



# Analytical Data Package

**Prepared by:**

**Pace Analytical Services**

**Pace Project No.: 40189621**

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July 03, 2019

Tyler Baker  
Tennessee Valley Authority  
Chickamauga Power Service Cent  
4601 North Access Road, Bld. B  
Chattanooga, TN 374153825

RE: Project: 425258 CUMBERLAND FOSSIL PLANT  
Pace Project No.: 40189621

Dear Tyler Baker:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer  
tod.noltemeyer@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Jennifer Gable, Environmental Standards, Inc.  
Roy Quinn, TVA



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## SAMPLE SUMMARY

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189621001	CUF-FH-LB-F-EB01-20190509	Tissue	05/09/19 10:35	06/18/19 09:05
40189621002	CUF-FH-CC-F-EB01-20190522	Tissue	05/22/19 13:10	06/18/19 09:05
40189621003	CUF-FH-CC-F-EB01-20190524	Tissue	05/24/19 08:55	06/18/19 09:05

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## SAMPLE ANALYTE COUNT

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40189621001	CUF-FH-LB-F-EB01-20190509	EPA 6020	DS1	20
		EPA 7473	AJT	1
40189621002	CUF-FH-CC-F-EB01-20190522	EPA 6020	DS1	20
		EPA 7473	AJT	1
40189621003	CUF-FH-CC-F-EB01-20190524	EPA 6020	DS1	20
		EPA 7473	AJT	1

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## PROJECT NARRATIVE

Project: 425258 CUMBERLAND FOSSIL PLANT  
Pace Project No.: 40189621

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**Method:** EPA 6020  
**Description:** 6020 MET ICPMS  
**Client:** TENNESSEE VALLEY AUTHORITY  
**Date:** July 03, 2019

### General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

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**Method:** EPA 7473

**Description:** 7473 Mercury, Tissue

**Client:** TENNESSEE VALLEY AUTHORITY

**Date:** July 03, 2019

### General Information:

3 samples were analyzed for EPA 7473. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.

- CUF-FH-CC-F-EB01-20190522 (Lab ID: 40189621002)
- CUF-FH-CC-F-EB01-20190524 (Lab ID: 40189621003)

H3: Sample was received or analysis requested beyond the recognized method holding time.

- CUF-FH-LB-F-EB01-20190509 (Lab ID: 40189621001)

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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## ANALYTICAL RESULTS

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

**Sample:** CUF-FH-LB-F-EB01-20190509 **Lab ID:** 40189621001 **Collected:** 05/09/19 10:35 **Received:** 06/18/19 09:05 **Matrix:** Tissue

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.016	mg/kg	0.10	0.016	1	06/28/19 10:01	07/02/19 18:30	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	06/28/19 10:01	07/02/19 18:30	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	06/28/19 10:01	07/02/19 18:30	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:30	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	06/28/19 10:01	07/02/19 18:30	7440-42-8	
Cadmium	<0.014	mg/kg	0.10	0.014	1	06/28/19 10:01	07/02/19 18:30	7440-43-9	
Calcium	<25.4	mg/kg	84.7	25.4	1	06/28/19 10:01	07/02/19 18:30	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	06/28/19 10:01	07/02/19 18:30	7440-47-3	
Cobalt	<0.0082	mg/kg	0.10	0.0082	1	06/28/19 10:01	07/02/19 18:30	7440-48-4	
Copper	<0.28	mg/kg	0.95	0.28	1	06/28/19 10:01	07/02/19 18:30	7440-50-8	
Lead	<0.026	mg/kg	0.087	0.026	1	06/28/19 10:01	07/02/19 18:30	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	06/28/19 10:01	07/02/19 18:30	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	06/28/19 10:01	07/02/19 18:30	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	06/28/19 10:01	07/02/19 18:30	7440-02-0	
Selenium	<0.051	mg/kg	0.17	0.051	1	06/28/19 10:01	07/02/19 18:30	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	06/28/19 10:01	07/02/19 18:30	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	06/28/19 10:01	07/02/19 18:30	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	06/28/19 10:01	07/02/19 18:30	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:30	7440-62-2	
Zinc	<1.7	mg/kg	5.7	1.7	1	06/28/19 10:01	07/02/19 18:30	7440-66-6	
<b>7473 Mercury, Tissue</b>									
Analytical Method: EPA 7473									
Mercury	<0.0031	mg/kg	0.020	0.0031	1		06/24/19 17:32	7439-97-6	H3

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## ANALYTICAL RESULTS

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

**Sample:** CUF-FH-CC-F-EB01-20190522 **Lab ID:** 40189621002 **Collected:** 05/22/19 13:10 **Received:** 06/18/19 09:05 **Matrix:** Tissue

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.016	mg/kg	0.10	0.016	1	06/28/19 10:01	07/02/19 18:37	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	06/28/19 10:01	07/02/19 18:37	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	06/28/19 10:01	07/02/19 18:37	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:37	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	06/28/19 10:01	07/02/19 18:37	7440-42-8	
Cadmium	<0.014	mg/kg	0.10	0.014	1	06/28/19 10:01	07/02/19 18:37	7440-43-9	
Calcium	<25.4	mg/kg	84.7	25.4	1	06/28/19 10:01	07/02/19 18:37	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	06/28/19 10:01	07/02/19 18:37	7440-47-3	
Cobalt	<0.0082	mg/kg	0.10	0.0082	1	06/28/19 10:01	07/02/19 18:37	7440-48-4	
Copper	<0.28	mg/kg	0.95	0.28	1	06/28/19 10:01	07/02/19 18:37	7440-50-8	
Lead	<0.026	mg/kg	0.087	0.026	1	06/28/19 10:01	07/02/19 18:37	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	06/28/19 10:01	07/02/19 18:37	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	06/28/19 10:01	07/02/19 18:37	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	06/28/19 10:01	07/02/19 18:37	7440-02-0	
Selenium	<0.051	mg/kg	0.17	0.051	1	06/28/19 10:01	07/02/19 18:37	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	06/28/19 10:01	07/02/19 18:37	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	06/28/19 10:01	07/02/19 18:37	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	06/28/19 10:01	07/02/19 18:37	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:37	7440-62-2	
Zinc	<1.7	mg/kg	5.7	1.7	1	06/28/19 10:01	07/02/19 18:37	7440-66-6	
<b>7473 Mercury, Tissue</b>									
Analytical Method: EPA 7473									
Mercury	<0.0031	mg/kg	0.020	0.0031	1		06/24/19 18:24	7439-97-6	H1

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## ANALYTICAL RESULTS

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

**Sample:** CUF-FH-CC-F-EB01-20190524 **Lab ID:** 40189621003 **Collected:** 05/24/19 08:55 **Received:** 06/18/19 09:05 **Matrix:** Tissue

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.016	mg/kg	0.10	0.016	1	06/28/19 10:01	07/02/19 18:45	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	06/28/19 10:01	07/02/19 18:45	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	06/28/19 10:01	07/02/19 18:45	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:45	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	06/28/19 10:01	07/02/19 18:45	7440-42-8	
Cadmium	<0.014	mg/kg	0.10	0.014	1	06/28/19 10:01	07/02/19 18:45	7440-43-9	
Calcium	<25.4	mg/kg	84.7	25.4	1	06/28/19 10:01	07/02/19 18:45	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	06/28/19 10:01	07/02/19 18:45	7440-47-3	
Cobalt	<0.0082	mg/kg	0.10	0.0082	1	06/28/19 10:01	07/02/19 18:45	7440-48-4	
Copper	<0.28	mg/kg	0.95	0.28	1	06/28/19 10:01	07/02/19 18:45	7440-50-8	
Lead	<0.026	mg/kg	0.087	0.026	1	06/28/19 10:01	07/02/19 18:45	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	06/28/19 10:01	07/02/19 18:45	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	06/28/19 10:01	07/02/19 18:45	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	06/28/19 10:01	07/02/19 18:45	7440-02-0	
Selenium	<0.051	mg/kg	0.17	0.051	1	06/28/19 10:01	07/02/19 18:45	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	06/28/19 10:01	07/02/19 18:45	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	06/28/19 10:01	07/02/19 18:45	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	06/28/19 10:01	07/02/19 18:45	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	06/28/19 10:01	07/02/19 18:45	7440-62-2	
Zinc	<1.7	mg/kg	5.7	1.7	1	06/28/19 10:01	07/02/19 18:45	7440-66-6	
<b>7473 Mercury, Tissue</b> Analytical Method: EPA 7473									
Mercury	<0.0031	mg/kg	0.020	0.0031	1		06/24/19 18:36	7439-97-6	H1

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## QUALITY CONTROL DATA

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

QC Batch:	325348	Analysis Method:	EPA 7473
QC Batch Method:	EPA 7473	Analysis Description:	7473 Mercury
Associated Lab Samples: 40189621001, 40189621002, 40189621003			

METHOD BLANK: 1889472 Matrix: Tissue

Associated Lab Samples: 40189621001, 40189621002, 40189621003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0032	0.020	0.0032	06/24/19 12:49	

LABORATORY CONTROL SAMPLE & LCSD: 1889473

1889474

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.25	0.29	0.29	114	113	80-120	1	20	

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## QUALITY CONTROL DATA

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

QC Batch: 325786 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET TISSUE  
Associated Lab Samples: 40189621001, 40189621002, 40189621003

METHOD BLANK: 1891435 Matrix: Tissue

Associated Lab Samples: 40189621001, 40189621002, 40189621003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.016	0.10	0.016	07/02/19 17:54	
Arsenic	mg/kg	<0.030	0.10	0.030	07/02/19 17:54	
Barium	mg/kg	<0.031	0.10	0.031	07/02/19 17:54	
Beryllium	mg/kg	<0.033	0.11	0.033	07/02/19 17:54	
Boron	mg/kg	<0.70	2.3	0.70	07/02/19 17:54	
Cadmium	mg/kg	<0.014	0.10	0.014	07/02/19 17:54	
Calcium	mg/kg	<25.4	84.7	25.4	07/02/19 17:54	
Chromium	mg/kg	<0.088	0.29	0.088	07/02/19 17:54	
Cobalt	mg/kg	<0.0082	0.10	0.0082	07/02/19 17:54	
Copper	mg/kg	<0.28	0.95	0.28	07/02/19 17:54	
Lead	mg/kg	<0.026	0.087	0.026	07/02/19 17:54	
Lithium	mg/kg	<0.021	0.10	0.021	07/02/19 17:54	
Molybdenum	mg/kg	<0.036	0.12	0.036	07/02/19 17:54	
Nickel	mg/kg	<0.041	0.14	0.041	07/02/19 17:54	
Selenium	mg/kg	<0.051	0.17	0.051	07/02/19 17:54	
Silver	mg/kg	<0.011	0.050	0.011	07/02/19 17:54	
Strontium	mg/kg	<0.16	0.54	0.16	07/02/19 17:54	
Thallium	mg/kg	<0.013	0.10	0.013	07/02/19 17:54	
Vanadium	mg/kg	<0.033	0.11	0.033	07/02/19 17:54	
Zinc	mg/kg	<1.7	5.7	1.7	07/02/19 17:54	

LABORATORY CONTROL SAMPLE & LCSD: 1891438

1891439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/kg	5	5.7	5.8	114	116	80-120	1	20	
Arsenic	mg/kg	5	5.4	5.5	109	110	80-120	1	20	
Barium	mg/kg	5	5.1	5.2	102	104	80-120	1	20	
Beryllium	mg/kg	5	5.1	5.3	103	106	80-120	3	20	
Boron	mg/kg	10	10.3	10.6	103	106	80-120	3	20	
Cadmium	mg/kg	5	5.4	5.5	108	109	80-120	2	20	
Calcium	mg/kg	250	272	275	109	110	80-120	1	20	
Chromium	mg/kg	5	5.2	5.3	104	105	80-120	1	20	
Cobalt	mg/kg	5	5.1	5.2	102	104	80-120	2	20	
Copper	mg/kg	5	5.2	5.2	105	104	80-120	0	20	
Lead	mg/kg	5	5.1	5.2	101	103	80-120	2	20	
Lithium	mg/kg	5	4.9	5.1	99	102	80-120	3	20	
Molybdenum	mg/kg	5	5.0	5.1	100	102	80-120	2	20	
Nickel	mg/kg	5	5.1	5.2	102	104	80-120	2	20	
Selenium	mg/kg	5	5.7	5.8	115	115	80-120	1	20	
Silver	mg/kg	2.5	2.7	2.7	108	110	80-120	2	20	

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## QUALITY CONTROL DATA

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

LABORATORY CONTROL SAMPLE & LCSD: 1891438			1891439								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Strontium	mg/kg	5	5.2	5.3	105	107	80-120	2	20		
Thallium	mg/kg	5	5.0	5.1	100	101	80-120	2	20		
Vanadium	mg/kg	5	5.2	5.3	105	107	80-120	1	20		
Zinc	mg/kg	20	22.3	22.3	112	112	80-120	0	20		

LABORATORY CONTROL SAMPLE: 1891437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	59.5	72.8	122	80-126	
Cadmium	mg/kg	42.3	41.7	99	80-120	
Chromium	mg/kg	2	0.95	49	13-93	
Cobalt	mg/kg	1.1	1.0	97	80-120	
Copper	mg/kg	497	455	92	77-120	
Lead	mg/kg	0.22	0.21	95	79-120	
Molybdenum	mg/kg	3.4	3.1	89	80-120	
Nickel	mg/kg	5.3	4.4	84	76-120	
Selenium	mg/kg	10.9	12.7	117	80-130	
Strontium	mg/kg	36.5	31.4	86	79-120	
Vanadium	mg/kg	9.1	9.0	99	80-120	
Zinc	mg/kg	136	140	103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 425258 CUMBERLAND FOSSIL PLANT  
Pace Project No.: 40189621

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 425258 CUMBERLAND FOSSIL PLANT

Pace Project No.: 40189621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189621001	CUF-FH-LB-F-EB01-20190509	EPA 3050B	325786	EPA 6020	326094
40189621002	CUF-FH-CC-F-EB01-20190522	EPA 3050B	325786	EPA 6020	326094
40189621003	CUF-FH-CC-F-EB01-20190524	EPA 3050B	325786	EPA 6020	326094
40189621001	CUF-FH-LB-F-EB01-20190509	EPA 7473	325348		
40189621002	CUF-FH-CC-F-EB01-20190522	EPA 7473	325348		
40189621003	CUF-FH-CC-F-EB01-20190524	EPA 7473	325348		

## REPORT OF LABORATORY ANALYSIS

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## Chain-of-Custody / Analytical Request Document

**Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate**

COOLER No.:	1	of	1
COC No:	CUF_FH 20190509_1A		
1 of 1 Pages			
Task Desc:	CUF_FH		

<b>Required Sample Information</b>	
Sampler: Tyler Baler	
Sampling Company: TVA	
Address: TVA Chickamauga Power Service Center, 4601 N. Access Road	
City/State: Chattanooga, TN	Phone: 423-676-6733
Sampling Team Number: 1	
Send EDD/Hard Copy to: lva-e@envsld.com	
Analysis Turnaround Time	
<input type="checkbox"/> CALIBROR DMS	TAT if different from Below _____
<input checked="" type="checkbox"/> PROSOLIC DMS	
<input type="checkbox"/> 24 Hours	
<input type="checkbox"/> 3 Business Days	
<input type="checkbox"/> 5 Business Days	
<input checked="" type="checkbox"/> 10 Business Days (Standard)	

[illegible]

ITEMS #									
SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Start Depth	End Depth	MATRIX C G= GRAB C=	SAMPLE T	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.
CUF-FH-LB-F-EB01-20190509	NA	NA	NA	AQ G	EB	5/9/2019	10:35	1	001
CUF-FH-CC-F-EB01-20190522	NA	NA	NA	AQ G	EB	5/22/2019	13:10	1	002
CUF-FH-CC-F-EB01-20190524	NA	NA	NA	AQ G	EB	5/24/2019	8:55	1	003
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RELINQUISHED BY / AFFILIATION

*Zden Buben / TV4*

6-17-19 1505 Duane St  
Office

John Doe

[illegible]

SHIPPING METHOD:

SAMPLER NAME AND SIGNATURE

Fedex

Tyler Baker

Client Name:

TVH

## Sample Preservation Receipt Form

Project #

40189621

All containers needing preservation have been checked and noted below: ☒ Yes ☐ No ☐ N/A

Lab Lot# of pH paper:

10453581

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SKU Date/Time:Pace Analytical Services, LLC  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302


Page 6 of 17

Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T
001																															2.5/5/10
002																															2.5/5/10
003																															2.5/5/10
004																															2.5/5/10
005																															2.5/5/10
006																															2.5/5/10
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017																															2.5/5/10
018																															2.5/5/10
019																															2.5/5/10
020																															2.5/5/10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&amp;G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (<6mm): ☒ Yes ☐ No ☐ N/A \*If yes look in headspace column

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascobic	JGFU	4 oz amber jar unpres	WGFU	4 oz clear jar unpres	WPFU	4 oz plastic jar unpres	SP5T	120 mL plastic Na Thiosulfate
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres	WPFU	4 oz plastic jar unpres	SP5T	120 mL plastic Na Thiosulfate	ZPLC	ziploc bag
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres	SP5T	120 mL plastic Na Thiosulfate	ZPLC	ziploc bag	GN:	
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL	SP5T	120 mL plastic Na Thiosulfate	ZPLC	ziploc bag	GN:			
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH								
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI								
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4										

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Client Name: TVA Project #: WO# : 40189621

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco  
☐ Client ☐ Pace Other: \_\_\_\_\_

Tracking #: 787940113068

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No  
 Custody Seal on Samples Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No  
 Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Thermometer Used SR - 9 Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.5 / Corr: 2

Temp Blank Present: ☐ yes ☒ no Biological Tissue is Frozen: ☐ yes ☐ no

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C.

Person examining contents:  
 Date: 6-18-19  
 Initials: SLW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments ☐

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Project Manager Review: AL for TN

Date: 6/18/19



## CASE NARRATIVE - METALS ANALYSIS

**Lab Report Number (SDG):** 40189621

**Client:** TENNESSEE VALLEY AUTHORITY

**Project Name:** CUMBERLAND FOSSIL PLANT

**Project Number:** 425258

### 1. RECEIPT

Samples were received on ice at 2°C. Sample CUF-FH-LB-F-EB01-20190509 for the 7473 analysis was received past hold time and the "H3" data qualifier applied to the final report.

### 2. HOLDING TIMES

- A. Sample Preparation:** All method required holding times were met.
- B. Sample Analysis:** All method required holding times were met with the following exception. Samples CUF-FH-CC-F-EB01-20190522 and CUF-FH-CC-F-EB01-20190524 for the 7473 analysis was analyzed past holding time and the "H1" data qualifier applied to the final report.

### 3. METHOD

**Preparation:** SW846 3050B, 7473

**Analysis:** SW846 6020, 7473

### 4. PREPARATION

Sample preparation proceeded normally. Although the samples in this SDG were blanks consisting of water, the samples were prepared per the client's instructions as if they were tissue samples.

### 5. ANALYSIS

- A. Calibration:**
  - 1. Initial verification:** All method acceptance criteria were met.
  - 2. Continuing verification:** All method acceptance criteria were met.
  - 3. Reporting limit verification (CRDL):** All method acceptance criteria were met. Due to software limitations, the percent recovery for Calcium, Copper and Strontium are based on the water reporting limits rather than the tissue reporting limits and appear to recover two (Ca) and five (Cu,Sr) times higher than the true value.
- B. Blanks:**
  - 1. Initial calibration:** All method acceptance criteria were met.
  - 2. Continuing calibration:** All method acceptance criteria were met.
  - 3. Method:** All project specific acceptance criteria were met.
  - 4. Chicken:** A chicken blank is prepared and analyzed with each sample batch to determine the background contamination levels of the chicken used for the laboratory control spike (LCS). The chicken blank is analyzed down to the laboratory MDL. Calcium, Copper, Nickel, Selenium, and Zinc were detected at a level above the MDL in the chicken blank. The chicken blank results for these analytes were subtracted from the associated LCS results prior to calculating the percent recovery of the spike.
- C. Spikes:**
  - 1. Lab Control Spike / Duplicate (LCS/LCSD):** The associated LCS/LCSD met all in-house accuracy and precision criteria.
  - 2. SRM:** A Standard Reference Material was analyzed with this analytical batch.
  - 3. Matrix Spike / Duplicate (MS/MSD):** A batch MS/MSD pair was not performed with the 7473 or 6020 samples due to insufficient sample volume submitted to the laboratory. A LCS and LCSD were performed to demonstrate analytical accuracy and precision.
- D. Sample Duplicates:** Not applicable.
- E. Internal Standards:** All in-house acceptance criteria were met for the internal standards used for quantification.



- F. **ICPMS Interference Check Samples:** All acceptance criteria were met.
- G. **Samples:** Sample analyses proceeded normally.
- H. **Dilutions:** None required for this SDG.
- I. **Reanalysis:** None required for this SDG.
- J. **Comments:** No additional comments are needed.

