediate (ST150423-1, expires 04/03/2018) to a final volume of 50ml giving the following concentrations (ng/ml).

42.5 X 10 ⁶	30000	25000	20000	10000	200
Cl	Ca	Fe	C	Al	Mo
		Na		K	Ti
				Mg	
				P	
				S	

ICSAB

The ICSAB is prepared by diluting 0.5ml of ICSA intermediate (ST150423-1, expires 04/03/2018) and 5ml of High Calibration Standard: ST170502-5 (expires 04/30/2018) to a final volume of 50ml. The ICSAB contains the following elements at the listed concentrations (ng/ml).

42.5X10 ⁶	35000	25500	20000	15000	11000	10500	10000	400	210
Cl	Ca	Fe	C	K	Mg	Al	P	Ti	Mo
	Na						S		

200	100	50	20	10	5	3	1	0.2
Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Cu	Ni		Co	Be	Cd	U	
	Li	Sn		As		Y	Ag	
				Se		La		
				Ba		Ce		
				Sr		Pr		
						Nd		

CCV

The CCV is prepared by diluting 5ml of the High Calibration Standard: ST170502-5 (expires 04/30/2018) to a final volume of 50ml. The CCV contains the following elements at the listed concentrations (ng/ml).

10000	5000	1000	500	200	100	50	20	10	5	3	1	0.2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

Linear Dynamic Range Standards

LDR-Ca,Na,K

The LDR-Ca,Na,K standard is prepared by diluting 1ml of the High Calibration Standard Intermediate Mix (ST170502-5, expires 04/30/2018) to a final volume of 10ml. The LDR-Ca,Na,K standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Al	Ti	Cu	Ni		Co	Be	Cd	U	
			Li	Sn		As		Y	Ag	
						Se		La		
						Mo		Ce		
						Ba		Pr		
						Sr		Nd		

1000 Na

The 1000 Na standard is prepared by diluting 1ml of the 10000mg/L Na stock solution (ST140409-4, expires 12/31/2020) to a final volume of 10ml. The 1000 Na standard contains Na at 1000000 ng/ml.

500 Ca

The 500 Ca standard is prepared by diluting 0.5ml of the 10000mg/L Ca stock solution (ST140409-5, expires 04/30/2021) to a final volume of 10ml. The 500 Ca standard contains Ca at 500000 ng/ml.

500 K

The 500 K standard is prepared by diluting 0.5ml of the 10000mg/L K stock solution (ST140409-6, expires 01/31/2021) to a final volume of 10ml. The 500 K standard contains K at 500000 ng/ml.

Linear Dynamic Range

The instrument Linear Dynamic Range (LDR) is determined at least every 6 months. The current LDR was determined on 05/01/2016. The instrument LDR is given below (ng/ml).

1000000	500000	100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

ICB/CCB and all diluent

1% HNO₃, 1%HCl in double deionized water

HNO₃ Lot No. 137345

HCl Lot No. 132880

Internal Standards

The internal standard intermediate contains 4 PPM each of Ga, Ge, Pt, In, Rh, Bi and Sc. This intermediate is added to all standards and samples in the same proportion by a peristaltic pump.

Pipet ID Numbers

1.0 to 5.0 ml -- M-87
0.1 to 1.0ml -- M-60
0.01 to 0.1ml -- M-56

Dilutions

2X dilutions made by diluting 5ml of sample to 10ml final volume
5X dilutions made by diluting 1ml of sample to 5ml final volume
10X dilutions made by diluting 1ml of sample to 10ml final volume
50X dilutions made by diluting 0.1ml of sample to 5ml final volume
100X dilutions made by diluting 0.1ml of sample to 10ml final volume
200X dilutions made by diluting 0.05ml of sample to 10ml final volume
500X dilutions made by diluting 0.02ml of sample to 10ml final volume

Analytical Spikes

1705328-1A and 1705577-2A, were post spiked by diluting ST170502-4 and ST170601-4 500 fold then ten fold dilution of the sample digestates.

Daily Maintenance Items

1. Check / change pump tubing
2. Check / clean drain containers
3. Tune instrument per manufacturer's procedures
4. Perform resolution / mass calibration / stability test and print QC tune report

Monthly Maintenance Items

1. Check / clean torch and cones
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoir
4. Check / fill vacuum pump oil

Additional Comments

No additional comments.

Batch Summary Report

Batch Folder: C:\ICPMH\1\DATA\17F15r00.B\

Analysis File: 17F15r00.batch.xml

Tune Step: #1 nogas.u

#2 hehe.u

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		6/15/2017 17:10:03	001CALB.D	blank	CalBlk	1	1.0000
2		6/15/2017 17:15:59	002CALB.D	blank	CalBlk	1	1.0000
3		6/15/2017 17:21:56	003CALB.D	blank	CalBlk	1	1.0000
4		6/15/2017 17:27:53	004CALB.D	blank	CalBlk	1	1.0000
5		6/15/2017 17:33:48	005CALS.D	H/1000	CalStd	2	1.0000
6		6/15/2017 17:36:47	006CALS.D	H/100	CalStd	3	1.0000
7		6/15/2017 17:39:45	007CALS.D	H/10	CalStd	4	1.0000
8		6/15/2017 17:45:38	008CALS.D	HIGH	CalStd	5	1.0000
9		6/15/2017 17:53:25	001SMPL_17F15r01.D	ICV	6-ICV		1.0000
10		6/15/2017 17:59:17	002SMPL_17F15r01.D	ICB	6-CCB		1.0000
11		6/15/2017 18:05:14	003SMPL_17F15r01.D	LIV	RLIV		1.0000
12		6/15/2017 18:08:13	004SMPL_17F15r01.D	ICSA	6-ICSA		1.0000
13		6/15/2017 18:14:07	005SMPL_17F15r01.D	ICSAB	6-ICSAB		1.0000
14		6/15/2017 18:19:59	006SMPL_17F15r01.D	CCV	6-CCV		1.0000
15		6/15/2017 18:25:54	007SMPL_17F15r01.D	CCB	6-CCB		1.0000
16		6/15/2017 18:28:54	008SMPL_17F15r01.D	1706270-1 100X	Sample		1.0000
17		6/15/2017 18:34:47	009SMPL_17F15r01.D	1706270-2 100X	Sample		1.0000
18		6/15/2017 18:40:42	010SMPL_17F15r01.D	1706270-3 100X	Sample		1.0000
19		6/15/2017 18:52:31	012SMPL_17F15r01.D	1706275-2 100X	Sample		1.0000
20		6/15/2017 18:58:26	013SMPL_17F15r01.D	1706275-3 100X	Sample		1.0000
21		6/15/2017 19:10:14	015SMPL_17F15r01.D	1706149-1	Sample		1.0000
22		6/15/2017 19:16:08	016SMPL_17F15r01.D	1706275-1 100X	Sample		1.0000
23		6/15/2017 19:27:57	018SMPL_17F15r01.D	ZZZ	Sample		1.0000
24		6/15/2017 19:33:54	019SMPL_17F15r01.D	LCV	RLCV		1.0000
25		6/15/2017 19:36:53	020SMPL_17F15r01.D	CCV	6-CCV		1.0000
26		6/15/2017 19:42:47	021SMPL_17F15r01.D	CCB	6-CCB		1.0000
27		6/15/2017 19:47:30	022SMPL_17F15r01.D	1706149-1 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		6/15/2017 19:50:30	023SMPL_17F15r01.D	1705185-1 1000X	Sample		1.0000
29		6/15/2017 19:53:30	024SMPL_17F15r01.D	1705185-1 10X	Sample		1.0000
30		6/15/2017 19:56:26	025SMPL_17F15r01.D	1705185-3 10X	Sample		1.0000
31		6/15/2017 19:59:24	026SMPL_17F15r01.D	1705193-1 10X	Sample		1.0000
32		6/15/2017 20:02:21	027SMPL_17F15r01.D	1705193-2 10X	Sample		1.0000
33		6/15/2017 20:05:16	028SMPL_17F15r01.D	1705271-1 10X	Sample		1.0000
34		6/15/2017 20:08:18	029SMPL_17F15r01.D	1705271-2 10X	Sample		1.0000
35		6/15/2017 20:11:14	030SMPL_17F15r01.D	1705286-1 10X	Sample		1.0000
36		6/15/2017 20:14:09	031SMPL_17F15r01.D	1705283-3 10X	Sample		1.0000
37		6/15/2017 20:25:57	033SMPL_17F15r01.D	ZZZ	Sample		1.0000
38		6/15/2017 20:31:52	034SMPL_17F15r01.D	ZZZ	Sample		1.0000
39		6/15/2017 20:43:45	036SMPL_17F15r01.D	LCV	RLCV		1.0000
40		6/15/2017 20:46:45	037SMPL_17F15r01.D	CCV	6-CCV		1.0000
41		6/15/2017 20:52:39	038SMPL_17F15r01.D	CCB	6-CCB		1.0000
42		6/15/2017 20:55:39	039SMPL_17F15r01.D	IP170614-2MB 10X	6-CCB		1.0000
43		6/15/2017 20:58:39	040SMPL_17F15r01.D	IM170614-2LCS 10X	6-LCS		1.0000
44		6/15/2017 21:04:33	041SMPL_17F15r01.D	1705328-1 10X	Sample		1.0000
45		6/15/2017 21:07:31	042SMPL_17F15r01.D	1705328-1L 50X	Sample		1.0000
46		6/15/2017 21:10:30	043SMPL_17F15r01.D	1705328-IDUP 10X	Sample		1.0000
47		6/15/2017 21:13:30	044SMPL_17F15r01.D	1705328-1MS 10X	Sample		1.0000
48		6/15/2017 21:16:25	045SMPL_17F15r01.D	1705328-1MSD 10X	Sample		1.0000
49		6/15/2017 21:22:20	046SMPL_17F15r01.D	1705328-1A 10X	Sample		1.0000
50		6/15/2017 21:28:10	047SMPL_17F15r01.D	1705328-2 10X	Sample		1.0000
51		6/15/2017 21:31:09	048SMPL_17F15r01.D	1705328-3 10X	Sample		1.0000
52		6/15/2017 21:37:03	049SMPL_17F15r01.D	CCV	6-CCV		1.0000
53		6/15/2017 21:42:59	050SMPL_17F15r01.D	CCB	6-CCB		1.0000
54		6/15/2017 21:45:58	051SMPL_17F15r01.D	1705328-4 10X	Sample		1.0000
55		6/15/2017 21:48:56	052SMPL_17F15r01.D	1705328-5 10X	Sample		1.0000
56		6/15/2017 21:54:52	053SMPL_17F15r01.D	1705328-6 10X	Sample		1.0000
57		6/15/2017 21:57:50	054SMPL_17F15r01.D	1705328-7 10X	Sample		1.0000
58		6/15/2017 22:03:44	055SMPL_17F15r01.D	1705328-8 10X	Sample		1.0000
59		6/15/2017 22:09:39	056SMPL_17F15r01.D	1705328-9 10X	Sample		1.0000
60		6/15/2017 22:12:37	057SMPL_17F15r01.D	1705577-1 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
61		6/15/2017 22:15:38	058SMPL_17F15r01.D	1705577-1L 50X	Sample		1.0000
62		6/15/2017 22:18:39	059SMPL_17F15r01.D	1705577-1DUP 10X	Sample		1.0000
63		6/15/2017 22:21:37	060SMPL_17F15r01.D	1705577-1MS 10X	Sample		1.0000
64		6/15/2017 22:27:30	061SMPL_17F15r01.D	CCV	6-CCV		1.0000
65		6/15/2017 22:33:25	062SMPL_17F15r01.D	CCB	6-CCB		1.0000
66		6/15/2017 22:36:25	063SMPL_17F15r01.D	1705577-1MSD 10X	Sample		1.0000
67		6/15/2017 22:42:19	064SMPL_17F15r01.D	1705577-1A 10X	Sample		1.0000
68		6/15/2017 22:48:12	065SMPL_17F15r01.D	1705610-1 10X	Sample		1.0000
69		6/15/2017 22:51:08	066SMPL_17F15r01.D	1705610-2 10X	Sample		1.0000
70		6/15/2017 22:54:07	067SMPL_17F15r01.D	1705610-3 10X	Sample		1.0000
71		6/15/2017 23:00:01	068SMPL_17F15r01.D	1705610-4 10X	Sample		1.0000
72		6/15/2017 23:02:59	069SMPL_17F15r01.D	1705610-6 10X	Sample		1.0000
73		6/15/2017 23:08:56	070SMPL_17F15r01.D	1706119-1 10X	Sample		1.0000
74		6/15/2017 23:11:53	071SMPL_17F15r01.D	1706119-2 10X	Sample		1.0000
75		6/15/2017 23:17:47	072SMPL_17F15r01.D	1706210-2 10X	Sample		1.0000
76		6/15/2017 23:23:42	073SMPL_17F15r01.D	CCV	6-CCV		1.0000
77		6/15/2017 23:29:36	074SMPL_17F15r01.D	CCB	6-CCB		1.0000
78		6/15/2017 23:32:37	075SMPL_17F15r01.D	1706216-1 10X	Sample		1.0000
79		6/15/2017 23:35:37	076SMPL_17F15r01.D	1706219-1 10X	Sample		1.0000
80		6/15/2017 23:47:27	078SMPL_17F15r01.D	LCV	RLCV		1.0000
81		6/15/2017 23:50:25	079SMPL_17F15r01.D	CCV	6-CCV		1.0000
82		6/15/2017 23:56:19	080SMPL_17F15r01.D	CCB	6-CCB		1.0000
83		6/15/2017 23:59:19	081SMPL_17F15r01.D	1706079-1 10X	Sample		1.0000
84		6/16/2017 00:05:14	082SMPL_17F15r01.D	1706079-2 10X	Sample		1.0000
85		6/16/2017 00:11:09	083SMPL_17F15r01.D	1706080-1 10X	Sample		1.0000
86		6/16/2017 00:14:08	084SMPL_17F15r01.D	1706080-2 10X	Sample		1.0000
87		6/16/2017 00:17:06	085SMPL_17F15r01.D	1706082-1 10X	Sample		1.0000
88		6/16/2017 00:23:03	086SMPL_17F15r01.D	1706083-1 10X	Sample		1.0000
89		6/16/2017 00:26:02	087SMPL_17F15r01.D	1706175-1 10X	Sample		1.0000
90		6/16/2017 00:31:57	088SMPL_17F15r01.D	1706175-2 10X	Sample		1.0000
91		6/16/2017 00:34:56	089SMPL_17F15r01.D	1706176-1 10X	Sample		1.0000
92		6/16/2017 00:40:54	090SMPL_17F15r01.D	1706177-1 10X	Sample		1.0000
93		6/16/2017 00:46:48	091SMPL_17F15r01.D	CCV	6-CCV		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
94		6/16/2017 00:52:42	092SMPL_17F15r01.D	CCB	6-CCB		1.0000

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0187	2608.23	0.0116	160.00	0.0581	3165.89	1.1895	16925.97	-0.2397	3.33
2	blank	0.0093	2328.18	0.0009	39.33	0.0331	2955.85	0.0906	16402.01	0.0995	26.67
3	blank	-0.0348	1014.71	-0.0021	13.33	-0.1812	3288.15	-27.7069	13529.47	-0.2881	0.00
4	blank	0.0000	2051.48	0.0000	29.33	0.0000	2743.60	0.0000	16455.45	0.0000	20.00
5	H/1000	1.1270	35617.93	0.0533	621.35	1.2478	10916.95	100.1974	60099.25	9.5618	680.05
6	H/100	11.2328	336622.14	0.5475	5852.38	10.7169	69802.95	1011.3673	460833.61	93.5053	6528.23
7	H/10	104.1159	3103163.83	5.2147	55538.07	100.5624	633160.01	9790.4485	420444.21	924.4738	62644.37
8	HIGH	999.5760	29774610.00	49.9780	544342.92	999.9363	6416948.91	100020.8413	39676660.24	10007.6180	628273.88
9	ICV	206.1077	6141006.83	10.1785	111434.54	209.7024	1354493.45	18902.0071	8047731.34	1907.4457	128282.84
10	ICB	0.1922	7775.83	-0.0003	26.00	1.9960	15596.17	5.8123	18544.30	0.0562	23.33
11	LIV	2.3036	70664.45	0.0466	534.01	15.4719	101604.38	102.3070	59868.51	10.2301	713.38
12	ICSA	0.1417	6272.54	0.0030	61.33	1.2690	10742.41	24344.9560	9973000.48	9666.3064	626003.48
13	ICSAB	102.3567	3050764.75	4.9621	53785.95	97.6827	626015.45	34112.4621	13976827.29	10737.3493	695758.09
14	CCV	103.6370	3088898.67	5.1855	54645.98	101.4620	632048.19	9744.9592	4152097.44	949.7118	63822.59
15	CCB	0.0871	4645.34	-0.0007	21.33	0.9075	8547.82	5.4998	18657.96	0.0523	23.33
16	1706270-1 100X	173.4703	5168896.50	-0.0007	20.67	191.5460	1195753.98	8169.9866	3447963.49	656.0464	43654.49
17	1706270-2 100X	6009.4259	1.78994E+08	-0.0006	22.00	850.0565	5366385.20	57.2965	40600.41	1390.5219	94321.28
18	1706270-3 100X	3708.0094	1.10446E+08	-0.0005	22.67	360.9615	2249014.98	78.9744	49601.27	118.0750	7982.20
19	1706275-2 100X	669.4989	19943203.33	-0.0010	17.33	64.4658	406199.15	20797.4168	8750036.54	33.0436	2216.92
20	1706275-3 100X	4266.3478	1.27076E+08	-0.0012	16.00	355.0089	2256482.55	217.1736	107703.01	5692.5679	381174.80
21	1706149-1	5.5980	168789.04	0.0014	42.00	32.2165	199401.19	73733.0996	30090667.89	50071.6724	3233669.74
22	1706275-1 100X	65.5933	1955759.13	-0.0009	20.00	61.5175	412128.49	25525.3171	11099677.34	231.7279	15951.50
23	ZZZ	1.1859	37374.97	-0.0016	12.67	0.5642	6726.98	15.5652	23434.04	1.8005	146.67
24	LCV	2.7139	82885.69	0.0449	530.68	14.3076	96766.46	106.6066	62909.81	9.3612	666.72
25	CCV	103.9520	3098280.33	4.9946	53253.58	99.0691	624449.92	9680.3416	4185755.77	943.2405	64347.69
26	CCB	0.4561	15635.25	-0.0009	18.00	0.6178	6214.55	8.3530	18574.29	0.0725	23.33
27	1706149-1 10X	0.8658	27840.82	-0.0007	21.33	3.5057	25243.21	7247.3556	3143902.77	4920.2512	336190.10
28	1705185-1 1000X	5.2404	158136.76	-0.0014	13.33	44.2725	286329.54	12326.6651	5406649.08	84.1471	5844.60
29	1705185-1 10X	430.9974	12839391.33	0.0061	86.00	4502.0360	25983931.75	1.33628E+06	4.88676E+08	8989.9586	520409.64
30	1705185-3 10X	375.6058	11189541.67	0.0040	66.67	4813.0417	28447633.31	1.32934E+06	4.86778E+08	7689.7741	445802.91
31	1705193-1 10X	453.1975	13500624.00	0.0013	42.00	2336.7673	14488552.76	1.22040E+06	4.66352E+08	5439.3100	329026.12

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	490.9781	14625927.33	0.0030	60.67	2410.7447	15153722.17	1.10749E+06	4.24212E+08	4947.4894	300004.78
33	1705271-1 10X	1101.4538	32809060.67	0.2874	2193.49	4888.5854	21776671.36	1.03642E+07	2.70333E+09	142821.4924	5897908.25
34	1705271-2 10X	334.9806	9979511.00	0.0529	738.69	3075.4749	24096294.60	568152.6664	2.44021E+08	1779.8406	121051.65
35	1705286-1 10X	534.7412	15929417.67	-0.0010	19.33	1584.0117	11245546.78	581284.5929	2.40107E+08	3581.4175	234235.71
36	1705283-3 10X	679.5433	20242377.33	0.0038	78.67	2348.3289	16853687.11	839263.1355	3.42488E+08	4579.6542	295891.63
37	ZZZ	2.1784	66936.13	-0.0016	12.67	19.2921	133369.71	790.4892	360938.25	0.4829	53.34
38	ZZZ	2.5449	77850.71	-0.0020	7.33	13.3822	93616.55	576.5156	268782.57	0.0475	23.33
39	LCV	3.1831	96859.26	0.0462	543.34	21.5095	143752.20	509.7423	238546.81	8.8365	630.04
40	CCV	105.1830	3134946.33	5.0286	54553.13	105.9539	679279.47	10139.2672	4293861.81	964.6040	64464.51
41	CCB	0.5951	19775.58	-0.0011	16.67	5.6771	39800.75	290.8346	141615.01	0.3964	46.67
42	IP170614-2MB ...	0.4893	16626.21	-0.0010	18.00	5.7132	39514.61	239.8841	119153.09	1.3805	113.34
43	IM170614-2LCS...	106.9109	3186411.58	5.0602	54722.18	104.2596	666439.28	1234.0785	551365.16	950.1552	65244.58
44	1705328-1 10X	4.8264	145805.26	0.5507	6148.49	5.4651	38511.31	221.2868	112172.11	1029.2312	70643.42
45	1705328-1L 50X	1.2347	38827.62	0.1062	1192.72	4.2747	30295.91	171.2291	90793.65	208.2354	14360.06
46	1705328-1DUP ...	5.1210	154581.16	0.5494	5998.43	4.8977	34037.30	191.2829	99365.66	1092.3221	75132.08
47	1705328-1MS 10X	120.4068	3588392.00	5.8811	64855.18	94.2528	614787.08	1208.2216	545560.63	2247.4854	155865.22
48	1705328-1MSD ...	118.3128	3526019.92	5.8315	65113.63	92.2493	609216.22	1190.6181	531471.90	2184.0053	149654.03
49	1705328-1A 10X	247.4290	7371771.17	9.7177	106719.84	200.9711	1302623.14	3999.2652	1695429.92	6641.7077	441668.76
50	1705328-2 10X	6.2968	189602.50	0.4458	5015.44	4.5031	32426.54	170.4465	90167.35	1238.6238	85056.24
51	1705328-3 10X	5.7270	172631.28	0.5415	5755.02	4.3608	29774.96	143.8962	76576.15	1148.0028	76752.49
52	CCV	98.3782	2932264.42	4.8607	51088.38	99.1320	615968.24	9792.6239	4085102.96	950.8224	62574.31
53	CCB	0.2969	10894.21	-0.0012	16.00	2.0280	15828.62	96.1196	58014.91	-0.0444	16.67
54	1705328-4 10X	5.2208	157554.79	0.5555	5935.74	3.0794	21923.07	134.8041	72173.92	1073.4469	71205.45
55	1705328-5 10X	5.0694	153045.33	0.3854	4149.21	2.6340	19220.96	126.9803	69469.05	1107.0997	74053.98
56	1705328-6 10X	5.7487	173278.83	0.4338	4848.06	2.6885	20338.92	155.1754	83359.07	1093.7818	74944.36
57	1705328-7 10X	5.9442	179099.89	0.6616	7022.17	3.0301	21482.65	121.4370	66792.05	1157.4973	77033.66
58	1705328-8 10X	5.8071	175017.35	0.6248	7020.16	3.2938	24467.72	221.3973	112883.16	1259.7135	86981.96
59	1705328-9 10X	6.5277	196479.68	0.7163	7939.90	1.9302	15284.77	103.2158	61564.14	1249.5456	86583.53
60	1705577-1 10X	2.5604	78312.44	0.1555	1750.77	2.3933	18352.24	12231.8276	5306268.26	941.1373	64431.49
61	1705577-1L 50X	0.6576	21637.82	0.0286	347.34	1.2369	10858.02	2483.0011	1097395.71	177.1635	12234.98
62	1705577-1DUP ...	2.4123	73902.23	0.1394	1554.75	2.2632	17290.04	11785.6364	5201120.34	886.6613	61777.71

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	105.9626	3158166.67	5.0219	55187.11	93.2885	606250.38	12948.9750	5634732.62	1831.9357	125867.76
64	CCV	97.8843	2917552.67	4.7747	50863.12	95.6663	602635.17	9909.3749	4120009.42	963.4308	63203.11
65	CCB	0.1946	7846.54	-0.0004	22.67	1.1430	9448.29	65.4188	42428.67	0.1277	26.67
66	1705577-1MSD ...	108.7755	3241951.67	5.1345	56184.96	96.3876	623646.85	12577.1120	5485501.59	1833.2492	126217.85
67	1705577-1A 10X	240.6188	7168927.33	9.2861	100890.28	200.9800	1288511.20	15780.8292	6660079.69	6437.6830	429261.97
68	1705610-1 10X	5.1290	154818.61	0.5062	5574.29	3.3169	24104.91	78.7665	49310.30	1979.4647	132939.39
69	1705610-2 10X	8.2824	248744.25	0.5262	5559.61	5.6222	37395.51	103.2991	58563.73	3166.6123	208606.07
70	1705610-3 10X	6.7022	201678.60	0.3222	3461.71	2.9994	21463.61	89.2207	53008.89	2608.4379	172758.11
71	1705610-4 10X	9.2291	276942.14	0.6304	6818.74	3.9789	27909.64	81.4297	50604.52	3541.1966	238574.66
72	1705610-6 10X	5.2292	157805.33	0.3025	3335.01	2.6133	19518.06	63.9492	43541.19	2044.7470	138977.46
73	1706119-1 10X	2.9409	89645.81	0.3159	3475.71	3.5878	25748.43	104.3374	60487.07	947.9846	64029.64
74	1706119-2 10X	3.4304	104227.15	0.7146	7917.22	1.5826	13011.75	214.3916	106841.07	2524.8467	169577.10
75	1706210-2 10X	22.7042	678299.44	0.6692	7452.34	7.0492	48785.06	184.7649	94181.92	7752.9964	520185.06
76	CCV	100.8822	3006846.08	4.8193	52369.61	96.3319	618981.68	9721.3418	4154430.15	950.3797	64076.29
77	CCB	0.1319	5979.76	-0.0008	20.00	0.6348	6891.48	42.5562	34580.15	0.2964	40.00
78	1706216-1 10X	0.3163	11473.27	0.0007	36.00	3.9467	28065.43	234.1355	118565.75	68.5309	4757.57
79	1706219-1 10X	11.6535	349153.24	0.3471	3833.14	17.7669	117381.95	4704.6915	2043529.50	2271.7863	154992.95
80	LCV	2.1530	66178.67	0.0460	517.35	14.2597	91865.07	139.1890	75715.64	11.0497	766.73
81	CCV	100.1839	2986047.75	4.9873	51761.12	98.1300	602083.50	9616.8153	4060122.02	940.9605	62671.39
82	CCB	0.0996	5018.12	-0.0008	19.33	0.6384	6612.47	38.1212	31731.09	0.0129	20.00
83	1706079-1 10X	1.8282	56505.38	-0.0017	10.00	18.3970	117719.49	7327.1226	3032697.66	10915.6258	711725.33
84	1706079-2 10X	6.0862	183330.37	-0.0005	22.67	28.0961	174267.86	33454.8938	13508793.55	30788.9373	1966038.72
85	1706080-1 10X	53.3778	1591919.33	0.0270	176.00	1186.0679	4147418.59	1.88700E+07	3.99980E+09	292.5183	9826.66
86	1706080-2 10X	180.0587	5365132.50	0.1334	1224.72	411.7879	2185116.23	5.83726E+06	1.86454E+09	113121.2007	5720679.91
87	1706082-1 10X	6.8461	205964.61	-0.0009	22.67	26.1162	206836.97	33583.7319	16119051.01	9097.1915	690601.53
88	1706083-1 10X	8.1947	246133.22	-0.0014	15.33	19.5116	141952.29	30968.7926	13438810.63	128529.9104	8819955.49
89	1706175-1 10X	5.0284	151824.64	-0.0020	8.67	17.2627	132469.69	12029.4675	5571561.17	49392.2818	3610587.13
90	1706175-2 10X	4.7247	142776.93	-0.0016	12.00	16.1546	116236.16	10978.3226	4796785.87	46198.5493	3183388.50
91	1706176-1 10X	5.0047	151116.60	-0.0016	11.33	24.9650	170136.89	11602.2153	5025375.76	10193.6853	696811.60
92	1706177-1 10X	3.7977	115166.14	-0.0013	14.67	16.4895	112266.45	8365.4525	3622157.65	26162.4799	1785277.32
93	CCV	100.4789	2994834.67	4.5656	50241.93	93.3634	607529.65	10078.7403	4356740.98	941.3271	64200.18

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.2050	8157.35	-0.0007	21.33	1.1918	10532.27	413.5062	196507.87	0.5824	60.00

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.1742	100.00	0.6407	10313.63	-1.4293	47.57	-0.0999	26.67	-0.0003	318.33
2	blank	0.0673	73.33	0.1157	10193.62	-0.1773	69.10	-0.0196	40.00	0.0009	328.00
3	blank	-0.1124	90.00	-48.8198	5571.18	-3.1181	58.56	-0.2014	30.00	-0.0497	50.67
4	blank	0.0000	56.67	0.0000	10233.62	0.0000	71.90	0.0000	43.33	0.0000	327.34
5	H/1000	5.5174	1433.48	51.7840	19095.09	43.4903	814.56	1.9159	363.36	0.1203	1040.04
6	H/100	46.9326	11841.29	513.0349	99276.10	481.5796	8374.99	18.0392	3097.10	1.0233	6558.98
7	H/10	461.3964	112828.78	5127.5750	876156.94	4771.7435	81749.30	185.6954	30969.94	9.9023	60587.03
8	HIGH	5003.8905	1133838.76	49987.1104	7836487.17	50023.0164	812299.09	2001.4502	326326.99	100.0095	606703.69
9	ICV	903.3116	219369.44	9617.6987	1623302.48	9581.9100	162313.86	389.2023	63994.91	19.5086	118100.07
10	ICB	0.1956	103.34	-1.7592	9683.27	0.8418	84.96	0.0253	46.67	-0.0072	270.67
11	LIV	8.5872	2156.91	101.8814	27213.39	91.1795	1604.02	18.2219	3047.07	0.4950	3283.34
12	ICSA	8862.3890	2071563.46	9902.3871	1609078.99	29662.9934	486263.79	194.3516	31614.74	-0.0172	212.67
13	ICSAB	9481.8688	2217633.41	14812.8838	2403644.81	34680.1592	573552.24	391.0310	64099.02	9.7934	59739.34
14	CCV	470.6293	114230.45	5212.4881	883693.76	4693.9551	80123.65	191.6120	32045.48	9.8345	60672.39
15	CCB	0.1500	93.34	-1.2381	9903.42	0.8282	85.50	-0.1765	13.33	-0.0160	221.33
16	1706270-1 100X	0.5517	186.68	1772.0097	303785.94	127.3546	2230.61	-0.0770	30.00	-0.0163	215.67
17	1706270-2 100X	0.7814	246.68	44.3536	17486.52	170.3827	2917.80	0.0297	46.67	0.0348	532.68
18	1706270-3 100X	1.2985	370.03	1645.2932	286704.65	7760.3007	131045.04	-0.0745	30.00	0.0532	623.02
19	1706275-2 100X	0.3986	150.01	658.3243	118980.98	3813.1913	64209.84	-0.0097	40.00	-0.0033	288.67
20	1706275-3 100X	0.8466	260.02	175.8614	39223.95	190.7136	3269.59	-0.1760	13.33	0.0119	387.68
21	1706149-1	4.0081	986.78	5019.1793	818061.89	273915.1279	4657208.49	6.3747	1113.43	1.2825	8190.37
22	1706275-1 100X	0.3647	146.67	634.7289	118973.68	72.1762	1300.62	-0.1769	13.33	-0.0062	275.33
23	ZZZ	23.6016	6021.40	5.1162	11184.28	15.5634	340.65	0.0741	56.67	0.0462	633.35
24	LCV	8.9052	2276.94	104.0922	28124.75	104.7534	1859.36	19.1971	3287.14	0.5186	3518.06
25	CCV	469.5133	115614.14	5163.0076	888331.52	4761.2366	82527.69	196.2754	33037.59	10.0106	61242.76
26	CCB	0.6775	213.56	7.3747	10617.18	0.3374	71.71	-0.1922	10.00	0.0067	337.01
27	1706149-1 10X	0.5189	183.34	457.9708	88120.54	28785.5537	500230.96	0.6856	160.01	0.1233	1098.37
28	1705185-1 1000X	1.0284	313.35	58.7965	20346.77	1103.8130	19212.39	-0.0605	33.34	0.0000	325.00
29	1705185-1 10X	4.5719	1003.41	6606.0299	962739.72	118442.2728	1790193.07	0.1356	60.00	0.1260	1065.71
30	1705185-3 10X	7.5850	1633.50	6101.4712	890895.12	101138.6694	1543889.01	0.2352	76.67	0.1924	1464.40
31	1705193-1 10X	5.1931	1183.44	7260.3255	1104717.22	65501.0566	1046097.46	0.2640	83.34	0.0788	796.69

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	21.1112	4667.52	6758.5651	1031352.31	65657.7963	1049369.44	-0.0498	33.33	0.1955	1550.42
33	1705271-1 10X	10.0620	1533.47	537456.7973	55371315.84	86060.5685	1000276.71	1.0316	163.34	0.0946	707.35
34	1705271-2 10X	5.9295	1510.15	4562.4178	783814.24	20196.3551	363458.75	0.0799	63.34	0.0182	532.68
35	1705286-1 10X	2.9765	756.72	3481.1956	577481.19	52965.4550	906726.09	0.0600	56.67	0.0208	499.34
36	1705283-3 10X	6.9634	1676.84	6461.1929	1050836.96	62652.9459	1059327.17	0.7020	170.01	0.4684	3601.41
37	ZZZ	0.3359	140.01	16.1864	12945.58	1.0359	89.64	0.1549	70.00	0.0068	372.68
38	ZZZ	0.1741	100.00	14.0587	12635.24	-1.1509	51.53	0.0206	46.67	0.0107	390.34
39	LCV	9.1888	2346.94	117.3214	30368.92	94.2487	1679.32	19.4502	3280.48	0.4955	3380.03
40	CCV	468.8763	113113.18	5271.6191	888293.76	4792.8288	81632.30	191.3912	32042.26	9.8483	60273.26
41	CCB	-0.0101	53.33	12.7300	12221.69	1.8038	102.62	-0.1176	23.33	-0.0087	268.67
42	IP170614-2MB ...	1.8947	520.04	9.7011	11661.18	8.5983	218.48	-0.0970	26.67	-0.0003	315.67
43	IM170614-2LCS...	468.7774	116237.29	529.8046	100855.63	990.8473	17085.28	200.0640	33314.48	9.6868	61041.68
44	1705328-1 10X	3949.4199	978308.89	1282.2588	229596.14	2268.9748	39815.03	148.0580	26245.11	11.0925	68810.70
45	1705328-1L 50X	750.5313	186612.21	252.6695	53544.12	416.3259	7275.45	30.1043	5164.39	2.1462	13515.20
46	1705328-1DUP ...	3976.8801	987023.89	1297.6974	232701.09	2660.0542	45986.23	147.8179	26091.51	11.1036	69356.35
47	1705328-1MS 10X	5925.9790	1483174.30	1943.1853	346269.04	3308.3624	57176.38	336.9238	59919.85	22.1190	138796.72
48	1705328-1MSD ...	5774.5705	1428076.39	1947.9858	343010.50	3233.3952	56079.32	325.8361	58331.27	21.9563	137986.54
49	1705328-1A 10X	4848.0915	1163551.28	5333.5324	894436.00	6123.3716	103041.25	509.6328	87839.28	29.6151	182788.94
50	1705328-2 10X	3179.8840	788000.59	1004.8225	182183.57	6302.8473	109322.13	98.2556	17333.01	10.2503	65237.54
51	1705328-3 10X	4461.5036	1076390.82	1258.4788	219674.86	2068.8376	35033.25	181.5610	31067.00	11.0903	67823.06
52	CCV	475.0820	112867.38	5212.5707	865185.69	4757.6257	78957.44	193.4141	31548.07	9.7593	58485.28
53	CCB	-0.0386	46.67	6.7549	11277.66	-0.0379	71.27	-0.2373	3.33	-0.0110	253.00
54	1705328-4 10X	4574.0073	1094851.83	1377.1083	237560.78	1574.3137	26600.88	174.8241	30048.45	12.2136	73992.75
55	1705328-5 10X	2841.5026	685858.51	744.6803	134035.72	5822.9952	98944.39	87.1999	14917.37	9.1198	56142.58
56	1705328-6 10X	3645.7608	901440.17	1146.5120	205973.44	6495.3088	112500.46	165.5864	29290.52	9.9826	63534.99
57	1705328-7 10X	4680.3081	1124076.75	1416.8101	244956.16	4678.5792	78630.42	122.4878	21174.34	9.6656	59648.69
58	1705328-8 10X	4859.5210	1210813.39	1372.6133	246502.33	3189.5547	55679.48	131.9741	23561.09	10.7567	68397.77
59	1705328-9 10X	6288.0284	1572299.41	1487.6035	267262.49	1661.3863	29137.10	204.2318	36862.48	13.0063	83150.08
60	1705577-1 10X	1347.9852	333296.53	504.9109	96322.00	2671.2068	46219.40	42.3821	7335.33	2.1875	13855.80
61	1705577-1L 50X	255.2004	63564.96	99.9992	27353.55	523.2208	9093.95	7.5058	1326.78	0.4165	2943.94
62	1705577-1DUP ...	1251.6370	314724.64	474.8215	92754.38	2785.2525	48621.59	39.6931	6905.07	2.0410	13051.81

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	1875.8417	465161.87	883.7404	161546.85	3825.2700	66164.89	196.7717	33752.24	11.5443	72420.64
64	CCV	469.2312	111112.12	5261.0713	870242.82	4719.3405	78925.12	185.0381	30145.37	9.7031	58997.11
65	CCB	0.1571	90.00	8.4777	10997.41	-0.5830	58.83	-0.1325	20.00	-0.0094	253.00
66	1705577-1MSD ...	2050.5715	509658.73	939.1724	171439.42	3524.4856	60910.74	206.7851	35783.25	11.7316	73933.54
67	1705577-1A 10X	2232.3214	537368.35	4500.4003	758236.00	6400.3175	107412.81	409.3626	68228.97	20.8617	128730.49
68	1705610-1 10X	5994.4272	1452922.16	1461.4737	254691.22	23506.4300	402318.74	91.8003	16225.25	18.7480	116018.64
69	1705610-2 10X	5760.0441	1369051.28	2238.7884	377473.03	72551.4448	1231999.02	89.5087	15578.08	15.9301	99515.72
70	1705610-3 10X	3597.2442	859956.34	814.5408	144321.63	81552.3572	1382696.14	96.6947	16505.25	13.2919	79434.67
71	1705610-4 10X	7824.4757	1902304.24	1788.6662	310488.69	39850.9190	676178.49	93.9255	16495.62	24.5059	153394.38
72	1705610-6 10X	4192.3721	1028396.08	1549.1019	272600.09	8981.3692	152798.36	85.2358	14823.94	12.7225	78718.89
73	1706119-1 10X	3174.0041	773681.08	1048.1829	186510.72	9498.6277	161418.92	145.3739	25500.92	12.3700	75780.78
74	1706119-2 10X	8348.4198	2023662.78	1213.6262	213190.47	6892.9642	118289.58	33.5720	5974.70	9.4680	59783.22
75	1706210-2 10X	10611.9824	2569749.02	3034.5959	517718.89	23434.3874	395890.38	183.0043	33451.80	17.5358	111389.43
76	CCV	470.1174	114415.38	5243.3734	891451.24	4873.4301	83161.07	190.4181	31691.45	9.8481	61175.55
77	CCB	0.1656	96.67	7.2436	11301.06	-0.5126	62.52	-0.1767	13.33	-0.0160	220.33
78	1706216-1 10X	7.8982	2026.89	58.8154	20309.98	361.7363	6397.28	-0.0636	33.33	-0.0113	250.33
79	1706219-1 10X	3470.9688	854704.21	720.0797	132558.27	8026.7906	136510.15	84.4512	14653.77	10.3753	64484.56
80	LCV	8.7717	2203.58	107.0827	28114.68	104.2078	1819.91	19.7903	3333.84	0.4923	3253.34
81	CCV	476.6154	114592.27	5164.6958	867591.63	4778.8059	80356.08	195.2792	32276.04	9.8714	59163.04
82	CCB	0.1627	93.34	5.0333	10613.84	1.3555	91.99	-0.1958	10.00	-0.0150	225.00
83	1706079-1 10X	0.9210	270.02	544.6081	98179.07	14739.5660	244250.89	-0.1135	23.33	0.2598	1870.78
84	1706079-2 10X	0.8440	246.68	2236.0852	365583.98	89911.5705	1440515.90	-0.1328	20.00	0.1333	1103.37
85	1706080-1 10X	14.2245	1750.19	75646.3877	6337364.28	192.7391	1892.12	2.0797	290.02	9.0244	36626.16
86	1706080-2 10X	3.1709	620.04	17758.9980	2247760.59	123300.5799	1743266.81	0.2626	83.34	7.3836	43260.72
87	1706082-1 10X	0.4700	190.01	1333.2123	263671.98	34376.3017	677586.97	-0.1933	13.33	0.0507	798.69
88	1706083-1 10X	1.0924	326.69	2364.0729	414775.98	294894.7169	5223020.28	-0.0083	46.67	0.1026	1067.37
89	1706175-1 10X	0.9379	306.68	845.8612	164987.52	74978.5067	1369366.35	-0.1184	26.67	0.1006	1084.37
90	1706175-2 10X	1.0199	310.02	762.4371	141282.30	66412.6743	1156821.08	-0.1425	20.00	0.1724	1439.07
91	1706176-1 10X	5.2996	1363.46	523.2170	99279.61	29499.1608	508439.07	-0.1987	10.00	0.0426	599.35
92	1706177-1 10X	1.0672	320.02	487.4699	93064.24	29281.9077	492349.73	-0.1182	23.33	0.2982	2193.49
93	CCV	467.3058	115075.03	5115.3579	879950.35	4808.5364	81990.10	189.8182	31818.53	9.9162	60080.19

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.1487	93.34	10.2064	11911.50	-0.2710	66.31	-0.1156	23.33	0.0124	389.68

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	-0.0072	1620.10	-0.0064	61.11	-0.0284	3813.96	0.0009	52.22	0.0042	105.56
2	blank	0.0021	1690.11	-0.0009	90.00	-0.0223	3850.64	-0.0004	34.44	0.0057	110.00
3	blank	-0.1613	1324.52	-0.0109	116.67	-0.3469	4570.94	-0.0017	52.22	-0.0197	73.34
4	blank	0.0000	1683.44	0.0000	95.56	0.0000	4040.73	0.0000	40.00	0.0000	91.11
5	H/1000	0.5600	6030.07	0.2173	1255.62	5.8934	47694.01	0.0956	1320.08	0.5703	2042.38
6	H/100	5.0139	40937.31	1.9117	10374.49	51.5426	388443.00	0.9799	13237.70	5.0159	17367.11
7	H/10	49.0544	375644.51	18.9388	99261.95	481.8489	3504227.03	9.5541	125331.32	49.3468	165632.56
8	HIGH	500.0944	3536056.80	200.1070	971365.48	5001.7988	33684800.33	100.0448	1216344.15	500.0651	1555127.33
9	ICV	96.5383	732820.23	37.6544	195926.10	951.4962	6869283.23	18.9061	246324.63	98.0943	326957.12
10	ICB	0.0055	1683.45	-0.0008	88.89	0.0657	4417.47	0.0006	46.66	0.0593	289.05
11	LIV	0.9651	9009.22	0.5007	2718.04	9.7880	75129.22	0.4875	6440.25	1.9775	6730.36
12	ICSA	0.2885	3671.57	0.7363	3776.05	23653.7245	1.64319E+08	0.0011	51.11	0.0414	217.78
13	ICSAB	50.5240	370161.06	19.9492	100033.11	24398.3818	1.69605E+08	9.6528	121170.50	49.7585	159792.94
14	CCV	49.4491	375803.21	19.0581	99140.94	492.1184	3552325.05	9.6113	125149.94	49.4286	164648.42
15	CCB	-0.0203	1506.76	-0.0019	84.44	0.2135	5564.57	-0.0010	26.66	0.0160	144.45
16	1706270-1 100X	0.0121	1701.23	0.0971	591.13	0.2683	5777.99	0.0030	76.67	0.1752	664.47
17	1706270-2 100X	7.4747	58713.81	0.3764	2066.83	37.8520	279297.64	0.2261	3008.10	0.8554	2962.53
18	1706270-3 100X	13.2506	102247.46	1.0368	5499.88	57.8021	422050.58	0.1178	1576.77	5.5718	18699.65
19	1706275-2 100X	2.1174	17460.47	0.9392	4918.58	10.0491	75541.56	0.0214	314.45	1.0983	3704.93
20	1706275-3 100X	1.2398	10969.36	0.1757	1002.27	7.8767	60458.98	0.0832	1116.72	0.9830	3348.17
21	1706149-1	0.4649	4944.14	144.9300	723740.04	43.8814	307727.07	0.3453	4355.09	0.5168	1737.89
22	1706275-1 100X	-0.0075	1605.66	0.2488	1417.87	0.2186	5604.55	0.0008	50.00	0.0900	396.68
23	ZZZ	0.0795	2319.08	0.1023	650.02	13.7836	107533.87	0.0019	65.55	0.0439	243.34
24	LCV	0.9604	9147.09	0.4756	2636.92	10.1308	79131.35	0.4883	6576.97	1.9543	6781.50
25	CCV	49.3813	380802.57	19.0733	100663.16	486.3085	3561388.91	9.5952	126757.48	49.1727	166188.46
26	CCB	0.0032	1575.65	-0.0010	83.34	0.0188	3857.32	-0.0006	28.89	0.0121	122.23
27	1706149-1 10X	0.0509	2044.60	13.7439	72709.20	4.3538	35871.45	0.0342	492.24	0.0678	318.90
28	1705185-1 1000X	0.1137	2562.46	1.6325	8833.58	132.3932	987185.14	-0.0003	35.56	0.0318	200.00
29	1705185-1 10X	13.0316	86325.78	170.3199	762338.93	12710.9415	78919840.49	0.0486	577.79	0.8839	2610.25
30	1705185-3 10X	17.4978	115610.49	120.6623	540921.33	9029.2936	56151824.16	0.1375	1576.77	1.4025	4102.79
31	1705193-1 10X	0.7563	6614.75	25.6511	120048.59	1111.1246	7212671.77	0.0121	176.67	0.1393	496.68

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	0.8026	6947.13	35.6985	16744.17	1698.5115	11050768.38	0.1046	1264.51	0.7722	2399.09
33	1705271-1 10X	2.8951	14459.83	375.4409	1198790.23	1668.2210	7392015.31	0.1175	963.38	31.1438	63755.34
34	1705271-2 10X	0.2896	3863.85	26.7777	140872.25	1522.0330	11105497.75	0.0131	211.12	0.2397	896.72
35	1705286-1 10X	1.6031	13387.82	70.2444	355309.72	5234.0233	36728566.95	0.0340	467.79	0.2605	928.93
36	1705283-3 10X	1.2768	10851.47	272.5047	1361323.42	14624.3289	1.01348E+08	2.5360	31765.31	22.4549	71940.16
37	ZZZ	-0.0098	1594.55	0.0106	151.11	0.2544	5891.35	-0.0002	36.67	0.0148	141.11
38	ZZZ	-0.0011	1670.11	0.0169	186.67	0.2676	6014.73	0.0001	41.11	0.0189	156.67
39	LCV	1.0892	10139.91	0.5749	3161.47	11.3973	88411.38	0.5056	6799.27	2.2061	7631.88
40	CCV	49.1996	371673.62	18.9846	98154.98	484.9499	3478834.01	9.5109	123078.31	48.9786	162148.36
41	CCB	-0.0404	1342.30	0.0089	141.12	0.0410	4267.43	-0.0004	34.45	0.0138	136.67
42	IP170614-2MB ...	0.0068	1699.00	0.1752	1015.60	36.8006	272497.02	0.0016	60.00	0.1588	624.47
43	IM170614-2LCS...	48.7700	378635.86	10.0590	53491.02	486.2750	3584843.80	9.7048	129061.89	49.3974	168062.45
44	1705328-1 10X	4.6330	37455.88	231.9872	1231027.80	6309.7179	46449369.31	3.3194	44150.46	4.6701	15965.68
45	1705328-1L 50X	1.2508	11366.25	44.9248	239309.03	1238.0861	9150357.36	0.6418	8599.05	1.5679	5438.76
46	1705328-1DUP ...	4.6792	37891.25	230.3164	1224517.42	6462.4292	47670750.96	3.3335	44424.40	4.4300	15178.33
47	1705328-1MS 10X	55.3655	433907.91	261.3822	1401399.18	7869.1862	58536860.80	13.5967	182605.98	55.8662	191964.92
48	1705328-1MSD ...	55.0459	426283.53	251.5763	1332804.77	7620.0535	56008025.83	13.5955	180426.30	54.6303	185487.08
49	1705328-1A 10X	100.2450	752090.75	267.9675	1377638.80	7280.9420	51927999.23	21.9539	282692.60	100.3212	330471.20
50	1705328-2 10X	3.8368	31318.64	175.4558	931428.82	6073.0279	44726859.33	2.3383	31126.37	4.4878	15350.70
51	1705328-3 10X	4.5594	35930.22	215.2963	1112773.77	6301.9356	45190867.66	3.0070	38963.97	4.5581	15178.31
52	CCV	48.9665	364298.25	18.8240	95845.87	482.1499	3406586.82	9.5074	121168.72	48.5816	158400.60
53	CCB	0.3315	4229.49	0.1357	815.59	2.6692	23671.23	0.0055	112.22	0.3752	1367.86
54	1705328-4 10X	4.8487	37813.31	245.4688	1258770.47	6971.1900	49599752.60	3.5852	46077.80	4.5285	14963.64
55	1705328-5 10X	4.9499	38886.99	151.5235	783510.70	5278.2216	37864294.44	2.2010	28537.11	5.9452	19778.74
56	1705328-6 10X	6.3572	50681.02	226.4939	1199621.69	6852.1937	50350272.58	2.5872	34358.21	5.8785	20036.86
57	1705328-7 10X	5.2563	40988.58	212.0115	1090810.79	6611.8544	47195350.96	3.1660	40831.88	5.8168	19258.14
58	1705328-8 10X	5.0464	40891.75	245.0031	1307767.90	6670.0209	49393722.60	3.2606	43630.00	5.0141	17235.89
59	1705328-9 10X	5.3169	43144.04	258.3317	1383705.99	7891.4888	58643694.13	3.8130	51192.88	5.5265	19052.35
60	1705577-1 10X	3.7591	30634.13	55.4992	293926.82	2543.8242	18687248.47	1.3286	17658.58	3.1274	10695.83
61	1705577-1L 50X	0.7539	7520.70	10.7338	57312.46	503.2421	3725622.13	0.2619	3538.22	0.6376	2266.86
62	1705577-1DUP ...	7.8549	63288.53	56.5636	304725.61	2456.2511	18356129.73	1.4040	18977.86	7.1629	24803.37

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	54.9392	426579.01	68.7297	365146.95	2678.4939	19740455.13	10.7298	142779.07	52.1979	177692.03
64	CCV	49.7466	368885.96	19.2931	97903.55	489.7752	3449212.55	9.5380	121169.19	49.1665	159790.18
65	CCB	0.1500	2683.60	0.0721	453.34	1.5998	15004.20	0.0036	83.33	0.2387	856.71
66	1705577-1MSD ...	52.4095	407948.61	60.5086	322206.66	2983.5888	22036486.34	10.7123	142867.02	50.4950	172290.38
67	1705577-1A 10X	98.8630	743863.18	91.8028	473417.85	3428.8351	24533668.80	19.8253	256035.40	97.5985	322435.33
68	1705610-1 10X	8.9469	69266.42	400.9559	2081984.43	10273.7443	74006067.23	4.8841	63552.28	9.7502	32517.86
69	1705610-2 10X	9.0422	68636.18	334.0205	1701015.11	9440.2703	66691634.00	4.7303	60362.54	11.5329	37712.34
70	1705610-3 10X	6.3874	49236.54	274.6624	1406328.24	7120.8532	50594630.91	3.3868	43474.11	7.8888	25967.43
71	1705610-4 10X	11.5608	89317.09	274.6339	1430577.86	11627.8109	84026838.75	5.8527	76397.43	11.5515	38639.93
72	1705610-6 10X	5.6165	44621.13	145.4624	764424.71	6753.5732	49236042.60	2.7021	35599.74	5.6187	19002.29
73	1706119-1 10X	4.6820	37229.78	310.2389	1620026.74	7341.2770	53187882.54	2.2452	29399.84	4.9360	16600.79
74	1706119-2 10X	5.5722	43759.03	212.7025	1104586.00	10000.1956	72048025.59	5.0536	65768.59	9.0723	30268.01
75	1706210-2 10X	29.5598	224913.80	624.6643	3240473.55	22124.6117	159229E+08	12.7062	165122.43	29.6996	98788.97
76	CCV	49.3799	376320.76	19.1006	99628.33	487.8745	3530937.97	9.5892	125191.76	49.0745	163911.51
77	CCB	0.2511	3590.46	0.1238	748.92	2.3498	21207.98	0.0053	110.00	0.3152	1156.73
78	1706216-1 10X	0.4556	5218.66	19.1221	102272.06	2713.8991	20123253.03	0.0594	835.59	0.5448	1954.69
79	1706219-1 10X	24.7576	191798.21	156.4985	825489.38	16553.0960	1.21123E+08	3.2692	43230.04	16.6434	56336.37
80	LCV	2.7918	22966.20	1.1733	6246.83	23.6962	176391.56	0.5277	6971.58	4.0268	13626.92
81	CCV	49.4749	372488.82	19.0535	98178.80	487.7173	3487213.39	9.4165	121453.00	49.1088	162047.12
82	CCB	-0.0371	1331.19	0.0019	101.11	0.1825	5161.04	-0.0010	25.56	0.0117	125.56
83	1706079-1 10X	-0.0155	1464.53	11.0726	55907.75	0.1692	4970.97	0.0111	177.78	0.1149	456.68
84	1706079-2 10X	-0.0263	1356.74	4.3728	21675.53	0.2164	5191.05	0.0760	976.71	3.1827	10153.26
85	1706080-1 10X	4.3470	17232.55	0.8822	2335.75	21.6119	79756.71	0.1730	1143.39	3.9556	6620.31
86	1706080-2 10X	0.3441	3183.69	563.4465	2203127.48	7.3662	42899.69	1.4709	14433.18	9.1856	23074.20
87	1706082-1 10X	0.0047	1877.92	98.4401	577891.89	1.6457	17810.32	0.0557	862.26	0.1752	757.81
88	1706083-1 10X	0.0412	1980.15	0.1645	966.71	0.3147	6301.51	0.0092	162.23	0.1478	592.24
89	1706175-1 10X	0.1960	3382.62	0.8225	4749.64	0.7264	9943.44	0.0549	818.92	4.1144	14991.44
90	1706175-2 10X	0.1278	2660.25	0.0665	448.91	0.7920	9863.44	0.0028	76.67	0.2710	1015.60
91	1706176-1 10X	0.6458	6624.75	0.4046	2232.41	4.3082	35559.62	0.0240	356.68	69.3397	234853.00
92	1706177-1 10X	-0.0068	1601.22	0.0217	207.78	0.3471	6504.92	0.1131	1533.43	0.1925	740.03
93	CCV	48.2959	372420.33	18.7567	98983.80	475.0760	3478434.22	9.3654	123702.28	47.9880	162170.02

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0694	1131.17	0.0112	154.45	0.1899	5414.44	-0.0001	37.78	0.0255	177.78

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	-0.0019	681.14	0.0289	246.68	-0.0039	5.67	0.0132	3.33	0.0059	90.00
2	blank	0.0059	745.59	-0.0064	180.01	-0.0017	7.67	0.0228	4.40	-0.0031	33.33
3	blank	-0.0550	745.59	-0.0626	236.68	-0.0064	10.67	-0.0077	3.20	-0.0057	53.33
4	blank	0.0000	700.03	0.0000	193.34	0.0000	9.33	0.0000	1.87	0.0000	53.33
5	H/1000	1.0724	9676.31	2.1154	4167.40	0.1145	110.33	0.0938	12.27	0.1219	820.07
6	H/100	10.5227	89387.40	20.4022	38787.34	1.0446	945.03	0.9791	110.93	0.9516	6078.11
7	H/10	103.3217	848771.10	198.7387	366376.92	9.9734	8923.46	9.8429	1069.77	9.3729	57865.84
8	HIGH	999.6625	7606932.47	2000.1220	3416575.47	100.0022	89059.92	100.0159	10061.50	100.0632	572104.06
9	ICV	201.9856	1647438.30	383.7189	702572.33	19.7070	17482.37	19.2986	2082.27	19.8257	121498.06
10	ICB	0.0203	850.04	0.0620	303.35	-0.0026	6.67	0.0016	2.00	0.0018	63.33
11	LIV	2.0235	17311.53	9.6234	17940.85	0.1724	161.00	0.9858	108.93	0.4278	2693.69
12	ICSA	0.0824	1298.96	0.0604	286.68	0.0120	19.67	0.0088	2.67	0.2821	1713.51
13	ICSAB	101.6006	798653.16	197.2713	347984.21	10.0724	8984.84	9.7509	1014.03	10.1682	60060.04
14	CCV	103.1837	841272.50	198.9555	364068.13	10.0449	9062.21	9.4960	1023.90	9.5504	58500.91
15	CCB	0.0132	802.26	0.0279	243.35	-0.0012	8.00	0.0231	4.40	-0.0015	43.34
16	1706270-1 100X	0.0249	870.04	0.2606	656.71	0.1516	142.33	0.0182	3.73	8.1343	49320.43
17	1706270-2 100X	0.4343	4252.83	6.4832	12151.72	9.3550	8409.86	0.0310	5.20	7.3960	45730.19
18	1706270-3 100X	0.3493	3534.87	0.1994	553.37	0.0910	87.67	0.0153	3.47	37.0283	227472.68
19	1706275-2 100X	0.0617	1166.73	0.7619	1563.48	0.0531	54.67	0.0119	3.07	65.9893	399661.54
20	1706275-3 100X	0.1364	1781.23	2.1210	4054.02	2.2378	1992.80	0.0193	3.87	5.3167	32470.89
21	1706149-1	0.9586	8153.24	1.4477	2723.69	0.2928	273.00	0.4934	52.80	2090.3757	12293908.57
22	1706275-1 100X	0.0348	982.27	0.2035	573.37	0.0957	93.00	0.0135	3.33	3.5936	22549.88
23	ZZZ	0.1138	1667.89	1.2636	2600.34	-0.0016	8.00	0.0093	2.93	0.0656	470.03
24	LCV	2.0406	17792.06	9.8375	18691.52	0.2002	190.33	1.0323	116.27	0.4862	3113.78
25	CCV	102.6796	849393.07	198.5203	368540.61	10.0300	8974.83	9.9198	1085.77	9.2779	57671.85
26	CCB	0.0178	783.37	0.0447	256.68	-0.0046	4.67	0.0275	4.53	0.0019	60.00
27	1706149-1 10X	0.1117	1612.33	0.1503	470.03	0.0214	29.00	0.0525	7.60	202.3448	125911.54
28	1705185-1 1000X	0.0179	847.81	0.2393	643.38	0.0001	9.33	0.0264	4.80	106.5476	671800.56
29	1705185-1 10X	0.3772	3229.25	40.6649	64198.19	0.0463	49.67	0.2692	26.53	10835.3863	57122934.15
30	1705185-3 10X	1.6538	12203.60	5.9487	9543.35	0.1116	107.00	0.3018	29.60	9031.6750	47683055.96
31	1705193-1 10X	0.0343	861.15	2.1545	3713.97	0.2388	222.00	0.2254	23.47	5869.0632	32331907.02