I certify that this data package is in compliance, with the terms and conditions agreed to by **Pace Analytical Services, LLC** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this completed data package:

Signed: Jill A. Duranceau Date: 07/03/19  
Name: Jill A Duranceau Position: Quality Assurance Auditor

FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-LB-F-EB01-  
20190509

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621001 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.016	U	mg/kg	1	07/02/2019 18:30
7440-38-2	Arsenic	<0.030	U	mg/kg	1	07/02/2019 18:30
7440-39-3	Barium	<0.031	U	mg/kg	1	07/02/2019 18:30
7440-41-7	Beryllium	<0.033	U	mg/kg	1	07/02/2019 18:30
7440-42-8	Boron	<0.70	U	mg/kg	1	07/02/2019 18:30
7440-43-9	Cadmium	<0.014	U	mg/kg	1	07/02/2019 18:30
7440-70-2	Calcium	<25.4	U	mg/kg	1	07/02/2019 18:30
7440-47-3	Chromium	<0.088	U	mg/kg	1	07/02/2019 18:30
7440-48-4	Cobalt	<0.0082	U	mg/kg	1	07/02/2019 18:30
7440-50-8	Copper	<0.28	U	mg/kg	1	07/02/2019 18:30
7439-92-1	Lead	<0.026	U	mg/kg	1	07/02/2019 18:30
7439-93-2	Lithium	<0.021	U	mg/kg	1	07/02/2019 18:30
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	07/02/2019 18:30
7440-02-0	Nickel	<0.041	U	mg/kg	1	07/02/2019 18:30
7782-49-2	Selenium	<0.051	U	mg/kg	1	07/02/2019 18:30
7440-22-4	Silver	<0.011	U	mg/kg	1	07/02/2019 18:30
7440-24-6	Strontium	<0.16	U	mg/kg	1	07/02/2019 18:30
7440-28-0	Thallium	<0.013	U	mg/kg	1	07/02/2019 18:30
7440-62-2	Vanadium	<0.033	U	mg/kg	1	07/02/2019 18:30
7440-66-6	Zinc	<1.7	U	mg/kg	1	07/02/2019 18:30

FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-EB01-  
20190522

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621002 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.016	U	mg/kg	1	07/02/2019 18:37
7440-38-2	Arsenic	<0.030	U	mg/kg	1	07/02/2019 18:37
7440-39-3	Barium	<0.031	U	mg/kg	1	07/02/2019 18:37
7440-41-7	Beryllium	<0.033	U	mg/kg	1	07/02/2019 18:37
7440-42-8	Boron	<0.70	U	mg/kg	1	07/02/2019 18:37
7440-43-9	Cadmium	<0.014	U	mg/kg	1	07/02/2019 18:37
7440-70-2	Calcium	<25.4	U	mg/kg	1	07/02/2019 18:37
7440-47-3	Chromium	<0.088	U	mg/kg	1	07/02/2019 18:37
7440-48-4	Cobalt	<0.0082	U	mg/kg	1	07/02/2019 18:37
7440-50-8	Copper	<0.28	U	mg/kg	1	07/02/2019 18:37
7439-92-1	Lead	<0.026	U	mg/kg	1	07/02/2019 18:37
7439-93-2	Lithium	<0.021	U	mg/kg	1	07/02/2019 18:37
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	07/02/2019 18:37
7440-02-0	Nickel	<0.041	U	mg/kg	1	07/02/2019 18:37
7782-49-2	Selenium	<0.051	U	mg/kg	1	07/02/2019 18:37
7440-22-4	Silver	<0.011	U	mg/kg	1	07/02/2019 18:37
7440-24-6	Strontium	<0.16	U	mg/kg	1	07/02/2019 18:37
7440-28-0	Thallium	<0.013	U	mg/kg	1	07/02/2019 18:37
7440-62-2	Vanadium	<0.033	U	mg/kg	1	07/02/2019 18:37
7440-66-6	Zinc	<1.7	U	mg/kg	1	07/02/2019 18:37



FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-EB01-  
20190524

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621003 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.016	U	mg/kg	1	07/02/2019 18:45
7440-38-2	Arsenic	<0.030	U	mg/kg	1	07/02/2019 18:45
7440-39-3	Barium	<0.031	U	mg/kg	1	07/02/2019 18:45
7440-41-7	Beryllium	<0.033	U	mg/kg	1	07/02/2019 18:45
7440-42-8	Boron	<0.70	U	mg/kg	1	07/02/2019 18:45
7440-43-9	Cadmium	<0.014	U	mg/kg	1	07/02/2019 18:45
7440-70-2	Calcium	<25.4	U	mg/kg	1	07/02/2019 18:45
7440-47-3	Chromium	<0.088	U	mg/kg	1	07/02/2019 18:45
7440-48-4	Cobalt	<0.0082	U	mg/kg	1	07/02/2019 18:45
7440-50-8	Copper	<0.28	U	mg/kg	1	07/02/2019 18:45
7439-92-1	Lead	<0.026	U	mg/kg	1	07/02/2019 18:45
7439-93-2	Lithium	<0.021	U	mg/kg	1	07/02/2019 18:45
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	07/02/2019 18:45
7440-02-0	Nickel	<0.041	U	mg/kg	1	07/02/2019 18:45
7782-49-2	Selenium	<0.051	U	mg/kg	1	07/02/2019 18:45
7440-22-4	Silver	<0.011	U	mg/kg	1	07/02/2019 18:45
7440-24-6	Strontium	<0.16	U	mg/kg	1	07/02/2019 18:45
7440-28-0	Thallium	<0.013	U	mg/kg	1	07/02/2019 18:45
7440-62-2	Vanadium	<0.033	U	mg/kg	1	07/02/2019 18:45
7440-66-6	Zinc	<1.7	U	mg/kg	1	07/02/2019 18:45



FORM II INORGANIC-1  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: 229187

Continuing Calibration Verification Source: 229410

Concentration Units: ug/L Instrument ID: 40ICM2

	Initial Calibration Verification				Continuing Calibration Verification						
	07/02/2019 16:56				07/02/2019 17:40			07/02/2019 19:06			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Antimony	110	117	106.3	90-110	100	105	105.3	100	105	104.7	90-110
Arsenic	110	110	99.7	90-110	100	102	102.0	100	102	101.9	90-110
Barium	110	111	100.6	90-110	100	99.1	99.1	100	99.5	99.5	90-110
Beryllium	110	116	105.6	90-110	100	101	101.3	100	104	103.5	90-110
Boron	110	117	106.0	90-110	100	99.9	99.9	100	102	102.4	90-110
Cadmium	110	113	102.7	90-110	100	103	103.4	100	103	103.3	90-110
Calcium	5500	5790	105.3	90-110	5000	4880	97.7	5000	5050	101.1	90-110
Chromium	110	112	101.4	90-110	100	101	101.4	100	102	102.3	90-110
Cobalt	110	110	100.5	90-110	100	100	100.5	100	100	100.5	90-110
Copper	110	112	101.5	90-110	100	102	102.4	100	102	102.1	90-110
Lead	110	110	100.3	90-110	100	101	100.6	100	98.7	98.7	90-110
Lithium	110	113	102.5	90-110	100	99.6	99.6	100	101	100.7	90-110
Molybdenum	110	104	94.4	90-110	100	100	100.4	100	101	100.6	90-110
Nickel	110	110	100.4	90-110	100	102	102.1	100	101	100.9	90-110
Selenium	110	111	101.0	90-110	100	99.9	99.9	100	100	100.2	90-110
Silver	55	57.3	104.1	90-110	50	52.6	105.2	50	52.7	105.3	90-110
Strontium	110	112	102.0	90-110	100	101	101.1	100	101	100.7	90-110
Thallium	110	108	98.5	90-110	100	99.9	99.9	100	99.6	99.6	90-110
Vanadium	110	112	101.5	90-110	100	100	100.1	100	101	101.4	90-110
Zinc	110	115	104.8	90-110	100	104	104.1	100	103	102.8	90-110

FORM II INORGANIC-2  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: \_\_\_\_\_

Continuing Calibration Verification Source: 229410

Concentration Units: ug/L Instrument ID: 40ICM2

	Continuing Calibration Verification						
	07/02/2019 20:26			07/02/2019 21:09			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Antimony	100	106	105.7	100	105	105.4	90-110
Arsenic	100	102	102.1	100	101	101.0	90-110
Barium	100	99.2	99.2	100	99.3	99.3	90-110
Beryllium	100	95.7	95.7	100	97.4	97.4	90-110
Boron	100	95.5	95.5	100	100	100.0	90-110
Cadmium	100	104	104.4	100	105	104.8	90-110
Calcium	5000	5030	100.6	5000	5210	104.2	90-110
Chromium	100	102	102.4	100	102	102.0	90-110
Cobalt	100	102	101.5	100	100	100.4	90-110
Copper	100	104	103.6	100	102	102.4	90-110
Lead	100	100	100.2	100	99.9	99.9	90-110
Lithium	100	94.4	94.4	100	99.0	99.0	90-110
Molybdenum	100	102	101.9	100	102	102.2	90-110
Nickel	100	103	102.7	100	102	102.4	90-110
Selenium	100	98.1	98.1	100	99.2	99.2	90-110
Silver	50	53.5	107.0	50	53.6	107.3	90-110
Strontium	100	101	100.9	100	101	100.6	90-110
Thallium	100	101	101.1	100	101	100.9	90-110
Vanadium	100	101	101.0	100	101	100.7	90-110
Zinc	100	104	103.7	100	103	103.3	90-110

FORM II INORGANIC-1  
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

CRDL Check Standard Source: 229405 Analysis Date/Time: 07/02/2019 17:11

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.1	106.2	70-130
Arsenic	1.0	1.1	105.2	70-130
Barium	1.0	1.0	105.0	70-130
Beryllium	1.0	1.1	107.9	70-130
Cadmium	1.0	1.0	104.3	70-130
Chromium	1.0	1.1	105.7	70-130
Cobalt	1.0	1.0	102.9	70-130
Lead	1.0	1.1	106.3	70-130
Lithium	1.0	1.0	100.6	70-130
Molybdenum	1.0	1.1	105.7	70-130
Nickel	1.0	1.1	108.4	70-130
Selenium	1.0	0.75	75.1	70-130
Silver	0.5	0.54	108.8	70-130
Thallium	1.0	1.1	106.7	70-130
Vanadium	1.0	1.0	101.5	70-130

FORM II INORGANIC-1  
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

CRDL Check Standard Source: 229406 Analysis Date/Time: 07/02/2019 17:18

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.6	112.9	70-130
Calcium	250	470	188.1	70-130
Copper	1.0	5.1	509.2	70-130
Strontium	1.0	5.1	514.0	70-130
Zinc	5.0	5.0	99.1	70-130

FORM II INORGANIC-1  
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

CRDL Check Standard Source: 229405 Analysis Date/Time: 07/02/2019 20:40

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.1	106.8	70-130
Arsenic	1.0	1.1	105.9	70-130
Barium	1.0	1.0	100.8	70-130
Beryllium	1.0	1.1	105.6	70-130
Cadmium	1.0	1.1	106.6	70-130
Chromium	1.0	1.0	104.7	70-130
Cobalt	1.0	1.0	103.9	70-130
Lead	1.0	0.99	99.0	70-130
Lithium	1.0	1.0	102.8	70-130
Molybdenum	1.0	1.1	106.4	70-130
Nickel	1.0	1.0	104.3	70-130
Selenium	1.0	0.84	83.6	70-130
Silver	0.5	0.55	109.4	70-130
Thallium	1.0	1.0	99.9	70-130
Vanadium	1.0	1.1	105.6	70-130

FORM II INORGANIC-1  
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

CRDL Check Standard Source: 229406 Analysis Date/Time: 07/02/2019 20:47

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.1	101.5	70-130
Calcium	250	519	207.7	70-130
Copper	1.0	5.2	522.9	70-130
Strontium	1.0	5.1	505.9	70-130
Zinc	5.0	4.7	94.8	70-130

FORM III INORGANIC-1  
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract : 425258 CUMBERLAND FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40ICM2

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	07/02/2019 17:03	C	07/02/2019 17:47	C	07/02/2019 19:13	C	07/02/2019 20:33	C	1891435	C
Antimony	0.16	U	0.16	U	0.16	U	0.16	U	<0.016	U
Arsenic	0.14	U	0.14	U	0.14	U	0.14	U	<0.030	U
Barium	0.38	U	0.38	U	0.38	U	0.38	U	<0.031	U
Beryllium	0.22	U	0.22	U	0.22	U	0.22	U	<0.033	U
Boron	1.7	U	1.7	U	1.7	U	1.7	U	<0.70	U
Cadmium	0.10	U	0.10	U	0.10	U	0.10	U	<0.014	U
Calcium	500	U	500	U	500	U	500	U	<25.4	U
Chromium	1.4	U	1.4	U	1.4	U	1.4	U	<0.088	U
Cobalt	0.10	U	0.10	U	0.10	U	0.10	U	<0.0082	U
Copper	0.64	U	0.64	U	0.64	U	0.64	U	<0.28	U
Lead	0.29	U	0.29	U	0.29	U	0.29	U	<0.026	U
Lithium	1.0	U	1.0	U	1.0	U	1.0	U	<0.021	U
Molybdenum	0.13	U	0.23		0.13	U	0.13	U	<0.036	U
Nickel	0.65	U	0.65	U	0.65	U	0.65	U	<0.041	U
Selenium	0.81	U	0.81	U	0.81	U	0.81	U	<0.051	U
Silver	0.018		0.014		0.014	U	0.014	U	<0.011	U
Strontium	0.24	U	0.24	U	0.24	U	0.24	U	<0.16	U
Thallium	0.11	U	0.11	U	0.11	U	0.11	U	<0.013	U
Vanadium	0.40	U	0.40	U	0.40	U	0.40	U	<0.033	U
Zinc	18.9	U	18.9	U	18.9	U	18.9	U	<1.7	U

FORM III INORGANIC-2  
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract : 425258 CUMBERLAND FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40ICM2

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)						Tissue Blank	
		C	07/02/2019 21:16	C		C		C	1891436	C
Antimony			0.16	U					<0.016	U
Arsenic			0.14	U					<0.030	U
Barium			0.38	U					<0.031	U
Beryllium			0.22	U					<0.033	U
Boron			1.7	U					<0.70	U
Cadmium			0.10	U					<0.014	U
Calcium			500	U					39.5	J
Chromium			1.4	U					<0.088	U
Cobalt			0.10	U					<0.0082	U
Copper			0.64	U					0.31	J
Lead			0.29	U					<0.026	U
Lithium			1.0	U					<0.021	U
Molybdenum			0.13	U					<0.036	U
Nickel			0.65	U					0.044	J
Selenium			0.81	U					0.13	J
Silver			0.014	U					<0.011	U
Strontium			0.24	U					<0.16	U
Thallium			0.11	U					<0.013	U
Vanadium			0.40	U					<0.033	U
Zinc			18.9	U					6.8	



FORM IV INORGANIC-1  
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40ICM2

Solution A Run Date: 07/02/2019 17:25

ICS Source: 229411,229412

Solution AB Run Date: 07/02/2019 17:32

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	50850	101.7	50300	100.6	80-120
Antimony		100	0.109		106.1	106.1	80-120
Arsenic		100	0.093		107.5	107.5	80-120
Barium		100	0.127		101.6	101.6	80-120
Beryllium		100	0.029		97.89	97.9	80-120
Boron		100	0.811		98.62	98.6	80-120
Cadmium		100	0.021		102.5	102.5	80-120
Calcium	50000	50000	49430	98.9	50070	100.1	80-120
Chromium		100	0.162		104.2	104.2	80-120
Cobalt		100	0.062		102.2	102.2	80-120
Copper		100	0.177		101.7	101.7	80-120
Iron	50000	50000	51880	103.8	51430	102.9	80-120
Lead		100	0.077		105.6	105.6	80-120
Lithium		100	0.27		98.39	98.4	80-120
Magnesium	50000	50000	50810	101.6	50700	101.4	80-120
Molybdenum	1000	1100	1027	102.7	1153	104.8	80-120
Nickel		100	0.05		101.2	101.2	80-120
Phosphorus	50000	55000	52500	105	56510	102.7	80-120
Potassium	50000	50000	52080	104.2	51610	103.2	80-120
Selenium		100	-0.072		106.3	106.3	80-120
Silver		50	0.019		50.68	101.4	80-120
Sodium	50000	50000	51090	102.2	51090	102.2	80-120
Strontium		100	0.441		105.7	105.7	80-120
Thallium		100	0.046		105.4	105.4	80-120
Titanium	1000	1100	1032	103.2	1128	102.5	80-120
Vanadium		100	-0.048		103.8	103.8	80-120
Zinc		100	-0.498		108.9	108.9	80-120

FORM IV INORGANIC-2  
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40ICM2

Solution A Run Date: 07/02/2019 20:55

ICS Source: 229411,229412

Solution AB Run Date: 07/02/2019 21:02

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	51470	102.9	51660	103.3	80-120
Antimony		100	0.066		106.5	106.5	80-120
Arsenic		100	0.042		106.1	106.1	80-120
Barium		100	0.099		100.2	100.2	80-120
Beryllium		100	0.007		95.17	95.2	80-120
Boron		100	0.44		96.14	96.1	80-120
Cadmium		100	-0.02		103.5	103.5	80-120
Calcium	50000	50000	49340	98.7	49620	99.2	80-120
Chromium		100	0.137		104.4	104.4	80-120
Cobalt		100	0.011		102.5	102.5	80-120
Copper		100	0.135		101.2	101.2	80-120
Iron	50000	50000	52630	105.3	52400	104.8	80-120
Lead		100	0.032		105.3	105.3	80-120
Lithium		100	0.229		96.52	96.5	80-120
Magnesium	50000	50000	51050	102.1	51860	103.7	80-120
Molybdenum	1000	1100	1078	107.8	1179	107.2	80-120
Nickel		100	0.026		101.3	101.3	80-120
Phosphorus	50000	55000	52140	104.3	56710	103.1	80-120
Potassium	50000	50000	52640	105.3	52610	105.2	80-120
Selenium		100	-0.188		102.7	102.7	80-120
Silver		50	0.002		51.18	102.4	80-120
Sodium	50000	50000	52430	104.9	53040	106.1	80-120
Strontium		100	0.426		104.6	104.6	80-120
Thallium		100	-0.008		105.5	105.5	80-120
Titanium	1000	1100	1028	102.8	1125	102.3	80-120
Vanadium		100	0.001		103.8	103.8	80-120
Zinc		100	-0.861		108.1	108.1	80-120

FORM VI INORGANIC-1  
 DUPLICATES

SAMPLE NO.

1891439LCSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue Concentration Units: mg/kg

Percent Moisture:                      Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	5.7	5.8	1
Arsenic	20	5.4	5.5	1
Barium	20	5.1	5.2	1
Beryllium	20	5.1	5.3	3
Boron	20	10.3	10.6	3
Cadmium	20	5.4	5.5	2
Calcium	20	272	275	1
Chromium	20	5.2	5.3	1
Cobalt	20	5.1	5.2	2
Copper	20	5.2	5.2	0
Lead	20	5.1	5.2	2
Lithium	20	4.9	5.1	3
Molybdenum	20	5.0	5.1	2
Nickel	20	5.1	5.2	2
Selenium	20	5.7	5.8	1
Silver	20	2.7	2.7	2
Strontium	20	5.2	5.3	2
Thallium	20	5.0	5.1	2
Vanadium	20	5.2	5.3	1
Zinc	20	22.3	22.3	0

FORM VII INORGANIC-1  
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1891437SRM

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Arsenic	mg/kg	59.5	72.8	122	80	126
Cadmium	mg/kg	42.3	41.7	99	80	120
Chromium	mg/kg	2.0	0.95	49	13	93
Cobalt	mg/kg	1.1	1.0	97	80	120
Copper	mg/kg	497	455	92	77	120
Lead	mg/kg	0.22	0.21	95	79	120
Molybdenum	mg/kg	3.4	3.1	89	80	120
Nickel	mg/kg	5.3	4.4	84	76	120
Selenium	mg/kg	10.9	12.7	117	80	130
Strontium	mg/kg	36.5	31.4	86	79	120
Vanadium	mg/kg	9.1	9.0	99	80	120
Zinc	mg/kg	136	140	103	80	120

FORM VII INORGANIC-2  
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1891438LCS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	5.0	5.7	114	80	120
Arsenic	mg/kg	5.0	5.4	109	80	120
Barium	mg/kg	5.0	5.1	102	80	120
Beryllium	mg/kg	5.0	5.1	103	80	120
Boron	mg/kg	10.0	10.3	103	80	120
Cadmium	mg/kg	5.0	5.4	108	80	120
Calcium	mg/kg	250	272	109	80	120
Chromium	mg/kg	5.0	5.2	104	80	120
Cobalt	mg/kg	5.0	5.1	102	80	120
Copper	mg/kg	5.0	5.2	105	80	120
Lead	mg/kg	5.0	5.1	101	80	120
Lithium	mg/kg	5.0	4.9	99	80	120
Molybdenum	mg/kg	5.0	5.0	100	80	120
Nickel	mg/kg	5.0	5.1	102	80	120
Selenium	mg/kg	5.0	5.7	115	80	120
Silver	mg/kg	2.5	2.7	108	80	120
Strontium	mg/kg	5.0	5.2	105	80	120
Thallium	mg/kg	5.0	5.0	100	80	120
Vanadium	mg/kg	5.0	5.2	105	80	120
Zinc	mg/kg	20.0	22.3	112	80	120

FORM VII INORGANIC-3  
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1891439LCSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	5.0	5.8	116	80	120
Arsenic	mg/kg	5.0	5.5	110	80	120
Barium	mg/kg	5.0	5.2	104	80	120
Beryllium	mg/kg	5.0	5.3	106	80	120
Boron	mg/kg	10.0	10.6	106	80	120
Cadmium	mg/kg	5.0	5.5	109	80	120
Calcium	mg/kg	250	275	110	80	120
Chromium	mg/kg	5.0	5.3	105	80	120
Cobalt	mg/kg	5.0	5.2	104	80	120
Copper	mg/kg	5.0	5.2	104	80	120
Lead	mg/kg	5.0	5.2	103	80	120
Lithium	mg/kg	5.0	5.1	102	80	120
Molybdenum	mg/kg	5.0	5.1	102	80	120
Nickel	mg/kg	5.0	5.2	104	80	120
Selenium	mg/kg	5.0	5.8	115	80	120
Silver	mg/kg	2.5	2.7	110	80	120
Strontium	mg/kg	5.0	5.3	107	80	120
Thallium	mg/kg	5.0	5.1	101	80	120
Vanadium	mg/kg	5.0	5.3	107	80	120
Zinc	mg/kg	20.0	22.3	112	80	120

FORM IX INORGANIC-1  
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Preparation Method: None Instrument ID: 40ICM2

Concentration Units: ug/L

Analyte	PQL	IDL	IDL Date
Antimony	0.16	0.16	12/14/2011
Arsenic	0.14	0.14	12/14/2011
Barium	0.38	0.38	12/14/2011
Beryllium	0.22	0.22	12/14/2011
Boron	1.7	1.7	12/14/2011
Cadmium	0.10	0.10	12/14/2011
Calcium	500	500	12/14/2011
Chromium	1.4	1.4	12/14/2011
Cobalt	0.10	0.10	12/14/2011
Copper	0.64	0.64	12/14/2011
Lead	0.29	0.29	12/14/2011
Lithium	1.0	1.0	12/14/2011
Molybdenum	0.13	0.13	12/14/2011
Nickel	0.65	0.65	12/14/2011
Selenium	0.81	0.81	12/14/2011
Silver	0.014	0.014	12/14/2011
Strontium	0.24	0.24	12/14/2011
Thallium	0.11	0.11	12/14/2011
Vanadium	0.40	0.40	12/14/2011
Zinc	18.9	18.9	12/14/2011

FORM IX INORGANIC-2  
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Preparation Method: EPA 3050B Instrument ID: 40ICM2

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Antimony	0.10	0.016	09/04/2018
Arsenic	0.10	0.030	09/04/2018
Barium	0.10	0.031	09/04/2018
Beryllium	0.11	0.033	09/04/2018
Boron	2.3	0.70	09/04/2018
Cadmium	0.10	0.014	09/04/2018
Calcium	84.7	25.4	09/04/2018
Chromium	0.29	0.088	09/04/2018
Cobalt	0.10	0.0082	09/04/2018
Copper	0.95	0.28	09/04/2018
Lead	0.087	0.026	09/04/2018
Lithium	0.10	0.021	09/04/2018
Molybdenum	0.12	0.036	09/04/2018
Nickel	0.14	0.041	09/04/2018
Selenium	0.17	0.051	09/04/2018
Silver	0.050	0.011	09/04/2018
Strontium	0.54	0.16	09/04/2018
Thallium	0.10	0.013	09/04/2018
Vanadium	0.11	0.033	09/04/2018
Zinc	5.7	1.7	09/04/2018



FORM XI - INORGANIC-1  
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract : 425258 CUMBERLAND  
Instrument ID: 40ICM2 Effective Date:02/06/2017

Analyte	Concentration (ug/L)
Antimony	5000
Arsenic	10000
Barium	10000
Beryllium	5000
Boron	5000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Lead	10000
Lithium	10000
Molybdenum	10000
Nickel	10000
Selenium	10000
Silver	2500
Strontium	10000
Thallium	10000
Vanadium	10000
Zinc	20000

FORM XII INORGANIC-1  
PREPARATION LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Preparation Method: EPA 3050B Batch: MPRP 20481

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
1891435	1891435BLANK	06/28/2019	0.5	50
1891436	1891436SBLK	06/28/2019	0.5	50
1891437	1891437SRM	06/28/2019	0.5	50
1891438	1891438LCS	06/28/2019	0.5	50
1891439	1891439LCSD	06/28/2019	0.5	50
40189621001	CUF-FH-LB-F-EB01-	06/28/2019	0.5	50
40189621002	CUF-FH-CC-F-EB01-	06/28/2019	0.5	50
40189621003	CUF-FH-CC-F-EB01-	06/28/2019	0.5	50

FORM XIII INORGANIC-1  
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40ICM2

Analysis Method: EPA 6020

Start Date: 07/02/2019 16:13

End Date: 07/02/2019 21:16

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Li	Mo	Ni	Pb	Sb	Se
12458704CAL0	12458704CAL0	1	07/02/2019	16:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458705CAL1	12458705CAL1	1	07/02/2019	16:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458706CAL2	12458706CAL2	1	07/02/2019	16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458707CAL3	12458707CAL3	1	07/02/2019	16:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458708CAL4	12458708CAL4	1	07/02/2019	16:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458709CAL5	12458709CAL5	1	07/02/2019	16:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458710ICV	12458710ICV	1	07/02/2019	16:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458711ICB	12458711ICB	1	07/02/2019	17:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458712CRDL	12458712CRDL	1	07/02/2019	17:11	X	X		X	X		X	X	X		X	X	X	X	X	X
12458713CRDL	12458713CRDL	1	07/02/2019	17:18			X			X				X						
12458714ICSA	12458714ICSA	1	07/02/2019	17:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458715ICSAB	12458715ICSAB	1	07/02/2019	17:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458716CCV	12458716CCV	1	07/02/2019	17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458717CCB	12458717CCB	1	07/02/2019	17:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1891435BLANK	1891435	1	07/02/2019	17:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-LB-F-EB01-	40189621001	1	07/02/2019	18:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-F-EB01-	40189621002	1	07/02/2019	18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-F-EB01-	40189621003	1	07/02/2019	18:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458718CCV	12458718CCV	1	07/02/2019	19:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458719CCB	12458719CCB	1	07/02/2019	19:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1891436SBLK	1891436	1	07/02/2019	19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1891438LCS	1891438	1	07/02/2019	19:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1891439LCSD	1891439	1	07/02/2019	20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1891437SRM	1891437	1	07/02/2019	20:18		X					X	X	X	X		X	X	X		X
12458720CCV	12458720CCV	1	07/02/2019	20:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458721CCB	12458721CCB	1	07/02/2019	20:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458722CRDL	12458722CRDL	1	07/02/2019	20:40	X	X		X	X		X	X	X		X	X	X	X	X	X
12458723CRDL	12458723CRDL	1	07/02/2019	20:47			X			X				X						
12458724ICSA	12458724ICSA	1	07/02/2019	20:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458725ICSAB	12458725ICSAB	1	07/02/2019	21:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458726CCV	12458726CCV	1	07/02/2019	21:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12458727CCB	12458727CCB	1	07/02/2019	21:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

FORM XIII INORGANIC-1  
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40ICM2

Analysis Method: EPA 6020

Start Date: 07/02/2019 16:13

End Date: 07/02/2019 21:16

Sample Name	Lab Sample ID	D/F	Date	Time	Sr	TI	V	Zn
12458704CAL0	12458704CAL0	1	07/02/2019	16:13	X	X	X	X
12458705CAL1	12458705CAL1	1	07/02/2019	16:20	X	X	X	X
12458706CAL2	12458706CAL2	1	07/02/2019	16:27	X	X	X	X
12458707CAL3	12458707CAL3	1	07/02/2019	16:34	X	X	X	X
12458708CAL4	12458708CAL4	1	07/02/2019	16:42	X	X	X	X
12458709CAL5	12458709CAL5	1	07/02/2019	16:49	X	X	X	X
12458710ICV	12458710ICV	1	07/02/2019	16:56	X	X	X	X
12458711ICB	12458711ICB	1	07/02/2019	17:03	X	X	X	X
12458712CRDL	12458712CRDL	1	07/02/2019	17:11		X	X	
12458713CRDL	12458713CRDL	1	07/02/2019	17:18	X			X
12458714ICSA	12458714ICSA	1	07/02/2019	17:25	X	X	X	X
12458715ICSAB	12458715ICSAB	1	07/02/2019	17:32	X	X	X	X
12458716CCV	12458716CCV	1	07/02/2019	17:40	X	X	X	X
12458717CCB	12458717CCB	1	07/02/2019	17:47	X	X	X	X
1891435BLANK	1891435	1	07/02/2019	17:54	X	X	X	X
CUF-FH-LB-F-EB01-	40189621001	1	07/02/2019	18:30	X	X	X	X
CUF-FH-CC-F-EB01-	40189621002	1	07/02/2019	18:37	X	X	X	X
CUF-FH-CC-F-EB01-	40189621003	1	07/02/2019	18:45	X	X	X	X
12458718CCV	12458718CCV	1	07/02/2019	19:06	X	X	X	X
12458719CCB	12458719CCB	1	07/02/2019	19:13	X	X	X	X
1891436SBLK	1891436	1	07/02/2019	19:50	X	X	X	X
1891438LCS	1891438	1	07/02/2019	19:57	X	X	X	X
1891439LCSD	1891439	1	07/02/2019	20:04	X	X	X	X
1891437SRM	1891437	1	07/02/2019	20:18	X		X	X
12458720CCV	12458720CCV	1	07/02/2019	20:26	X	X	X	X
12458721CCB	12458721CCB	1	07/02/2019	20:33	X	X	X	X
12458722CRDL	12458722CRDL	1	07/02/2019	20:40		X	X	
12458723CRDL	12458723CRDL	1	07/02/2019	20:47	X			X
12458724ICSA	12458724ICSA	1	07/02/2019	20:55	X	X	X	X
12458725ICSAB	12458725ICSAB	1	07/02/2019	21:02	X	X	X	X
12458726CCV	12458726CCV	1	07/02/2019	21:09	X	X	X	X
12458727CCB	12458727CCB	1	07/02/2019	21:16	X	X	X	X

## Performance Report

### Sample details

Acquired at : 7/2/2019 7:43:41 AM

Report name : EPA 40ICM2 SN 01301C [2/27/2013 1:40:34 PM]

### Mass Calibration verification

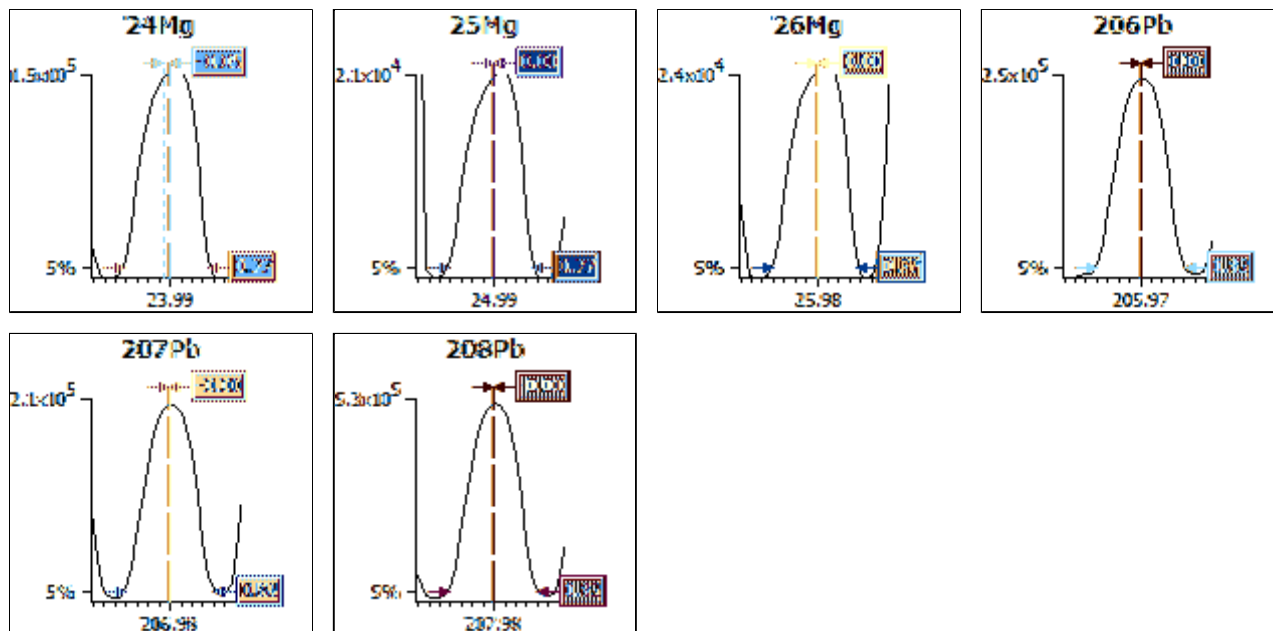
#### Acquisition parameters

Sweeps : 10

Dwell : 10.0 mSecs

Point spacing : 0.05 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
24Mg	0.85	0.65	0.10	0.77	-0.05
25Mg	0.85	0.65	0.10	0.77	0.00
26Mg	0.85	0.65	0.10	0.77	0.00
206Pb	0.85	0.65	0.10	0.82	0.00
207Pb	0.85	0.65	0.10	0.82	-0.00
208Pb	0.85	0.65	0.10	0.82	-0.00

**Sample details**

Acquired at : 7/2/2019 7:43:41 AM

Report name : EPA 40ICM2 SN 01301C [2/27/2013 1:40:34 PM]

**Tune conditions**

Major		Minor		Global		Add. Gases	
Extraction	-137.3	Lens 3	-191.4	Standard resolution	125	CCT-He	0.00
Lens 1	-1231	Forward power	1404	High resolution	60	CCT-He	0.00
Lens 2	-82.4	Horizontal	86	Analogue Detector	1820		
Focus	12.9	Vertical	595	PC Detector	2820		
D1	-41.6	DA	-29.8				
D2	-140	Cool	13.0				
Pole Bias	0.1	Auxiliary	0.70				
Hexapole Bias	-3.5	Sampling Depth	145				
Nebuliser	0.80						

**Sensitivity and stability results****Acquisition parameters**

Sweeps : 35

Run	Time	5Bkg	7Li	24Mg	25Mg	26Mg	59Co	137Ba++	115In	137Ba
Dwell (mSecs)		500.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	2.0%	2.0%	2.0%	2.0%	2.0%	-	2.0%	-
	CountRate	<1	>60000	>10000	>10000	>10000	>150000	-	>400000	-
1	7:44:04 AM	0.000	86196.104	151716.06	21181.126	25123.375	328339.67	2445.882	696093.63	84760.686
2	7:44:49 AM	0.000	87060.281	151260.79	21321.293	25429.522	331214.90	2374.444	687961.71	84459.263
3	7:45:34 AM	0.057	87364.619	151479.78	20863.610	25197.765	335482.02	2374.444	692735.32	84961.638
4	7:46:20 AM	0.057	85975.042	151485.54	20992.332	25466.718	340035.51	2474.457	686967.36	83804.762
5	7:47:06 AM	0.000	86790.401	150747.91	21095.310	24562.596	341843.84	2497.317	685723.76	84938.672
x		0.023	86677.289	151338.02	21090.734	25155.995	335383.19	2433.309	689896.36	84585.004
σ		0.03	582.36	367.07	175.08	362.73	5709.20	56.74	4364.58	480.20
%RSD		136.931	0.672	0.243	0.830	1.442	1.702	2.332	0.633	0.568

Run	Time	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	500.0	10.0
Limits	%RSD	-	-	-	2.0%	2.0%	2.0%	-	2.0%
	CountRate	-	-	-	>10000	>10000	>10000	<1	>800000
1	7:44:04 AM	550269.66	754069.31	12149.846	248227.65	208582.54	518338.12	0.000	1020105.2
2	7:44:49 AM	544617.43	745982.93	11472.255	246582.23	208307.94	515541.75	0.000	997862.62
3	7:45:34 AM	554288.26	752442.81	13279.221	245962.34	211565.90	519632.06	0.114	1017143.2
4	7:46:20 AM	546787.98	740823.23	12890.365	245096.27	208206.77	517335.38	0.000	1021888.7
5	7:47:06 AM	548469.83	745652.40	13270.644	246124.56	207874.36	513633.64	0.057	1007127.4
x		548886.63	747794.13	12612.466	246398.61	208907.50	516896.19	0.034	1012825.4
σ		3670.65	5418.69	785.67	1155.49	1507.53	2357.74	0.05	10125.90
%RSD		0.669	0.725	6.229	0.469	0.722	0.456	149.071	1.000

**Ratio results**

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0200
1	7:44:04 AM	0.029	0.016
2	7:44:49 AM	0.028	0.015
3	7:45:34 AM	0.028	0.018
4	7:46:20 AM	0.030	0.017
5	7:47:06 AM	0.029	0.018
x		0.0288	0.0169
σ		0.00	0.00
%RSD		2.5104	6.3192

Result : The performance report passed.

## Performance Report

### Sample details

Acquired at : 7/2/2019 7:54:41 AM

Report name : Xt CCT 40ICM2 SN 01301C [2/27/2013 1:40:34 PM]

### Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-137.3	Lens 3	-195.3	Standard resolution	125	CCT-He	0.00
Lens 1	-1231	Forward power	1404	High resolution	60	CCT-He	0.31
Lens 2	-82.4	Horizontal	86	Analogue Detector	1820		
Focus	9.4	Vertical	595	PC Detector	2820		
D1	-46.3	DA	-29.8				
D2	-143	Cool	13.0				
Pole Bias	-9.0	Auxiliary	0.70				
Hexapole Bias	-4.0	Sampling Depth	145				
Nebuliser	0.80						

### Sensitivity and stability results

#### Acquisition parameters

Sweeps : 45

Run	Time	7Li	9Be	11B
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	2.0%	2.0%	2.0%
	Countrate	>10000	>2000	>2000
1	7:54:42 AM	29352.994	9220.157	9878.287
2	7:54:45 AM	29735.849	9311.316	10011.695
3	7:54:48 AM	29272.862	9186.807	10053.941
4	7:54:51 AM	28896.695	9031.172	9953.885
5	7:54:54 AM	29657.942	9133.446	10036.153
x		29383.268	9176.580	9986.792
σ		335.27	103.88	71.45
%RSD		1.141	1.132	0.715

Result : The performance report passed.

## Performance Report

### Sample details

Acquired at : 7/2/2019 8:01:29 AM

Report name : Xt CCT-KED 40ICM2 SN01301C [2/27/2013 1:40:34 PM]

### Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-137.3	Lens 3	-195.3	Standard resolution	125	CCT-He	0.00
Lens 1	-1231	Forward power	1404	High resolution	60	CCT-He	3.88
Lens 2	-82.4	Horizontal	86	Analogue Detector	1820		
Focus	-7.1	Vertical	595	PC Detector	2820		
D1	-58.8	DA	-29.8				
D2	-143	Cool	13.0				
Pole Bias	-17.0	Auxiliary	0.70				
Hexapole Bias	-20.0	Sampling Depth	145				
Nebuliser	0.80						

### Sensitivity and stability results

#### Acquisition parameters

Sweeps : 35

Run	Time	78Se	115In	140Ce	156Ce O
Dwell (mSecs)		100.0	10.0	10.0	50.0
Limits	%RSD	-	2.0%	-	-
	Countrate	<20	>100000	-	-
1	8:01:30 AM	13.714	276791.54	469905.27	4282.799
2	8:01:37 AM	9.714	278062.49	467394.95	4255.936
3	8:01:45 AM	11.143	282035.50	464779.43	4277.084
4	8:01:53 AM	7.429	281582.72	466336.38	4367.963
5	8:02:01 AM	9.714	280743.95	461742.14	4315.379
x		10.343	279843.24	466031.63	4299.832
σ		2.31	2298.21	3038.27	43.64
%RSD		22.306	0.821	0.652	1.015

### Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0200
1	8:01:30 AM	0.009
2	8:01:37 AM	0.009
3	8:01:45 AM	0.009
4	8:01:53 AM	0.009
5	8:02:01 AM	0.009
x		0.0092
σ		0.00
%RSD		1.3456

Result : The performance report passed.