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	0.5867	4921.92	2.3957	4120.74	0.4854	455.34	0.2107	22.13	5657.6578	31243652.03
33	1705271-1 10X	82.8496	415077.88	335.0444	376564.74	31.1633	22045.87	0.4547	31.20	2834.4328	10659434.84
34	1705271-2 10X	0.7892	7190.57	1.5632	3080.45	0.0908	112.00	0.0909	11.73	1422.9397	8810447.37
35	1705286-1 10X	0.4449	4183.92	2.5916	4797.62	0.1465	157.00	0.1053	12.80	4476.3244	26661598.77
36	1705283-3 10X	217.0384	1700083.47	57.8064	101793.22	11.3510	11540.44	0.2897	31.73	4965.0447	29211963.73
37	ZZZ	0.1210	1707.89	0.0806	343.36	0.0006	10.00	0.0155	3.60	0.1116	753.38
38	ZZZ	0.1222	1725.67	0.0533	293.35	-0.0028	6.67	0.0154	3.60	0.0608	436.69
39	LCV	2.0769	18072.35	9.4958	18024.17	0.1774	169.67	0.9849	110.80	0.5069	3237.16
40	CCV	102.4150	829877.05	195.3758	355308.65	9.9162	8874.78	9.8776	1059.24	9.6249	58604.81
41	CCB	0.0451	1060.05	-0.0161	160.01	-0.0010	8.33	0.0124	3.20	0.0157	150.01
42	IP170614-2MB ...	0.7120	6554.75	3.5780	6818.41	-0.0015	7.67	0.0076	2.67	0.0406	303.35
43	IM170614-2LCS...	101.5351	845602.08	201.5694	376745.02	9.9307	9151.26	9.6272	1060.84	9.5157	59534.98
44	1705328-1 10X	6.3916	53850.38	21.6674	40648.26	2.1889	1994.13	0.5337	60.53	16.4126	102621.49
45	1705328-1L 50X	1.2424	11063.84	4.0422	7765.54	0.4277	395.34	0.1330	16.53	3.0395	19115.43
46	1705328-1DUP ...	6.1287	51762.60	21.6351	40668.94	2.1812	2001.80	0.5675	64.40	17.8594	111868.71
47	1705328-1MS 10X	111.9131	941278.23	231.9214	437747.25	12.3652	11378.32	10.2011	1135.37	27.0959	171151.64
48	1705328-1MSD ...	111.0885	923180.69	229.5247	428074.89	12.2873	11324.29	10.2883	1131.37	27.0608	168897.24
49	1705328-1A 10X	203.1067	1636996.36	394.7324	714297.41	20.8385	18863.93	19.0065	2027.06	34.9017	211399.07
50	1705328-2 10X	5.4428	45979.94	23.7021	44465.66	2.6930	2514.87	0.7018	79.07	24.1924	151304.86
51	1705328-3 10X	5.8443	48020.32	35.2599	64321.34	1.9082	1715.10	0.5495	60.67	15.4300	93977.95
52	CCV	102.3235	816575.92	197.1658	353136.59	9.9211	8696.68	9.4779	1000.96	9.3841	56276.47
53	CCB	0.0296	938.93	0.0707	323.35	0.0009	10.00	0.0049	2.40	0.0038	76.67
54	1705328-4 10X	6.5326	53180.43	20.4772	37133.36	2.4021	2137.15	0.5684	62.13	15.2162	91946.95
55	1705328-5 10X	6.2712	51496.29	16.9414	31017.25	1.7241	1558.75	0.4286	47.73	29.5371	179928.60
56	1705328-6 10X	5.2760	44491.62	26.2075	49035.04	1.7227	1611.75	0.5868	66.27	21.0900	131603.37
57	1705328-7 10X	5.8831	48110.47	31.2617	56776.66	2.1922	1985.46	0.6636	72.53	20.5853	124786.32
58	1705328-8 10X	5.9307	50318.24	22.3422	42165.59	2.4797	2314.51	0.6555	74.40	19.0175	119609.45
59	1705328-9 10X	5.2596	44855.81	20.3422	38537.02	2.2341	2098.48	0.6199	70.67	14.9685	94488.44
60	1705577-1 10X	2.0409	17630.79	10.6075	19943.05	0.3835	357.34	0.1836	22.00	10.9158	68115.73
61	1705577-1L 50X	0.3965	4008.32	2.0579	4050.70	0.0782	81.67	0.0787	10.53	2.1870	13779.86
62	1705577-1DUP ...	2.9050	25222.93	10.5928	20266.53	0.4708	440.68	0.1707	20.93	10.8991	69190.24

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	102.0339	850236.39	203.9724	381433.65	10.1951	9358.71	9.5555	1054.71	20.3475	127348.43
64	CCV	102.4884	815232.81	197.3132	352234.19	9.8595	8764.72	9.6842	1019.23	9.3935	56142.64
65	CCB	0.0257	860.04	0.0540	280.02	-0.0017	7.33	0.0046	2.27	-0.0011	43.33
66	1705577-1MSD ...	104.3593	871564.83	337.5039	632425.78	10.2658	9471.11	9.7875	1081.51	19.7633	123986.70
67	1705577-1A 10X	197.8214	1599404.20	381.9170	693186.32	19.2082	17372.94	18.3899	1966.52	29.1880	177278.45
68	1705610-1 10X	8.8766	72923.33	27.3268	50115.07	2.6157	2379.85	0.8061	88.53	47.0928	288036.59
69	1705610-2 10X	14.0344	112696.72	70.8897	127213.71	5.2390	4800.72	0.7618	82.27	90.5313	542996.58
70	1705610-3 10X	5.7202	46584.99	21.4243	38797.23	5.2850	4629.01	0.5783	63.20	140.7940	849264.62
71	1705610-4 10X	12.5448	103109.66	39.9244	73369.61	4.6922	4313.92	0.9094	100.00	45.6721	280256.99
72	1705610-6 10X	8.3239	69248.58	24.2618	45053.60	2.6603	2416.86	0.5637	63.20	20.8260	128953.19
73	1706119-1 10X	47.8195	392070.32	537.2224	987288.03	6.3241	5675.34	0.7189	79.60	50.5906	311181.36
74	1706119-2 10X	23.0247	188091.58	51.3128	93954.02	1.0358	964.36	0.8369	91.87	58.4651	357622.95
75	1706210-2 10X	16.9797	138751.42	55.6586	101793.33	1.4404	1349.39	0.8999	98.53	49.8383	304547.75
76	CCV	101.8538	832654.57	195.4439	358602.57	9.7445	8852.42	9.5659	1034.83	9.5717	58806.08
77	CCB	0.0133	798.92	0.0626	306.69	0.0003	9.33	0.0134	3.33	-0.0036	30.00
78	1706216-1 10X	3.2666	28058.65	12.3595	23434.37	0.0575	60.67	0.0156	3.60	3.0948	19525.99
79	1706219-1 10X	67.8577	561744.96	427.0516	792777.80	15.0998	13722.46	0.3544	40.53	140.3424	871917.67
80	LCV	2.0771	17768.69	9.8436	18354.39	0.1803	167.00	0.9258	102.40	0.4522	2847.04
81	CCV	101.1916	817269.95	194.5926	352717.25	9.8939	8671.33	9.4243	1007.23	9.3478	56731.84
82	CCB	0.0149	788.92	0.0581	290.02	-0.0034	6.00	0.0169	3.60	-0.0002	50.00
83	1706079-1 10X	0.0709	1216.73	0.1045	366.69	0.1728	161.00	0.2360	26.40	474.5442	2817629.23
84	1706079-2 10X	0.1711	1966.82	0.0722	303.35	0.0414	45.00	0.0301	4.80	740.9250	4308817.96
85	1706080-1 10X	1.7095	7292.82	1.5630	1520.14	37.8896	22459.77	8.4548	455.61	10.0566	30760.69
86	1706080-2 10X	1.7271	11095.00	1.1867	1773.53	2.0160	1730.76	1.1169	91.87	8272.8571	38099110.27
87	1706082-1 10X	0.0230	975.60	0.2775	783.39	0.3201	376.01	0.1225	16.93	1031.5394	7130181.98
88	1706083-1 10X	0.0181	841.15	0.2920	736.72	0.0597	70.67	0.2208	26.13	14961.2514	93502178.61
89	1706175-1 10X	0.0664	1324.52	0.2145	630.05	0.0777	91.67	0.2586	32.27	1844.5591	12279587.74
90	1706175-2 10X	0.0019	710.03	0.1802	530.04	0.1055	108.67	0.2390	28.27	1721.1075	10806866.51
91	1706176-1 10X	0.0249	894.48	2.0147	3937.35	0.0146	23.00	0.1390	17.07	198.4989	1235684.82
92	1706177-1 10X	-0.0025	666.69	-0.0021	186.68	0.0849	87.33	1.1166	124.00	302.3972	1879410.86
93	CCV	100.4681	830998.40	193.2494	358694.90	10.0013	8862.77	9.7599	1067.91	9.3536	58129.75

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0103	608.91	0.0558	296.69	0.0007	9.67	0.0145	3.47	0.0527	383.38

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0000	13.33	0.0030	43.33	0.0008	23.33	-0.0028	0.67	0.0082	2560.33
2	blank	-0.0003	10.00	0.0024	37.78	-0.0003	10.00	-0.0022	2.00	0.0021	2336.95
3	blank	-0.0008	3.33	0.0002	61.11	0.0000	43.33	-0.0028	1.99	-0.0461	2153.60
4	blank	0.0000	13.33	0.0000	17.78	0.0000	13.33	0.0000	8.00	0.0000	2263.60
5	H/1000	0.0302	413.36	0.0931	806.70	0.0092	127.78	0.0237	69.92	0.5071	16826.42
6	H/100	0.3029	4020.69	0.9295	7943.21	0.0964	1218.96	0.2870	765.24	5.2748	148758.99
7	H/10	2.9842	39493.41	9.2441	76804.69	0.9929	12132.59	2.9308	7535.57	48.9693	1385042.95
8	HIGH	30.0016	396929.32	100.0763	770533.75	10.0007	113167.14	30.0071	71456.07	500.1003	13448287.72
9	ICV	5.7834	76526.93	18.6890	154189.45	1.9920	24164.22	5.7336	14635.59	102.3726	2896605.27
10	ICB	0.0000	13.33	0.0042	52.22	0.0009	24.44	-0.0022	1.99	0.2597	9761.85
11	LIV	0.0464	626.71	0.1898	1595.66	0.0521	650.02	0.1802	471.19	1.0740	32882.13
12	ICSA	-0.0010	0.00	198.0135	1572605.15	0.0050	71.11	-0.0132	-25.02	0.1362	5854.73
13	ICSAB	2.9604	39179.28	209.2011	1662725.73	0.9839	11503.20	2.8614	7038.43	51.3337	1394019.46
14	CCV	3.0135	39880.85	9.4282	77743.77	1.0022	12151.48	2.8962	7392.10	48.5976	1390193.41
15	CCB	-0.0005	6.67	0.0082	86.67	0.0006	21.11	-0.0020	2.66	0.0850	4724.26
16	1706270-1 100X	0.0000	13.33	0.0201	181.11	0.0011	25.56	-0.0020	2.65	0.0527	3660.63
17	1706270-2 100X	0.0020	40.00	0.0502	434.46	0.0010	25.55	-0.0004	6.62	0.0473	3477.22
18	1706270-3 100X	0.0003	16.67	0.0817	694.47	0.0012	27.78	-0.0020	2.60	0.0352	3213.82
19	1706275-2 100X	0.0008	23.33	0.0224	200.00	-0.0006	5.56	-0.0020	2.65	0.0376	3262.24
20	1706275-3 100X	-0.0010	0.00	0.0173	158.89	0.0001	13.33	-0.0012	4.65	0.0061	2316.94
21	1706149-1	0.0459	620.04	1440.5825	11408894.82	0.0065	87.78	-0.0376	-84.77	-0.0289	1323.46
22	1706275-1 100X	0.0005	20.00	0.1647	1406.75	0.0013	28.89	-0.0023	1.86	0.0036	2340.29
23	ZZZ	0.0035	60.00	0.0625	554.46	0.0007	22.22	0.0000	7.95	0.0899	4884.33
24	LCV	0.0484	653.38	0.2029	1736.79	0.0439	560.02	0.1790	477.17	0.9388	30069.67
25	CCV	3.0294	40091.50	9.3327	78074.14	0.9795	12050.28	2.8560	7394.73	48.3832	1398132.17
26	CCB	-0.0005	6.67	0.0140	126.67	-0.0004	7.78	-0.0001	7.32	0.0326	3030.43
27	1706149-1 10X	0.0038	63.33	144.7972	1213466.51	0.0016	32.22	-0.0095	-16.80	0.0002	2283.61
28	1705185-1 1000X	0.0005	20.00	0.1187	1024.49	-0.0003	10.00	-0.0020	2.57	-0.0024	2176.92
29	1705185-1 10X	0.0640	860.07	0.6231	4437.35	0.0004	15.55	0.0001	6.89	0.0978	4060.71
30	1705185-3 10X	0.0466	630.04	1.3418	9554.11	0.0114	130.00	0.0108	30.38	0.1399	4991.02
31	1705193-1 10X	0.0317	433.36	4.0522	30076.40	0.0010	22.22	-0.0002	6.36	0.0356	2717.02

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	0.0305	416.69	2.3395	17408.63	0.0010	22.22	0.0056	19.61	0.0729	3640.61
33	1705271-1 10X	0.0116	166.68	0.2167	1107.84	1.1097	8266.72	0.7520	1182.61	0.2226	4314.12
34	1705271-2 10X	0.0146	206.68	0.0827	706.70	0.0124	165.56	0.0083	29.26	0.0465	3283.83
35	1705286-1 10X	0.0244	336.69	0.2427	1962.37	0.0017	32.22	0.0015	11.14	0.3186	9863.52
36	1705283-3 10X	0.0383	520.04	1.2292	9755.33	0.0052	73.33	0.0110	34.37	0.3001	9146.39
37	ZZZ	-0.0008	3.33	0.0037	48.89	0.0005	18.89	0.0008	10.00	0.0353	3307.17
38	ZZZ	-0.0003	10.00	0.0081	86.67	0.0009	24.44	-0.0017	3.32	0.1390	6371.87
39	LCV	0.0423	573.37	0.1928	1649.00	0.0473	601.13	0.1843	489.85	0.9734	30373.81
40	CCV	2.9056	38454.28	9.2054	75431.60	0.9991	12040.29	2.8784	7300.94	48.5953	1398509.77
41	CCB	-0.0008	3.33	0.0028	41.11	0.0003	16.67	-0.0012	4.66	0.0223	2927.06
42	IP170614-2MB ...	-0.0005	6.67	0.0106	105.56	0.0008	23.33	-0.0007	5.99	1.4245	43782.63
43	IM170614-2LCS...	3.0741	40683.28	9.1947	77435.41	1.0053	12450.61	2.8907	7536.19	49.3470	1438753.42
44	1705328-1 10X	5.9573	78828.09	0.3881	3283.72	0.0234	302.23	0.0739	200.34	1.2183	38692.71
45	1705328-1L 50X	1.1561	15307.92	0.0804	696.70	0.0056	82.22	0.0151	47.27	0.2389	9299.88
46	1705328-1DUP ...	6.1961	81987.13	0.3905	3309.29	0.0343	437.79	0.0849	229.68	1.3315	40764.34
47	1705328-1MS 10X	9.6559	127759.75	8.8784	75532.86	1.0118	12657.43	3.0864	8126.68	54.4697	1563134.72
48	1705328-1MSD ...	9.5242	126016.52	8.7727	73735.81	1.0296	12726.31	3.0229	7863.37	53.3780	1548771.33
49	1705328-1A 10X	11.5565	152904.34	18.5001	150866.87	1.9243	23073.63	5.5818	14085.41	97.5717	2799828.81
50	1705328-2 10X	7.9574	105288.30	0.3612	3058.11	0.0155	204.45	0.0524	144.36	0.9352	29899.71
51	1705328-3 10X	6.4607	85487.92	0.3712	3060.34	0.0204	258.89	0.0652	173.03	1.4449	43217.59
52	CCV	2.8809	38126.90	9.1502	73843.02	0.9830	11667.78	2.8972	7236.39	47.5462	1344359.41
53	CCB	-0.0008	3.33	0.0036	47.78	0.0006	20.00	0.0011	10.66	0.0364	3367.16
54	1705328-4 10X	5.6789	75143.69	0.3633	2970.32	0.0194	244.45	0.1024	265.05	1.4560	43535.59
55	1705328-5 10X	4.6171	61097.49	1.2062	9912.10	0.3169	3831.64	0.0452	122.35	0.7434	23608.83
56	1705328-6 10X	6.6287	87709.88	0.3793	3203.70	0.0159	208.89	0.0551	151.01	1.5049	46681.06
57	1705328-7 10X	7.3737	97566.78	0.3124	2565.80	0.0260	324.45	0.0740	194.41	1.4476	43070.63
58	1705328-8 10X	7.4260	98258.13	0.3802	3237.04	0.0196	257.79	0.0789	214.35	1.2929	40697.30
59	1705328-9 10X	7.1638	94789.72	0.3529	3015.88	0.0193	254.45	0.0321	92.37	1.5645	48663.52
60	1705577-1 10X	1.8887	25000.22	0.3419	2888.09	0.0065	93.33	0.0113	37.05	0.9294	28847.60
61	1705577-1L 50X	0.3901	5174.40	0.0674	586.69	0.0014	30.00	0.0003	8.61	0.1714	7181.93
62	1705577-1DUP ...	1.8907	25027.39	0.4433	3803.85	0.0052	78.89	0.0150	47.62	0.9488	29512.64

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	4.9030	64879.72	9.0631	76376.91	0.9305	11533.25	2.7673	7217.49	48.6435	1400778.58
64	CCV	2.8803	38119.89	9.2203	74170.28	0.9956	11778.95	2.8453	7082.96	47.6415	1347589.20
65	CCB	-0.0008	3.33	0.0010	24.44	0.0010	24.45	-0.0017	3.33	0.0294	2997.11
66	1705577-1MSD ...	4.9781	65872.99	9.1144	76978.86	0.9446	11733.38	2.8386	7420.17	49.2643	1435163.78
67	1705577-1A 10X	7.5974	100525.17	18.2769	149491.59	1.9138	23013.64	5.5436	14030.95	98.4198	2752503.71
68	1705610-1 10X	7.8410	103748.80	0.2779	2305.75	0.0194	247.78	0.2071	535.12	1.4154	43451.44
69	1705610-2 10X	7.5522	99927.16	0.4420	3586.02	0.0297	365.57	0.3804	957.68	1.2639	38011.11
70	1705610-3 10X	5.9748	79059.46	0.3341	2731.39	0.0137	175.56	0.2753	699.08	1.1686	35234.23
71	1705610-4 10X	8.4916	112355.80	0.4114	3415.97	0.0248	313.34	0.2135	553.01	1.3554	41730.27
72	1705610-6 10X	5.1884	68655.08	0.2529	2125.73	0.0181	234.45	0.1198	316.46	1.2571	38452.35
73	1706119-1 10X	6.6528	88028.45	0.4107	3418.20	0.3836	4682.98	1.1599	2979.30	2.9052	86763.19
74	1706119-2 10X	12.1715	161040.92	0.0338	295.56	0.0596	734.47	0.1737	449.98	1.5139	46032.40
75	1706210-2 10X	9.6120	127178.39	0.4619	3817.18	0.0160	206.67	0.0068	24.95	1.4276	43241.06
76	CCV	2.9468	38998.78	9.2429	76408.33	0.9762	11870.11	2.8459	7282.83	47.9499	1394416.80
77	CCB	0.0013	30.00	0.0039	50.00	0.0005	18.89	-0.0020	2.66	0.0261	3057.12
78	1706216-1 10X	0.0275	376.69	0.1202	1036.72	0.0041	64.44	0.0544	150.56	4.5632	136809.37
79	1706219-1 10X	2.8692	37972.84	14.8117	123924.85	0.4135	5096.45	0.4506	1173.12	2.6175	76983.23
80	LCV	0.0471	636.71	0.1941	1632.33	0.0480	601.13	0.1766	462.51	0.9468	29869.29
81	CCV	2.9114	38531.03	9.2284	75372.58	0.9912	11906.85	2.8181	7124.20	47.4585	1352814.56
82	CCB	-0.0008	3.33	0.0017	31.11	0.0004	17.78	-0.0020	2.67	0.0369	3313.82
83	1706079-1 10X	0.0023	43.34	0.3516	2828.08	0.0001	13.33	0.0004	8.39	-0.0023	2153.59
84	1706079-2 10X	0.0035	60.00	0.5396	4242.85	0.0008	21.11	-0.0010	4.91	0.0014	2146.92
85	1706080-1 10X	0.7120	9433.24	321.9869	1325519.01	0.1282	782.25	0.0196	28.78	0.1178	2153.59
86	1706080-2 10X	0.1714	2280.28	65.9111	408767.79	0.0434	405.57	0.0371	76.87	0.0552	2156.94
87	1706082-1 10X	0.0093	136.67	0.5393	5043.10	0.0009	26.67	0.0132	46.84	0.0000	2123.57
88	1706083-1 10X	0.0857	1146.76	0.1445	1233.40	0.0526	663.36	0.0074	27.21	-0.0065	1893.54
89	1706175-1 10X	0.0093	136.68	0.7332	6590.33	0.0812	1083.39	0.0008	10.68	-0.0094	1943.53
90	1706175-2 10X	0.0043	70.00	0.0889	768.92	0.1026	1287.85	0.0023	13.92	0.0198	2872.30
91	1706176-1 10X	0.0008	23.33	0.8379	7041.66	0.0015	31.11	0.0039	17.97	-0.0133	1896.87
92	1706177-1 10X	0.0028	50.00	0.1398	1186.73	0.0004	17.78	-0.0020	2.55	0.0229	2970.96
93	CCV	2.9412	38925.23	9.1579	76600.23	0.9728	11969.09	2.8278	7322.18	47.2448	1399104.77

Batch Summary Report

Analyte Table

		89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0005	6.67	0.0020	34.44	0.0011	26.67	-0.0015	4.00	0.0229	3047.13

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	0.0005	35.56	-0.0501	60.00	-0.0008	6.67	0.0131	1880.26	0.0001	46.67
2	blank	-0.0002	30.00	-0.0541	50.00	-0.0004	20.00	0.0003	186.68	-0.0001	16.67
3	blank	-0.0016	57.78	-0.0512	186.68	-0.0009	13.33	-0.0004	180.01	-0.0002	10.00
4	blank	0.0000	32.22	-0.0485	63.33	0.0000	30.00	0.0000	143.34	0.0000	30.00
5	H/1000	0.1189	992.27	0.1203	466.70	0.0324	916.74	0.0324	4357.50	0.0315	4814.34
6	H/100	0.3195	2649.15	1.0557	2697.03	0.2848	7882.40	0.3100	39715.90	0.3112	46427.96
7	H/10	3.0085	24617.27	9.9702	23518.75	2.8466	77974.19	2.9582	378391.22	2.9526	440788.98
8	HIGH	29.9989	244266.57	100.0024	226337.72	30.0155	779702.78	30.0041	3702196.82	30.0046	4322517.33
9	ICV	6.1496	4988.19	19.6401	46581.85	6.0144	162938.28	6.0228	771193.90	6.0320	901661.81
10	ICB	0.0002	32.22	-0.0596	36.67	0.0012	63.33	0.0000	136.67	0.0002	66.67
11	LIV	0.0978	818.92	0.4461	1220.12	0.0533	1463.46	0.0528	6865.15	0.0506	7558.86
12	ICSA	0.0027	53.33	-0.0466	63.34	0.0180	500.04	0.0026	456.70	0.0001	50.00
13	ICSAB	3.0562	24929.89	10.1480	22877.94	2.9614	78356.88	2.9281	366375.55	2.9536	431370.00
14	CCV	3.0506	25167.05	9.4943	22717.62	2.9249	79827.54	2.9761	382593.42	2.9506	442728.22
15	CCB	0.0005	35.56	-0.0483	63.34	-0.0007	10.00	-0.0001	130.01	0.0000	30.00
16	1706270-1 100X	-0.0004	27.78	-0.0254	116.68	0.0008	50.00	-0.0001	130.00	0.0000	33.33
17	1706270-2 100X	0.0006	36.67	0.1526	533.37	-0.0001	26.67	0.0001	153.34	0.0000	26.67
18	1706270-3 100X	-0.0022	13.33	2.5159	6054.79	0.0019	80.00	0.0050	786.73	0.0003	76.67
19	1706275-2 100X	-0.0014	18.89	0.6536	1693.50	-0.0002	23.33	0.0004	190.01	0.0000	26.67
20	1706275-3 100X	-0.0004	27.78	0.0829	366.69	-0.0002	23.33	-0.0001	126.67	-0.0001	16.67
21	1706149-1	0.0192	190.01	24.9914	56290.57	0.0238	676.71	0.0662	8479.40	0.0049	750.06
22	1706275-1 100X	-0.0016	17.78	-0.0368	90.00	-0.0006	13.33	0.0000	143.34	0.0000	23.33
23	ZZZ	0.0075	97.78	0.2313	720.06	0.0043	150.01	0.0107	1503.47	0.0007	140.01
24	LCV	0.0917	790.03	0.4972	1360.13	0.0541	1506.82	0.0509	6865.16	0.0501	7742.29
25	CCV	3.0871	25261.63	9.8044	23294.99	2.9025	80460.07	2.9084	377747.06	2.8995	439533.63
26	CCB	-0.0005	25.55	-0.0524	50.00	0.0001	30.00	0.0001	150.01	0.0002	50.00
27	1706149-1 10X	0.0001	33.33	2.2512	5417.85	0.0014	70.00	0.0066	1006.75	0.0008	146.68
28	1705185-1 1000X	-0.0002	30.00	59.4852	141215.60	0.0006	46.67	-0.0001	133.34	0.0000	30.00
29	1705185-1 10X	0.0157	156.67	6058.7081	11808544.41	0.0436	1080.09	0.0036	520.03	0.0007	116.68
30	1705185-3 10X	0.0452	394.45	5936.8933	11616350.66	0.0476	1190.10	0.0091	1150.10	0.0012	186.68
31	1705193-1 10X	0.0305	280.01	2593.0152	5221433.88	0.0220	590.04	0.0041	610.04	0.0003	73.34