FORM XV INORGANIC-1  
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay      SDG No. : 40189621    Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40ICM2      Start Date: 07/02/2019 16:13      End Date: 07/02/2019 21:16

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12458704CAL0	16:13	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12458705CAL1	16:20	99.3	102.6	101.8	100.0	100.3	99.7	100.3
12458706CAL2	16:27	98.4	101.3	100.9	99.5	99.5	99.4	98.5
12458707CAL3	16:34	97.2	98.6	98.5	96.1	96.2	97.0	96.0
12458708CAL4	16:42	95.7	96.7	98.3	95.3	96.7	96.5	95.8
12458709CAL5	16:49	94.2	93.2	97.4	94.1	96.1	95.6	94.1
12458710ICV	16:56	96.0	95.1	97.3	94.4	92.8	95.6	93.5
12458711ICB	17:03	97.2	93.3	94.6	90.2	91.1	96.4	93.1
12458712CRDL	17:11	96.7	98.0	98.4	93.6	93.5	97.1	95.5
12458713CRDL	17:18	96.9	98.9	98.5	94.9	95.7	97.3	96.3
12458714ICSA	17:25	85.6	81.9	89.3	88.0	82.9	89.6	84.5
12458715ICSAB	17:32	87.3	82.1	90.2	84.2	83.6	90.8	84.6
12458716CCV	17:40	98.1	99.1	99.4	96.1	98.3	99.2	97.3
12458717CCB	17:47	99.7	101.6	99.5	100.8	100.8	101.0	99.8
1891435BLANK	17:54	101.2	105.4	102.8	103.4	102.4	101.7	101.1
CUF-FH-LB-F-EB01-	18:30	97.9	101.7	98.7	100.9	99.7	98.0	97.9
CUF-FH-CC-F-EB01-	18:37	98.2	101.1	98.7	99.5	98.6	97.5	97.5
CUF-FH-CC-F-EB01-	18:45	97.3	100.0	98.3	103.6	98.4	96.7	97.0
12458718CCV	19:06	95.4	99.0	97.7	97.6	98.0	96.0	96.3
12458719CCB	19:13	96.2	97.5	96.2	97.5	97.2	96.9	96.4
1891436SBLK	19:50	101.2	104.5	101.7	103.6	104.0	102.8	101.5
1891438LCS	19:57	98.3	105.1	102.6	105.7	106.7	102.2	103.6
1891439LCSD	20:04	98.4	104.4	102.9	107.5	105.9	102.4	103.2
1891437SRM	20:18	89.6	96.4	96.8	96.3	94.4	99.4	104.9
12458720CCV	20:26	101.4	104.2	102.8	101.8	103.3	103.0	101.7
12458721CCB	20:33	102.3	106.1	102.4	109.2	106.4	104.5	104.5
12458722CRDL	20:40	100.7	109.6	104.9	117.2	108.2	104.6	104.9
12458723CRDL	20:47	100.7	109.0	104.5	111.6	107.3	104.2	103.7
12458724ICSA	20:55	86.5	83.6	89.8	90.7	84.7	92.8	85.3
12458725ICSAB	21:02	87.5	83.6	89.8	86.7	84.2	92.5	85.0
12458726CCV	21:09	100.0	99.5	98.6	97.6	98.0	100.0	96.4
12458727CCB	21:16	100.3	101.0	98.1	103.5	101.4	102.0	99.3

## Experiment Details

<b>Description</b>	PlasmaLab Template BlankExperiment
<b>Template Filename</b>	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01301 C.tet
<b>Created By User</b>	metals
<b>Analyte Database</b>	Pace.tea
<b>Creation Timestamp</b>	7/10/2008 4:47:18 PM
<b>Last Edited By</b>	ICM2
<b>Last Edit Timestamp</b>	7/3/2019 7:01:28 AM
<b>Instrument Detector</b>	Simultaneous
<b>Database Version</b>	3,51
<b>Acquisition Mode</b>	Unknown

### Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.

Underlining indicates that a data warning flag is set.

Column headings	Result cells	Data warning flags
<b>No flag</b>	Internal Standard	I - Invalid calibration
<b>Semi Quant</b>	Excluded	T - Tripped
<b>Standard Addition</b>	QC Warning	F - Interference correction failed
<b>Multi Element</b>	QC Failure	M - Result over max
	Transient TRA only:	V - Valley integration failed
	Peak Not Found	D - Different method used
	Manually Edited	
	Merged Peak	

## Setup

### Survey Scan Setup

<b>Sweeps</b>	10
<b>Dwell Time</b>	600
<b>Channels Per Mass</b>	10
<b>Acquisition Duration</b>	13345

### Main Run Setup

<b>Main Run</b>	Peak Jumping
<b>Sweeps</b>	45
<b>Dwell Time</b>	10000
<b>Channels Per Mass</b>	1
<b>Acquisition Duration</b>	32128
<b>Channel Spacing</b>	0.02

### Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.41	8	600	
33.59	35.50	19	600	
38.59	39.41	8	600	
42.59	45.50	29	600	
46.50	79.41	329	600	
80.59	245.50	1649	600	

### Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
7Li	1	10000	Standard
9Be	1	10000	Standard
10B	1	10000	Standard
23Na	1	5000	
25Mg	1	10000	Standard
27Al	1	10000	Standard
28Si	1	10000	Standard
31P	1	10000	Standard
34S	1	10000	
35Cl	1	10000	
39K	1	10000	

43Ca	1	10000	Standard
45Sc-KED	1	10000	Standard
45Sc-CCT	1	10000	
47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	Standard
55Mn	1	10000	Standard
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
66Zn	1	10000	Standard
72Ge	1	10000	Standard
73Ge	1	10000	Standard
75As	1	50000	Standard
78Se	1	50000	Standard
83Kr	1	50000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
90Zr	1	10000	Standard
95Mo	1	10000	Standard
105Pd	1	10000	Standard
107Ag	1	10000	Standard
111Cd	1	10000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
184W	1	10000	Standard
195Pt	1	10000	Standard
201Hg	1	10000	Standard
205Tl	1	10000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	10000	Standard
238U	1	10000	Standard

## Instrument Configuration

### Sample/Analyte Settings

Label	Config	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
229404_9800_Cal0	3	7	7	7	8	8	8	8	8	8	8
229405_9800_Cal1	3	7	7	7	8	8	8	8	8	8	8
229406_9800_Cal2	3	7	7	7	8	8	8	8	8	8	8
229407_9800_Cal3	3	7	7	7	8	8	8	8	8	8	8
229408_9800_Cal4	3	7	7	7	8	8	8	8	8	8	8
229409_9800_Cal5	3	7	7	7	8	8	8	8	8	8	8
229187_9800_ICV	3	7	7	7	8	8	8	8	8	8	8
229404_9800_ICBTVA	3	7	7	7	8	8	8	8	8	8	8
229405_9800_CRDL_A1	3	7	7	7	8	8	8	8	8	8	8
229406_9800_CRDL_B1	3	7	7	7	8	8	8	8	8	8	8
229411_9800_ICSA1	3	7	7	7	8	8	8	8	8	8	8
229412_9800_ICSAB1	3	7	7	7	8	8	8	8	8	8	8
229410_9800_CCV1	3	7	7	7	8	8	8	8	8	8	8
229404_9800_CCBTVA1	3	7	7	7	8	8	8	8	8	8	8
1891435_9793	3	7	7	7	8	8	8	8	8	8	8
40189620001_9793	3	7	7	7	8	8	8	8	8	8	8
40189620002_9793	3	7	7	7	8	8	8	8	8	8	8
40189620003_9793	3	7	7	7	8	8	8	8	8	8	8
40189620004_9793	3	7	7	7	8	8	8	8	8	8	8
40189621001_9793	3	7	7	7	8	8	8	8	8	8	8
40189621002_9793	3	7	7	7	8	8	8	8	8	8	8
40189621003_9793	3	7	7	7	8	8	8	8	8	8	8
40189622001_9793	3	7	7	7	8	8	8	8	8	8	8
40189622002_9793	3	7	7	7	8	8	8	8	8	8	8
229410_9800_CCV2	3	7	7	7	8	8	8	8	8	8	8
229404_9800_CCBTVA2	3	7	7	7	8	8	8	8	8	8	8
40189622003_9793	3	7	7	7	8	8	8	8	8	8	8

40189622004_9793	3	7	7	7	8	8	8	8	8	8	8
40189622005_9793	3	7	7	7	8	8	8	8	8	8	8
40189622006_9793	3	7	7	7	8	8	8	8	8	8	8
1891436_9793	3	7	7	7	8	8	8	8	8	8	8
1891438_9793	3	7	7	7	8	8	8	8	8	8	8
1891439_9793	3	7	7	7	8	8	8	8	8	8	8
1891437_9793x2	3	7	7	7	8	8	8	8	8	8	8
1891437_9793	3	7	7	7	8	8	8	8	8	8	8
229410_9800_CCV3	3	7	7	7	8	8	8	8	8	8	8
229404_9800_CCBTVA3	3	7	7	7	8	8	8	8	8	8	8
229405_9800_CRDL_A2	3	7	7	7	8	8	8	8	8	8	8
229406_9800_CRDL_B2	3	7	7	7	8	8	8	8	8	8	8
229411_9800_ICSA2	3	7	7	7	8	8	8	8	8	8	8
229412_9800_ICSAB2	3	7	7	7	8	8	8	8	8	8	8
229410_9800_CCV4	3	7	7	7	8	8	8	8	8	8	8
229404_9800_CCBTVA4	3	7	7	7	8	8	8	8	8	8	8
Label	Config	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
229404_9800_Cal0	3	8	8	8	7	8	8	8	8	8	8
229405_9800_Cal1	3	8	8	8	7	8	8	8	8	8	8
229406_9800_Cal2	3	8	8	8	7	8	8	8	8	8	8
229407_9800_Cal3	3	8	8	8	7	8	8	8	8	8	8
229408_9800_Cal4	3	8	8	8	7	8	8	8	8	8	8
229409_9800_Cal5	3	8	8	8	7	8	8	8	8	8	8
229187_9800_ICV	3	8	8	8	7	8	8	8	8	8	8
229404_9800_ICBTVA	3	8	8	8	7	8	8	8	8	8	8
229405_9800_CRDL_A1	3	8	8	8	7	8	8	8	8	8	8
229406_9800_CRDL_B1	3	8	8	8	7	8	8	8	8	8	8
229411_9800_ICSA1	3	8	8	8	7	8	8	8	8	8	8
229412_9800_ICSAB1	3	8	8	8	7	8	8	8	8	8	8
229410_9800_CCV1	3	8	8	8	7	8	8	8	8	8	8
229404_9800_CCBTVA1	3	8	8	8	7	8	8	8	8	8	8
1891435_9793	3	8	8	8	7	8	8	8	8	8	8
40189620001_9793	3	8	8	8	7	8	8	8	8	8	8
40189620002_9793	3	8	8	8	7	8	8	8	8	8	8
40189620003_9793	3	8	8	8	7	8	8	8	8	8	8
40189620004_9793	3	8	8	8	7	8	8	8	8	8	8
40189621001_9793	3	8	8	8	7	8	8	8	8	8	8
40189621002_9793	3	8	8	8	7	8	8	8	8	8	8
40189621003_9793	3	8	8	8	7	8	8	8	8	8	8
40189622001_9793	3	8	8	8	7	8	8	8	8	8	8
40189622002_9793	3	8	8	8	7	8	8	8	8	8	8
229410_9800_CCV2	3	8	8	8	7	8	8	8	8	8	8
229404_9800_CCBTVA2	3	8	8	8	7	8	8	8	8	8	8
40189622003_9793	3	8	8	8	7	8	8	8	8	8	8
40189622004_9793	3	8	8	8	7	8	8	8	8	8	8
40189622005_9793	3	8	8	8	7	8	8	8	8	8	8
40189622006_9793	3	8	8	8	7	8	8	8	8	8	8
1891436_9793	3	8	8	8	7	8	8	8	8	8	8
1891438_9793	3	8	8	8	7	8	8	8	8	8	8
1891439_9793	3	8	8	8	7	8	8	8	8	8	8
1891437_9793x2	3	8	8	8	7	8	8	8	8	8	8
1891437_9793	3	8	8	8	7	8	8	8	8	8	8
229410_9800_CCV3	3	8	8	8	7	8	8	8	8	8	8
229404_9800_CCBTVA3	3	8	8	8	7	8	8	8	8	8	8
229405_9800_CRDL_A2	3	8	8	8	7	8	8	8	8	8	8
229406_9800_CRDL_B2	3	8	8	8	7	8	8	8	8	8	8
229411_9800_ICSA2	3	8	8	8	7	8	8	8	8	8	8
229412_9800_ICSAB2	3	8	8	8	7	8	8	8	8	8	8
229410_9800_CCV4	3	8	8	8	7	8	8	8	8	8	8
229404_9800_CCBTVA4	3	8	8	8	7	8	8	8	8	8	8
Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
229404_9800_Cal0	3	8	8	8	8	8	8	8	8	8	8
229405_9800_Cal1	3	8	8	8	8	8	8	8	8	8	8
229406_9800_Cal2	3	8	8	8	8	8	8	8	8	8	8
229407_9800_Cal3	3	8	8	8	8	8	8	8	8	8	8
229408_9800_Cal4	3	8	8	8	8	8	8	8	8	8	8
229409_9800_Cal5	3	8	8	8	8	8	8	8	8	8	8
229187_9800_ICV	3	8	8	8	8	8	8	8	8	8	8
229404_9800_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8

229406_9800_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA1	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV1	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1891435_9793	3	8	8	8	8	8	8	8	8	8	8
40189620001_9793	3	8	8	8	8	8	8	8	8	8	8
40189620002_9793	3	8	8	8	8	8	8	8	8	8	8
40189620003_9793	3	8	8	8	8	8	8	8	8	8	8
40189620004_9793	3	8	8	8	8	8	8	8	8	8	8
40189621001_9793	3	8	8	8	8	8	8	8	8	8	8
40189621002_9793	3	8	8	8	8	8	8	8	8	8	8
40189621003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622001_9793	3	8	8	8	8	8	8	8	8	8	8
40189622002_9793	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV2	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
40189622003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622004_9793	3	8	8	8	8	8	8	8	8	8	8
40189622005_9793	3	8	8	8	8	8	8	8	8	8	8
40189622006_9793	3	8	8	8	8	8	8	8	8	8	8
1891436_9793	3	8	8	8	8	8	8	8	8	8	8
1891438_9793	3	8	8	8	8	8	8	8	8	8	8
1891439_9793	3	8	8	8	8	8	8	8	8	8	8
1891437_9793x2	3	8	8	8	8	8	8	8	8	8	8
1891437_9793	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV3	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
229406_9800_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA2	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV4	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
Label	Config	89Y	90Zr	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba
229404_9800_Cal0	3	8	8	8	8	8	8	8	8	8	8
229405_9800_Cal1	3	8	8	8	8	8	8	8	8	8	8
229406_9800_Cal2	3	8	8	8	8	8	8	8	8	8	8
229407_9800_Cal3	3	8	8	8	8	8	8	8	8	8	8
229408_9800_Cal4	3	8	8	8	8	8	8	8	8	8	8
229409_9800_Cal5	3	8	8	8	8	8	8	8	8	8	8
229187_9800_ICV	3	8	8	8	8	8	8	8	8	8	8
229404_9800_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
229406_9800_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA1	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV1	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1891435_9793	3	8	8	8	8	8	8	8	8	8	8
40189620001_9793	3	8	8	8	8	8	8	8	8	8	8
40189620002_9793	3	8	8	8	8	8	8	8	8	8	8
40189620003_9793	3	8	8	8	8	8	8	8	8	8	8
40189620004_9793	3	8	8	8	8	8	8	8	8	8	8
40189621001_9793	3	8	8	8	8	8	8	8	8	8	8
40189621002_9793	3	8	8	8	8	8	8	8	8	8	8
40189621003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622001_9793	3	8	8	8	8	8	8	8	8	8	8
40189622002_9793	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV2	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
40189622003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622004_9793	3	8	8	8	8	8	8	8	8	8	8
40189622005_9793	3	8	8	8	8	8	8	8	8	8	8
40189622006_9793	3	8	8	8	8	8	8	8	8	8	8
1891436_9793	3	8	8	8	8	8	8	8	8	8	8
1891438_9793	3	8	8	8	8	8	8	8	8	8	8
1891439_9793	3	8	8	8	8	8	8	8	8	8	8
1891437_9793x2	3	8	8	8	8	8	8	8	8	8	8
1891437_9793	3	8	8	8	8	8	8	8	8	8	8

229410_9800_CCV3	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV3	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
229406_9800_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA2	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV4	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV4	3	8	8	8	8	8	8	8	8	8	8
Label	Config	159Tb	184W	195Pt	201Hg	205Tl	206Pb	207Pb	208Pb	209Bi	238U
229404_9800_Cal0	3	8	8	8	8	8	8	8	8	8	8
229405_9800_Cal1	3	8	8	8	8	8	8	8	8	8	8
229406_9800_Cal2	3	8	8	8	8	8	8	8	8	8	8
229407_9800_Cal3	3	8	8	8	8	8	8	8	8	8	8
229408_9800_Cal4	3	8	8	8	8	8	8	8	8	8	8
229409_9800_Cal5	3	8	8	8	8	8	8	8	8	8	8
229187_9800_ICV	3	8	8	8	8	8	8	8	8	8	8
229404_9800_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
229406_9800_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA1	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSA1	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV1	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV1	3	8	8	8	8	8	8	8	8	8	8
1891435_9793	3	8	8	8	8	8	8	8	8	8	8
40189620001_9793	3	8	8	8	8	8	8	8	8	8	8
40189620002_9793	3	8	8	8	8	8	8	8	8	8	8
40189620003_9793	3	8	8	8	8	8	8	8	8	8	8
40189620004_9793	3	8	8	8	8	8	8	8	8	8	8
40189621001_9793	3	8	8	8	8	8	8	8	8	8	8
40189621002_9793	3	8	8	8	8	8	8	8	8	8	8
40189621003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622001_9793	3	8	8	8	8	8	8	8	8	8	8
40189622002_9793	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV2	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV2	3	8	8	8	8	8	8	8	8	8	8
40189622003_9793	3	8	8	8	8	8	8	8	8	8	8
40189622004_9793	3	8	8	8	8	8	8	8	8	8	8
40189622005_9793	3	8	8	8	8	8	8	8	8	8	8
40189622006_9793	3	8	8	8	8	8	8	8	8	8	8
1891436_9793	3	8	8	8	8	8	8	8	8	8	8
1891438_9793	3	8	8	8	8	8	8	8	8	8	8
1891439_9793	3	8	8	8	8	8	8	8	8	8	8
1891437_9793x2	3	8	8	8	8	8	8	8	8	8	8
1891437_9793	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV3	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV3	3	8	8	8	8	8	8	8	8	8	8
229405_9800_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
229406_9800_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
229411_9800_ICSA2	3	8	8	8	8	8	8	8	8	8	8
229412_9800_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
229410_9800_CCV4	3	8	8	8	8	8	8	8	8	8	8
229404_9800_CCBTV4	3	8	8	8	8	8	8	8	8	8	8

**Configuration 3 - X Series Default**

**Minimum uptake** 5  
**Maximum uptake** 20  
**Minimum wash** 80  
**Maximum wash** 200

**ACL Script**

**Title** Fast uptake wash  
**Description** Data acquisition using the peri pump at high speed for the washes and uptakes  
**Author** paceuser  
**Version** 1

**Settings sets**

Id	Description	Extraction	Lens 1	Lens 2	Lens 3	Pole Bias	Sampling Depth	Horizontal	Vertical	Cool	Auxiliary

7	CCT Mode 07022019	-137.00	-1230.00	-82.40	-195.30	-9.00	145.00	86.00	595.00	13.00	0.70
8	CCTKED Mode 07022019	-137.00	-1230.00	-82.40	-195.30	-17.00	145.00	86.00	595.00	13.00	0.70
Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias	
7	CCT Mode 07022019	0.80	1400.00	-46.30	9.40	0.00	0.30	-143.00	-29.80	-4.00	
8	CCTKED Mode 07022019	0.80	1400.00	-58.80	-7.10	0.00	3.90	-143.00	-29.80	-20.00	

### Fully Quantitative Concentrations

Id		Label	Li	Be	B	Na	Mg	Al	Si	P	K	Ca
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	229404	9800_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	229405	9800_Cal1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	229406	9800_Cal2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	229407	9800_Cal3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	229408	9800_Cal4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	229409	9800_Cal5	500.000	500.000	500.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000
Id		Label	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	229404	9800_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	229405	9800_Cal1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	229406	9800_Cal2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	229407	9800_Cal3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	229408	9800_Cal4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	229409	9800_Cal5	500.000	500.000	500.000	500.000	25000.000	500.000	500.000	500.000	500.000	500.000
Id		Label	Se	Sr	Zr	Mo	Pd	Ag	Cd	Sn	Sb	Ba
			ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	229404	9800_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	229405	9800_Cal1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	229406	9800_Cal2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000
4	229407	9800_Cal3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000
5	229408	9800_Cal4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	229409	9800_Cal5	500.000	500.000	500.000	500.000	500.000	250.000	500.000	500.000	500.000	500.000
Id		Label	Pt	Hg	Tl	Pb	U					
			ppb	ppb	ppb	ppb	ppb					
1	229404	9800_Cal0	0.000	0.000	0.000	0.000	0.000					
2	229405	9800_Cal1	1.000	0.200	1.000	1.000	1.000					
3	229406	9800_Cal2	5.000	0.500	5.000	5.000	5.000					
4	229407	9800_Cal3	50.000	1.000	50.000	50.000	50.000					
5	229408	9800_Cal4	250.000	10.000	250.000	250.000	250.000					
6	229409	9800_Cal5	500.000	25.000	500.000	500.000	500.000					

### Calibration Technique

Use External Drift Correction - No  
Calibrate by - Isotope

Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
7Li	Yes	0.36	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
9Be	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
10B	Yes	0.13	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
23Na	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
25Mg	Yes	0.49	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
27Al	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
28Si	Yes	0.20	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
31P	Yes	0.02	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
34S	Yes	0.04	Semi-Quantified				No		
35Cl	Yes	0.00	Semi-Quantified				No		
39K	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
43Ca	Yes	0.81	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
45Sc-KED	Yes	0.60	None				No		
47Ti	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
51V	Yes	0.39	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
52Cr	Yes	0.46	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
55Mn	Yes	0.70	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
54Fe	Yes	0.60	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
59Co	Yes	0.42	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
60Ni	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
63Cu	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000

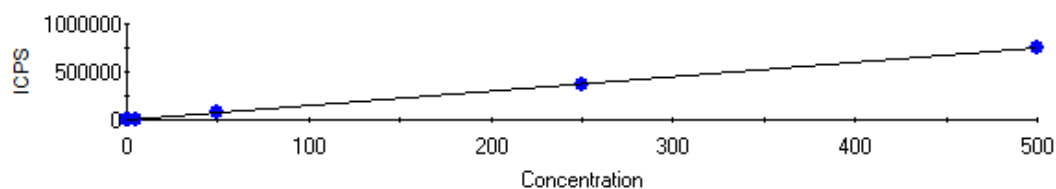
66Zn	Yes	0.35	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
72Ge	Yes	0.35	None				No	
73Ge	Yes	0.35	None				No	
75As	Yes	0.05	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
78Se	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
83Kr	Yes	0.00	None				No	
88Sr	Yes	0.66	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
89Y	Yes	0.74	None				No	
90Zr	Yes	0.61	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
95Mo	Yes	0.63	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
105Pd	Yes	0.48	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
107Ag	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
111Cd	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
115In	Yes	0.77	None				No	
118Sn	Yes	0.69	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
121Sb	Yes	0.34	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
137Ba	Yes	0.53	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
159Tb	Yes	0.90	None				No	
184W	Yes	0.71	Semi-Quantified				No	
195Pt	Yes	0.30	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
201Hg	Yes	0.06	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
206Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
207Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
208Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
209Bi	Yes	0.45	None				No	
238U	Yes	0.65	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
205Tl	Yes	0.58	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
53Cl O	Yes		Semi-Quantified				No	
45Sc-CCT	Yes	0.60	None				No	

## Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	229404_9800_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	229405_9800_Cal1	Fully Quant Standard	1.000	0	1	2	144
3	229406_9800_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	229407_9800_Cal3	Fully Quant Standard	1.000	0	1	4	144
5	229408_9800_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	229409_9800_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	229187_9800_ICV	Unknown	1.000	1	1	1	144
8	229404_9800_ICBTVA	Unknown	1.000	0	1	8	144
9	229405_9800_CRDL_A1	Unknown	1.000	0	1	2	144
10	229406_9800_CRDL_B1	Unknown	1.000	0	1	3	144
11	229411_9800_ICSA1	Unknown	1.000	1	1	4	144
12	229412_9800_ICSAB1	Unknown	1.000	1	1	5	144
13	229410_9800_CCV1	Unknown	1.000	0	1	9	144
14	229404_9800_CCBTVA1	Unknown	1.000	0	1	10	144
15	1891435_9793	Unknown	1.000	1	4	1	144
16	40189620001_9793	Unknown	1.000	1	4	7	144
17	40189620002_9793	Unknown	1.000	1	4	8	144
18	40189620003_9793	Unknown	1.000	1	4	9	144
19	40189620004_9793	Unknown	1.000	1	4	10	144
20	40189621001_9793	Unknown	1.000	1	4	11	144
21	40189621002_9793	Unknown	1.000	1	4	12	144
22	40189621003_9793	Unknown	1.000	1	5	1	144
23	40189622001_9793	Unknown	1.000	1	5	2	144
24	40189622002_9793	Unknown	1.000	1	5	3	144
25	229410_9800_CCV2	Unknown	1.000	0	1	9	144
26	229404_9800_CCBTVA2	Unknown	1.000	0	1	10	144
27	40189622003_9793	Unknown	1.000	1	5	4	144
28	40189622004_9793	Unknown	1.000	1	5	5	144
29	40189622005_9793	Unknown	1.000	1	5	6	144
30	40189622006_9793	Unknown	1.000	1	5	7	144
31	1891436_9793	Unknown	1.000	1	4	2	144
32	1891438_9793	Unknown	1.000	1	4	3	144
33	1891439_9793	Unknown	1.000	1	4	4	144
34	1891437_9793x2	Unknown	1.000	1	4	5	144
35	1891437_9793	Unknown	1.000	1	4	6	144
36	229410_9800_CCV3	Unknown	1.000	0	1	9	144
37	229404_9800_CCBTVA3	Unknown	1.000	0	1	10	144
38	229405_9800_CRDL_A2	Unknown	1.000	0	1	2	144
39	229406_9800_CRDL_B2	Unknown	1.000	0	1	3	144
40	229411_9800_ICSA2	Unknown	1.000	1	1	4	144
41	229412_9800_ICSAB2	Unknown	1.000	1	1	5	144
42	229410_9800_CCV4	Unknown	1.000	0	1	9	144
43	229404_9800_CCBTVA4	Unknown	1.000	0	1	10	144

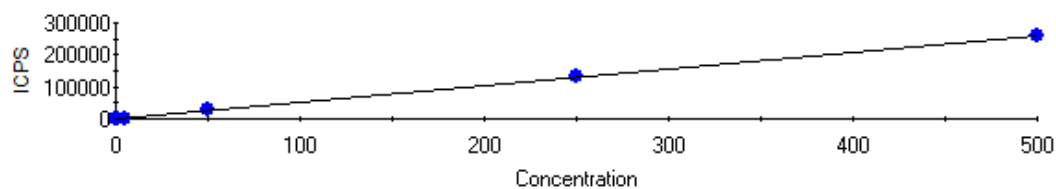
## Fully Quant Calibration



**7Li FQ Block 1**

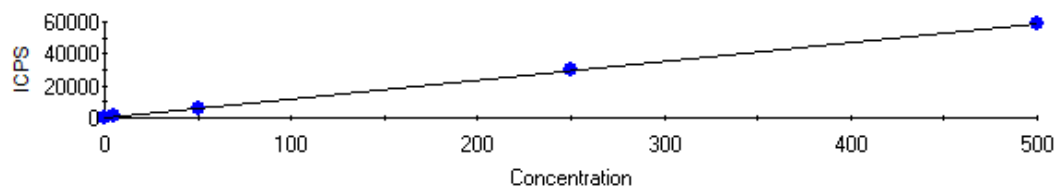
Intercept CPS=53.626070 Intercept Conc=0.036067  
Sensitivity=1486.837858 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.001	0.001	54.80	0.00
229405_9800_Cal1	1.000	0.966	0.034	1490.02	3.39
229406_9800_Cal2	5.000	4.910	0.090	7353.51	1.81
229407_9800_Cal3	50.000	49.463	0.537	73596.91	1.07
229408_9800_Cal4	250.000	251.283	1.283	373671.35	0.51
229409_9800_Cal5	500.000	498.574	1.426	741351.63	0.29

**9Be FQ Block 1**

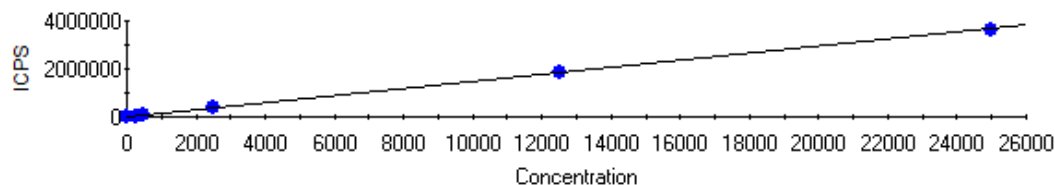
Intercept CPS=12.849156 Intercept Conc=0.024558  
Sensitivity=523.226357 Correlation Coeff=0.999869

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.011	0.011	18.51	0.00
229405_9800_Cal1	1.000	0.983	0.017	527.21	1.69
229406_9800_Cal2	5.000	4.970	0.030	2613.19	0.60
229407_9800_Cal3	50.000	50.597	0.597	26486.74	1.19
229408_9800_Cal4	250.000	255.013	5.013	133442.21	2.01
229409_9800_Cal5	500.000	493.161	6.839	258047.65	1.37

**10B FQ Block 1**

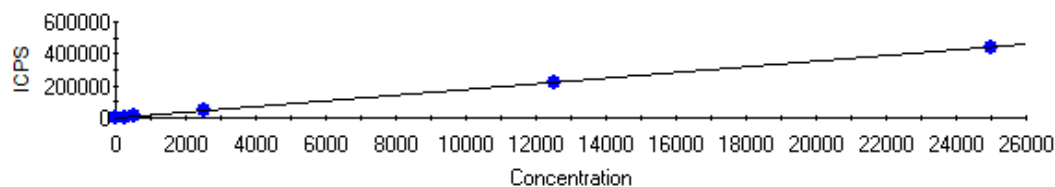
Intercept CPS=87.585513 Intercept Conc=0.740565  
Sensitivity=118.268478 Correlation Coeff=0.999981

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.161	0.161	106.68	0.00
229406_9800_Cal2	5.000	4.943	0.057	672.17	1.14
229407_9800_Cal3	50.000	49.532	0.468	5945.61	0.94
229408_9800_Cal4	250.000	253.589	3.589	30079.13	1.44
229409_9800_Cal5	500.000	501.481	1.481	59397.03	0.30

**23Na FQ Block 1**

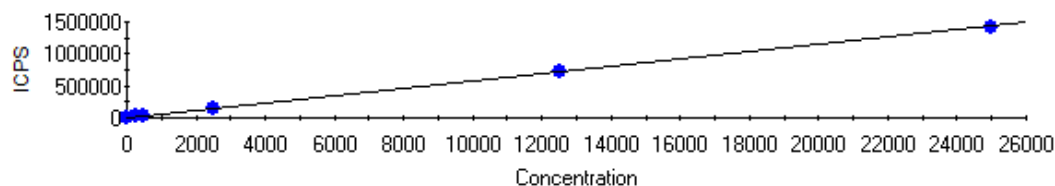
Intercept CPS=629.279367 Intercept Conc=4.296208  
Sensitivity=146.473194 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.057	0.057	620.99	0.00
229405_9800_Cal1	250.000	256.312	6.312	38172.09	2.52
229406_9800_Cal2	500.000	499.215	0.785	73750.86	0.16
229407_9800_Cal3	2500.000	2520.890	20.890	369872.08	0.84
229408_9800_Cal4	12500.000	12362.381	137.619	1811386.68	1.10
229409_9800_Cal5	25000.000	24624.545	375.455	3607465.09	1.50

**25Mg FQ Block 1**

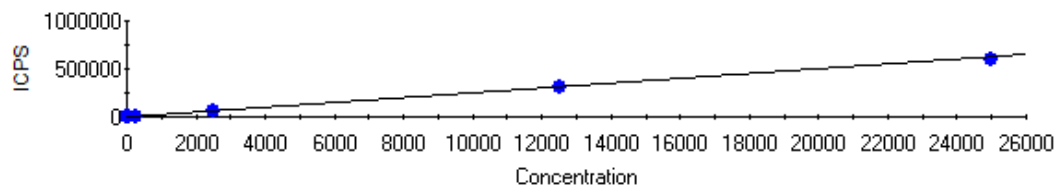
Intercept CPS=87.559563 Intercept Conc=4.966445  
Sensitivity=17.630231 Correlation Coeff=0.999960

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.717	0.717	74.92	0.00
229405_9800_Cal1	250.000	257.209	7.209	4622.21	2.88
229406_9800_Cal2	500.000	509.417	9.417	9068.70	1.88
229407_9800_Cal3	2500.000	2610.308	110.308	46107.89	4.41
229408_9800_Cal4	12500.000	12638.173	138.173	222901.47	1.11
229409_9800_Cal5	25000.000	24842.084	157.916	438059.23	0.63

**27Al FQ Block 1**

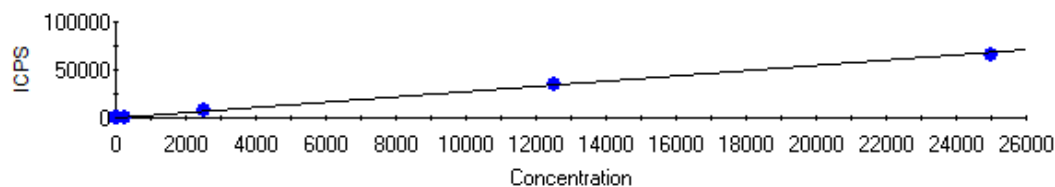
Intercept CPS=324.721146 Intercept Conc=5.653466  
Sensitivity=57.437534 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-1.998	1.998	209.94	0.00
229405_9800_Cal1	250.000	254.039	4.039	14916.07	1.62
229406_9800_Cal2	500.000	505.129	5.129	29338.07	1.03
229407_9800_Cal3	2500.000	2553.999	53.999	147020.15	2.16
229408_9800_Cal4	12500.000	12394.812	105.188	712252.17	0.84
229409_9800_Cal5	25000.000	24403.289	596.711	1401989.45	2.39

**28Si FQ Block 1**

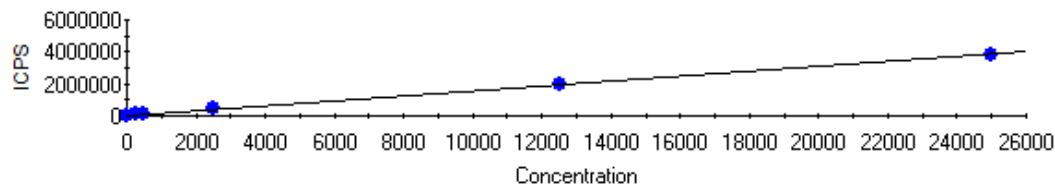
Intercept CPS=238.380271 Intercept Conc=9.551412  
Sensitivity=24.957596 Correlation Coeff=0.999758

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.532	0.532	225.11	0.00
229405_9800_Cal1	50.000	52.591	2.591	1550.93	5.18
229406_9800_Cal2	250.000	259.253	9.253	6708.72	3.70
229407_9800_Cal3	2500.000	2528.900	28.900	63353.64	1.16
229408_9800_Cal4	12500.000	12289.769	210.231	306961.46	1.68
229409_9800_Cal5	25000.000	23497.357	1502.643	586675.92	6.01

**31P FQ Block 1**

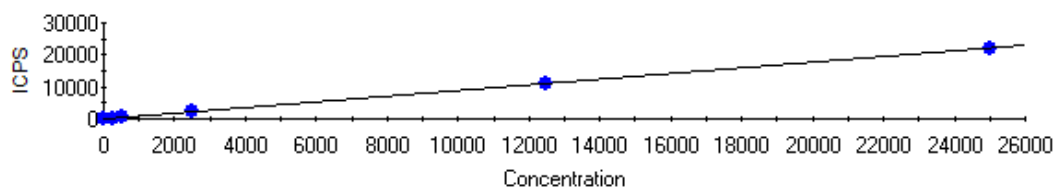
Intercept CPS=98.504628 Intercept Conc=36.095522  
Sensitivity=2.728999 Correlation Coeff=0.999795

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.013	0.013	98.54	0.00
229405_9800_Cal1	50.000	46.943	3.057	226.61	6.11
229406_9800_Cal2	250.000	245.792	4.208	769.27	1.68
229407_9800_Cal3	2500.000	2534.165	34.165	7014.24	1.37
229408_9800_Cal4	12500.000	12577.062	77.062	34421.29	0.62
229409_9800_Cal5	25000.000	24126.460	873.540	65939.58	3.49

**39K FQ Block 1**

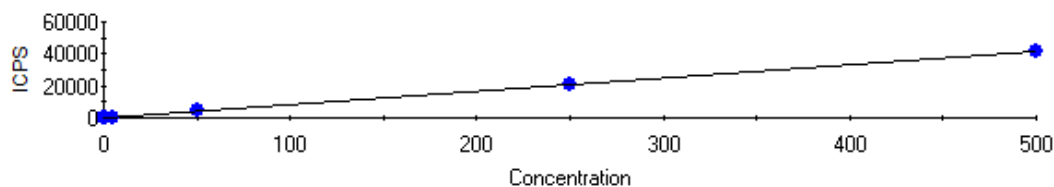
Intercept CPS=55494.861615 Intercept Conc=364.406577  
Sensitivity=152.288310 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-12.362	12.362	53612.34	0.00
229405_9800_Cal1	250.000	251.259	1.259	93758.67	0.50
229406_9800_Cal2	500.000	505.981	5.981	132549.79	1.20
229407_9800_Cal3	2500.000	2547.561	47.561	443458.56	1.90
229408_9800_Cal4	12500.000	12508.579	8.579	1960405.15	0.07
229409_9800_Cal5	25000.000	24885.391	114.609	3845249.06	0.46

**43Ca FQ Block 1**

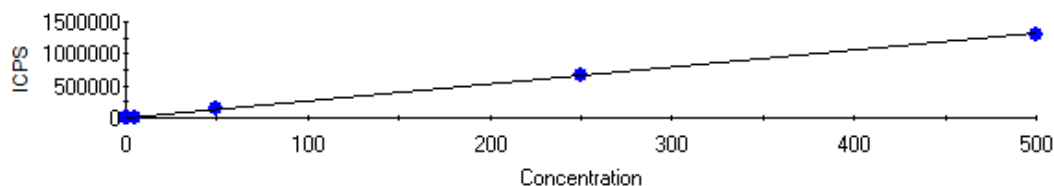
Intercept CPS=4.965257 Intercept Conc=5.616712  
Sensitivity=0.884015 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.359	0.359	5.28	0.00
229405_9800_Cal1	250.000	242.862	7.138	219.66	2.86
229406_9800_Cal2	500.000	486.575	13.425	435.11	2.68
229407_9800_Cal3	2500.000	2607.921	107.921	2310.41	4.32
229408_9800_Cal4	12500.000	12521.110	21.110	11073.81	0.17
229409_9800_Cal5	25000.000	24879.835	120.165	21999.11	0.48

**47Ti FQ Block 1**

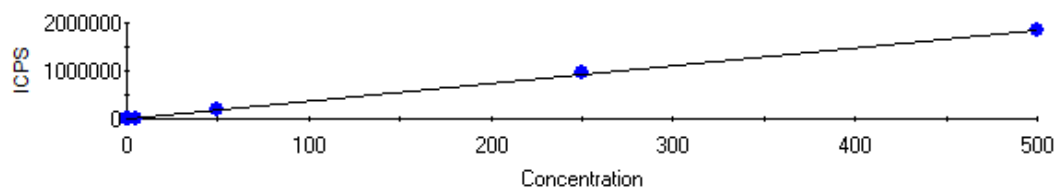
Intercept CPS=26.337746 Intercept Conc=0.314394  
Sensitivity=83.772989 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.000	0.000	26.34	0.00
229405_9800_Cal1	1.000	1.017	0.017	111.55	1.72
229406_9800_Cal2	5.000	5.033	0.033	447.96	0.66
229407_9800_Cal3	50.000	49.493	0.507	4172.54	1.01
229408_9800_Cal4	250.000	250.792	0.792	21035.93	0.32
229409_9800_Cal5	500.000	497.595	2.405	41711.34	0.48

**51V FQ Block 1**

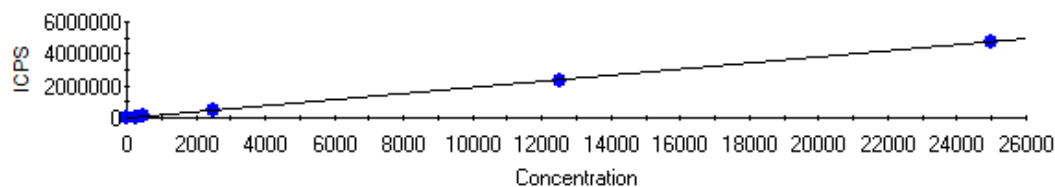
Intercept CPS=375.584105 Intercept Conc=0.143106  
Sensitivity=2624.521527 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.034	0.034	285.59	0.00
229405_9800_Cal1	1.000	0.936	0.064	2832.70	6.38
229406_9800_Cal2	5.000	5.119	0.119	13811.40	2.39
229407_9800_Cal3	50.000	49.911	0.089	131367.48	0.18
229408_9800_Cal4	250.000	250.711	0.711	658372.56	0.28
229409_9800_Cal5	500.000	494.170	5.830	1297335.61	1.17