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	0.0676	600.02	2327.8776	4793458.05	0.0269	713.38	0.0313	3877.32	0.0027	403.36
33	1705271-1 10X	0.9973	6471.43	135.7289	169293.04	0.0095	196.68	0.0130	1126.76	0.0021	216.68
34	1705271-2 10X	0.0199	240.00	142.5295	312345.64	0.0066	220.01	0.0083	1276.78	0.0014	253.35
35	1705286-1 10X	0.0512	504.46	1939.2115	4103731.39	0.0153	450.03	0.0054	840.06	0.0006	113.34
36	1705283-3 10X	1.9066	17739.07	466.9122	985700.92	0.0132	386.69	0.0196	2607.02	0.0028	440.03
37	ZZZ	0.0052	76.67	0.0046	186.68	0.0005	43.33	-0.0002	120.01	-0.0001	16.67
38	ZZZ	0.0024	52.22	-0.0193	130.01	-0.0001	26.67	-0.0006	66.67	-0.0001	20.00
39	LCV	0.1051	901.15	0.5006	1350.12	0.0580	1613.50	0.0496	6538.41	0.0515	7779.03
40	CCV	3.0522	24981.22	9.7369	23138.25	2.8788	78409.77	2.9235	377459.28	2.9595	446029.03
41	CCB	-0.0008	25.55	-0.0327	100.01	0.0000	30.00	0.0004	196.68	0.0000	36.67
42	IP170614-2MB ...	0.0008	37.78	-0.0056	163.34	0.0035	126.67	0.0028	493.37	0.0005	106.67
43	IM170614-2LCS...	2.9309	24696.18	9.9204	23655.53	2.9988	82417.30	3.0340	399829.40	5.9741	918928.61
44	1705328-1 10X	0.1146	981.16	85.0805	203479.99	13.9399	390626.19	31.3808	4152691.09	3.1978	494033.43
45	1705328-1L 50X	0.0230	221.11	16.6007	39321.11	2.7540	76256.12	6.3606	828747.23	0.6450	98128.79
46	1705328-1DUP ...	0.1083	936.71	86.8488	205991.61	14.1359	390365.89	31.3075	4051251.81	3.2518	491245.66
47	1705328-1MS 10X	1.5645	13184.57	101.6859	241368.48	19.5664	540359.27	38.1064	4993170.55	10.1556	1553585.39
48	1705328-1MSD ...	1.5649	13206.84	101.9149	240469.15	19.1811	531557.58	37.2539	4908678.99	10.1030	1554359.20
49	1705328-1A 10X	5.7890	47915.29	102.4698	237639.40	19.7808	532159.63	36.2688	4713998.16	8.7727	1331335.86
50	1705328-2 10X	0.1477	1288.96	71.1640	168889.59	15.7501	436731.62	32.5964	4273399.52	3.8310	586376.48
51	1705328-3 10X	0.1184	998.94	96.9405	223549.13	13.2462	358140.91	29.8365	3803435.98	3.1865	474360.45
52	CCV	3.0114	24136.55	9.7791	22480.67	2.8453	75505.46	2.9384	369444.01	2.9308	430132.09
53	CCB	-0.0023	12.22	-0.0467	66.67	0.0001	33.33	0.0011	283.35	0.0001	50.00
54	1705328-4 10X	0.1587	1316.74	103.0936	236049.59	15.6800	422755.54	34.8166	4449219.62	3.4582	515946.46
55	1705328-5 10X	0.0668	580.02	81.6228	188074.64	9.2757	251988.70	21.3120	2712638.40	2.3806	353695.11
56	1705328-6 10X	0.0708	634.47	67.3370	158532.86	14.8849	412192.03	34.2092	4462081.91	3.4465	524850.37
57	1705328-7 10X	0.0931	798.92	86.6027	197954.21	16.1215	433125.67	36.4541	4659224.31	3.7413	558356.89
58	1705328-8 10X	0.1163	1020.05	98.9610	236257.92	16.3457	455860.70	36.2909	4797630.34	3.7970	586153.69
59	1705328-9 10X	0.1109	981.16	103.6063	249210.85	15.2523	426893.05	36.2517	4802987.43	3.5651	551506.63
60	1705577-1 10X	0.0165	168.89	174.8212	412011.24	3.1492	87073.09	7.2409	946581.57	0.8550	130521.88
61	1705577-1L 50X	0.0022	51.11	33.4408	78841.60	0.6149	16993.33	1.3847	181207.36	0.1673	25572.39
62	1705577-1DUP ...	0.0123	135.56	187.0291	442236.96	3.0850	86056.47	7.0729	917123.21	0.8449	127897.31

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	1.7779	14939.51	183.7285	434654.78	6.1136	169022.97	10.1832	1313162.46	6.7631	1017987.98
64	CCV	2.9325	23844.96	9.7092	22430.44	2.8556	76359.32	2.8964	368467.14	2.8678	425864.25
65	CCB	-0.0013	20.00	-0.0365	86.67	0.0001	30.00	0.0005	200.01	0.0002	63.34
66	1705577-1MSD ...	1.8302	15453.36	206.7053	491546.95	6.3172	174508.43	10.6072	1393273.47	6.8046	1043428.89
67	1705577-1A 10X	5.6106	46405.24	191.9720	442554.93	8.7901	235865.19	13.2565	1665560.60	6.5643	962909.65
68	1705610-1 10X	0.1214	1037.83	90.6851	212392.83	13.4347	367815.45	28.4918	3754479.11	3.4624	532736.03
69	1705610-2 10X	0.1769	1511.21	154.7085	355985.37	12.2684	333283.74	27.0222	3431904.12	3.3055	490201.98
70	1705610-3 10X	0.1666	1362.31	110.0029	254625.85	8.8868	241052.91	19.0845	2447901.11	2.2993	344351.21
71	1705610-4 10X	0.1485	1277.85	169.8959	396874.32	14.1789	384883.43	30.9947	3966433.90	3.8332	572698.62
72	1705610-6 10X	0.1109	948.94	73.3167	171147.44	10.6191	288911.47	22.4631	2908821.41	2.7397	414226.74
73	1706119-1 10X	0.6457	5323.20	145.0695	337933.49	14.6748	398806.95	31.0674	4072233.27	3.6725	562033.12
74	1706119-2 10X	0.0594	533.35	54.7275	127701.84	18.7225	513712.27	39.5420	5192625.96	4.8971	750726.58
75	1706210-2 10X	0.0105	122.23	126.3528	294375.10	9.8834	267088.49	29.1536	3804993.28	3.9907	608063.64
76	CCV	2.9243	24293.44	9.7488	22767.68	2.8910	78885.06	2.9003	379773.43	2.8949	442449.60
77	CCB	-0.0013	21.11	-0.0479	63.33	-0.0001	26.67	0.0004	196.68	-0.0001	16.67
78	1706216-1 10X	0.0859	736.69	4.2317	12375.44	0.0688	1953.56	0.0598	8025.83	0.0107	1673.51
79	1706219-1 10X	42.5924	353702.48	1594.5830	3781510.78	6.3553	172838.81	13.0117	1664460.29	1.4955	223420.41
80	LCV	0.0948	790.03	0.4895	1323.46	0.0569	1556.82	0.0535	7058.63	0.0498	7552.22
81	CCV	2.9812	23897.27	9.7232	22530.78	2.8624	76959.22	2.9130	368840.23	2.9118	430348.56
82	CCB	-0.0001	30.00	-0.0405	80.00	-0.0003	20.00	0.0007	223.35	0.0000	26.67
83	1706079-1 10X	0.0047	68.89	13.6997	30985.43	0.0065	200.01	0.0080	1143.43	0.0006	116.67
84	1706079-2 10X	0.0005	34.45	4.6468	10467.42	0.1234	3190.47	0.0039	603.38	0.0032	483.37
85	1706080-1 10X	10.0516	54467.47	5.3707	5201.16	8.2193	126276.28	408.6677	25991612.11	3.7547	278855.64
86	1706080-2 10X	1.8877	14772.70	69.8627	103881.52	5.9711	135054.71	12.4333	1215323.52	0.9126	104188.73
87	1706082-1 10X	0.0751	821.15	49.4601	116295.67	0.0201	666.71	0.1409	20930.44	0.0131	2293.66
88	1706083-1 10X	0.0017	51.11	314.7566	699261.27	0.0144	440.03	0.0060	956.75	0.0011	200.01
89	1706175-1 10X	0.0035	70.00	156.8041	365432.78	0.0026	106.67	0.0035	636.71	0.0002	56.67
90	1706175-2 10X	0.0027	56.67	145.4199	342681.52	0.0072	230.01	0.0063	996.76	0.0006	130.01
91	1706176-1 10X	0.0673	603.35	7.7342	18281.57	0.0104	316.69	0.0048	776.72	0.0014	243.35
92	1706177-1 10X	0.0000	32.22	17.4433	40798.19	0.0014	66.67	0.0009	256.68	-0.0001	20.00
93	CCV	2.9815	24160.96	9.7476	23198.50	2.8629	78051.31	2.9416	380657.49	2.9184	440883.26

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0029	7.78	-0.0412	80.00	0.0007	50.00	0.0008	246.68	0.0001	43.33

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank	-0.0009	23.33	0.0004	28.57	0.0192	1443.46	0.0003	24.44	0.0016	56.67
2	blank	-0.0014	10.00	0.0002	24.29	0.0144	1300.12	0.0001	20.00	0.0010	38.89
3	blank	-0.0013	23.33	-0.0005	32.86	0.0030	3233.85	0.0000	48.89	0.0000	25.56
4	blank	0.0000	46.67	0.0000	20.00	0.0077	1110.09	0.0000	15.56	0.0000	8.89
5	H/1000	0.0313	880.07	0.0023	68.57	0.0654	2746.93	0.0081	264.45	0.0124	376.68
6	H/100	0.3024	7942.42	0.0192	423.82	0.5158	15814.23	0.0877	2709.18	0.0986	2935.90
7	H/10	2.9082	76032.16	0.1996	4213.96	4.9569	144082.41	0.9311	28104.03	0.9839	28698.56
8	HIGH	30.0092	756841.14	2.0001	39033.59	50.0041	1341499.29	10.0070	291619.08	10.0016	281711.76
9	ICV	5.9570	155926.89	0.3919	8159.90	10.2617	293860.42	1.8916	57594.88	1.9553	57533.02
10	ICB	-0.0011	16.67	0.0002	24.76	0.0116	1223.44	0.0003	25.55	0.0002	13.33
11	LIV	0.0504	1356.79	0.0090	210.48	0.2064	6874.34	0.0169	525.57	0.0097	293.34
12	ICSA	-0.0006	30.00	0.0000	18.10	0.0170	1313.44	0.0007	33.33	0.0007	28.89
13	ICSAB	2.9643	75830.53	0.1951	3862.43	5.0762	138196.74	1.0081	29081.45	0.9969	27789.00
14	CCV	2.9572	77730.53	0.1960	4125.36	4.9463	143306.79	0.9398	28760.88	0.9790	28956.87
15	CCB	-0.0015	6.67	-0.0002	14.76	0.0086	1130.08	0.0000	15.55	0.0002	14.44
16	1706270-1 100X	-0.0014	10.00	0.0038	98.57	0.0051	1016.74	0.0000	14.44	0.0019	64.44
17	1706270-2 100X	-0.0012	13.33	-0.0003	12.38	0.0118	1173.43	0.0000	15.56	0.0497	1457.87
18	1706270-3 100X	0.0002	50.00	-0.0004	10.95	0.0127	1226.78	0.0003	23.33	0.0029	92.23
19	1706275-2 100X	-0.0009	23.33	-0.0002	14.76	0.0144	1276.78	0.0000	15.56	0.0010	38.89
20	1706275-3 100X	-0.0005	33.33	-0.0005	9.05	0.0133	1220.10	0.0005	28.89	0.0077	231.12
21	1706149-1	0.0197	553.36	0.0010	38.09	0.0455	2056.86	0.0032	106.67	31.0473	868909.99
22	1706275-1 100X	-0.0007	26.67	0.0020	60.47	0.0121	1213.43	0.0001	17.78	0.0014	51.11
23	ZZZ	0.0039	146.68	-0.0004	12.38	0.0255	1620.15	0.0012	51.11	0.0010	38.89
24	LCV	0.0554	1540.15	0.0090	205.72	0.2099	6861.03	0.0162	511.13	0.0098	297.79
25	CCV	2.9239	77633.85	0.1980	4127.27	4.9757	142784.49	0.9347	28407.90	0.9802	28787.65
26	CCB	-0.0013	10.00	-0.0001	15.71	0.0118	1146.76	0.0001	16.67	0.0007	26.67
27	1706149-1 10X	0.0001	50.00	-0.0002	15.71	0.0116	1226.78	0.0005	31.11	3.0753	89252.15
28	1705185-1 1000X	-0.0006	30.00	0.0000	20.00	0.0043	1003.41	0.0000	16.66	0.0015	52.22
29	1705185-1 10X	0.0115	296.69	0.0152	265.24	0.0277	1310.10	0.0013	45.56	0.0024	66.66
30	1705185-3 10X	0.0117	310.02	0.0211	354.77	0.3085	7487.89	0.0026	77.78	0.0041	107.78
31	1705193-1 10X	0.0045	150.01	0.1635	2764.09	0.0401	1630.15	0.0006	28.89	0.0034	92.23

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1705193-2 10X	0.0115	323.36	0.1228	2104.45	0.0993	3030.33	0.0032	98.89	0.0275	712.25
33	1705271-1 10X	0.0100	193.35	4.6511	46512.11	33.1796	456288.87	0.0059	102.23	0.0145	230.01
34	1705271-2 10X	0.0057	206.68	0.0139	270.01	0.3250	8911.69	0.0015	57.78	0.0019	61.11
35	1705286-1 10X	0.0037	143.34	0.0077	150.48	0.0432	1773.51	0.0008	34.44	0.0027	78.89
36	1705283-3 10X	0.0085	263.35	0.0022	52.86	0.0592	2093.58	0.0023	76.67	0.3083	8112.34
37	ZZZ	-0.0010	20.00	-0.0001	17.14	0.0283	1716.84	-0.0001	13.33	0.0000	8.89
38	ZZZ	-0.0017	0.00	-0.0003	13.81	0.0262	1636.82	0.0002	22.22	0.0002	14.44
39	LCV	0.0480	1310.12	0.0099	227.62	0.2167	7151.19	0.0170	530.02	0.0102	306.68
40	CCV	2.9216	77124.29	0.1958	4104.88	4.9232	142029.59	0.9090	27635.43	0.9600	28202.09
41	CCB	-0.0014	10.00	-0.0003	12.85	0.0152	1336.79	0.0000	16.67	0.0005	22.22
42	IP170614-2MB ...	-0.0006	30.00	0.0000	20.95	0.1410	5000.64	-0.0001	13.33	0.0009	35.55
43	IM170614-2LCS...	3.0113	81131.55	0.1947	4114.41	5.0550	146927.08	0.9154	27939.27	0.9719	28659.65
44	1705328-1 10X	11.1897	302713.49	0.1052	2267.81	9.1381	269305.28	3.6978	113866.95	9.0800	270229.09
45	1705328-1L 50X	2.2312	59446.55	0.0194	433.82	1.7871	53213.14	0.7149	21741.40	1.7762	52169.20
46	1705328-1DUP ...	11.5193	304703.49	0.0999	2170.17	9.2749	275157.29	3.8394	117272.31	7.3782	217804.98
47	1705328-1MS 10X	15.8187	423738.74	0.3191	6809.22	14.8315	434680.94	4.9203	150397.91	6.0576	178939.14
48	1705328-1MSD ...	15.7897	425310.06	0.3163	6729.66	17.2116	502668.83	5.1578	156759.72	6.4706	190028.03
49	1705328-1A 10X	16.7044	443781.05	0.4876	10120.16	18.3098	522176.73	5.6329	168242.61	10.9443	315893.29
50	1705328-2 10X	14.1931	380333.72	0.0772	1696.30	6.3105	189055.84	2.6361	80546.73	0.8619	25459.05
51	1705328-3 10X	11.4001	297057.32	0.1012	2108.26	8.6373	245733.24	3.7486	111315.34	3.6907	105926.82
52	CCV	2.9165	74963.78	0.1946	3982.46	4.8782	137416.20	0.9514	27991.59	0.9621	27360.39
53	CCB	-0.0011	16.67	-0.0005	9.52	0.0141	1300.12	0.0002	21.11	0.0000	10.00
54	1705328-4 10X	12.0324	314276.03	0.1091	2264.47	10.6976	303296.77	4.2388	124976.65	7.9024	225188.20
55	1705328-5 10X	8.7841	228545.89	0.0579	1236.73	5.3642	155731.86	2.1625	64174.59	5.4761	157023.69
56	1705328-6 10X	12.2420	326446.90	0.0768	1651.53	6.6675	195495.64	3.5232	106787.94	3.7292	109254.41
57	1705328-7 10X	13.4444	351224.62	0.1021	2111.11	9.1985	259870.14	3.9191	115362.59	4.5219	128635.17
58	1705328-8 10X	13.3946	361989.22	0.1098	2376.40	9.4874	280756.25	4.3664	134234.30	2.7706	82335.75
59	1705328-9 10X	12.6020	341321.82	0.1407	3027.95	8.9390	263501.85	5.1055	158161.68	1.1910	35671.46
60	1705577-1 10X	3.1912	85284.48	0.0301	645.26	2.3361	67616.68	2.0132	61118.05	0.4378	12851.30
61	1705577-1L 50X	0.6154	16496.32	0.0063	152.38	0.4645	14220.16	0.3748	11370.15	0.0840	2470.25
62	1705577-1DUP ...	3.2329	85719.01	0.0304	667.64	2.1633	64134.09	1.9258	58669.13	0.4261	12551.09

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	1705577-1MS 10X	6.0618	159780.47	0.2142	4532.15	7.2625	211068.16	2.9587	90175.44	1.4191	41796.81
64	CCV	2.9388	76437.99	0.1955	3963.41	4.8748	136073.16	0.9204	27212.41	0.9697	27702.18
65	CCB	-0.0007	26.67	-0.0003	13.33	0.0134	1190.10	0.0004	26.67	0.0007	26.66
66	1705577-1MSD ...	6.3011	169146.31	0.2181	4590.26	7.0808	204733.41	3.0849	94507.02	1.4107	41776.62
67	1705577-1A 10X	9.0515	232485.78	0.4038	8230.91	11.7850	330208.32	3.9312	116734.82	2.3154	66453.86
68	1705610-1 10X	13.0827	352372.73	0.0844	1788.69	9.2782	268256.98	3.5103	105871.79	0.3893	11353.45
69	1705610-2 10X	12.7128	329992.13	0.1029	2136.36	19.4024	549192.98	1.7123	50806.18	0.6652	19068.12
70	1705610-3 10X	8.8614	232331.16	0.0762	1579.62	6.9058	195228.65	2.2797	67976.07	0.6906	19904.72
71	1705610-4 10X	14.9868	392008.58	0.1033	2178.27	16.1580	465303.97	3.1144	93713.31	0.3759	10934.27
72	1705610-6 10X	10.3419	273744.67	0.0788	1673.44	8.2168	238066.46	3.2521	97736.11	0.2617	7608.76
73	1706119-1 10X	13.6866	366745.93	0.0869	1840.60	113.3648	3267780.05	4.0459	121406.92	1.2373	35883.92
74	1706119-2 10X	18.6984	501773.31	0.2347	4907.03	17.0502	488707.32	7.0733	212385.67	1.0565	30665.39
75	1706210-2 10X	16.8269	448818.03	0.1577	3277.05	7.5700	215748.46	5.5930	167839.28	0.3131	9087.39
76	CCV	2.8595	76545.00	0.1954	4026.28	4.9308	139810.72	0.9382	28038.34	0.9657	27885.92
77	CCB	-0.0010	20.00	-0.0004	11.43	0.0140	1263.45	0.0004	27.78	0.0002	15.56
78	1706216-1 10X	0.0370	1043.42	0.0002	23.81	0.2431	8128.02	0.0025	110.00	0.0010	47.78
79	1706219-1 10X	5.5897	146196.38	1.2990	27183.48	16.6383	479009.79	1.8333	56037.89	0.3148	9305.31
80	LCV	0.0448	1230.10	0.0088	202.38	0.2145	6981.07	0.0172	535.58	0.0095	286.67
81	CCV	2.8872	74762.58	0.1910	3981.51	4.8807	140027.94	0.9298	27554.12	0.9834	28166.29
82	CCB	-0.0005	33.33	-0.0004	10.95	0.0144	1260.12	0.0001	17.78	0.0004	20.00
83	1706079-1 10X	0.0016	86.67	0.0001	20.95	0.0120	1186.76	-0.0002	8.89	0.3650	10234.83
84	1706079-2 10X	0.0056	183.34	0.0000	17.62	0.0114	1110.09	-0.0002	10.00	6.5306	180324.23
85	1706080-1 10X	18.2716	237545.71	1.7898	13957.08	9.1333	98169.56	3.3871	41815.80	651.5221	7770213.92
86	1706080-2 10X	2.6810	53604.54	0.2001	2334.01	3.4150	54973.73	0.0382	741.30	48.8378	903415.62
87	1706082-1 10X	0.0355	1120.12	0.0012	40.95	0.0465	2063.57	0.0007	35.55	0.4895	14324.92
88	1706083-1 10X	0.0038	153.34	0.0003	23.33	0.0337	1596.83	0.0004	26.67	1.5703	43451.00
89	1706175-1 10X	-0.0012	16.67	0.0008	34.29	0.0212	1400.14	0.0002	21.11	0.6325	18356.12
90	1706175-2 10X	0.0012	80.01	0.0007	34.29	0.0184	1370.14	0.0005	31.11	0.6042	17729.80
91	1706176-1 10X	0.0042	160.01	-0.0006	6.19	0.0221	1483.47	0.0005	30.00	0.7555	22028.91
92	1706177-1 10X	-0.0004	36.67	-0.0003	13.81	0.0179	1350.14	0.0002	21.11	0.1935	5618.96
93	CCV	2.9651	78430.76	0.1942	4088.20	4.9047	142158.82	0.9147	27851.30	0.9831	28923.38

Batch Summary Report

Analyte Table

	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94 CCB	-0.0005	33.33	-0.0007	6.19	0.0157	1330.12	0.0002	22.22	0.0011	41.11

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	51155302.57		2947149.33	100.0	215689.96	100.0	1470798.63	100.0	96872.63	100.0
2	blank	50362187.58		2896510.37	100.0	214425.59	100.0	1449228.00	100.0	97582.65	100.0
3	blank	1.31462E+08		7376853.33	100.0	689352.67	100.0	3604146.77	100.0	310362.05	100.0
4	blank	50544302.58		2921077.14	100.0	215152.32	100.0	1450716.12	100.0	99084.95	100.0
5	H/1000	50755734.24		2909079.85	99.6	213139.22	99.1	1452296.49	100.1	95346.07	96.2
6	H/100	50064350.92		2858152.67	97.8	215818.04	100.3	1391658.57	95.9	96553.85	97.4
7	H/10	50958792.57		2837529.54	97.1	212257.88	98.7	1391268.10	95.9	96332.21	97.2
8	HIGH	51023595.91		2829641.42	96.9	207785.85	96.6	1423173.88	98.1	95966.73	96.9
9	ICV	51458135.90		2891618.60	99.0	209417.43	97.3	1430774.41	98.6	95570.55	96.5
10	ICB	50471347.58		2870418.92	98.3	211143.82	98.1	1432313.73	98.7	95148.41	96.0
11	LIV	50406757.58		2855616.00	97.8	210213.35	97.7	1418679.77	97.8	94960.96	95.8
12	ICSA	49400830.93		2798844.34	95.8	207058.43	96.2	1412929.67	97.4	96013.65	96.9
13	ICSAB	50644339.25		2871581.42	98.3	208811.01	97.1	1422706.07	98.1	96030.19	96.9
14	CCV	50833975.91		2889052.77	98.9	212865.28	98.9	1377295.40	94.9	97136.85	98.0
15	CCB	50620612.58		2914724.23	99.8	209394.96	97.3	1429351.59	98.5	96604.09	97.5
16	1706270-1 100X	50705004.24		2915364.43	99.8	211570.85	98.3	1382493.63	95.3	94914.16	95.8
17	1706270-2 100X	51087237.57		2891349.65	99.0	208155.66	96.7	1399860.81	96.5	96781.00	97.7
18	1706270-3 100X	50444769.25		2846237.87	97.4	210214.48	97.7	1380743.42	95.2	93519.49	94.4
19	1706275-2 100X	50370814.25		2831576.93	96.9	206523.81	96.0	1390612.84	95.9	93288.09	94.1
20	1706275-3 100X	50524770.91		2867076.00	98.2	210653.60	97.9	1408363.73	97.1	95548.14	96.4
21	1706149-1	51001410.91		2793619.54	95.6	214361.35	99.6	1355493.05	93.4	97131.59	98.0
22	1706275-1 100X	51371344.23		2974623.71	101.8	213317.23	99.1	1477553.36	101.8	94568.18	95.4
23	ZZZ	50123774.25		2871151.62	98.3	218419.63	101.5	1517606.75	104.6	101768.51	102.7
24	LCV	51301499.23		2924723.08	100.1	215254.20	100.0	1457806.65	100.5	97529.60	98.4
25	CCV	51201660.90		2932894.02	100.4	214219.70	99.6	1392495.09	96.0	96332.42	97.2
26	CCB	46944740.97		2689688.50	92.1	198366.70	92.2	1329036.91	91.6	90451.79	91.3
27	1706149-1 10X	50878475.91		2912774.23	99.7	216433.11	100.6	1426775.91	98.3	98995.32	99.9
28	1705185-1 1000X	51039234.24		2907320.48	99.5	216112.12	100.4	1421338.26	98.0	98431.56	99.3
29	1705185-1 10X	47155137.63		2546055.80	87.2	194012.04	90.2	1280315.99	88.3	94504.79	95.4
30	1705185-3 10X	49047574.27		2621944.96	89.8	198624.63	92.3	1311180.68	90.4	94723.33	95.6
31	1705193-1 10X	51208877.57		2719592.25	93.1	203921.90	94.8	1375373.21	94.8	96208.21	97.1

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	1705193-2 10X	51777920.89		2735777.56	93.7	205040.82	95.3	1394963.10	96.2	99091.93	100.0
33	1705271-1 10X	40213708.57		2016424.40	69.0	161568.71	75.1	988200.61	68.1	76212.53	76.9
34	1705271-2 10X	62505809.07		3235642.45	110.8	239997.10	111.5	1738179.51	119.8	119639.16	120.7
35	1705286-1 10X	59210112.45		3072715.47	105.2	228208.09	106.1	1574714.56	108.5	108062.71	109.1
36	1705283-3 10X	58544134.13		3016857.56	103.3	225669.12	104.9	1592143.73	109.7	109491.79	110.5
37	ZZZ	51454404.23		2923393.70	100.1	216362.61	100.6	1501179.30	103.5	99772.27	100.7
38	ZZZ	51195495.90		2900155.90	99.3	214581.85	99.7	1504812.63	103.7	98116.50	99.0
39	LCV	51529547.57		2899633.18	99.3	212171.90	98.6	1454346.59	100.3	97657.80	98.6
40	CCV	51090789.24		2897786.00	99.2	213111.92	99.1	1416817.11	97.7	96355.76	97.2
41	CCB	50893735.91		2912568.92	99.7	213923.33	99.4	1448734.93	99.9	97673.59	98.6
42	IP170614-2MB ...	50758929.25		2883320.58	98.7	212718.86	98.9	1429570.34	98.5	96117.34	97.0
43	IM170614-2LCS...	51531917.57		2909925.27	99.6	211945.95	98.5	1412431.23	97.4	99205.54	100.1
44	1705328-1 10X	52137910.89		3026763.18	103.6	225559.01	104.8	1452097.22	100.1	97753.57	98.7
45	1705328-1L 50X	51107534.24		2908160.89	99.6	216822.38	100.8	1432163.10	98.7	97321.46	98.2
46	1705328-1DUP ...	51373062.57		2958628.60	101.3	224568.19	104.4	1421355.60	98.0	98401.08	99.3
47	1705328-1MS 10X	51827832.56		3010328.08	103.1	226501.58	105.3	1441092.32	99.3	99082.57	100.0
48	1705328-1MSD ...	52211290.89		3014814.33	103.2	227969.96	106.0	1458859.46	100.6	99236.53	100.2
49	1705328-1A 10X	50826777.58		2919894.64	100.0	219565.19	102.1	1435162.69	98.9	97542.79	98.4
50	1705328-2 10X	51676747.56		3014394.43	103.2	224237.48	104.2	1461443.05	100.7	100256.15	101.2
51	1705328-3 10X	50317165.92		2953296.52	101.1	217748.51	101.2	1382011.39	95.3	96335.39	97.2
52	CCV	49339522.60		2788376.21	95.5	207546.83	96.5	1372727.84	94.6	94374.17	95.2
53	CCB	50606025.91		2924595.58	100.1	216817.95	100.8	1435033.94	98.9	96986.10	97.9
54	1705328-4 10X	50841377.57		2932693.70	100.4	218765.95	101.7	1390023.31	95.8	95476.71	96.4
55	1705328-5 10X	50522172.58		2938245.27	100.6	217392.84	101.0	1396708.99	96.3	96889.70	97.8
56	1705328-6 10X	51542679.23		3051477.14	104.5	225083.52	104.6	1451758.47	100.1	100226.41	101.2
57	1705328-7 10X	50094767.59		2901113.81	99.3	219818.02	102.2	1381611.44	95.2	97150.71	98.0
58	1705328-8 10X	52617302.55		3029880.37	103.7	227080.57	105.5	1462196.44	100.8	100192.56	101.1
59	1705328-9 10X	52003009.22		3048779.23	104.4	229740.06	106.8	1443422.11	99.5	100778.93	101.7
60	1705577-1 10X	51888560.90		2918721.73	99.9	219477.62	102.0	1447778.89	99.8	97921.74	98.8
61	1705577-1L 50X	51569897.56		2961135.69	101.4	217816.62	101.2	1454487.22	100.3	99431.44	100.3
62	1705577-1DUP ...	52626147.55		2978606.83	102.0	220357.99	102.4	1430297.27	98.6	98702.94	99.6