**52Cr FQ Block 1**

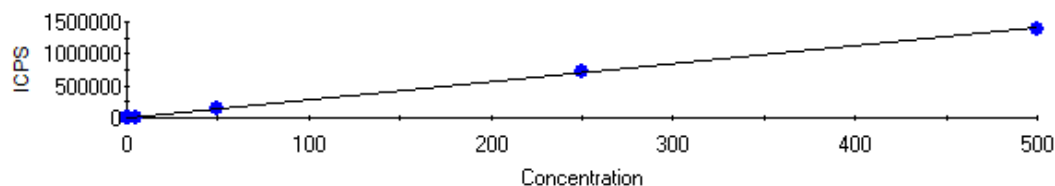
Intercept CPS=216.252594 Intercept Conc=0.058008  
Sensitivity=3727.963381 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.004	0.004	202.27	0.00
229405_9800_Cal1	1.000	1.015	0.015	4001.01	1.52
229406_9800_Cal2	5.000	5.100	0.100	19227.24	1.99
229407_9800_Cal3	50.000	50.852	0.852	189790.66	1.70
229408_9800_Cal4	250.000	253.088	3.088	943719.85	1.24
229409_9800_Cal5	500.000	497.215	2.785	1853815.40	0.56

**54Fe FQ Block 1**

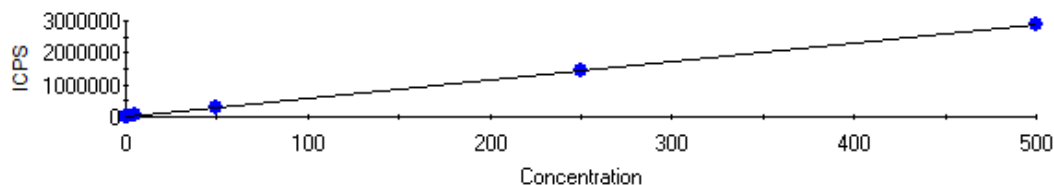
Intercept CPS=998.879810 Intercept Conc=5.263071  
Sensitivity=189.790308 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.001	0.001	998.68	0.00
229405_9800_Cal1	250.000	257.576	7.576	49884.37	3.03
229406_9800_Cal2	500.000	506.054	6.054	97043.11	1.21
229407_9800_Cal3	2500.000	2529.109	29.109	480999.27	1.16
229408_9800_Cal4	12500.000	12238.575	261.425	2323761.72	2.09
229409_9800_Cal5	25000.000	24660.299	339.701	4681284.57	1.36

**55Mn FQ Block 1**

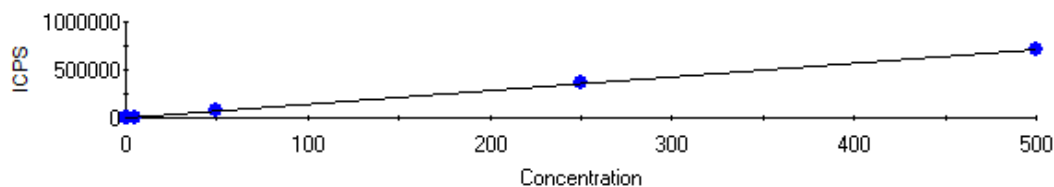
Intercept CPS=86.043143 Intercept Conc=0.030511  
Sensitivity=2820.043244 Correlation Coeff=0.999981

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.000	0.000	85.55	0.00
229405_9800_Cal1	1.000	1.019	0.019	2960.20	1.92
229406_9800_Cal2	5.000	5.005	0.005	14199.95	0.10
229407_9800_Cal3	50.000	50.085	0.085	141328.05	0.17
229408_9800_Cal4	250.000	251.123	1.123	708264.88	0.45
229409_9800_Cal5	500.000	495.871	4.129	1398463.00	0.83

**59Co FQ Block 1**

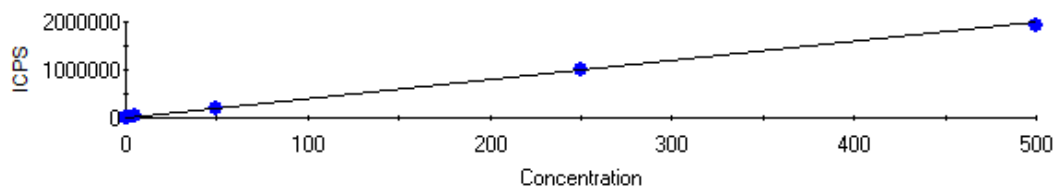
Intercept CPS=104.366364 Intercept Conc=0.017959  
Sensitivity=5811.313078 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.001	0.001	97.66	0.00
229405_9800_Cal1	1.000	1.014	0.014	5999.72	1.45
229406_9800_Cal2	5.000	5.030	0.030	29336.98	0.61
229407_9800_Cal3	50.000	49.951	0.049	290387.93	0.10
229408_9800_Cal4	250.000	248.076	1.924	1441750.46	0.77
229409_9800_Cal5	500.000	499.444	0.556	2902530.11	0.11

**60Ni FQ Block 1**

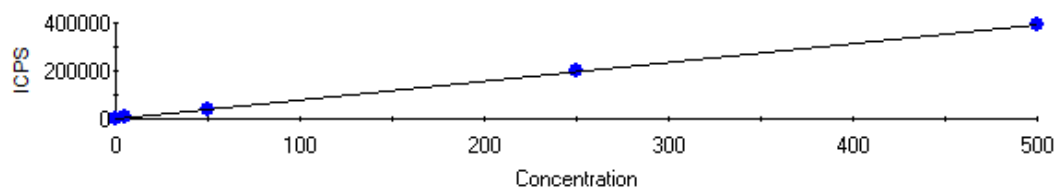
Intercept CPS=152.818696 Intercept Conc=0.107119  
Sensitivity=1426.626234 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.004	0.004	146.40	0.00
229405_9800_Cal1	1.000	1.010	0.010	1593.86	1.01
229406_9800_Cal2	5.000	5.108	0.108	7439.65	2.15
229407_9800_Cal3	50.000	50.650	0.650	72411.09	1.30
229408_9800_Cal4	250.000	251.359	1.359	358748.60	0.54
229409_9800_Cal5	500.000	494.528	5.472	705658.86	1.09

**63Cu FQ Block 1**

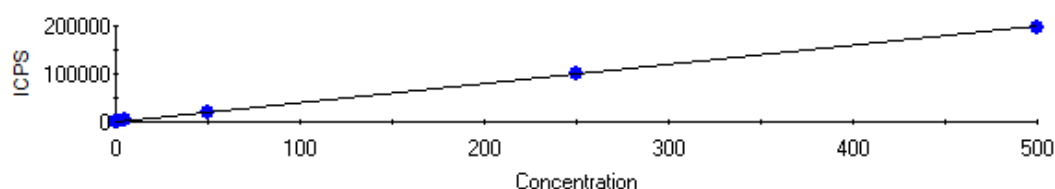
Intercept CPS=631.091262 Intercept Conc=0.159133  
Sensitivity=3965.804673 Correlation Coeff=0.999908

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.027	0.027	525.80	0.00
229405_9800_Cal1	1.000	1.010	0.010	4635.62	0.98
229406_9800_Cal2	5.000	5.098	0.098	20848.59	1.96
229407_9800_Cal3	50.000	50.817	0.817	202162.31	1.63
229408_9800_Cal4	250.000	250.783	0.783	995186.10	0.31
229409_9800_Cal5	500.000	487.674	12.326	1934649.92	2.47

**66Zn FQ Block 1**

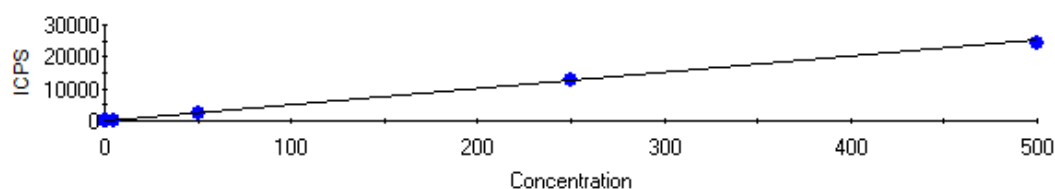
Intercept CPS=1707.103132 Intercept Conc=2.167240  
Sensitivity=787.685423 Correlation Coeff=0.999924

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.602	0.602	1232.83	0.00
229406_9800_Cal2	5.000	5.069	0.069	5699.87	1.38
229407_9800_Cal3	50.000	51.461	1.461	42242.34	2.92
229408_9800_Cal4	250.000	254.479	4.479	202156.25	1.79
229409_9800_Cal5	500.000	496.984	3.016	393174.49	0.60

**75As FQ Block 1**

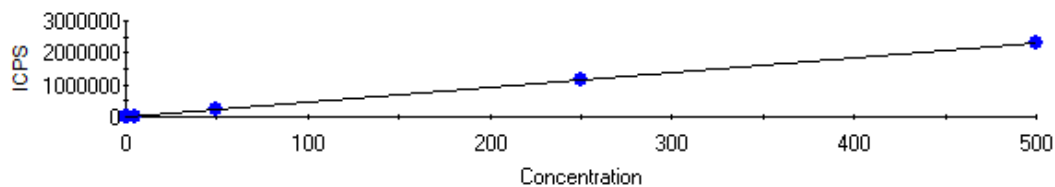
Intercept CPS=222.269773 Intercept Conc=0.558591  
Sensitivity=397.911832 Correlation Coeff=0.999931

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.007	0.007	219.40	0.00
229405_9800_Cal1	1.000	1.017	0.017	626.95	1.70
229406_9800_Cal2	5.000	5.233	0.233	2304.57	4.66
229407_9800_Cal3	50.000	50.698	0.698	20395.79	1.40
229408_9800_Cal4	250.000	252.578	2.578	100726.12	1.03
229409_9800_Cal5	500.000	492.928	7.072	196364.21	1.41

**78Se FQ Block 1**

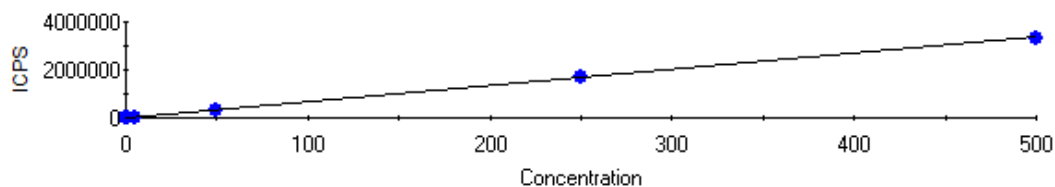
Intercept CPS=17.128862 Intercept Conc=0.335062  
Sensitivity=51.121441 Correlation Coeff=0.999844

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.143	0.143	9.83	0.00
229405_9800_Cal1	1.000	0.913	0.087	63.80	8.70
229406_9800_Cal2	5.000	4.993	0.007	272.37	0.14
229407_9800_Cal3	50.000	50.023	0.023	2574.39	0.05
229408_9800_Cal4	250.000	243.748	6.252	12477.86	2.50
229409_9800_Cal5	500.000	470.320	29.680	24060.55	5.94

**88Sr FQ Block 1**

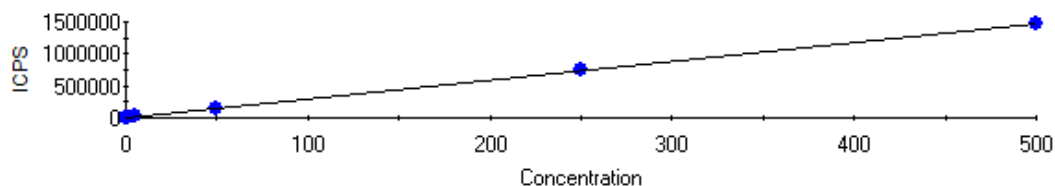
Intercept CPS=570.248195 Intercept Conc=0.124701  
Sensitivity=4572.917268 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.005	0.005	548.97	0.00
229405_9800_Cal1	1.000	1.013	0.013	5200.41	1.25
229406_9800_Cal2	5.000	5.028	0.028	23564.18	0.57
229407_9800_Cal3	50.000	50.435	0.435	231207.61	0.87
229408_9800_Cal4	250.000	252.230	2.230	1153998.59	0.89
229409_9800_Cal5	500.000	499.607	0.393	2285230.77	0.08

**90Zr FQ Block 1**

Intercept CPS=609.641097 Intercept Conc=0.090981  
Sensitivity=6700.739384 Correlation Coeff=0.999999

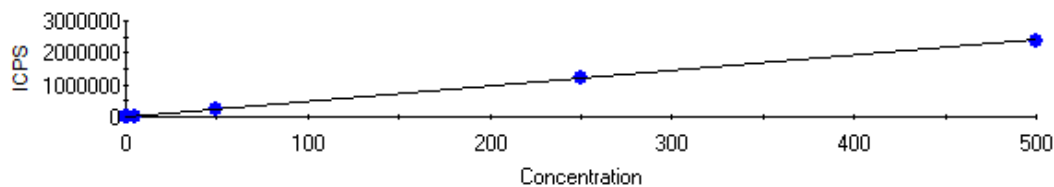
Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.006	0.006	568.07	0.00
229405_9800_Cal1	1.000	0.990	0.010	7242.53	1.01
229406_9800_Cal2	5.000	5.060	0.060	34514.60	1.20
229407_9800_Cal3	50.000	49.726	0.274	333811.42	0.55
229408_9800_Cal4	250.000	247.991	2.009	1662334.27	0.80
229409_9800_Cal5	500.000	497.497	2.503	3334207.02	0.50

**95Mo FQ Block 1**

Intercept CPS=84.612837 Intercept Conc=0.028825  
Sensitivity=2935.360125 Correlation Coeff=0.999998

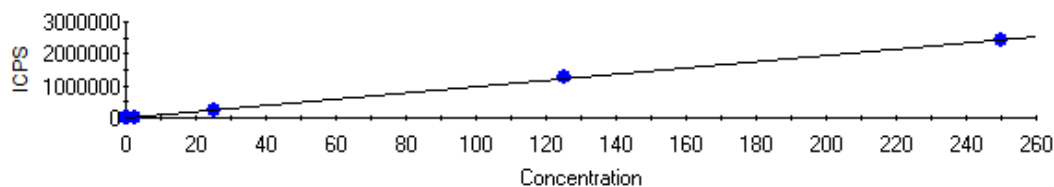
Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.000	0.000	83.57	0.00
229405_9800_Cal1	1.000	1.031	0.031	3112.10	3.14
229406_9800_Cal2	5.000	5.027	0.027	14839.70	0.53
229407_9800_Cal3	50.000	49.864	0.136	146453.69	0.27
229408_9800_Cal4	250.000	250.661	0.661	735864.11	0.26
229409_9800_Cal5	500.000	499.283	0.717	1465661.45	0.14



**105Pd FQ Block 1**

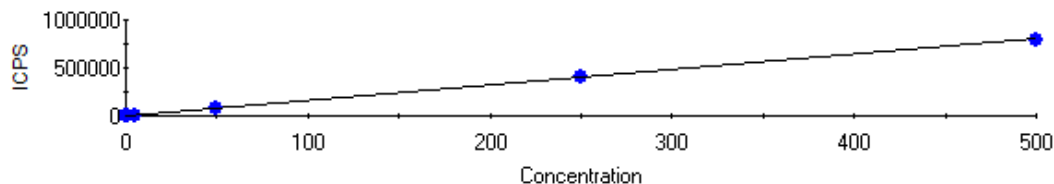
Intercept CPS=1340.675028 Intercept Conc=0.276679  
Sensitivity=4845.597433 Correlation Coeff=0.999855

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.024	0.024	1224.07	0.00
229405_9800_Cal1	1.000	1.004	0.004	6203.82	0.36
229406_9800_Cal2	5.000	5.126	0.126	26181.39	2.53
229407_9800_Cal3	50.000	50.768	0.768	247342.93	1.54
229408_9800_Cal4	250.000	250.545	0.545	1215379.79	0.22
229409_9800_Cal5	500.000	483.789	16.211	2345588.54	3.24

**107Ag FQ Block 1**

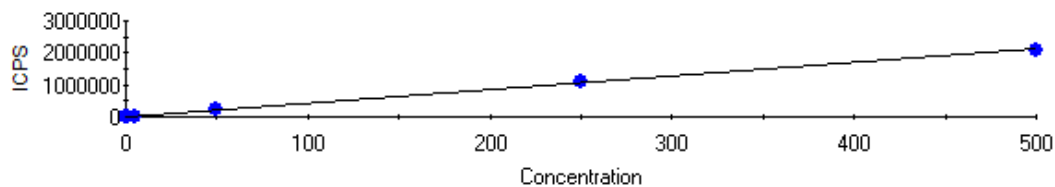
Intercept CPS=792.362386 Intercept Conc=0.080396  
Sensitivity=9855.723737 Correlation Coeff=0.999781

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.002	0.002	776.76	0.00
229405_9800_Cal1	0.500	0.517	0.017	5890.87	3.46
229406_9800_Cal2	2.500	2.669	0.169	27099.00	6.77
229407_9800_Cal3	25.000	26.224	1.224	259246.97	4.90
229408_9800_Cal4	125.000	128.579	3.579	1268036.15	2.86
229409_9800_Cal5	250.000	246.323	3.677	2428481.51	1.47

**111Cd FQ Block 1**

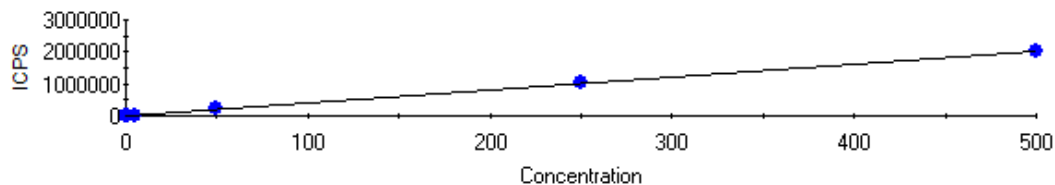
Intercept CPS=15.423314 Intercept Conc=0.009611  
Sensitivity=1604.757708 Correlation Coeff=0.999840

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.001	0.001	13.03	0.00
229405_9800_Cal1	1.000	1.053	0.053	1705.19	5.30
229406_9800_Cal2	5.000	5.162	0.162	8299.50	3.24
229407_9800_Cal3	50.000	51.110	1.110	82035.33	2.22
229408_9800_Cal4	250.000	252.883	2.883	405832.01	1.15
229409_9800_Cal5	500.000	487.358	12.642	782107.18	2.53

**118Sn FQ Block 1**

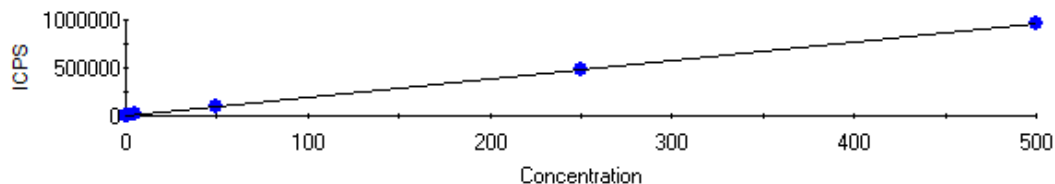
Intercept CPS=1057.321753 Intercept Conc=0.247827  
Sensitivity=4266.375443 Correlation Coeff=0.999912

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.380	0.380	2676.56	0.00
229405_9800_Cal1	1.000	0.790	0.210	4426.16	21.04
229406_9800_Cal2	5.000	4.867	0.133	21820.65	2.67
229407_9800_Cal3	50.000	50.170	0.170	215099.80	0.34
229408_9800_Cal4	250.000	252.717	2.717	1079243.72	1.09
229409_9800_Cal5	500.000	491.699	8.301	2098828.79	1.66

**121Sb FQ Block 1**

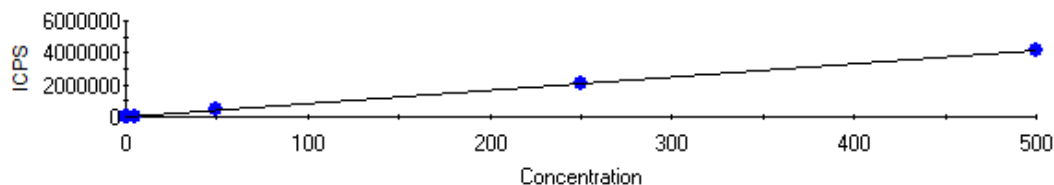
Intercept CPS=188.079024 Intercept Conc=0.046830  
Sensitivity=4016.180151 Correlation Coeff=0.999822