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1705577-1MS 10X	51743464.23		2949803.19	101.0	218479.66	101.5	1435238.73	98.9	98857.81	99.8
64	CCV	49743177.59		2855352.35	97.7	207393.45	96.4	1392020.13	96.0	95718.78	96.6
65	CCB	47808459.29		2758052.35	94.4	206181.50	95.8	1341766.28	92.5	93325.00	94.2
66	1705577-1MSD ...	52185075.89		2964981.63	101.5	220319.04	102.4	1429193.31	98.5	99336.30	100.3
67	1705577-1A 10X	49735904.26		2852742.66	97.7	212279.43	98.7	1419390.71	97.8	97418.59	98.3
68	1705610-1 10X	51502009.23		3006501.52	102.9	224630.14	104.4	1431539.09	98.7	97676.96	98.6
69	1705610-2 10X	50594660.91		2916517.56	99.8	221170.35	102.8	1373213.52	94.7	98559.34	99.5
70	1705610-3 10X	51011590.91		2905780.69	99.5	217023.68	100.9	1393057.01	96.0	94217.06	95.1
71	1705610-4 10X	51117430.90		2991816.20	102.4	223253.39	103.8	1407658.83	97.0	98864.62	99.8
72	1705610-6 10X	51076040.91		2979183.39	102.0	220953.68	102.7	1428336.49	98.5	97559.93	98.5
73	1706119-1 10X	51112487.57		2960725.27	101.4	223165.77	103.7	1425962.69	98.3	96603.05	97.5
74	1706119-2 10X	51840567.56		3043188.08	104.2	225083.54	104.6	1442497.22	99.4	99403.60	100.3
75	1706210-2 10X	51910114.23		3146792.24	107.7	232625.50	108.1	1449177.43	99.9	100265.85	101.2
76	CCV	51445125.90		2899037.04	99.2	211838.48	98.5	1419514.20	97.8	97808.00	98.7
77	CCB	50859457.58		2904867.14	99.4	213791.20	99.4	1451161.85	100.0	96329.31	97.2
78	1706216-1 10X	51564964.23		2926423.71	100.2	220153.66	102.3	1426346.65	98.3	96751.85	97.6
79	1706219-1 10X	51146212.57		2957109.12	101.2	220473.54	102.5	1432524.04	98.7	97876.50	98.8
80	LCV	50285527.58		2894423.39	99.1	211935.14	98.5	1388336.54	95.7	94528.91	95.4
81	CCV	50087015.92		2821167.67	96.6	210404.38	97.8	1355328.10	93.4	94357.89	95.2
82	CCB	49145774.27		2829353.29	96.9	209271.48	97.3	1387199.04	95.6	95518.39	96.4
83	1706079-1 10X	49803920.92		2801741.94	95.9	207690.92	96.5	1388007.90	95.7	94873.27	95.7
84	1706079-2 10X	49649502.59		2772082.25	94.9	205648.97	95.6	1355689.83	93.4	94116.80	95.0
85	1706080-1 10X	32643587.02		1741286.85	59.6	158535.80	73.7	775536.32	53.5	63857.10	64.4
86	1706080-2 10X	51778869.23		2520432.31	86.3	204649.18	95.1	1176130.40	81.1	92142.44	93.0
87	1706082-1 10X	66699877.34		3574750.26	122.4	266657.89	123.9	1728905.08	119.2	122695.13	123.8
88	1706083-1 10X	59152489.12		3149138.60	107.8	239247.31	111.2	1580143.21	108.9	109068.90	110.1
89	1706175-1 10X	60968247.42		3258474.95	111.6	245893.60	114.3	1662285.50	114.6	112311.01	113.3
90	1706175-2 10X	54840484.18		3083891.93	105.6	224398.66	104.3	1555931.28	107.3	101326.08	102.3
91	1706176-1 10X	52576457.55		3000720.69	102.7	219943.77	102.2	1487018.26	102.5	99980.88	100.9
92	1706177-1 10X	51977130.89		2949607.46	101.0	215309.29	100.1	1472916.33	101.5	99085.93	100.0
93	CCV	50140549.25		2902467.04	99.4	213356.03	99.2	1437480.24	99.1	95400.14	96.3

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	50367977.58		2875794.75	98.4	210932.04	98.0	1450369.46	100.0	95444.04	96.3

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	8591681.96	100.0	2216668.61	100.0	8853797.36	100.0	1384616.22	100.0	1917163.20	100.0
2	blank	8561918.41	100.0	2210611.63	100.0	8710454.24	100.0	1382619.85	100.0	1917865.86	100.0
3	blank	21805693.43	100.0	7007097.81	100.0	22957304.09	100.0	4438276.31	100.0	4842758.26	100.0
4	blank	8463591.13	100.0	2223736.32	100.0	8731281.31	100.0	1377288.34	100.0	1877530.75	100.0
5	H/1000	8520370.71	100.7	2210852.36	99.4	8714566.18	99.8	1365777.77	99.2	1902986.01	101.4
6	H/100	8327625.92	98.4	2226298.72	100.1	8558219.12	98.0	1377071.22	100.0	1865956.07	99.4
7	H/10	8271724.04	97.7	2166661.69	97.4	8566313.02	98.1	1367570.53	99.3	1837129.40	97.8
8	HIGH	7860784.05	92.9	2008168.30	90.3	8265853.43	94.7	1297297.97	94.2	1806563.93	96.2
9	ICV	8260857.38	97.6	2152348.67	96.8	8577220.52	98.2	1352845.54	98.2	1894957.21	100.9
10	ICB	8413842.58	99.4	2168805.44	97.5	8588883.21	98.4	1355591.18	98.4	1902656.22	101.3
11	LIV	8516211.96	100.6	2168806.11	97.5	8530377.85	97.7	1343996.31	97.6	1889513.93	100.6
12	ICSA	7835945.93	92.6	2071360.60	93.1	8306293.12	95.1	1309741.02	95.1	1801626.27	96.0
13	ICSAB	7923601.97	93.6	2072793.61	93.2	8380628.81	96.0	1321301.06	95.9	1768976.22	94.2
14	CCV	8310085.71	98.2	2150128.04	96.7	8609643.20	98.6	1362663.32	98.9	1885079.40	100.4
15	CCB	8489820.29	100.3	2197829.45	98.8	8642260.82	99.0	1368508.13	99.4	1903720.75	101.4
16	1706270-1 100X	8362915.92	98.8	2127417.57	95.7	8582388.62	98.3	1355404.03	98.4	1845508.25	98.3
17	1706270-2 100X	8371914.04	98.9	2169194.40	97.5	8669210.77	99.3	1335511.53	97.0	1859405.18	99.0
18	1706270-3 100X	8298938.63	98.1	2157595.38	97.0	8607341.54	98.6	1348447.58	97.9	1870500.34	99.6
19	1706275-2 100X	8203746.13	96.9	2127039.45	95.7	8635810.87	98.9	1343802.10	97.6	1861075.81	99.1
20	1706275-3 100X	8310554.04	98.2	2141801.79	96.3	8572558.68	98.2	1340477.29	97.3	1861771.22	99.2
21	1706149-1	7841601.13	92.7	2065611.53	92.9	8441292.39	96.7	1358151.94	98.6	1815994.66	96.7
22	1706275-1 100X	8416035.08	99.4	2199175.02	98.9	8609751.07	98.6	1362074.08	98.9	1891693.72	100.8
23	ZZZ	8321674.04	98.3	2237545.33	100.6	8523340.66	97.6	1379787.88	100.2	1862240.07	99.2
24	LCV	8599096.96	101.6	2210776.68	99.4	8839595.77	101.2	1364279.79	99.1	1938190.13	103.2
25	CCV	8396404.25	99.2	2181417.73	98.1	8698100.81	99.6	1383759.47	100.5	1837151.33	97.8
26	CCB	7887286.97	93.2	2052560.07	92.3	8134089.74	93.2	1269675.78	92.2	1777515.96	94.7
27	1706149-1 10X	8250601.55	97.5	2185781.16	98.3	8735246.45	100.0	1388198.95	100.8	1883550.60	100.3
28	1705185-1 1000X	8447533.62	99.8	2214545.49	99.6	8759200.65	100.3	1385525.77	100.6	1879585.75	100.1
29	1705185-1 10X	6937986.35	82.0	1852470.60	83.3	7360767.42	84.3	1208834.12	87.8	1482513.05	79.0
30	1705185-3 10X	7126266.35	84.2	1854306.43	83.4	7563709.60	86.6	1220119.72	88.6	1499955.66	79.9
31	1705193-1 10X	7411060.31	87.6	1935634.08	87.0	7816968.72	89.5	1276777.25	92.7	1590286.59	84.7

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	1705193-2 10X	7482459.05	88.4	1940172.84	87.2	8027134.53	91.9	1277658.14	92.8	1603320.50	85.4
33	1705271-1 10X	5060015.86	59.8	1320887.01	59.4	5365264.52	61.4	928609.79	67.4	930946.86	49.6
34	1705271-2 10X	8715718.41	103.0	2174628.30	97.8	9090492.01	104.1	1437507.39	104.4	1763905.91	93.9
35	1705286-1 10X	8251029.88	97.5	2091755.13	94.1	8640745.11	99.0	1367596.76	99.3	1679962.63	89.5
36	1705283-3 10X	8102447.38	95.7	2066631.53	92.9	8428448.28	96.5	1351202.92	98.1	1657039.20	88.3
37	ZZZ	8652332.37	102.2	2207649.97	99.3	8748618.98	100.2	1374253.40	99.8	1891877.68	100.8
38	ZZZ	8498451.75	100.4	2217536.79	99.7	8710112.75	99.8	1369135.62	99.4	1894340.33	100.9
39	LCV	8586428.83	101.5	2208013.82	99.3	8632253.60	98.9	1363630.34	99.0	1911302.63	101.8
40	CCV	8352473.42	98.7	2136941.53	96.1	8646943.44	99.0	1359641.82	98.7	1881451.64	100.2
41	CCB	8532262.79	100.8	2184415.64	98.2	8959148.06	102.6	1372470.57	99.7	1901143.67	101.3
42	IP170614-2MB ...	8450840.92	99.8	2175838.30	97.8	8573627.54	98.2	1367414.82	99.3	1902893.04	101.4
43	IM170614-2LCS...	8515655.29	100.6	2196363.25	98.8	8825902.95	101.1	1372126.64	99.6	1905873.52	101.5
44	1705328-1 10X	8683560.70	102.6	2195304.13	98.7	8866192.34	101.5	1399434.32	101.6	1934073.56	103.0
45	1705328-1L 50X	8430734.04	99.6	2202872.93	99.1	8727975.29	100.0	1382329.40	100.4	1934176.17	103.0
46	1705328-1DUP ...	8552498.00	101.1	2199468.56	98.9	8669776.46	99.3	1379033.95	100.1	1904447.26	101.4
47	1705328-1MS 10X	8512794.46	100.6	2218792.67	99.8	8780007.65	100.6	1379171.48	100.1	1904127.42	101.4
48	1705328-1MSD ...	8506183.00	100.5	2191544.66	98.6	8829355.40	101.1	1383947.16	100.5	1923233.15	102.4
49	1705328-1A 10X	8254412.59	97.5	2127184.60	95.7	8709426.22	99.7	1343460.19	97.5	1888512.36	100.6
50	1705328-2 10X	8543153.00	100.9	2195945.43	98.8	8781825.65	100.6	1384831.49	100.5	1925235.44	102.5
51	1705328-3 10X	8307070.09	98.2	2138250.38	96.2	8542677.33	97.8	1350213.12	98.0	1881187.89	100.2
52	CCV	8077141.13	95.4	2104583.82	94.6	8419845.09	96.4	1324822.82	96.2	1857622.68	98.9
53	CCB	8452833.00	99.9	2199153.46	98.9	8758899.60	100.3	1380122.89	100.2	1947183.20	103.7
54	1705328-4 10X	8364844.87	98.8	2121443.35	95.4	8560553.49	98.0	1346455.82	97.8	1875244.87	99.9
55	1705328-5 10X	8442246.12	99.7	2139148.20	96.2	8527094.77	97.7	1356608.95	98.5	1873445.39	99.8
56	1705328-6 10X	8617410.29	101.8	2190978.35	98.5	8738539.25	100.1	1382914.82	100.4	1919021.22	102.2
57	1705328-7 10X	8266704.46	97.7	2128313.98	95.7	8566315.85	98.1	1341715.72	97.4	1859803.05	99.1
58	1705328-8 10X	8620915.08	101.9	2208365.59	99.3	8859739.06	101.5	1392761.18	101.1	1948467.53	103.8
59	1705328-9 10X	8584618.62	101.4	2215838.56	99.6	8875984.41	101.7	1397730.44	101.5	1941990.60	103.4
60	1705577-1 10X	8541469.25	100.9	2191221.74	98.5	8756913.71	100.3	1380401.28	100.2	1915089.45	102.0
61	1705577-1L 50X	8591637.79	101.5	2205360.28	99.2	8761315.99	100.3	1377557.10	100.0	1905883.36	101.5
62	1705577-1DUP ...	8509007.17	100.5	2227969.81	100.2	8687719.40	99.5	1392692.70	101.1	1933521.33	103.0

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1705577-1MS 10X	8466023.21	100.0	2197301.84	98.8	8638382.51	98.9	1380494.96	100.2	1913708.41	101.9
64	CCV	8233224.46	97.3	2097589.24	94.3	8520624.46	97.6	1334955.45	96.9	1887039.82	100.5
65	CCB	8044224.26	95.0	2088976.58	93.9	8346873.96	95.6	1309628.39	95.1	1826716.32	97.3
66	1705577-1MSD ...	8478983.21	100.2	2202889.55	99.1	8800242.58	100.8	1379540.63	100.2	1939141.64	103.3
67	1705577-1A 10X	8232358.42	97.3	2132829.92	95.9	8416586.28	96.4	1339993.40	97.3	1867715.03	99.5
68	1705610-1 10X	8410479.88	99.4	2147970.54	96.6	8828616.55	101.1	1367184.43	99.3	1894375.86	100.9
69	1705610-2 10X	8165134.04	96.5	2107003.82	94.8	8513263.34	97.5	1356621.52	98.5	1865865.23	99.4
70	1705610-3 10X	8156537.38	96.4	2118696.69	95.3	8592847.43	98.4	1354598.37	98.4	1845277.89	98.3
71	1705610-4 10X	8368624.87	98.9	2155088.82	96.9	8572626.48	98.2	1355545.41	98.4	1895679.97	101.0
72	1705610-6 10X	8410510.29	99.4	2173798.93	97.8	8675590.49	99.4	1358756.08	98.7	1911093.31	101.8
73	1706119-1 10X	8489318.00	100.3	2160142.31	97.1	8783235.81	100.6	1357147.75	98.5	1899733.10	101.2
74	1706119-2 10X	8454577.37	99.9	2148259.97	96.6	8798581.25	100.8	1370235.86	99.5	1877816.32	100.0
75	1706210-2 10X	8438204.87	99.7	2146042.89	96.5	8743991.78	100.1	1349469.47	98.0	1890044.71	100.7
76	CCV	8522676.75	100.7	2156090.75	97.0	8768842.82	100.4	1362196.58	98.9	1935878.72	103.1
77	CCB	8517590.50	100.6	2188014.03	98.4	8699068.11	99.6	1366174.83	99.2	1899036.33	101.1
78	1706216-1 10X	8648833.83	102.2	2210618.77	99.4	8833585.16	101.2	1396619.54	101.4	2580297.41	137.4
79	1706219-1 10X	8393645.08	99.2	2182612.52	98.2	8570754.19	98.2	1358067.80	98.6	1978828.88	105.4
80	LCV	8417809.66	99.5	2170559.29	97.6	8661007.74	99.2	1342081.35	97.4	1910871.59	101.8
81	CCV	8172925.30	96.6	2129754.24	95.8	8481955.26	97.1	1342305.03	97.5	1875024.24	99.9
82	CCB	8241468.42	97.4	2125267.16	95.6	8509402.44	97.5	1331968.22	96.7	1892484.50	100.8
83	1706079-1 10X	8073416.13	95.4	2085488.25	93.8	8399548.89	96.2	1323688.07	96.1	1830067.84	97.5
84	1706079-2 10X	7884160.92	93.2	2042642.68	91.9	8168331.70	93.6	1279973.11	92.9	1832891.54	97.6
85	1706080-1 10X	3940069.52	46.6	1073688.84	48.3	4261227.81	48.8	767195.14	55.7	692744.05	36.9
86	1706080-2 10X	6238019.28	73.7	1617585.13	72.7	6549550.34	75.0	1129669.28	82.0	1081101.39	57.6
87	1706082-1 10X	9592906.73	113.3	2428636.47	109.2	9951129.92	114.0	1574725.29	114.3	1888101.12	100.6
88	1706083-1 10X	8841418.41	104.5	2194964.81	98.7	9015348.15	103.3	1414896.63	102.7	1844451.43	98.2
89	1706175-1 10X	9178150.07	108.4	2338388.77	105.2	9262243.07	106.1	1459310.96	106.0	1913624.09	101.9
90	1706175-2 10X	8752380.08	103.4	2205329.50	99.2	8969154.03	102.7	1391596.47	101.0	1942913.77	103.5
91	1706176-1 10X	8632718.41	102.0	2186355.75	98.3	8872574.98	101.6	1376971.64	100.0	1928159.92	102.7
92	1706177-1 10X	8520676.54	100.7	2183158.87	98.2	8684827.65	99.5	1343200.21	97.5	1918843.15	102.2
93	CCV	8356897.17	98.7	2181137.16	98.1	8666729.91	99.3	1361160.50	98.8	1961516.80	104.5

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	8528081.96	100.8	2206410.75	99.2	8867562.21	101.6	1360111.53	98.8	1953073.10	104.0

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	350649.58	100.0	6389493.24	100.0	1829698.10	100.0
2	blank	347476.37	100.0	6272265.74	100.0	1822812.89	100.0
3	blank	1146890.45	100.0	16962907.87	100.0	6075786.58	100.0
4	blank	348392.38	100.0	6237409.28	100.0	1829284.66	100.0
5	H/1000	349243.58	100.2	6205903.24	99.5	1804547.53	98.6
6	H/100	348684.70	100.1	6000234.70	96.2	1820637.99	99.5
7	H/10	342570.80	98.3	6096632.62	97.7	1817675.39	99.4
8	HIGH	330865.76	95.0	5805351.37	93.1	1686602.84	92.2
9	ICV	345601.66	99.2	6104396.37	97.9	1796182.68	98.2
10	ICB	342765.44	98.4	6237689.07	100.0	1832087.21	100.2
11	LIV	342881.66	98.4	6160566.78	98.8	1826155.03	99.8
12	ICSA	327579.10	94.0	5892477.20	94.5	1746227.27	95.5
13	ICSAB	327386.86	94.0	5854100.95	93.9	1702845.86	93.1
14	CCV	347317.09	99.7	6166420.12	98.9	1811374.61	99.0
15	CCB	346613.95	99.5	6245799.28	100.1	1820096.79	99.5
16	1706270-1 100X	342916.26	98.4	6030803.66	96.7	1798970.65	98.3
17	1706270-2 100X	342580.65	98.3	5974256.79	95.8	1748155.29	95.6
18	1706270-3 100X	342012.04	98.2	6110529.28	98.0	1784572.47	97.6
19	1706275-2 100X	339775.57	97.5	6099077.20	97.8	1788344.19	97.8
20	1706275-3 100X	339517.72	97.5	5923784.08	95.0	1754069.71	95.9
21	1706149-1	328767.61	94.4	5780888.66	92.7	1699717.06	92.9
22	1706275-1 100X	344723.38	98.9	6170736.78	98.9	1795315.65	98.1
23	ZZZ	343515.82	98.6	6259370.32	100.4	1818610.70	99.4
24	LCV	347741.84	99.8	6386124.07	102.4	1796961.38	98.2
25	CCV	344873.69	99.0	6229556.99	99.9	1794435.08	98.1
26	CCB	322437.38	92.6	5896579.29	94.5	1702232.21	93.1
27	1706149-1 10X	340873.52	97.8	6284511.58	100.8	1828544.61	100.0
28	1705185-1 1000X	346820.01	99.5	6186412.41	99.2	1816585.24	99.3
29	1705185-1 10X	285262.81	81.9	4978759.51	79.8	1418104.72	77.5
30	1705185-3 10X	286167.43	82.1	4935058.99	79.1	1389639.35	76.0
31	1705193-1 10X	294525.87	84.5	5150121.17	82.6	1453148.10	79.4

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	1705193-2 10X	301153.31	86.4	5197279.61	83.3	1469553.57	80.3
33	1705271-1 10X	182498.12	52.4	3094896.31	49.6	864209.96	47.2
34	1705271-2 10X	320418.66	92.0	5679875.33	91.1	1575999.87	86.2
35	1705286-1 10X	309490.59	88.8	5369181.38	86.1	1512723.89	82.7
36	1705283-3 10X	308751.01	88.6	5216902.95	83.6	1469590.81	80.3
37	ZZZ	342163.47	98.2	6285293.45	100.8	1835243.98	100.3
38	ZZZ	340332.43	97.7	6324126.78	101.4	1819556.90	99.5
39	LCV	343436.84	98.6	6235281.36	100.0	1820502.63	99.5
40	CCV	344985.44	99.0	6203110.95	99.5	1803782.53	98.6
41	CCB	345836.75	99.3	6274485.74	100.6	1840532.83	100.6
42	IP170614-2MB ...	343004.07	98.5	6290870.74	100.9	1835331.01	100.3
43	IM170614-2LCS...	346316.69	99.4	6284682.20	100.8	1817559.82	99.4
44	1705328-1 10X	349567.47	100.3	6440941.15	103.3	1848307.06	101.0
45	1705328-1L 50X	344969.85	99.0	6327970.12	101.5	1842498.67	100.7
46	1705328-1DUP ...	346736.44	99.5	6242919.28	100.1	1860351.64	101.7
47	1705328-1MS 10X	346999.43	99.6	6187782.62	99.2	1839939.14	100.6
48	1705328-1MSD ...	345015.29	99.0	6255660.95	100.3	1834050.02	100.3
49	1705328-1A 10X	339010.50	97.3	6190922.41	99.3	1790856.43	97.9
50	1705328-2 10X	346873.89	99.6	6369330.74	102.1	1875954.24	102.6
51	1705328-3 10X	337118.15	96.8	6126128.03	98.2	1783405.91	97.5
52	CCV	334010.72	95.9	6094352.20	97.7	1760980.13	96.3
53	CCB	344539.07	98.9	6335848.66	101.6	1835803.26	100.4
54	1705328-4 10X	334854.79	96.1	6126447.20	98.2	1779068.41	97.3
55	1705328-5 10X	336801.02	96.7	6202836.37	99.4	1816009.51	99.3
56	1705328-6 10X	344058.98	98.8	6365333.86	102.1	1836006.85	100.4
57	1705328-7 10X	334169.41	95.9	6094841.79	97.7	1771306.12	96.8
58	1705328-8 10X	349022.73	100.2	6408086.57	102.7	1855650.49	101.4
59	1705328-9 10X	351782.07	101.0	6396744.49	102.6	1848087.05	101.0
60	1705577-1 10X	344614.02	98.9	6180663.66	99.1	1797389.51	98.3
61	1705577-1L 50X	344083.09	98.8	6208551.99	99.5	1807364.45	98.8
62	1705577-1DUP ...	345758.71	99.2	6201824.07	99.4	1839329.71	100.5

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	1705577-1MS 10X	345976.82	99.3	6207274.49	99.5	1820897.52	99.5
64	CCV	335505.59	96.3	6096566.99	97.7	1745214.66	95.4
65	CCB	327367.10	94.0	6003289.70	96.2	1708100.44	93.4
66	1705577-1MSD ...	347796.99	99.8	6280051.99	100.7	1811338.20	99.0
67	1705577-1A 10X	337088.72	96.8	6033483.45	96.7	1757965.76	96.1
68	1705610-1 10X	342373.63	98.3	6281647.82	100.7	1812866.48	99.1
69	1705610-2 10X	336609.50	96.6	6114752.82	98.0	1777900.49	97.2
70	1705610-3 10X	338475.19	97.2	6100667.62	97.8	1770825.39	96.8
71	1705610-4 10X	341614.63	98.1	6284037.20	100.7	1808859.87	98.9
72	1705610-6 10X	341160.66	97.9	6216238.03	99.7	1816007.16	99.3
73	1706119-1 10X	340646.50	97.8	6278262.20	100.7	1813027.37	99.1
74	1706119-2 10X	340930.98	97.9	6242413.24	100.1	1800199.61	98.4
75	1706210-2 10X	340759.30	97.8	6198916.16	99.4	1785715.18	97.6
76	CCV	339083.11	97.3	6268191.57	100.5	1772763.25	96.9
77	CCB	339915.65	97.6	6321560.74	101.3	1789394.87	97.8
78	1706216-1 10X	420599.02	120.7	6364880.95	102.0	1869898.41	102.2
79	1706219-1 10X	346953.03	99.6	6165494.91	98.8	1808325.70	98.9
80	LCV	342857.72	98.4	6289741.16	100.8	1793088.41	98.0
81	CCV	336365.63	96.5	6143641.78	98.5	1793664.71	98.1
82	CCB	336199.81	96.5	6209839.91	99.6	1767356.54	96.6
83	1706079-1 10X	329172.01	94.5	6116452.62	98.1	1760817.84	96.3
84	1706079-2 10X	324330.64	93.1	5816741.99	93.3	1664055.08	91.0
85	1706080-1 10X	140053.18	40.2	2369634.70	38.0	674055.12	36.8
86	1706080-2 10X	217290.90	62.4	3489314.22	55.9	1003781.84	54.9
87	1706082-1 10X	343464.99	98.6	5853396.58	93.8	1691637.11	92.5
88	1706083-1 10X	325012.10	93.3	5690865.75	91.2	1562925.39	85.4
89	1706175-1 10X	340758.92	97.8	6077817.20	97.4	1703590.44	93.1
90	1706175-2 10X	344616.87	98.9	6309596.57	101.2	1760850.91	96.3
91	1706176-1 10X	342407.59	98.3	6293350.11	100.9	1776767.11	97.1
92	1706177-1 10X	340668.99	97.8	6310643.03	101.2	1760363.67	96.2
93	CCV	345501.03	99.2	6382764.49	102.3	1811939.71	99.1

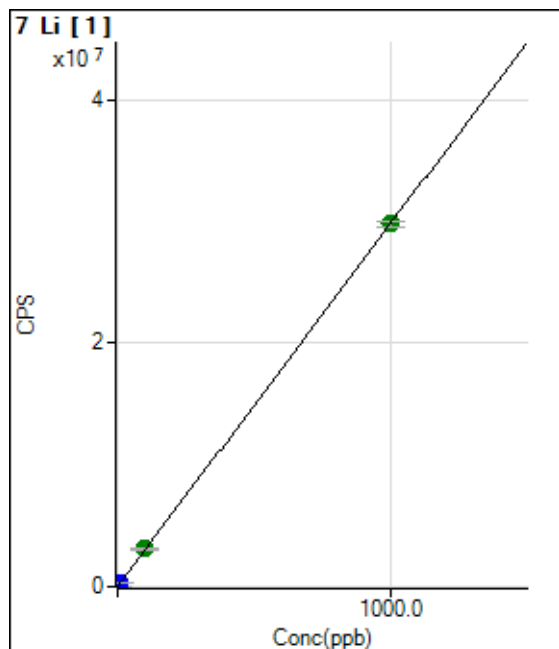
Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	344046.80	98.8	6494793.44	104.1	1817671.07	99.4

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Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:
Tune Step: #1 nogas.u
#2 hehe.u