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.001	0.001	185.98	0.00
229405_9800_Cal1	1.000	1.056	0.056	4429.91	5.62
229406_9800_Cal2	5.000	5.252	0.252	21280.68	5.04
229407_9800_Cal3	50.000	51.956	1.956	208852.10	3.91
229408_9800_Cal4	250.000	257.795	7.795	1035539.62	3.12
229409_9800_Cal5	500.000	495.842	4.158	1991578.40	0.83

**137Ba FQ Block 1**

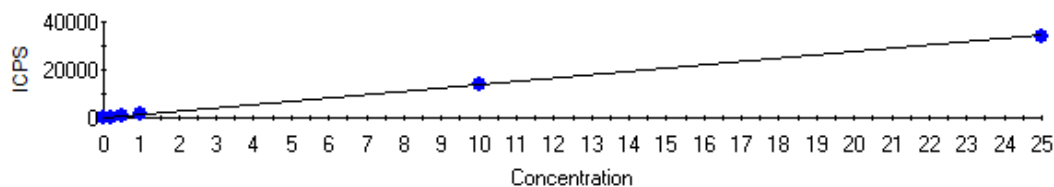
Intercept CPS=57.738796 Intercept Conc=0.029792  
Sensitivity=1938.090155 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.000	0.000	57.07	0.00
229405_9800_Cal1	1.000	1.006	0.006	2006.77	0.56
229406_9800_Cal2	5.000	5.049	0.049	9843.08	0.98
229407_9800_Cal3	50.000	49.093	0.907	95205.08	1.81
229408_9800_Cal4	250.000	250.458	0.458	485467.00	0.18
229409_9800_Cal5	500.000	495.726	4.274	960818.61	0.85

**195Pt FQ Block 1**

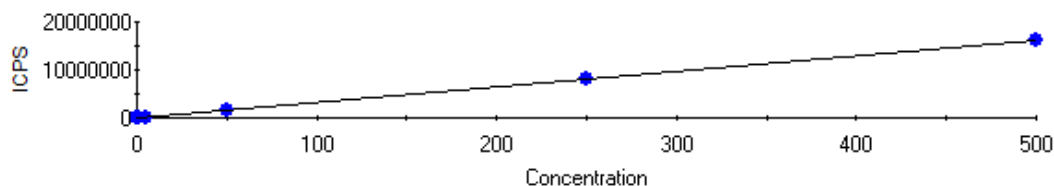
Intercept CPS=379.154432 Intercept Conc=0.045288  
Sensitivity=8372.051295 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.000	0.000	382.23	0.00
229405_9800_Cal1	1.000	0.995	0.005	8708.22	0.51
229406_9800_Cal2	5.000	5.051	0.051	42669.54	1.03
229407_9800_Cal3	50.000	50.029	0.029	419221.93	0.06
229408_9800_Cal4	250.000	250.089	0.089	2094138.17	0.04
229409_9800_Cal5	500.000	502.165	2.165	4204533.82	0.43

**201Hg FQ Block 1**

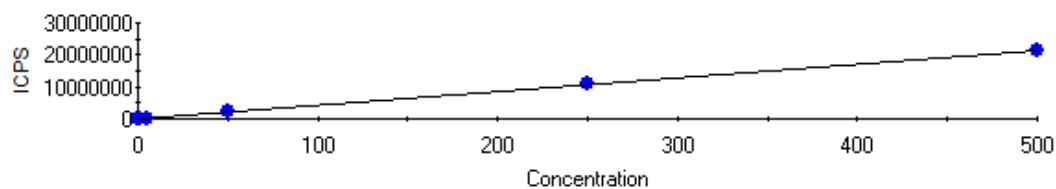
Intercept CPS=23.757775 Intercept Conc=0.017197  
Sensitivity=1381.474377 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.002	0.002	21.49	0.00
229405_9800_Cal1	0.200	0.207	0.007	310.24	3.69
229406_9800_Cal2	0.500	0.520	0.020	741.80	3.95
229407_9800_Cal3	1.000	1.005	0.005	1411.65	0.46
229408_9800_Cal4	10.000	10.096	0.096	13970.51	0.96
229409_9800_Cal5	25.000	24.761	0.239	34230.73	0.96

**205Tl FQ Block 1**

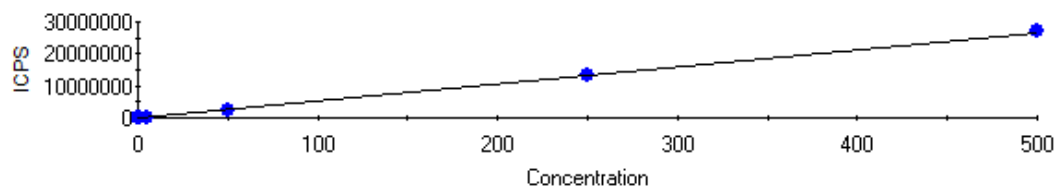
Intercept CPS=886.408978 Intercept Conc=0.027607  
Sensitivity=32108.554637 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.000	0.000	884.45	0.00
229405_9800_Cal1	1.000	1.011	0.011	33359.14	1.13
229406_9800_Cal2	5.000	5.081	0.081	164025.51	1.62
229407_9800_Cal3	50.000	49.530	0.470	1591223.88	0.94
229408_9800_Cal4	250.000	250.809	0.809	8054016.39	0.32
229409_9800_Cal5	500.000	499.797	0.203	16048634.44	0.04

**208Pb FQ Block 1**

Intercept CPS=2151.170929 Intercept Conc=0.049771  
Sensitivity=43221.677803 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	-0.004	0.004	1989.77	0.00
229405_9800_Cal1	1.000	1.005	0.005	45571.73	0.46
229406_9800_Cal2	5.000	5.056	0.056	220692.31	1.13
229407_9800_Cal3	50.000	49.990	0.010	2162804.69	0.02
229408_9800_Cal4	250.000	248.226	1.774	10730877.06	0.71
229409_9800_Cal5	500.000	499.974	0.026	21611869.01	0.01

**238U FQ Block 1**

Intercept CPS=407.209637 Intercept Conc=0.007722  
Sensitivity=52731.774469 Correlation Coeff=0.999940

Label	Defined	Measured	Error	Mean CPS	% Error
229404_9800_Cal0	0.000	0.002	0.002	508.86	0.00
229405_9800_Cal1	1.000	0.912	0.088	48501.33	8.79
229406_9800_Cal2	5.000	4.602	0.398	243085.63	7.96
229407_9800_Cal3	50.000	46.058	3.942	2429129.31	7.88
229408_9800_Cal4	250.000	250.867	0.867	13229094.98	0.35
229409_9800_Cal5	500.000	509.930	9.930	26889898.45	1.99

## Dilution Corrected Concentrations

229404\_9800\_Cal0 7/2/2019 4:13:19 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:23	0.001	-0.003	0.315	0.089	-0.126	-1.118	-1.004	1.756	104.700	<u>1688000.000</u>
2	16:13:26	-0.003	0.018	0.051	0.106	-0.300	-2.208	-0.464	-1.062	140.200	<u>1687000.000</u>
3	16:13:30	0.004	0.018	0.118	-0.364	-1.725	-2.668	-0.127	-0.654	131.300	<u>1676000.000</u>
x		0.001	0.011	0.162	-0.057	-0.717	-1.998	-0.532	0.013	125.400	<u>1684000.000</u>
σ		0.004	0.012	0.137	0.267	0.877	0.796	0.442	1.523	18.470	<u>16546.000</u>
%RSD		454.800	112.700	84.780	471.200	122.300	39.840	83.150	11300.000	14.730	<u>10.389</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:23	-9.880	3.733	98.960%	99.707%	0.003	-0.062	0.002	5.633	-0.002	-0.001
2	16:13:26	-11.650	-1.344	99.947%	99.639%	0.000	-0.060	-0.012	5.900	0.030	0.002
3	16:13:30	-15.550	-1.312	101.094%	100.655%	-0.003	0.019	-0.001	5.960	-0.032	-0.001
x		-12.360	0.359	100.000%	100.000%	-0.000	-0.034	-0.004	5.831	-0.001	-0.000
σ		2.902	2.922	1.068%	0.568%	0.003	0.046	0.007	0.174	0.031	0.002
%RSD		23.480	813.700	1.068	0.568	498600.000	134.100	185.200	2.982	2997.000	951.500
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:23	-0.005	-0.017	-0.038	-0.300	100.131%	-0.014	-0.230	0.005	99.741%	-0.010
2	16:13:26	0.002	-0.003	-0.026	-0.714	99.520%	-0.017	-0.117	-0.003	100.022%	-0.000
3	16:13:30	-0.001	0.006	-0.015	-0.792	100.349%	0.009	-0.081	-0.016	100.238%	-0.008
x		-0.001	-0.004	-0.027	-0.602	100.000%	-0.007	-0.143	-0.005	100.000%	-0.006
σ		0.003	0.011	0.011	0.265	0.430%	0.014	0.078	0.011	0.249%	0.005
%RSD		269.100	250.000	42.110	43.930	0.430	197.900	54.380	228.400	0.249	83.310
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:23	0.003	-0.007	-0.002	-0.003	98.909%	0.415	-0.002	0.006	<u>199.886%</u>	-0.000
2	16:13:26	-0.003	-0.026	-0.003	-0.004	100.588%	0.344	-0.001	-0.008	<u>100.222%</u>	-0.001
3	16:13:30	-0.001	-0.039	-0.000	0.003	100.502%	0.380	0.001	0.001	<u>199.892%</u>	0.002
x		-0.000	-0.024	-0.002	-0.001	100.000%	0.380	-0.001	-0.000	<u>100.000%</u>	0.000
σ		0.003	0.016	0.001	0.004	0.945%	0.035	0.002	0.007	<u>10.192%</u>	0.001
%RSD		892.700	65.870	82.220	244.000	0.945	9.295	336.400	2058.000	<u>10.192</u>	377.900
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:13:23	0.001	-0.000	-0.001	<u>199.750%</u>	0.002					
2	16:13:26	-0.006	0.000	-0.003	<u>100.225%</u>	0.003					
3	16:13:30	0.000	-0.000	-0.008	<u>100.025%</u>	0.001					
x		-0.002	-0.000	-0.004	<u>100.000%</u>	0.002					
σ		0.004	0.000	0.004	<u>10.238%</u>	0.001					
%RSD		227.700	754.100	97.920	<u>10.238</u>	35.040					

229405\_9800\_Cal1 7/2/2019 4:20:34 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:37	0.935	0.998	0.924	253.200	251.400	246.400	51.920	43.520	125.400	<u>1700000.000</u>
2	16:20:41	0.992	0.967	1.388	256.600	255.600	258.300	48.490	36.690	145.600	<u>1730000.000</u>
3	16:20:44	0.971	0.984	1.386	259.100	264.600	257.400	57.360	60.610	113.100	<u>1722000.000</u>
x		0.966	0.983	1.232	256.300	257.200	254.000	52.590	46.940	128.000	<u>1717000.000</u>
σ		0.029	0.015	0.267	2.978	6.779	6.595	4.475	12.320	16.400	<u>15490.000</u>
%RSD		2.959	1.575	21.700	1.162	2.635	2.596	8.510	26.250	12.810	<u>0.902</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:37	244.600	235.500	101.255%	100.489%	1.383	0.984	1.045	6.273	254.000	1.026
2	16:20:41	257.100	234.800	99.565%	99.772%	0.905	0.942	1.003	6.548	257.400	0.998
3	16:20:44	252.100	258.400	100.200%	99.845%	0.764	0.882	0.998	6.924	261.300	1.034
x		251.300	242.900	100.340%	100.035%	1.017	0.936	1.015	6.582	257.600	1.019
σ		6.283	13.430	0.854%	0.395%	0.324	0.051	0.026	0.327	3.645	0.019
%RSD		2.501	5.531	0.851	0.394	31.890	5.456	2.592	4.969	1.415	1.847
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:37	1.009	1.040	1.009	1.202	102.702%	0.984	0.832	1.046	99.845%	0.982
2	16:20:41	1.006	0.987	1.020	0.827	102.752%	1.025	0.999	1.002	100.354%	0.995
3	16:20:44	1.028	1.002	1.000	0.493	102.254%	1.042	0.907	0.989	100.827%	0.992
x		1.014	1.010	1.010	0.840	102.570%	1.017	0.913	1.013	100.342%	0.990
σ		0.012	0.027	0.010	0.355	0.274%	0.030	0.084	0.030	0.491%	0.007
%RSD		1.153	2.707	0.978	42.250	0.267	2.968	9.159	2.936	0.490	0.686
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:20:37	1.057	1.009	0.530	1.059	101.655%	0.777	1.061	0.947	<u>99.517%</u>	0.989
2	16:20:41	1.038	1.007	0.515	1.025	101.614%	0.771	1.093	1.056	<u>99.932%</u>	0.997
3	16:20:44	0.999	0.994	0.507	1.075	102.255%	0.822	1.015	1.014	<u>99.618%</u>	0.998
x		1.031	1.004	0.517	1.053	101.841%	0.790	1.056	1.006	<u>99.689%</u>	0.995
σ		0.030	0.008	0.012	0.025	0.359%	0.028	0.039	0.055	<u>0.216%</u>	0.005
%RSD		2.880	0.811	2.328	2.393	0.352	3.561	3.712	5.446	<u>0.217</u>	0.496
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:20:37	0.173	0.993	1.017	<u>99.069%</u>	0.907					
2	16:20:41	0.236	1.024	1.003	<u>98.839%</u>	0.916					
3	16:20:44	0.213	1.017	0.994	<u>99.859%</u>	0.913					
x		0.207	1.011	1.005	<u>99.256%</u>	0.912					
σ		0.032	0.016	0.012	<u>0.535%</u>	0.005					
%RSD		15.530	1.611	1.167	<u>0.539</u>	0.511					

229406\_9800\_Cal2 7/2/2019 4:27:45 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:27:49	4.893	5.013	5.085	500.600	505.000	504.100	262.100	234.600	137.700	<u>1740000.000</u>
2	16:27:53	4.840	5.019	4.866	494.200	518.500	506.600	260.300	248.600	143.300	<u>1725000.000</u>
3	16:27:56	4.996	4.877	4.878	502.800	504.800	504.700	255.400	254.100	126.800	<u>1737000.000</u>
x		4.910	4.970	4.943	499.200	509.400	505.100	259.300	245.800	135.900	<u>1734000.000</u>
σ		0.079	0.080	0.123	4.473	7.843	1.291	3.476	10.050	8.360	<u>7844.000</u>
%RSD		1.617	1.613	2.487	0.896	1.540	0.256	1.341	4.089	6.151	<u>0.452</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:27:49	506.700	471.800	99.262%	99.995%	5.392	5.158	5.144	6.892	505.900	4.916
2	16:27:53	503.600	531.800	99.815%	98.533%	5.066	5.058	5.052	7.034	501.100	5.002
3	16:27:56	507.600	456.200	99.329%	99.994%	4.641	5.142	5.103	6.893	511.100	5.096
x		506.000	486.600	99.469%	99.507%	5.033	5.119	5.100	6.940	506.100	5.005
σ		2.071	39.900	0.302%	0.844%	0.376	0.054	0.046	0.082	4.991	0.090
%RSD		0.409	8.201	0.303	0.848	7.475	1.048	0.896	1.178	0.986	1.800
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:27:49	5.077	5.117	5.145	5.405	101.074%	5.372	5.120	4.988	98.849%	5.050
2	16:27:53	5.028	5.180	5.118	4.987	101.946%	5.202	5.214	5.048	98.641%	5.072
3	16:27:56	4.986	5.027	5.030	4.815	101.024%	5.125	4.645	5.048	97.864%	5.057
x		5.030	5.108	5.098	5.069	101.348%	5.233	4.993	5.028	98.452%	5.060
σ		0.045	0.077	0.060	0.303	0.518%	0.127	0.305	0.035	0.519%	0.011
%RSD		0.898	1.504	1.180	5.986	0.511	2.417	6.107	0.691	0.527	0.222
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:27:49	5.061	5.060	2.644	5.046	100.906%	4.895	5.181	5.061	<u>100.164%</u>	5.100
2	16:27:53	4.951	5.133	2.673	5.232	101.358%	4.898	5.256	4.987	<u>99.445%</u>	4.998
3	16:27:56	5.067	5.187	2.691	5.208	100.418%	4.807	5.319	5.099	<u>98.540%</u>	5.056
x		5.027	5.126	2.669	5.162	100.894%	4.867	5.252	5.049	<u>99.383%</u>	5.051
σ		0.065	0.064	0.024	0.101	0.470%	0.052	0.069	0.057	<u>0.814%</u>	0.051
%RSD		1.297	1.246	0.886	1.957	0.466	1.060	1.313	1.130	<u>0.819</u>	1.008
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:27:49	0.520	5.093	5.039	<u>98.513%</u>	4.567					
2	16:27:53	0.506	5.088	5.067	<u>98.925%</u>	4.585					
3	16:27:56	0.533	5.061	5.063	<u>97.812%</u>	4.655					
x		0.520	5.081	5.056	<u>98.417%</u>	4.602					
σ		0.014	0.017	0.015	<u>0.563%</u>	0.046					
%RSD		2.611	0.337	0.296	<u>0.572</u>	1.007					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:02	49.250	50.050	49.680	2508.000	2600.000	2518.000	2529.000	2538.000	141.300	<u>1774000.000</u>
2	16:35:06	49.370	50.680	49.210	2523.000	2606.000	2573.000	2525.000	2556.000	127.900	<u>1791000.000</u>
3	16:35:10	49.770	51.070	49.710	2532.000	2625.000	2571.000	2532.000	2509.000	127.000	<u>1781000.000</u>
x		49.460	50.600	49.530	2521.000	2610.000	2554.000	2529.000	2534.000	132.100	<u>1782000.000</u>
σ		0.269	0.517	0.280	11.710	12.650	31.590	3.761	23.740	8.017	<u>18852.000</u>
%RSD		0.544	1.021	0.566	0.464	0.485	1.237	0.149	0.937	6.069	<u>10.497</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:02	2522.000	2555.000	96.362%	96.241%	50.330	49.520	50.480	13.990	2540.000	50.050
2	16:35:06	2550.000	2502.000	96.178%	96.091%	48.350	49.980	51.110	12.770	2523.000	50.220
3	16:35:10	2571.000	2766.000	96.134%	95.845%	49.800	50.230	50.970	13.680	2524.000	49.990
x		2548.000	2608.000	96.224%	96.059%	49.490	49.910	50.850	13.480	2529.000	50.090
σ		24.850	139.500	0.121%	0.200%	1.022	0.359	0.333	0.634	9.754	0.120
%RSD		0.975	5.349	0.126	0.208	2.066	0.719	0.655	4.703	0.386	0.239
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:02	50.050	50.980	50.900	51.660	97.648%	51.030	50.020	49.930	95.651%	49.860
2	16:35:06	49.630	50.210	50.720	51.740	99.149%	50.990	50.000	50.720	95.791%	49.680
3	16:35:10	50.180	50.760	50.830	50.980	99.143%	50.070	50.050	50.650	96.445%	49.640
x		49.950	50.650	50.820	51.460	98.647%	50.700	50.020	50.440	95.962%	49.730
σ		0.285	0.395	0.093	0.418	0.865%	0.543	0.024	0.438	0.424%	0.121
%RSD		0.571	0.779	0.182	0.813	0.877	1.071	0.048	0.869	0.442	0.243
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:02	49.720	50.660	26.240	51.280	98.174%	49.930	51.800	48.970	<u>196.817%</u>	49.770
2	16:35:06	49.970	51.100	26.170	50.720	98.639%	50.240	52.120	48.910	<u>196.779%</u>	50.390
3	16:35:10	49.900	50.540	26.260	51.330	98.756%	50.350	51.940	49.400	<u>197.354%</u>	49.920
x		49.860	50.770	26.220	51.110	98.523%	50.170	51.960	49.090	<u>196.983%</u>	50.030
σ		0.131	0.298	0.046	0.340	0.308%	0.219	0.159	0.263	<u>19.321%</u>	0.326
%RSD		0.262	0.587	0.177	0.665	0.313	0.436	0.306	0.536	<u>10.331</u>	0.652
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:35:02	1.002	49.420	49.690	<u>197.069%</u>	44.580					
2	16:35:06	1.055	49.660	50.300	<u>196.912%</u>	44.790					
3	16:35:10	0.956	49.510	49.980	<u>197.732%</u>	<u>148.800</u>					
x		1.005	49.530	49.990	<u>197.238%</u>	<u>146.060</u>					
σ		0.050	0.123	0.308	<u>10.436%</u>	<u>12.379</u>					
%RSD		4.939	0.249	0.617	<u>10.448</u>	<u>15.164</u>					