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.D	blank	6/15/2017 17:27:53
2	005CALS.D	H/1000	6/15/2017 17:33:48
3	006CALS.D	H/100	6/15/2017 17:36:47
4	007CALS.D	H/10	6/15/2017 17:39:45
5	008CALS.D	HIGH	6/15/2017 17:45:38
6			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2051.48		P	2.3
2	<input type="checkbox"/>	1.0000	1.1270	35617.93		P	0.6
3	<input type="checkbox"/>	10.0000	11.2328	336622.14		P	0.7
4	<input type="checkbox"/>	100.0000	104.1159	3103163.83		A	2.3
5	<input type="checkbox"/>	1000.0000	999.5760	29774610.00		A	1.3
6	<input type="checkbox"/>	200.0000					

$$y = 29785.1888 * x + 2051.4767$$

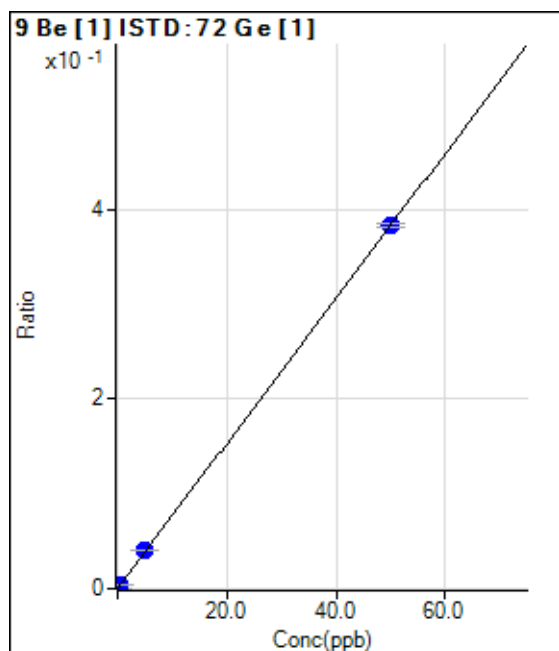
$$R = 1.0000$$

$$DL = 0.004735$$

$$BEC = 0.06888$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	29.33	0.0000	P	41.7
2	<input type="checkbox"/>	0.0500	0.0533	621.35	0.0004	P	2.8
3	<input type="checkbox"/>	0.5000	0.5475	5852.38	0.0042	P	4.4
4	<input type="checkbox"/>	5.0000	5.2147	55538.07	0.0399	P	1.7
5	<input type="checkbox"/>	50.0000	49.9780	544342.92	0.3825	P	0.9
6	<input type="checkbox"/>	10.0000					

$$y = 0.0077 * x + 2.0241E-005$$

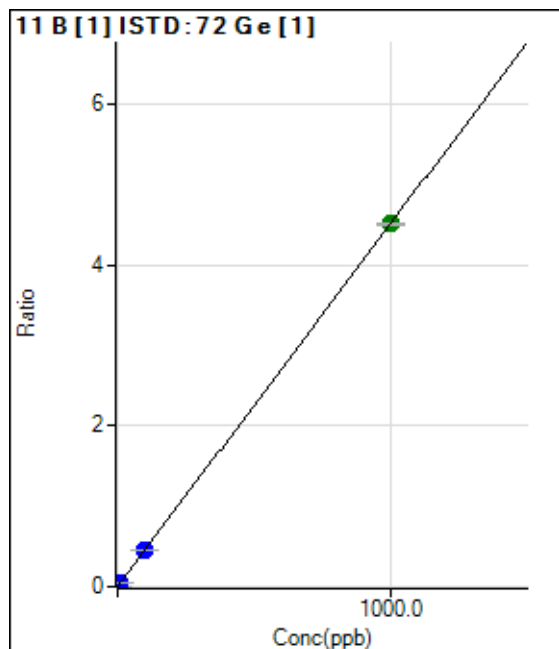
$$R = 1.0000$$

$$DL = 0.003312$$

$$BEC = 0.002645$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2743.60	0.0019	P	0.6
2	<input type="checkbox"/>	1.0000	1.2478	10916.95	0.0075	P	2.3
3	<input type="checkbox"/>	10.0000	10.7169	69802.95	0.0502	P	3.0
4	<input type="checkbox"/>	100.0000	100.5624	633160.01	0.4552	P	1.8
5	<input type="checkbox"/>	1000.0000	999.9363	6416948.91	4.5090	A	0.8
6	<input type="checkbox"/>	200.0000					

$$y = 0.0045 * x + 0.0019$$

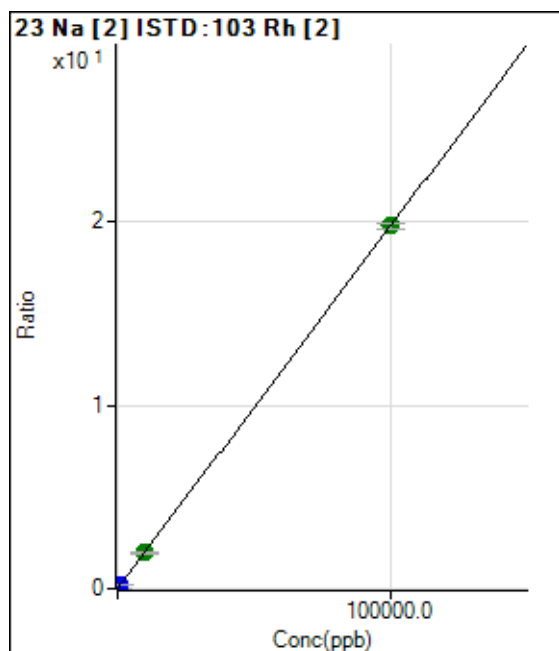
$$R = 1.0000$$

$$DL = 0.007906$$

$$BEC = 0.4196$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	16455.45	0.0074	P	4.7
2	<input type="checkbox"/>	100.0000	100.1974	60099.25	0.0272	P	2.4
3	<input type="checkbox"/>	1000.0000	1011.3673	460833.61	0.2071	P	3.3
4	<input type="checkbox"/>	10000.0000	9790.4485	4204444.21	1.9407	A	2.2
5	<input type="checkbox"/>	100000.0000	100020.8413	39676660.24	19.7583	A	1.4
6	<input type="checkbox"/>	20000.0000					

$$y = 1.9747E-004 * x + 0.0074$$

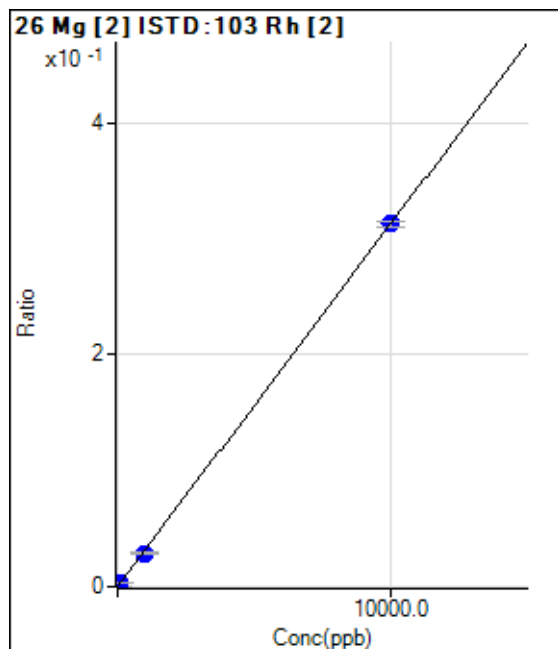
$$R = 1.0000$$

$$DL = 5.238$$

$$BEC = 37.49$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	20.00	0.0000	P	132.9
2	<input type="checkbox"/>	10.0000	9.5618	680.05	0.0003	P	13.7
3	<input type="checkbox"/>	100.0000	93.5053	6528.23	0.0029	P	4.4
4	<input type="checkbox"/>	1000.0000	924.4738	62644.37	0.0289	P	1.6
5	<input type="checkbox"/>	10000.0000	10007.6180	628273.88	0.3129	P	1.4
6	<input type="checkbox"/>	2000.0000					

$$y = 3.1264\text{E-}005 * x + 9.0070\text{E-}006$$

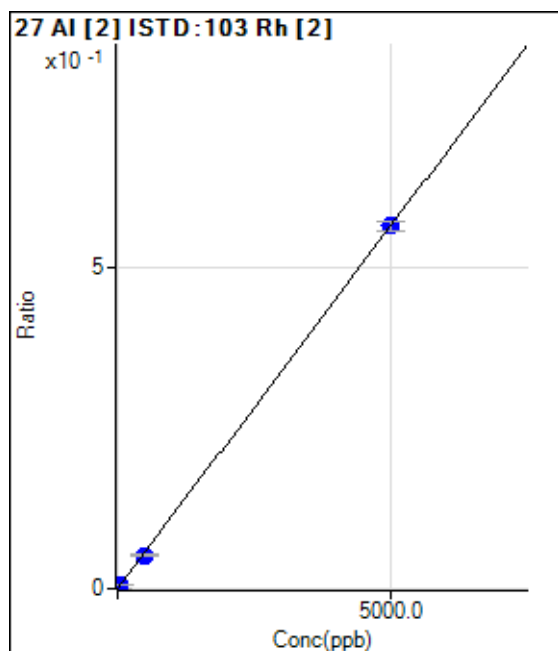
$$R = 1.0000$$

$$DL = 1.148$$

$$BEC = 0.2881$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	56.67	0.0000	P	72.1
2	<input type="checkbox"/>	5.0000	5.5174	1433.48	0.0006	P	7.6
3	<input type="checkbox"/>	50.0000	46.9326	11841.29	0.0053	P	4.1
4	<input type="checkbox"/>	500.0000	461.3964	112828.78	0.0521	P	3.5
5	<input type="checkbox"/>	5000.0000	5003.8905	1133838.76	0.5647	P	2.3
6	<input type="checkbox"/>	1000.0000					

$$y = 1.1284\text{E-}004 * x + 2.5537\text{E-}005$$

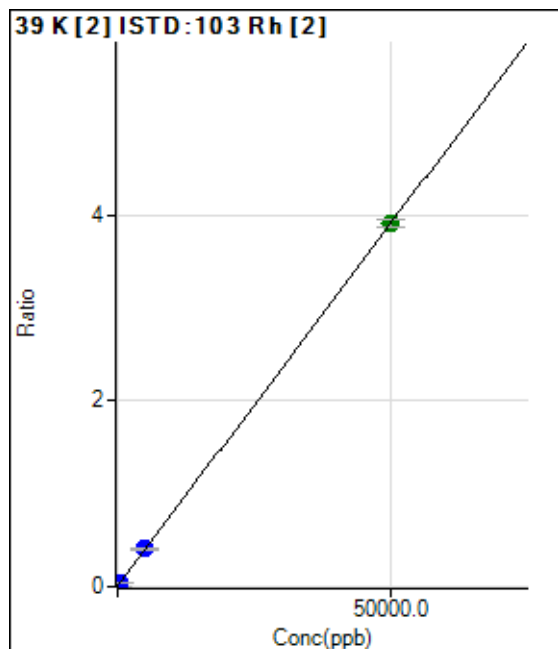
$$R = 1.0000$$

$$DL = 0.4896$$

$$BEC = 0.2263$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	10233.62	0.0046	P	2.4
2	<input type="checkbox"/>	50.0000	51.7840	19095.09	0.0086	P	4.9
3	<input type="checkbox"/>	500.0000	513.0349	99276.10	0.0446	P	2.8
4	<input type="checkbox"/>	5000.0000	5127.5750	876156.94	0.4045	P	2.3
5	<input type="checkbox"/>	50000.0000	49987.1104	7836487.17	3.9029	A	2.2
6	<input type="checkbox"/>	10000.0000					

$$y = 7.7987\text{E-}005 * x + 0.0046$$

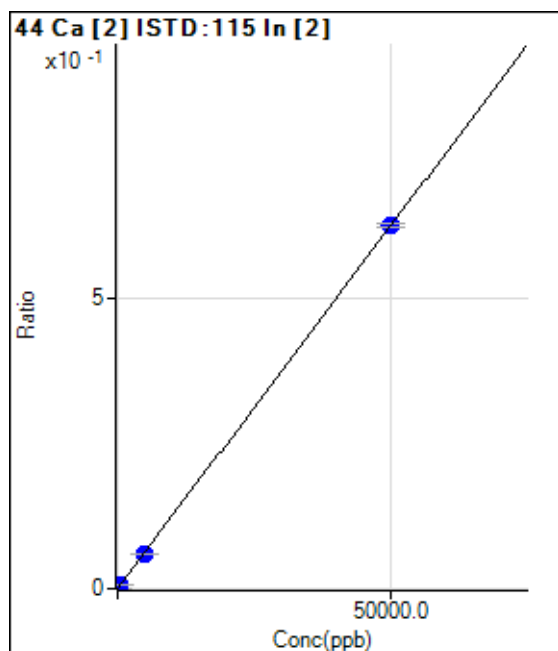
$$R = 1.0000$$

$$DL = 4.3$$

$$BEC = 59.01$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	71.90	0.0001	P	62.3
2	<input type="checkbox"/>	50.0000	43.4903	814.56	0.0006	P	8.1
3	<input type="checkbox"/>	500.0000	481.5796	8374.99	0.0061	P	7.9
4	<input type="checkbox"/>	5000.0000	4771.7435	81749.30	0.0598	P	1.3
5	<input type="checkbox"/>	50000.0000	50023.0164	812299.09	0.6262	P	0.9
6	<input type="checkbox"/>	10000.0000					

$$y = 1.2516\text{E-}005 * x + 5.2177\text{E-}005$$

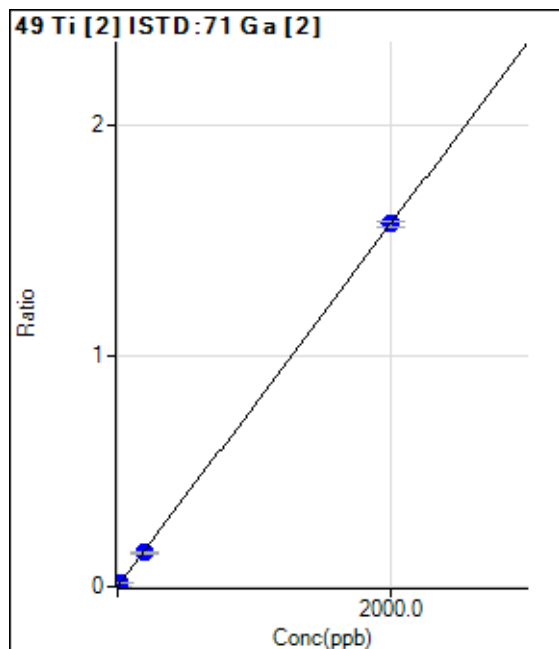
$$R = 1.0000$$

$$DL = 7.788$$

$$BEC = 4.169$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0002	P	13.3
2	<input type="checkbox"/>	2.0000	1.9159	363.36	0.0017	P	18.3
3	<input type="checkbox"/>	20.0000	18.0392	3097.10	0.0144	P	6.1
4	<input type="checkbox"/>	200.0000	185.6954	30969.94	0.1459	P	0.7
5	<input type="checkbox"/>	2000.0000	2001.4502	326326.99	1.5707	P	1.6
6	<input type="checkbox"/>	400.0000					

$$y = 7.8467\text{E-}004 * x + 2.0140\text{E-}004$$

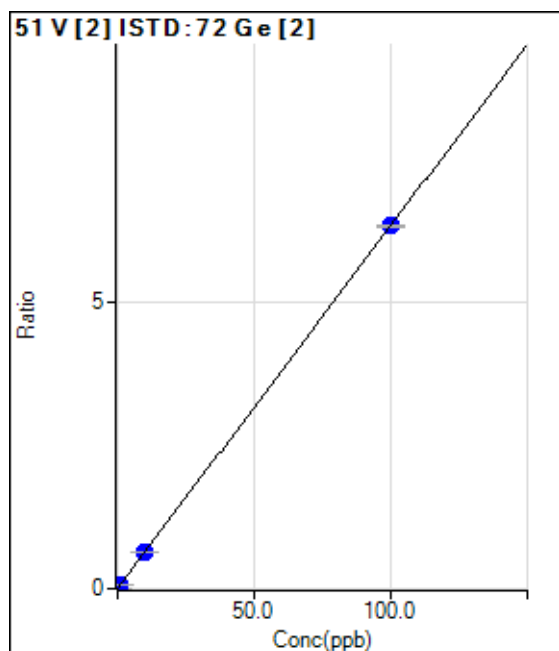
$$R = 1.0000$$

$$DL = 0.1023$$

$$BEC = 0.2567$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	327.34	0.0033	P	6.7
2	<input type="checkbox"/>	0.1000	0.1203	1040.04	0.0109	P	0.8
3	<input type="checkbox"/>	1.0000	1.0233	6558.98	0.0680	P	3.2
4	<input type="checkbox"/>	10.0000	9.9023	60587.03	0.6290	P	1.3
5	<input type="checkbox"/>	100.0000	100.0095	606703.69	6.3221	P	0.8
6	<input type="checkbox"/>	20.0000					

$$y = 0.0632 * x + 0.0033$$

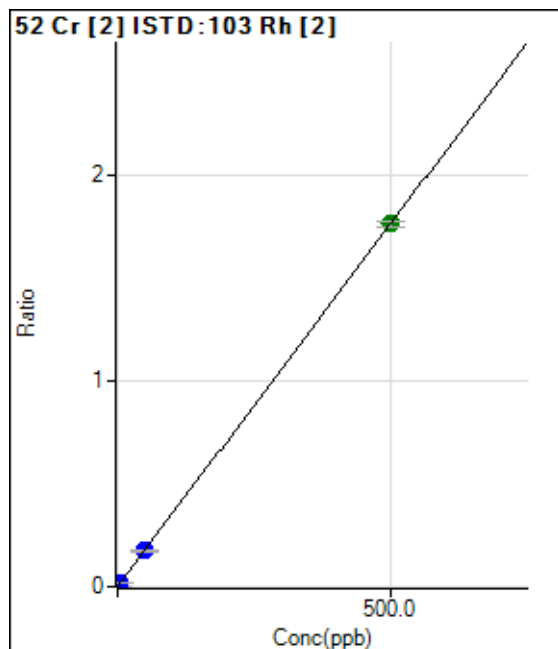
$$R = 1.0000$$

$$DL = 0.01053$$

$$BEC = 0.05229$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1683.44	0.0008	P	3.1
2	<input type="checkbox"/>	0.5000	0.5600	6030.07	0.0027	P	3.0
3	<input type="checkbox"/>	5.0000	5.0139	40937.31	0.0184	P	5.5
4	<input type="checkbox"/>	50.0000	49.0544	375644.51	0.1734	P	2.8
5	<input type="checkbox"/>	500.0000	500.0944	3536056.80	1.7610	A	1.7
6	<input type="checkbox"/>	100.0000					

$$y = 0.0035 * x + 7.5691E-004$$

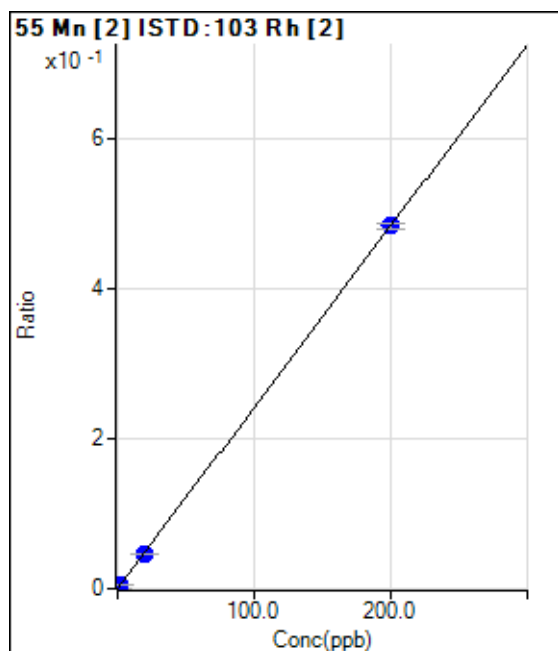
$$R = 1.0000$$

$$DL = 0.02029$$

$$BEC = 0.215$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	95.56	0.0000	P	8.3
2	<input type="checkbox"/>	0.2000	0.2173	1255.62	0.0006	P	9.0
3	<input type="checkbox"/>	2.0000	1.9117	10374.49	0.0047	P	6.3
4	<input type="checkbox"/>	20.0000	18.9388	99261.95	0.0458	P	1.7
5	<input type="checkbox"/>	200.0000	200.1070	971365.48	0.4838	P	1.6
6	<input type="checkbox"/>	40.0000					

$$y = 0.0024 * x + 4.2998E-005$$

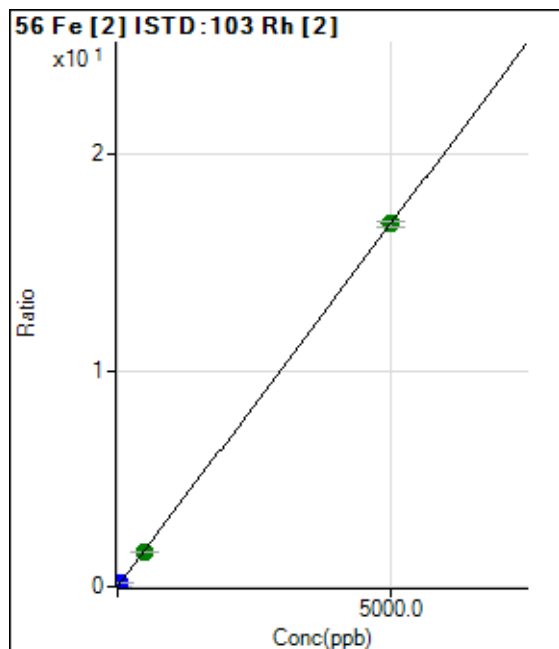
$$R = 1.0000$$

$$DL = 0.004432$$

$$BEC = 0.01779$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	4040.73	0.0018	P	4.5
2	<input type="checkbox"/>	5.0000	5.8934	47694.01	0.0216	P	3.8
3	<input type="checkbox"/>	50.0000	51.5426	388443.00	0.1747	P	6.1
4	<input type="checkbox"/>	500.0000	481.8489	3504227.03	1.6177	A	2.9
5	<input type="checkbox"/>	5000.0000	5001.7988	33684800.33	16.7756	A	1.9
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0034 * x + 0.0018$$

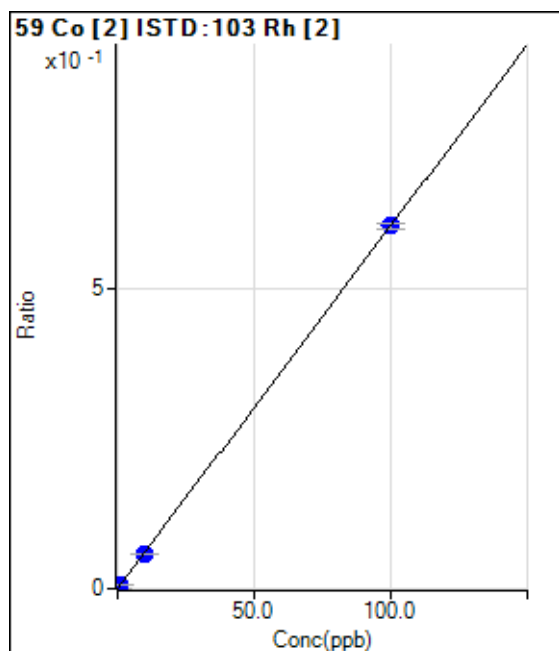
$$R = 1.0000$$

$$DL = 0.07263$$

$$BEC = 0.5417$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	40.00	0.0000	P	44.6
2	<input type="checkbox"/>	0.1000	0.0956	1320.08	0.0006	P	4.7
3	<input type="checkbox"/>	1.0000	0.9799	13237.70	0.0060	P	4.4
4	<input type="checkbox"/>	10.0000	9.5541	125331.32	0.0579	P	2.3
5	<input type="checkbox"/>	100.0000	100.0448	1216344.15	0.6057	P	1.5
6	<input type="checkbox"/>	20.0000					

$$y = 0.0061 * x + 1.8021E-005$$

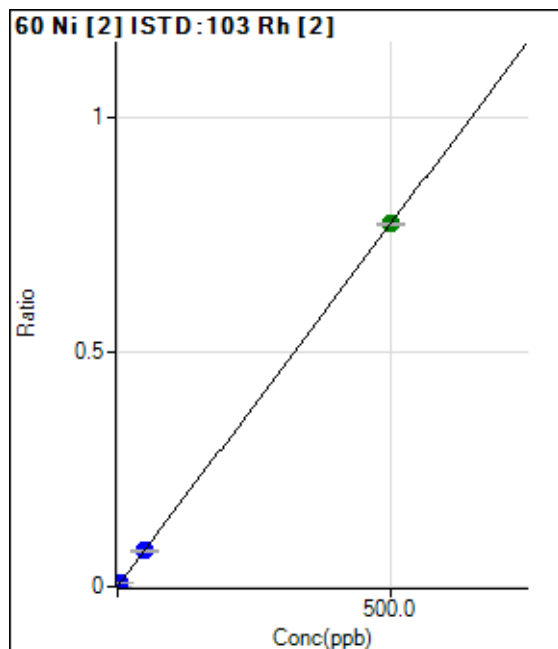
$$R = 1.0000$$

$$DL = 0.003982$$

$$BEC = 0.002977$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	91.11	0.0000	P	31.2
2	<input type="checkbox"/>	0.5000	0.5703	2042.38	0.0009	P	3.3
3	<input type="checkbox"/>	5.0000	5.0159	17367.11	0.0078	P	6.0
4	<input type="checkbox"/>	50.0000	49.3468	165632.56	0.0765	P	1.9
5	<input type="checkbox"/>	500.0000	500.0651	1555127.33	0.7744	A	0.5
6	<input type="checkbox"/>	100.0000					

$$y = 0.0015 * x + 4.1015E-005$$

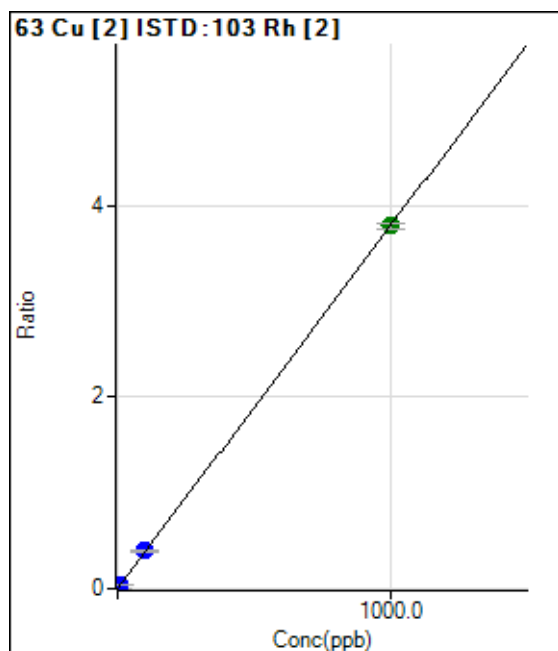
$$R = 1.0000$$

$$DL = 0.02476$$

$$BEC = 0.02649$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	700.03	0.0003	P	8.9
2	<input type="checkbox"/>	1.0000	1.0724	9676.31	0.0044	P	4.8
3	<input type="checkbox"/>	10.0000	10.5227	89387.40	0.0402	P	5.5
4	<input type="checkbox"/>	100.0000	103.3217	848771.10	0.3918	P	2.0
5	<input type="checkbox"/>	1000.0000	999.6625	7606932.47	3.7882	A	1.5
6	<input type="checkbox"/>	200.0000					

$$y = 0.0038 * x + 3.1482E-004$$

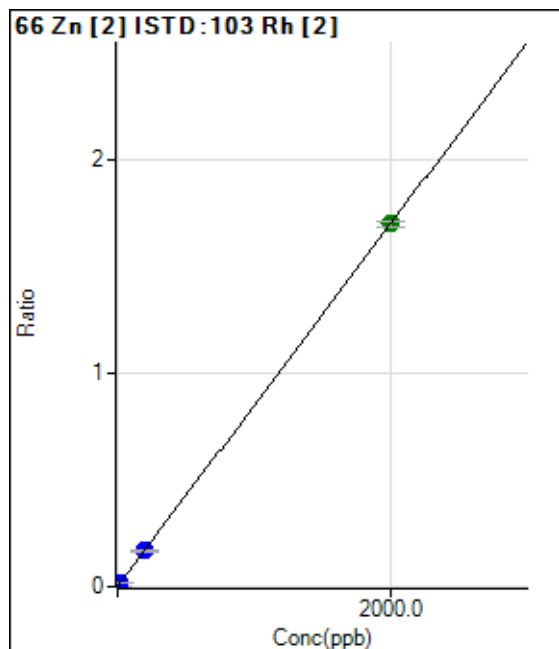
$$R = 1.0000$$

$$DL = 0.0223$$

$$BEC = 0.08308$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	193.34	0.0001	P	12.8
2	<input type="checkbox"/>	2.0000	2.1154	4167.40	0.0019	P	9.4
3	<input type="checkbox"/>	20.0000	20.4022	38787.34	0.0174	P	6.6
4	<input type="checkbox"/>	200.0000	198.7387	366376.92	0.1691	P	2.8
5	<input type="checkbox"/>	2000.0000	2000.1220	3416575.47	1.7015	A	1.2
6	<input type="checkbox"/>	400.0000					

$$y = 8.5064\text{E-}004 * x + 8.7010\text{E-}005$$

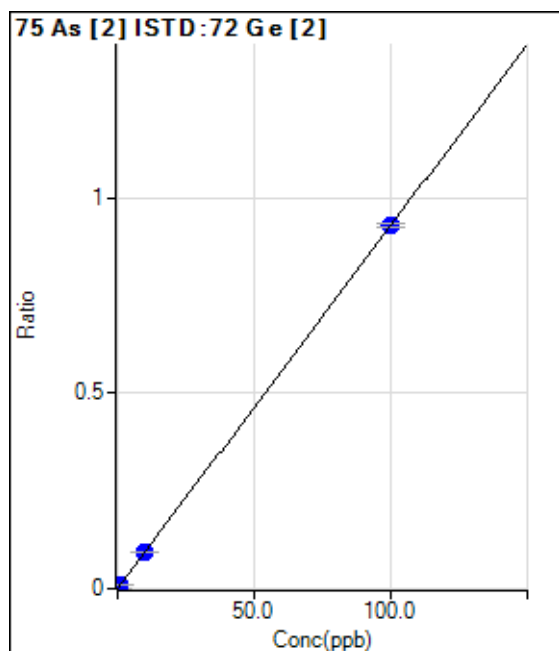
$$R = 1.0000$$

$$DL = 0.03938$$

$$BEC = 0.1023$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	9.33	0.0001	P	62.7
2	<input type="checkbox"/>	0.1000	0.1145	110.33	0.0012	P	10.6
3	<input type="checkbox"/>	1.0000	1.0446	945.03	0.0098	P	1.9
4	<input type="checkbox"/>	10.0000	9.9734	8923.46	0.0926	P	3.3
5	<input type="checkbox"/>	100.0000	100.0022	89059.92	0.9280	P	1.1
6	<input type="checkbox"/>	20.0000					

$$y = 0.0093 * x + 9.4212\text{E-}005$$

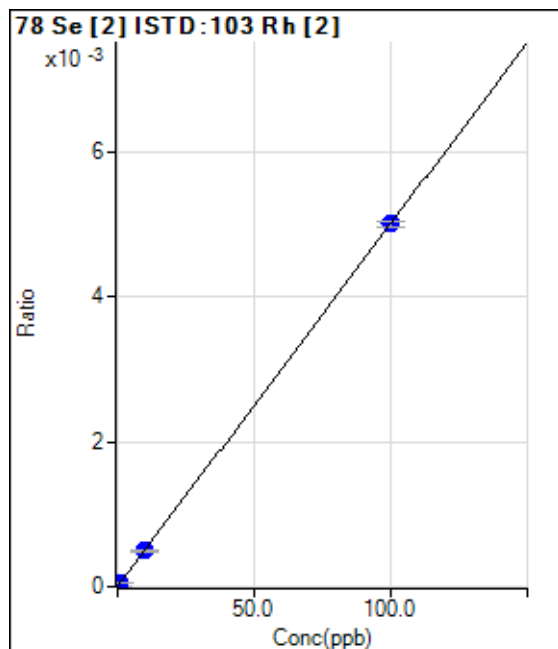
$$R = 1.0000$$

$$DL = 0.01909$$

$$BEC = 0.01015$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1.87	0.0000	P	101.8
2	<input type="checkbox"/>	0.1000	0.0938	12.27	0.0000	P	21.4
3	<input type="checkbox"/>	1.0000	0.9791	110.93	0.0000	P	7.1
4	<input type="checkbox"/>	10.0000	9.8429	1069.77	0.0005	P	2.7
5	<input type="checkbox"/>	100.0000	100.0159	10061.50	0.0050	P	1.7
6	<input type="checkbox"/>	20.0000					

$$y = 5.0093\text{E-}005 * x + 8.4511\text{E-}007$$

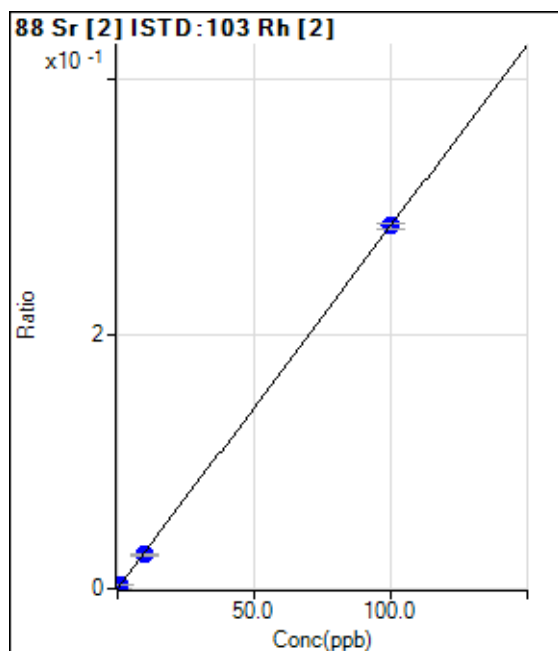
$$R = 1.0000$$

$$DL = 0.05152$$

$$BEC = 0.01687$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	53.33	0.0000	P	28.8
2	<input type="checkbox"/>	0.1000	0.1219	820.07	0.0004	P	5.2
3	<input type="checkbox"/>	1.0000	0.9516	6078.11	0.0027	P	9.0
4	<input type="checkbox"/>	10.0000	9.3729	57865.84	0.0267	P	4.6
5	<input type="checkbox"/>	100.0000	100.0632	572104.06	0.2849	P	1.3
6	<input type="checkbox"/>	20.0000					

$$y = 0.0028 * x + 2.3985\text{E-}005$$

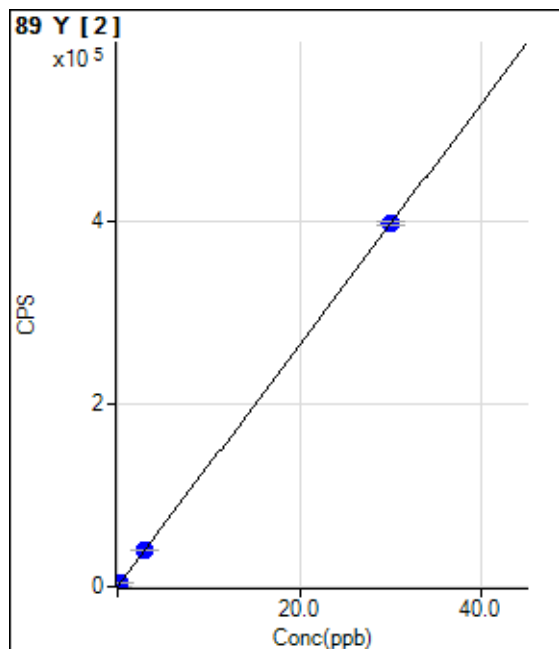
$$R = 1.0000$$

$$DL = 0.007281$$

$$BEC = 0.008424$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	13.33		P	114.6
2	<input type="checkbox"/>	0.0300	0.0302	413.36		P	5.6
3	<input type="checkbox"/>	0.3000	0.3029	4020.69		P	4.6
4	<input type="checkbox"/>	3.0000	2.9842	39493.41		P	0.9
5	<input type="checkbox"/>	30.0000	30.0016	396929.32		P	0.9
6	<input type="checkbox"/>	6.0000					

$$y = 13229.8475 * x + 13.3333$$

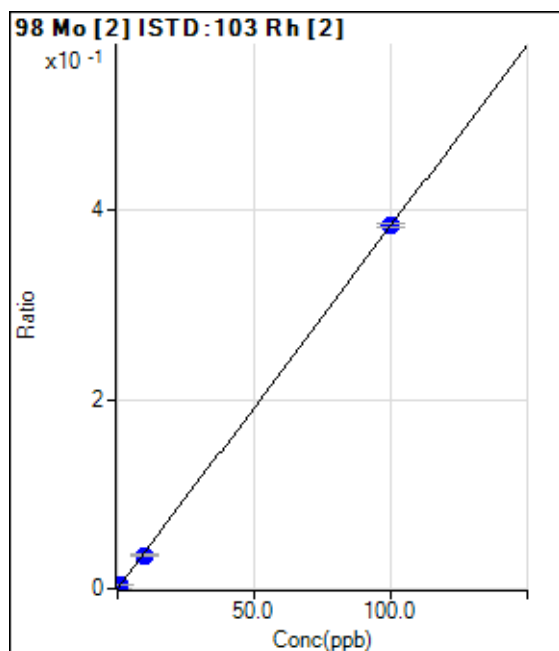
$$R = 1.0000$$

$$DL = 0.003464$$

$$BEC = 0.001008$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	17.78	0.0000	P	46.1
2	<input type="checkbox"/>	0.1000	0.0931	806.70	0.0004	P	9.3
3	<input type="checkbox"/>	1.0000	0.9295	7943.21	0.0036	P	7.2
4	<input type="checkbox"/>	10.0000	9.2441	76804.69	0.0355	P	1.7
5	<input type="checkbox"/>	100.0000	100.0763	770533.75	0.3837	P	1.2
6	<input type="checkbox"/>	20.0000					

$$y = 0.0038 * x + 7.9713E-006$$

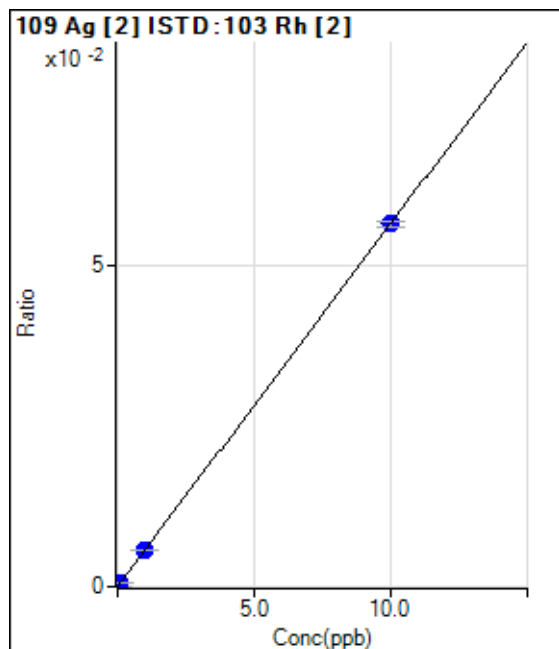
$$R = 1.0000$$

$$DL = 0.002874$$

$$BEC = 0.002079$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	13.33	0.0000	P	89.8
2	<input type="checkbox"/>	0.0100	0.0092	127.78	0.0001	P	18.5
3	<input type="checkbox"/>	0.1000	0.0964	1218.96	0.0005	P	17.7
4	<input type="checkbox"/>	1.0000	0.9929	12132.59	0.0056	P	1.6
5	<input type="checkbox"/>	10.0000	10.0007	113167.14	0.0564	P	1.7
6	<input type="checkbox"/>	2.0000					

$$y = 0.0056 * x + 5.9593E-006$$

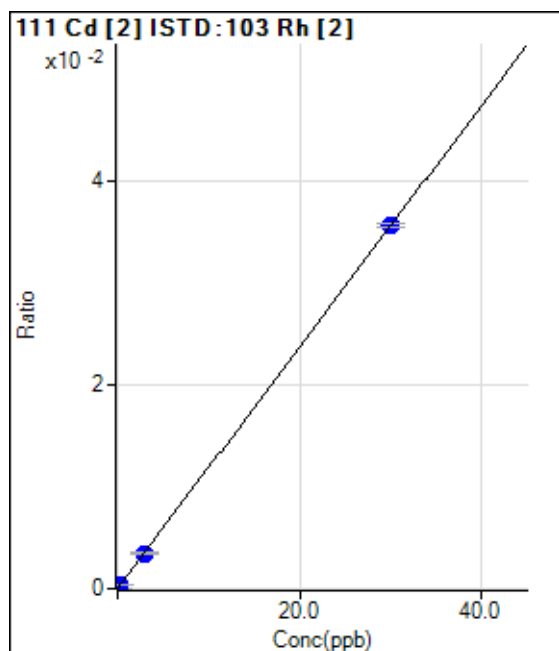
$$R = 1.0000$$

$$DL = 0.002849$$

$$BEC = 0.001058$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	8.00	0.0000	P	113.7
2	<input type="checkbox"/>	0.0300	0.0237	69.92	0.0000	P	27.9
3	<input type="checkbox"/>	0.3000	0.2870	765.24	0.0003	P	4.9
4	<input type="checkbox"/>	3.0000	2.9308	7535.57	0.0035	P	3.2
5	<input type="checkbox"/>	30.0000	30.0071	71456.07	0.0356	P	1.1
6	<input type="checkbox"/>	6.0000					

$$y = 0.0012 * x + 3.5692E-006$$

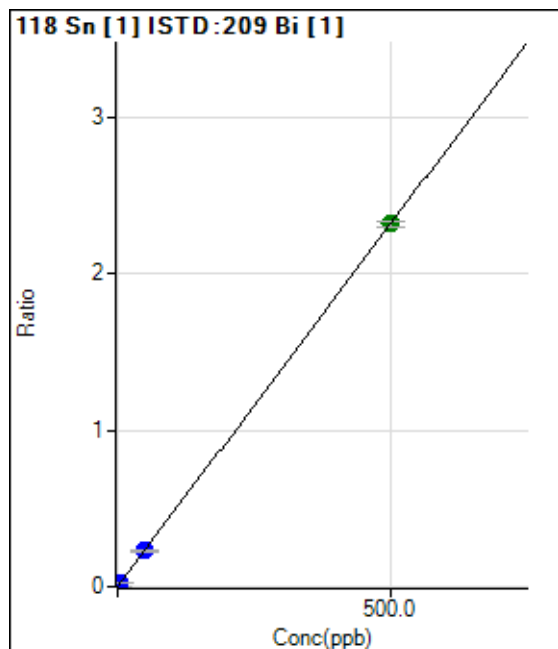
$$R = 1.0000$$

$$DL = 0.01027$$

$$BEC = 0.00301$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2263.60	0.0004	P	7.4
2	<input type="checkbox"/>	0.5000	0.5071	16826.42	0.0027	P	2.0
3	<input type="checkbox"/>	5.0000	5.2748	148758.99	0.0248	P	1.2
4	<input type="checkbox"/>	50.0000	48.9693	1385042.95	0.2272	P	0.8
5	<input type="checkbox"/>	500.0000	500.1003	13448287.72	2.3167	A	1.3
6	<input type="checkbox"/>	100.0000					

$$y = 0.0046 * x + 3.6290E-004$$

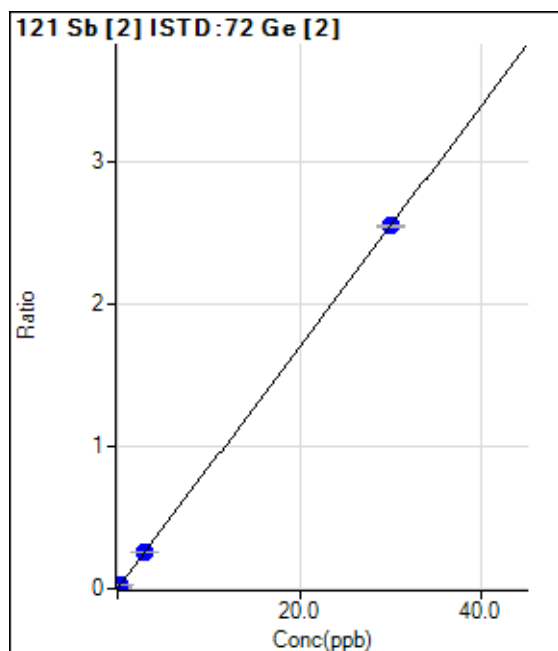
$$R = 1.0000$$

$$DL = 0.0173$$

$$BEC = 0.07835$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	32.22	0.0003	P	33.5
2	<input type="checkbox"/>	0.0300	0.1189	992.27	0.0104	P	4.9
3	<input type="checkbox"/>	0.3000	0.3195	2649.15	0.0274	P	1.3
4	<input type="checkbox"/>	3.0000	3.0085	24617.27	0.2556	P	1.5
5	<input type="checkbox"/>	30.0000	29.9989	244266.57	2.5454	P	0.7
6	<input type="checkbox"/>	6.0000					

$$y = 0.0848 * x + 3.2537E-004$$

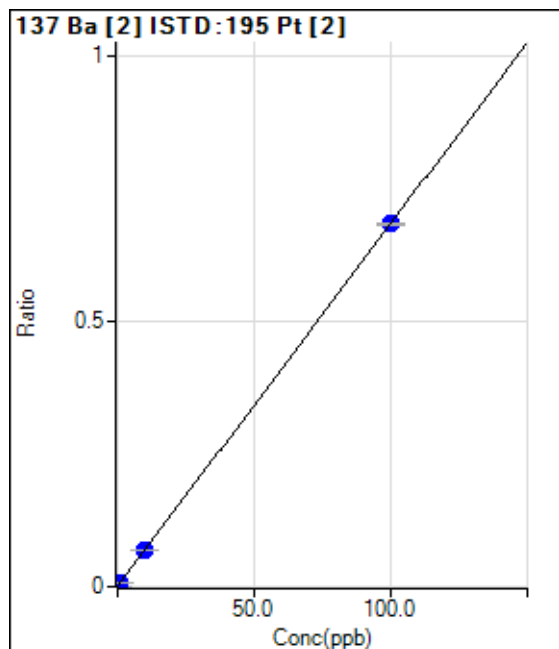
$$R = 1.0000$$

$$DL = 0.003853$$

$$BEC = 0.003835$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	-0.0485	63.33	0.0002	P	36.3
2	<input type="checkbox"/>	0.1000	0.1203	466.70	0.0013	P	3.5
3	<input type="checkbox"/>	1.0000	1.0557	2697.03	0.0077	P	7.1
4	<input type="checkbox"/>	10.0000	9.9702	23518.75	0.0687	P	3.2
5	<input type="checkbox"/>	100.0000	100.0024	226337.72	0.6841	P	0.7
6	<input type="checkbox"/>	20.0000					

$$y = 0.0068 * x + 5.1356E-004$$

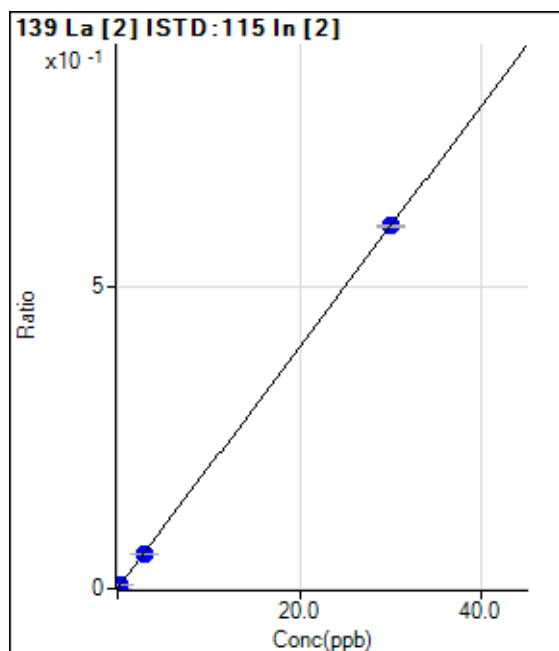
$$R = 1.0000$$

$$DL = 0.02896$$

$$BEC = 0.07513$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	30.00	0.0000	P	87.8
2	<input type="checkbox"/>	0.0300	0.0324	916.74	0.0007	P	8.8
3	<input type="checkbox"/>	0.3000	0.2848	7882.40	0.0057	P	1.7
4	<input type="checkbox"/>	3.0000	2.8466	77974.19	0.0570	P	3.4
5	<input type="checkbox"/>	30.0000	30.0155	779702.78	0.6010	P	0.7
6	<input type="checkbox"/>	6.0000					

$$y = 0.0200 * x + 2.1749E-005$$

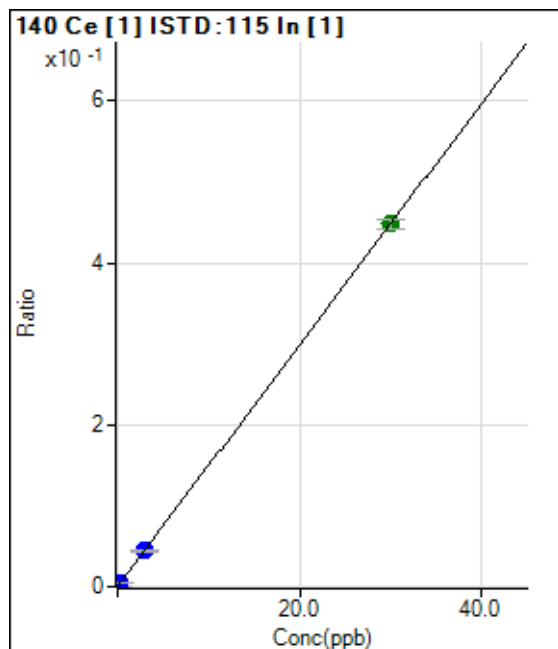
$$R = 1.0000$$

$$DL = 0.002861$$

$$BEC = 0.001086$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	143.34	0.0000	P	27.6
2	<input type="checkbox"/>	0.0300	0.0324	4357.50	0.0005	P	6.1
3	<input type="checkbox"/>	0.3000	0.3100	39715.90	0.0046	P	2.7
4	<input type="checkbox"/>	3.0000	2.9582	378391.22	0.0442	P	2.2
5	<input type="checkbox"/>	30.0000	30.0041	3702196.82	0.4479	A	2.3
6	<input type="checkbox"/>	6.0000					

$$y = 0.0149 * x + 1.6402E-005$$

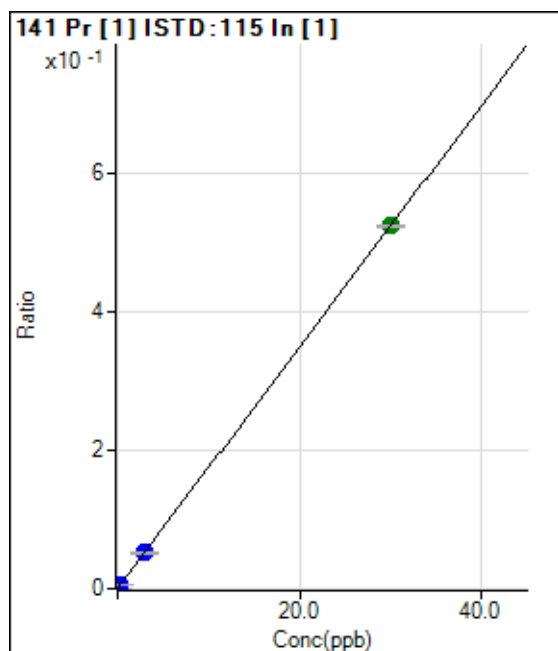
$$R = 1.0000$$

$$DL = 0.0009095$$

$$BEC = 0.001099$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	30.00	0.0000	P	34.4
2	<input type="checkbox"/>	0.0300	0.0315	4814.34	0.0006	P	6.0
3	<input type="checkbox"/>	0.3000	0.3112	46427.96	0.0054	P	1.8
4	<input type="checkbox"/>	3.0000	2.9526	440788.98	0.0515	P	1.5
5	<input type="checkbox"/>	30.0000	30.0046	4322517.33	0.5229	A	0.8
6	<input type="checkbox"/>	6.0000					

$$y = 0.0174 * x + 3.4441E-006$$

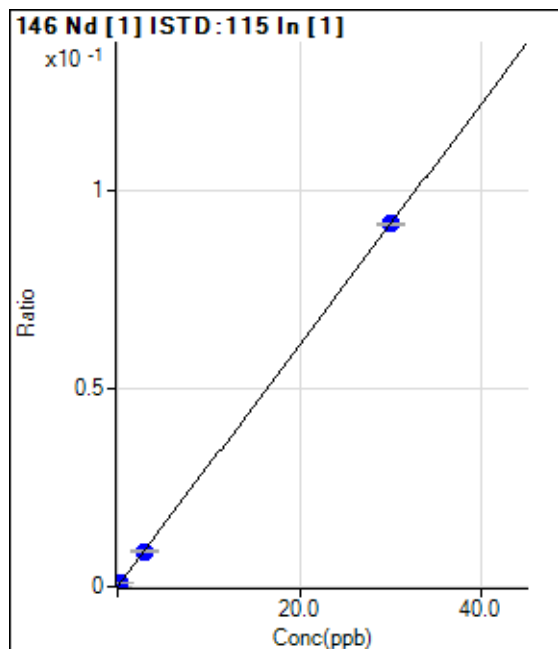
$$R = 1.0000$$

$$DL = 0.0002041$$

$$BEC = 0.0001976$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	46.67	0.0000	P	61.1
2	<input type="checkbox"/>	0.0300	0.0313	880.07	0.0001	P	15.2
3	<input type="checkbox"/>	0.3000	0.3024	7942.42	0.0009	P	5.2
4	<input type="checkbox"/>	3.0000	2.9082	76032.16	0.0089	P	3.5
5	<input type="checkbox"/>	30.0000	30.0092	756841.14	0.0916	P	0.7
6	<input type="checkbox"/>	6.0000					

$$y = 0.0031 * x + 5.3306E-006$$

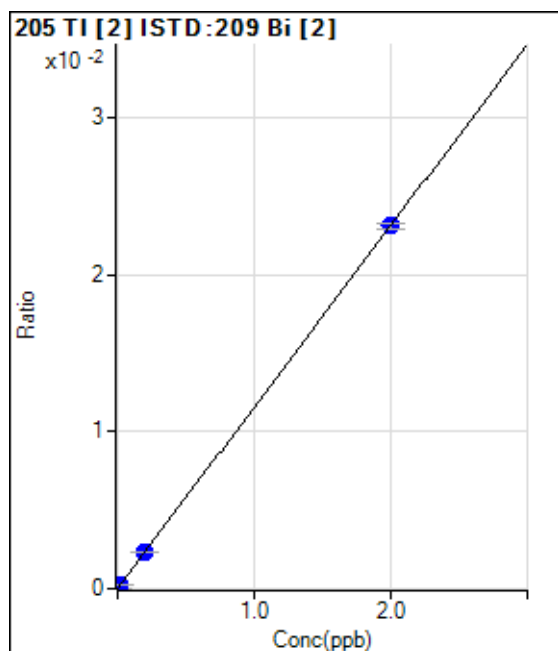
$$R = 1.0000$$

$$DL = 0.003204$$

$$BEC = 0.001747$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	20.00	0.0000	P	7.6
2	<input type="checkbox"/>	0.0020	0.0023	68.57	0.0000	P	12.2
3	<input type="checkbox"/>	0.0200	0.0192	423.82	0.0002	P	3.9
4	<input type="checkbox"/>	0.2000	0.1996	4213.96	0.0023	P	2.3
5	<input type="checkbox"/>	2.0000	2.0001	39033.59	0.0231	P	1.6
6	<input type="checkbox"/>	0.4000					

$$y = 0.0116 * x + 1.0936E-005$$

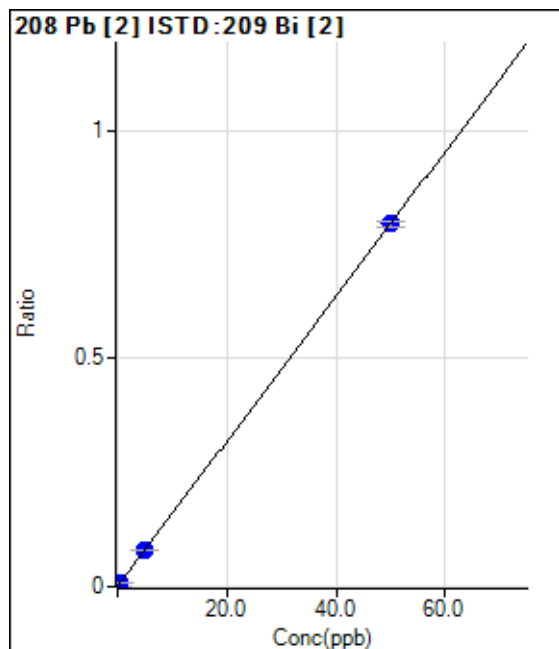
$$R = 1.0000$$

$$DL = 0.0002151$$

$$BEC = 0.0009456$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0077	1110.09	0.0006	P	17.0
2	<input type="checkbox"/>	0.0500	0.0654	2746.93	0.0015	P	13.3
3	<input type="checkbox"/>	0.5000	0.5158	15814.23	0.0087	P	2.3
4	<input type="checkbox"/>	5.0000	4.9569	144082.41	0.0793	P	3.1
5	<input type="checkbox"/>	50.0000	50.0041	1341499.29	0.7954	P	1.9
6	<input type="checkbox"/>	10.0000					

$$y = 0.0159 * x + 4.8325E-004$$

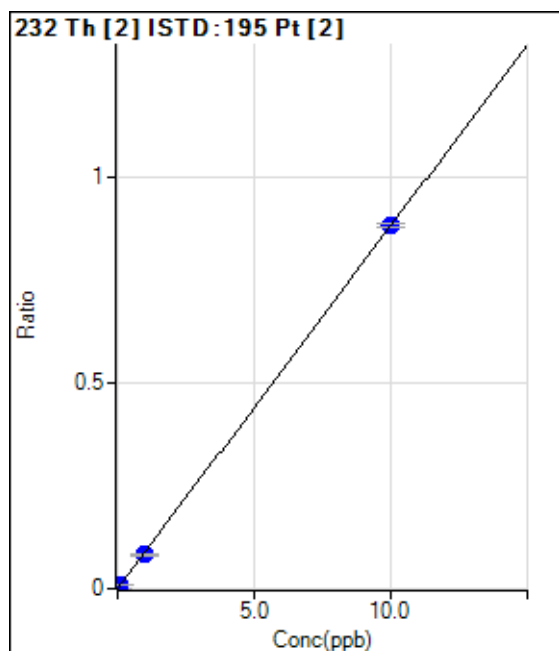
R = 1.0000

DL = 0.01942

BEC = 0.0304

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	15.56	0.0000	P	13.9
2	<input type="checkbox"/>	0.0100	0.0081	264.45	0.0008	P	8.9
3	<input type="checkbox"/>	0.1000	0.0877	2709.18	0.0078	P	1.6
4	<input type="checkbox"/>	1.0000	0.9311	28104.03	0.0820	P	2.5
5	<input type="checkbox"/>	10.0000	10.0070	291619.08	0.8814	P	1.2
6	<input type="checkbox"/>	2.0000					

$$y = 0.0881 * x + 4.4720E-005$$

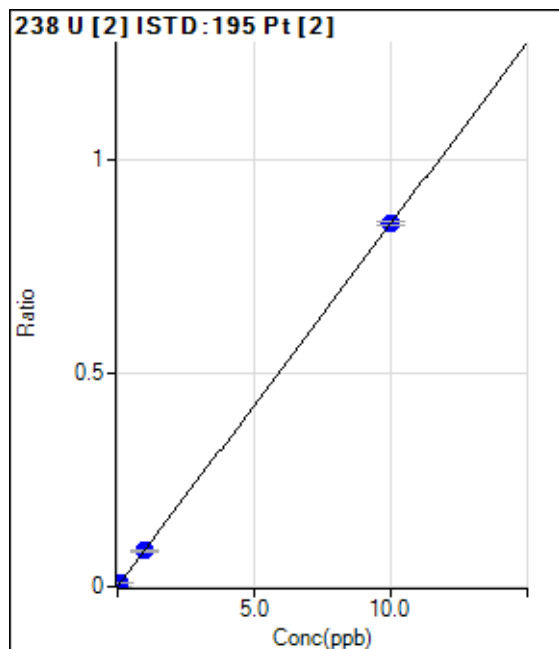
R = 1.0000

DL = 0.0002111

BEC = 0.0005077

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	8.89	0.0000	P	113.2
2	<input type="checkbox"/>	0.0100	0.0124	376.68	0.0011	P	5.7
3	<input type="checkbox"/>	0.1000	0.0986	2935.90	0.0084	P	2.4
4	<input type="checkbox"/>	1.0000	0.9839	28698.56	0.0838	P	2.9
5	<input type="checkbox"/>	10.0000	10.0016	281711.76	0.8514	P	1.1
6	<input type="checkbox"/>	2.0000					

$$y = 0.0851 * x + 2.5309E-005$$

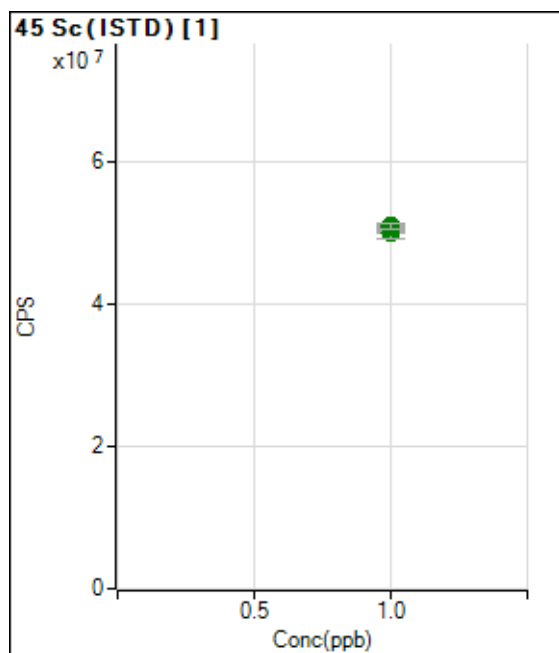
$$R = 1.0000$$

$$DL = 0.001009$$

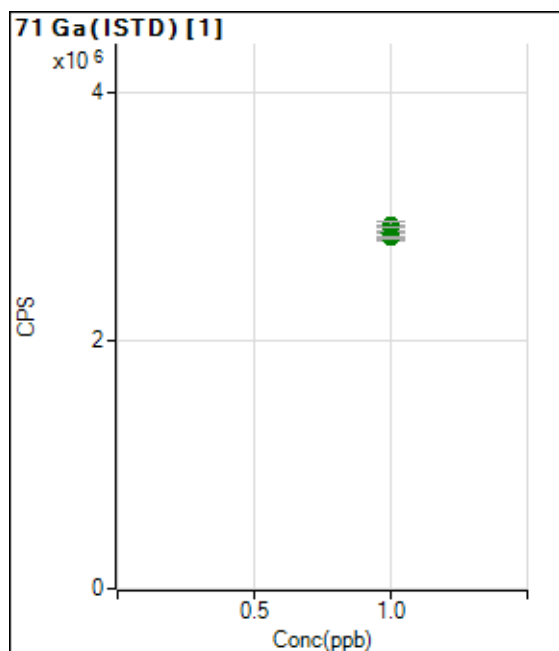
$$BEC = 0.0002973$$

Weight: None

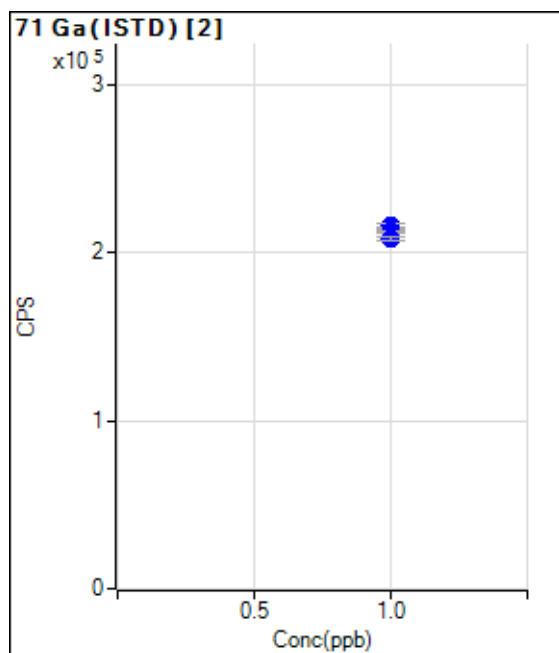
Min Conc: <None>



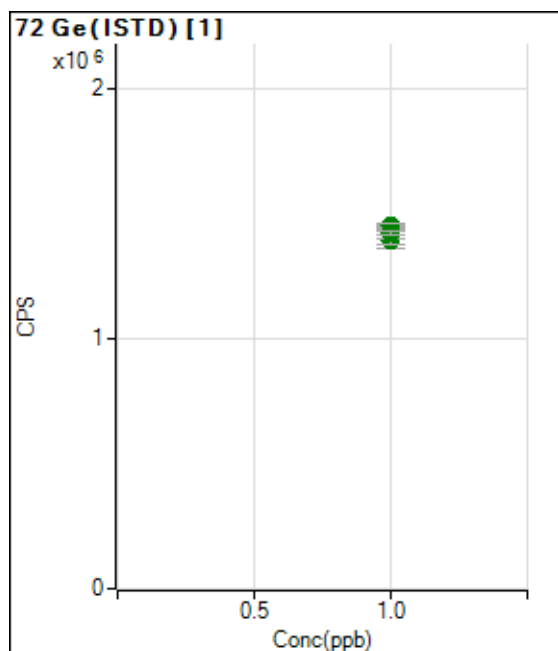
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		50544302.58		A	1.3
2	<input type="checkbox"/>	1.0000		50755734.24		A	2.4
3	<input type="checkbox"/>	1.0000		50064350.92		A	3.2
4	<input type="checkbox"/>	1.0000		50958792.57		A	1.1
5	<input type="checkbox"/>	1.0000		51023595.91		A	1.3
6	<input type="checkbox"/>	1.0000					



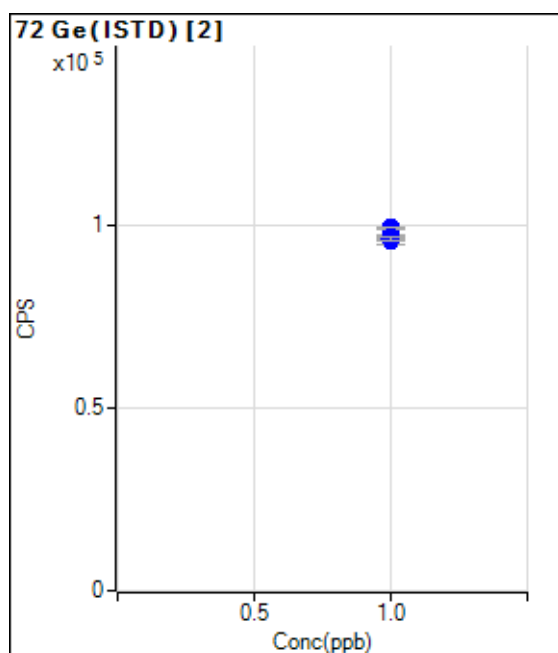
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2921077.14		A	0.6
2	<input type="checkbox"/>	1.0000		2909079.85		A	3.0
3	<input type="checkbox"/>	1.0000		2858152.67		A	3.6
4	<input type="checkbox"/>	1.0000		2837529.54		A	2.9
5	<input type="checkbox"/>	1.0000		2829641.42		A	0.5
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		215152.32		P	0.2
2	<input type="checkbox"/>	1.0000		213139.22		P	0.7
3	<input type="checkbox"/>	1.0000		215818.04		P	1.3
4	<input type="checkbox"/>	1.0000		212257.88		P	0.7
5	<input type="checkbox"/>	1.0000		207785.85		P	1.2
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1450716.12		A	1.0
2	<input type="checkbox"/>	1.0000		1452296.49		A	1.8
3	<input type="checkbox"/>	1.0000		1391658.57		M	3.8
4	<input type="checkbox"/>	1.0000		1391268.10		A	1.4
5	<input type="checkbox"/>	1.0000		1423173.88		A	0.8
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		99084.95		P	0.8
2	<input type="checkbox"/>	1.0000		95346.07		P	1.6
3	<input type="checkbox"/>	1.0000		96553.85		P	1.8
4	<input type="checkbox"/>	1.0000		96332.21		P	0.4
5	<input type="checkbox"/>	1.0000		95966.73		P	1.1
6	<input type="checkbox"/>	1.0000					

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 15 Jun 2017 04:55:29 pm
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\2008TUNE.m

Minimum Response(CPS)

Element	Actual	Required	Flag
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RSD (%)

Element	Actual	Required	Flag
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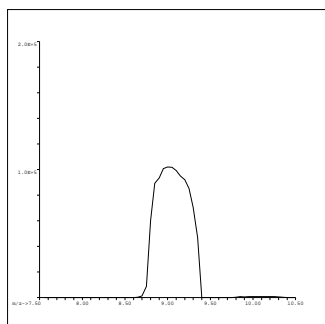
9 Be	1.47	5.00	
24 Mg	0.60	5.00	
25 Mg	0.65	5.00	
26 Mg	0.48	5.00	
59 Co	0.49	5.00	
115 In	1.32	5.00	
206 Pb	0.51	5.00	
207 Pb	0.60	5.00	
208 Pb	1.02	5.00	

Ion Ratio

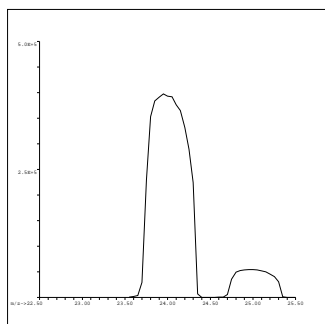
Element	Actual	Required	Flag
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Maximum Bkg. Count(CPS)

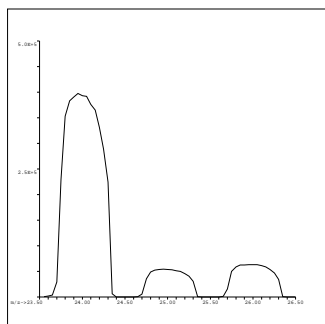
Element	Actual	Required	Flag
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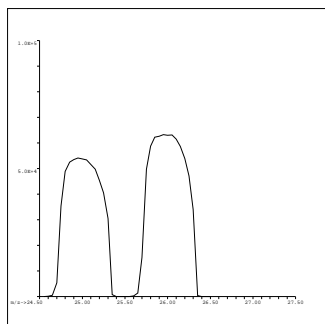
9 Be
 Mass Calib.
 Actual: 9.05
 Required: 8.90-9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



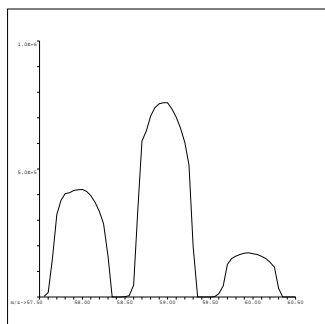
24 Mg
 Mass Calib.
 Actual: 23.95
 Required: 23.90-24.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



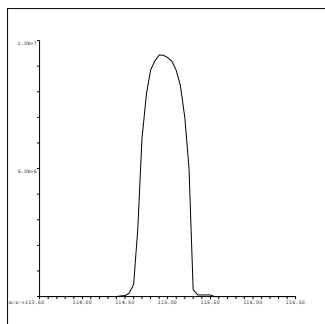
25 Mg
 Mass Calib.
 Actual: 24.95
 Required: 24.90-25.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



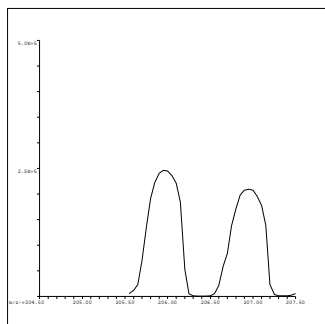
26 Mg
 Mass Calib.
 Actual: 25.95
 Required: 25.90-26.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



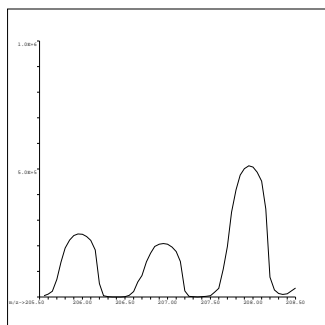
59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.70
Required: 0.80
Flag:



115 In
Mass Calib.
Actual: 114.95
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:

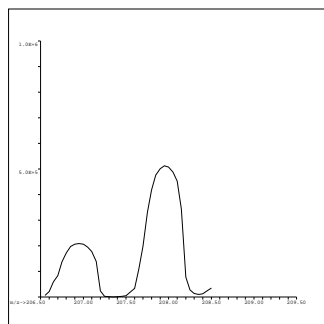


206 Pb
Mass Calib.
Actual: 205.95
Required: 205.90-206.10
Flag:
Peak Width
Actual: 0.55
Required: 0.80
Flag:



207 Pb
Mass Calib.
Actual: 206.95
Required: 206.90-207.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:

C:\ICPMH\1\7500\QCTUNE.D



208 Pb

Mass Calib.

Actual: 207.95

Required: 207.90-208.10

Flag:

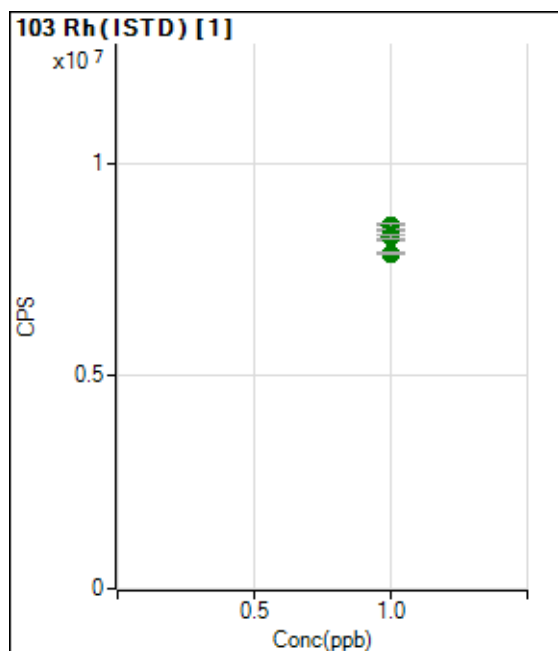
Peak Width

Actual: 0.55

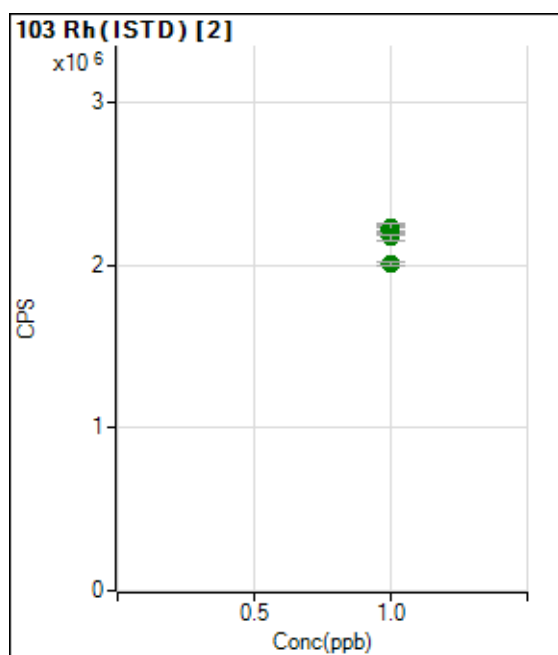
Required: 0.80

Flag:

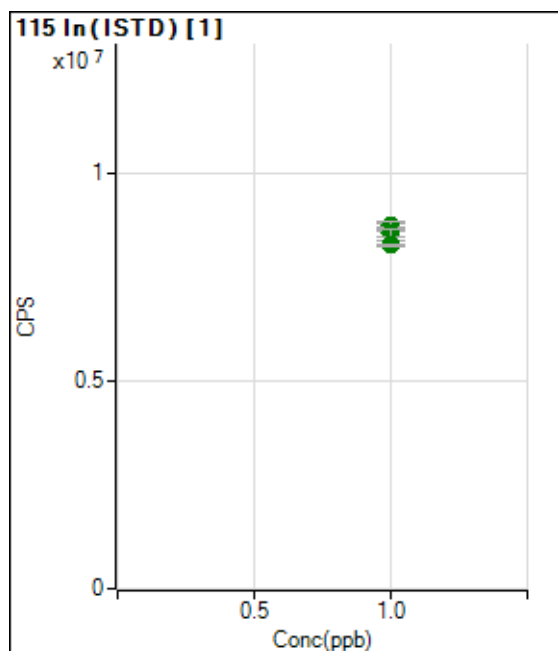
QC Tune Result:Pass



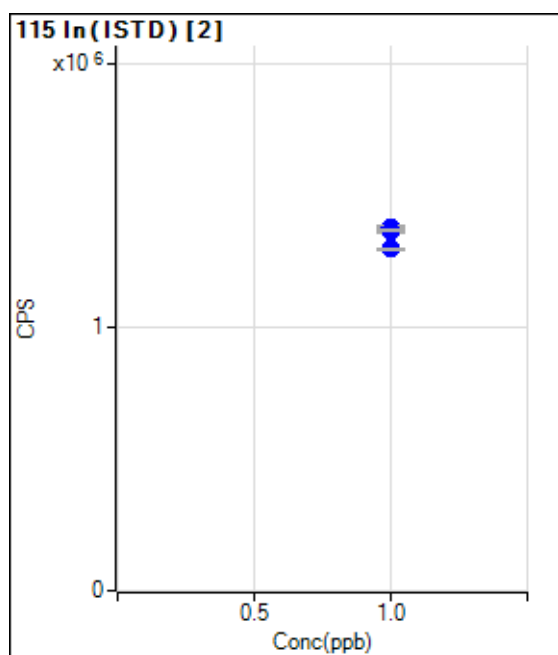
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		8463591.13		A	1.5
2	<input type="checkbox"/>	1.0000		8520370.71		A	1.3
3	<input type="checkbox"/>	1.0000		8327625.92		A	3.3
4	<input type="checkbox"/>	1.0000		8271724.04		A	0.8
5	<input type="checkbox"/>	1.0000		7860784.05		A	0.5
6	<input type="checkbox"/>	1.0000					



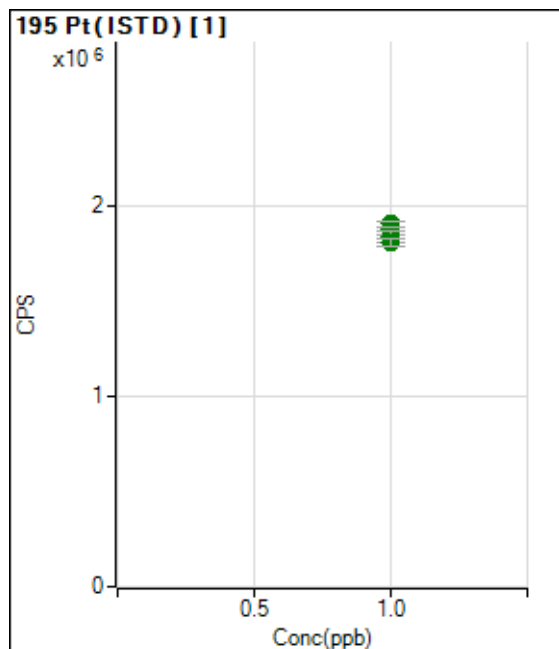
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2223736.32		A	1.2
2	<input type="checkbox"/>	1.0000		2210852.36		A	1.4
3	<input type="checkbox"/>	1.0000		2226298.72		A	2.6
4	<input type="checkbox"/>	1.0000		2166661.69		A	1.8
5	<input type="checkbox"/>	1.0000		2008168.30		A	1.1
6	<input type="checkbox"/>	1.0000					



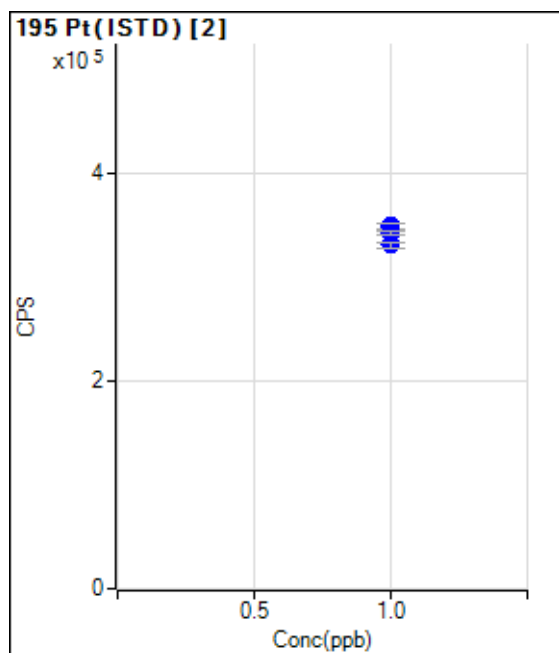
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		8731281.31		A	1.2
2	<input type="checkbox"/>	1.0000		8714566.18		A	2.5
3	<input type="checkbox"/>	1.0000		8558219.12		A	3.8
4	<input type="checkbox"/>	1.0000		8566313.02		A	1.9
5	<input type="checkbox"/>	1.0000		8265853.43		A	0.7
6	<input type="checkbox"/>	1.0000					



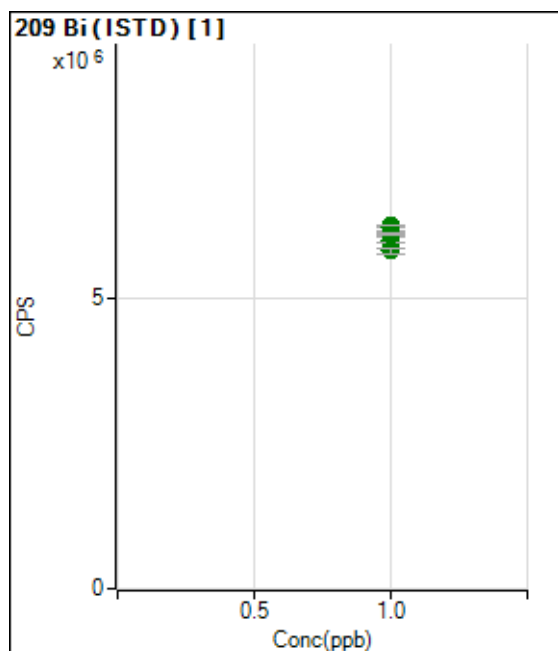
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1377288.34		P	0.6
2	<input type="checkbox"/>	1.0000		1365777.77		P	0.9
3	<input type="checkbox"/>	1.0000		1377071.22		P	1.2
4	<input type="checkbox"/>	1.0000		1367570.53		P	0.3
5	<input type="checkbox"/>	1.0000		1297297.97		P	0.4
6	<input type="checkbox"/>	1.0000					



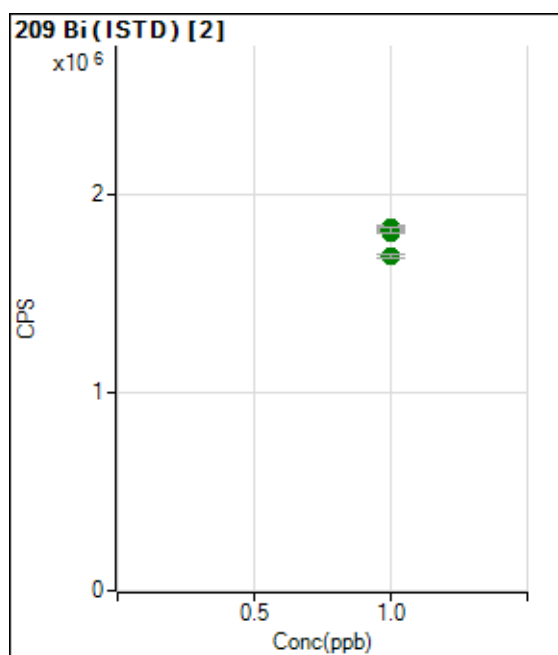
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1877530.75		A	1.1
2	<input type="checkbox"/>	1.0000		1902986.01		A	1.8
3	<input type="checkbox"/>	1.0000		1865956.07		A	2.3
4	<input type="checkbox"/>	1.0000		1837129.40		A	3.4
5	<input type="checkbox"/>	1.0000		1806563.93		A	2.0
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		348392.38		P	1.9
2	<input type="checkbox"/>	1.0000		349243.58		P	1.9
3	<input type="checkbox"/>	1.0000		348684.70		P	1.5
4	<input type="checkbox"/>	1.0000		342570.80		P	1.4
5	<input type="checkbox"/>	1.0000		330865.76		P	1.7
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		6237409.28		A	0.3
2	<input type="checkbox"/>	1.0000		6205903.24		A	1.3
3	<input type="checkbox"/>	1.0000		6000234.70		A	1.6
4	<input type="checkbox"/>	1.0000		6096632.62		A	0.9
5	<input type="checkbox"/>	1.0000		5805351.37		A	1.3
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1829284.66		A	1.0
2	<input type="checkbox"/>	1.0000		1804547.53		A	0.6
3	<input type="checkbox"/>	1.0000		1820637.99		A	2.3
4	<input type="checkbox"/>	1.0000		1817675.39		A	1.5
5	<input type="checkbox"/>	1.0000		1686602.84		A	1.0
6	<input type="checkbox"/>	1.0000					

Miscellaneous

ALS Laboratory Group

Method: 3010 Beaker Lot No. 2106314 Initial Prep 9/7/76 Final Prep 9/7/76
SOP/Rev: 800.016 Avg. Beaker Wt. (g) 10.3 Prep Start Time 10:15 Prep End Time 18:00
Balance(s): 30 Pipet(s): 10-70, 4-50 Digestate Wt. (g) —

Note: Each Page is copied as completed and included with the workorder/run documentation; reviewed subsequently

QC Grp	Lab Sample ID	Instrument	Init Vol/Wt. (mL / g)	Final Vol. (mL)	Final Wt. (g)	pH	Comments, including metals list
	1706286-2 ↓ -4	USHR	SD	SD	NA	<2	
	1706299-1 ↓ -1D -1MS -1MSD -2 -3 ↓ -4						1706001 are all concentrated acids, Nasty samples. Big dilutions needed.
	1706329-1 ↓ -2 -3 ↓ -4						
	1706601-1 ↓ -2 ↓ -3	US	13	13			
	1706603-1 ↓ -2 -3 ↓ -4		20	20			
	1706618-1 ↓ -2 -3		SD	SD			
	1706706-10 UB ↓ -10 LGS ±U170706010-LCS	USHR					
608 of 609							

ALS Laboratory Group

100

HCl Lot No. ~~16933~~ ^{ML} 17-17 Method:

Digestion Date 07/17/17

HNO₃ Lot No. 149331 SOP/Rev: 8060 R16

Digestion Batch DP170717-

Temp 95°C

Peroxide Lot No.

Balance(s): 30

Pinet(s).

MA-50

Prep End 111

Digestate wt. (g) ✓
 weighed subsequently

Digestate wt. (g) ✓
 weighed subsequently

Representation:

the worko

Completed and included

Note: Each Page is copied as

Form 805r20.xls (02/10/11)

For

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