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7/2/2019 4:42:12 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:15	250.500	253.700	252.700	<u>12340.000</u>	12630.000	12420.000	12360.000	12370.000	138.400	<u>2022000.000</u>
2	16:42:19	251.300	253.300	252.300	<u>12470.000</u>	12750.000	12520.000	12370.000	12770.000	137.000	<u>2055000.000</u>
3	16:42:23	252.100	258.100	255.800	<u>12280.000</u>	12540.000	12240.000	12140.000	12580.000	158.000	<u>2020000.000</u>
x		251.300	255.000	253.600	<u>12360.000</u>	12640.000	12390.000	12290.000	12580.000	144.500	<u>2032000.000</u>
σ		0.805	2.692	1.914	<u>196.530</u>	101.500	145.800	129.800	198.400	11.770	<u>20000.000</u>
%RSD		0.320	1.056	0.755	<u>10.781</u>	0.803	1.177	1.056	1.577	8.147	<u>10.984</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:15	<u>12480.000</u>	12570.000	97.022%	95.051%	252.600	250.500	253.500	50.350	<u>12380.000</u>	251.400
2	16:42:19	<u>12600.000</u>	12660.000	96.210%	95.797%	251.000	252.300	253.800	46.000	12200.000	250.700
3	16:42:23	<u>12440.000</u>	12340.000	96.949%	95.194%	248.800	249.400	252.000	48.460	12140.000	251.300
x		<u>12510.000</u>	12520.000	96.727%	95.347%	250.800	250.700	253.100	48.270	<u>12240.000</u>	251.100
σ		<u>184.910</u>	166.000	0.449%	0.396%	1.927	1.470	0.988	2.180	<u>122.500</u>	0.411
%RSD		<u>10.679</u>	1.325	0.464	0.415	0.768	0.586	0.390	4.517	<u>1.001</u>	0.164
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:15	251.100	252.800	251.800	256.700	95.537%	255.400	246.500	253.100	95.541%	246.200
2	16:42:19	245.000	249.700	248.500	251.700	98.319%	249.600	239.500	251.500	96.164%	249.200
3	16:42:23	248.200	251.600	252.000	255.100	96.202%	252.700	245.200	252.100	95.630%	248.600
x		248.100	251.400	250.800	254.500	96.686%	252.600	243.700	252.200	95.778%	248.000
σ		3.019	1.587	1.982	2.556	1.453%	2.872	3.709	0.775	0.337%	1.584
%RSD		1.217	0.631	0.790	1.004	1.503	1.137	1.522	0.307	0.352	0.639
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:15	250.100	250.400	128.800	253.200	97.496%	252.500	258.400	250.900	<u>96.433%</u>	248.200
2	16:42:19	250.600	250.900	127.900	252.300	98.771%	252.400	257.200	250.400	<u>96.758%</u>	251.100
3	16:42:23	251.300	250.400	129.100	253.200	98.522%	253.200	257.800	250.200	<u>96.295%</u>	250.900
x		250.700	250.500	128.600	252.900	98.263%	252.700	257.800	250.500	<u>96.495%</u>	250.100
σ		0.621	0.316	0.633	0.532	0.676%	0.440	0.617	0.356	<u>10.238%</u>	1.656
%RSD		0.248	0.126	0.492	0.210	0.688	0.174	0.240	0.142	<u>10.246</u>	0.662
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:42:15	9.952	<u>249.400</u>	<u>247.600</u>	<u>95.800%</u>	<u>251.100</u>					
2	16:42:19	10.210	<u>251.200</u>	<u>248.300</u>	<u>95.885%</u>	<u>250.900</u>					
3	16:42:23	10.130	<u>251.800</u>	<u>248.800</u>	<u>95.316%</u>	<u>250.600</u>					
x		10.100	<u>250.800</u>	<u>248.200</u>	<u>95.667%</u>	<u>250.900</u>					
σ		0.131	<u>1.243</u>	<u>0.589</u>	<u>0.307%</u>	<u>0.269</u>					
%RSD		1.301	<u>0.496</u>	<u>0.237</u>	<u>0.321</u>	<u>0.107</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:49:29	<u>M 505.800</u>	497.000	<u>M 505.200</u>	<u>T 24480.000</u>	24850.000	24300.000	23400.000	23880.000	136.400	<u>T 2322000.000</u>
2	16:49:33	499.500	493.900	499.300	<u>T 24590.000</u>	24880.000	24490.000	23540.000	23960.000	151.700	<u>T 2336000.000</u>
3	16:49:37	490.400	488.600	500.000	<u>T 24800.000</u>	24790.000	24420.000	23550.000	24540.000	134.100	<u>T 2316000.000</u>
X		<u>M 498.600</u>	<u>493.200</u>	<u>M 501.500</u>	<u>T 24620.000</u>	<u>24840.000</u>	<u>24400.000</u>	<u>23500.000</u>	<u>24130.000</u>	<u>140.700</u>	<u>T 2325000.000</u>
σ		<u>M 7.774</u>	4.233	<u>M 3.209</u>	<u>T 162.700</u>	44.350	95.520	85.400	364.200	9.592	<u>T 10300.000</u>
%RSD		<u>M 1.559</u>	0.858	<u>M 0.640</u>	<u>T 0.661</u>	0.179	0.391	0.363	1.510	6.815	<u>T 0.443</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:49:29	<u>T 24880.000</u>	24530.000	95.894%	<u>T 93.328%</u>	<u>M 504.200</u>	498.300	498.300	94.880	<u>T 24600.000</u>	495.100
2	16:49:33	<u>T 24940.000</u>	24580.000	96.164%	94.428%	497.000	491.800	496.300	100.800	<u>T 24780.000</u>	497.000
3	16:49:37	<u>T 24830.000</u>	<u>M 25530.000</u>	96.144%	94.620%	491.600	492.500	497.000	101.000	<u>T 24610.000</u>	495.500
X		<u>T 24890.000</u>	<u>M 24880.000</u>	96.067%	<u>T 94.125%</u>	<u>M 497.600</u>	494.200	497.200	98.920	<u>T 24660.000</u>	495.900
σ		<u>T 56.040</u>	<u>M 567.100</u>	0.150%	<u>T 0.697%</u>	<u>M 6.287</u>	3.555	0.985	3.499	<u>T 102.300</u>	1.012
%RSD		<u>T 0.225</u>	<u>M 2.279</u>	0.156	<u>T 0.741</u>	<u>M 1.263</u>	0.719	0.198	3.537	<u>T 0.415</u>	0.204
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:49:29	<u>TM 501.000</u>	497.400	487.000	497.200	93.087%	493.300	468.900	499.600	93.948%	<u>T 498.000</u>
2	16:49:33	<u>T 499.600</u>	493.300	489.000	498.400	92.732%	496.200	473.500	500.000	93.997%	<u>T 498.300</u>
3	16:49:37	<u>T 497.700</u>	493.000	487.000	495.300	93.869%	489.200	468.500	499.200	94.469%	<u>T 496.200</u>
X		<u>TM 499.400</u>	494.500	487.700	497.000	93.229%	492.900	470.300	499.600	94.138%	<u>T 497.500</u>
σ		<u>TM 1.690</u>	2.471	1.106	1.595	0.582%	3.503	2.797	0.410	0.288%	<u>T 1.112</u>
%RSD		<u>TM 0.338</u>	0.500	0.227	0.321	0.624	0.711	0.595	0.082	0.306	<u>T 0.223</u>
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:49:29	499.800	484.000	246.200	487.700	97.137%	492.800	496.200	495.600	<u>T 95.760%</u>	<u>TM 500.900</u>
2	16:49:33	<u>M 500.900</u>	485.700	246.600	485.800	97.280%	490.500	495.300	498.400	<u>T 95.684%</u>	<u>T 499.500</u>
3	16:49:37	497.200	481.700	246.200	488.600	97.760%	491.700	496.000	493.300	<u>T 95.383%</u>	<u>TM 506.100</u>
X		<u>M 499.300</u>	<u>483.800</u>	<u>246.300</u>	<u>487.400</u>	<u>97.392%</u>	<u>491.700</u>	<u>495.800</u>	<u>495.700</u>	<u>T 95.609%</u>	<u>TM 502.200</u>
σ		<u>M 1.921</u>	2.009	0.239	1.407	0.326%	1.144	0.473	2.567	<u>T 0.199%</u>	<u>TM 3.460</u>
%RSD		<u>M 0.385</u>	0.415	0.097	0.289	0.335	0.233	0.095	0.518	<u>T 0.208</u>	<u>TM 0.689</u>
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:49:29	24.700	<u>TM 500.200</u>	<u>TM 500.200</u>	<u>T 94.182%</u>	<u>TM 509.700</u>					
2	16:49:33	24.570	<u>T 494.900</u>	<u>T 498.000</u>	<u>T 94.512%</u>	<u>TM 508.500</u>					
3	16:49:37	<u>M 25.020</u>	<u>TM 504.300</u>	<u>TM 501.700</u>	<u>T 93.945%</u>	<u>TM 511.600</u>					
X		<u>M 24.760</u>	<u>TM 499.800</u>	<u>TM 500.000</u>	<u>T 94.213%</u>	<u>TM 509.900</u>					
σ		<u>M 0.231</u>	<u>TM 4.723</u>	<u>TM 1.861</u>	<u>T 0.285%</u>	<u>TM 1.571</u>					
%RSD		<u>M 0.931</u>	<u>TM 0.945</u>	<u>TM 0.372</u>	<u>T 0.302</u>	<u>TM 0.308</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:56:43	113.200	117.000	116.900	5700.000	5862.000	5753.000	5737.000	5829.000	126.600	<u>1689000.000</u>
2	16:56:46	111.700	116.000	116.400	5636.000	5758.000	5601.000	5673.000	5696.000	104.600	<u>1662000.000</u>
3	16:56:50	113.200	115.700	116.500	5676.000	5795.000	5688.000	5742.000	5856.000	141.500	<u>1680000.000</u>
x		112.700	116.200	116.600	5670.000	5805.000	5681.000	5717.000	5794.000	124.300	<u>1677000.000</u>
$\sigma$		0.876	0.717	0.248	32.440	52.620	76.080	38.400	85.300	18.610	<u>13610.000</u>
%RSD		0.778	0.617	0.213	0.572	0.907	1.339	0.672	1.472	14.970	<u>0.812</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:56:43	5714.000	5822.000	92.174%	94.932%	110.000	111.800	111.500	24.090	5631.000	109.700
2	16:56:46	5622.000	5943.000	93.494%	94.816%	109.700	110.300	111.100	23.920	5624.000	110.500
3	16:56:50	5642.000	5601.000	92.777%	93.322%	113.200	112.800	112.000	18.420	5687.000	110.500
x		5659.000	5789.000	92.815%	94.357%	111.000	111.600	111.500	22.150	5647.000	110.200
$\sigma$		48.180	173.600	0.661%	0.898%	1.945	1.259	0.446	3.226	34.450	0.476
%RSD		0.851	2.999	0.712	0.952	1.753	1.127	0.400	14.570	0.610	0.432
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:56:43	110.000	110.300	111.300	115.600	95.331%	109.600	108.700	112.300	92.562%	111.300
2	16:56:46	110.100	109.900	111.300	114.200	95.494%	108.700	110.600	111.700	94.415%	109.500
3	16:56:50	111.400	111.100	112.400	116.000	94.448%	110.800	113.900	112.500	93.510%	110.800
x		110.500	110.400	111.700	115.300	95.091%	109.700	111.100	112.200	93.496%	110.500
$\sigma$		0.742	0.651	0.602	0.954	0.563%	1.037	2.631	0.392	0.926%	0.909
%RSD		0.672	0.589	0.539	0.828	0.592	0.945	2.368	0.349	0.991	0.823
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:56:43	104.000	106.300	57.410	113.000	97.129%	115.300	116.400	110.600	<u>95.509%</u>	108.700
2	16:56:46	103.400	105.600	56.880	112.300	97.685%	116.000	116.600	110.800	<u>95.848%</u>	108.200
3	16:56:50	104.100	106.900	57.570	113.700	97.153%	116.000	117.700	110.500	<u>95.545%</u>	108.100
x		103.800	106.300	57.280	113.000	97.322%	115.800	116.900	110.700	<u>95.634%</u>	108.300
$\sigma$		0.419	0.689	0.364	0.699	0.314%	0.445	0.702	0.161	<u>0.186%</u>	0.315
%RSD		0.404	0.649	0.635	0.618	0.323	0.385	0.601	0.145	<u>0.195</u>	0.290
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:56:43	4.017	<u>107.900</u>	109.600	<u>96.137%</u>	<u>110.700</u>					
2	16:56:46	4.095	<u>108.700</u>	110.500	<u>95.805%</u>	<u>111.900</u>					
3	16:56:50	4.071	<u>108.800</u>	110.700	<u>96.025%</u>	<u>111.900</u>					
x		4.061	<u>108.400</u>	110.300	<u>95.989%</u>	<u>111.500</u>					
$\sigma$		0.040	<u>0.483</u>	0.589	<u>0.169%</u>	<u>0.688</u>					
%RSD		0.987	<u>0.445</u>	0.534	<u>0.176</u>	<u>0.617</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:57	0.093	0.083	1.318	3.994	2.116	0.442	4.771	9.657	125.900	<u>1696000.000</u>
2	17:04:01	0.072	0.064	0.904	2.396	-0.150	-0.754	1.725	5.687	114.200	<u>1676000.000</u>
3	17:04:04	0.093	0.040	1.128	1.048	-0.665	-1.011	3.288	-11.890	133.300	<u>1700000.000</u>
x		0.086	0.062	1.117	2.479	0.433	-0.441	3.261	1.150	124.500	<u>1691000.000</u>
σ		0.012	0.022	0.207	1.475	1.479	0.775	1.523	11.470	9.657	<u>12740.000</u>
%RSD		14.330	34.980	18.560	59.490	341.300	175.800	46.700	997.000	7.759	<u>0.754</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:57	-5.167	-1.135	90.769%	86.732%	0.117	-0.108	0.043	4.619	2.263	0.063
2	17:04:01	-6.372	1.651	91.598%	91.425%	0.028	-0.156	0.026	4.725	1.957	0.042
3	17:04:04	-5.114	-1.039	90.845%	92.490%	0.090	-0.147	0.024	5.035	0.845	0.019
x		-5.551	-0.174	91.071%	90.216%	0.078	-0.137	0.031	4.793	1.688	0.041
σ		0.712	1.582	0.458%	3.064%	0.046	0.025	0.010	0.216	0.746	0.022
%RSD		12.820	909.000	0.503	3.396	58.600	18.440	33.780	4.508	44.200	52.920
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:57	0.041	0.024	0.043	-0.062	93.631%	0.009	-0.040	0.042	92.668%	0.039
2	17:04:01	0.033	-0.018	0.019	-0.476	92.839%	0.025	-0.152	0.029	92.766%	0.024
3	17:04:04	0.017	-0.023	-0.012	-0.737	93.510%	-0.021	-0.070	0.025	93.719%	0.012
x		0.030	-0.006	0.017	-0.425	93.327%	0.004	-0.087	0.032	93.051%	0.025
σ		0.012	0.026	0.028	0.341	0.427%	0.024	0.058	0.009	0.580%	0.014
%RSD		39.610	466.000	167.400	80.190	0.457	552.300	66.320	28.420	0.624	55.080
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:57	0.058	-0.008	0.028	0.033	94.404%	0.460	0.028	0.044	<u>96.129%</u>	0.061
2	17:04:01	0.022	-0.011	0.020	0.031	94.181%	0.446	0.023	0.022	<u>96.361%</u>	0.036
3	17:04:04	0.007	-0.015	0.007	0.028	95.228%	0.459	0.012	0.017	<u>96.652%</u>	0.010
x		0.029	-0.011	0.018	0.031	94.604%	0.455	0.021	0.027	<u>96.380%</u>	0.036
σ		0.027	0.004	0.011	0.002	0.551%	0.008	0.008	0.014	<u>0.262%</u>	0.025
%RSD		92.410	31.170	59.880	7.902	0.583	1.685	39.180	51.810	<u>0.272</u>	70.280
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:03:57	0.023	0.116	0.063	<u>97.347%</u>	0.036					
2	17:04:01	-0.001	0.098	0.037	<u>97.462%</u>	0.030					
3	17:04:04	0.004	0.068	0.016	<u>96.749%</u>	0.016					
x		0.009	0.094	0.039	<u>97.186%</u>	0.027					
σ		0.012	0.024	0.023	<u>0.383%</u>	0.010					
%RSD		139.100	25.480	60.240	<u>0.394</u>	37.770					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:11	1.040	1.054	2.038	260.800	255.100	256.800	62.730	36.380	129.300	<u>1749000.000</u>
2	17:11:14	1.001	1.039	1.892	259.200	263.100	261.000	57.750	63.010	120.500	<u>1721000.000</u>
3	17:11:18	0.976	1.145	2.440	256.000	263.100	269.000	55.890	57.990	129.600	<u>1760000.000</u>
x		1.006	1.079	2.123	258.700	260.500	262.300	58.790	52.460	126.500	<u>1744000.000</u>
σ		0.032	0.057	0.284	2.447	4.633	6.223	3.534	14.150	5.188	<u>120230.000</u>
%RSD		3.221	5.294	13.370	0.946	1.779	2.373	6.011	26.980	4.103	<u>1.160</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:11	257.600	221.200	93.257%	93.326%	1.440	1.097	1.101	4.709	262.600	1.131
2	17:11:14	254.400	222.900	93.666%	94.229%	0.809	0.933	1.015	5.032	260.400	1.057
3	17:11:18	261.000	293.800	93.473%	93.351%	0.812	1.016	1.054	4.900	257.000	1.042
x		257.700	246.000	93.466%	93.636%	1.020	1.015	1.057	4.880	260.000	1.077
σ		3.277	41.400	0.205%	0.514%	0.364	0.082	0.043	0.162	2.810	0.047
%RSD		1.272	16.830	0.219	0.549	35.640	8.106	4.091	3.322	1.081	4.411
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:11	1.067	1.166	1.076	1.188	96.940%	1.100	0.854	1.096	94.726%	1.076
2	17:11:14	1.018	1.103	0.977	0.651	98.750%	1.113	0.807	1.081	95.182%	1.069
3	17:11:18	1.003	0.982	1.073	0.467	98.351%	0.943	0.593	1.000	96.518%	1.022
x		1.029	1.084	1.042	0.768	98.014%	1.052	0.751	1.059	95.475%	1.056
σ		0.034	0.094	0.056	0.375	0.951%	0.095	0.139	0.052	0.931%	0.029
%RSD		3.274	8.652	5.401	48.730	0.970	8.987	18.520	4.894	0.975	2.765
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:11:11	1.108	1.027	0.566	1.141	97.429%	0.857	1.107	1.092	<u>197.036%</u>	1.068
2	17:11:14	1.010	1.040	0.528	1.018	98.664%	0.821	1.071	1.064	<u>197.623%</u>	1.029
3	17:11:18	1.052	0.933	0.539	0.970	99.201%	0.844	1.009	0.995	<u>196.594%</u>	1.049
x		1.057	1.000	0.544	1.043	98.431%	0.841	1.062	1.050	<u>197.084%</u>	1.049
σ		0.049	0.058	0.020	0.088	0.908%	0.018	0.050	0.050	<u>10.516%</u>	0.020
%RSD		4.658	5.822	3.586	8.442	0.923	2.169	4.681	4.727	<u>10.532</u>	1.866
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:11:11	0.249	1.107	1.109	<u>196.495%</u>	0.971					
2	17:11:14	0.253	1.060	1.042	<u>196.864%</u>	0.944					
3	17:11:18	0.215	1.035	1.037	<u>196.846%</u>	0.929					
x		0.239	1.067	1.063	<u>196.735%</u>	0.948					
σ		0.021	0.037	0.040	<u>10.208%</u>	0.022					
%RSD		8.672	3.443	3.791	<u>10.215</u>	2.276					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:18:24	4.693	5.122	6.143	494.600	504.300	505.700	251.000	271.500	121.100	<u>1726000.000</u>
2	17:18:27	4.777	5.031	5.130	494.900	513.200	500.000	265.600	256.800	128.800	<u>1727000.000</u>
3	17:18:31	4.795	5.100	5.655	490.300	511.900	518.900	269.000	292.100	132.400	<u>1761000.000</u>
x		4.755	5.084	5.643	493.300	509.800	508.200	261.900	273.500	127.400	<u>1738000.000</u>
σ		0.055	0.048	0.507	2.580	4.819	9.683	9.538	17.700	5.737	<u>120240.000</u>
%RSD		1.152	0.938	8.980	0.523	0.945	1.905	3.642	6.471	4.502	<u>1.165</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:18:24	503.500	477.500	95.558%	94.994%	4.747	5.088	5.085	5.502	501.100	5.114
2	17:18:27	503.800	480.500	95.910%	94.105%	5.510	5.137	5.145	5.195	508.200	5.122
3	17:18:31	515.100	453.000	95.538%	95.482%	4.775	4.761	5.091	6.828	511.500	4.970
x		507.500	470.300	95.669%	94.861%	5.011	4.995	5.107	5.842	506.900	5.068
σ		6.581	15.080	0.209%	0.698%	0.433	0.205	0.033	0.868	5.332	0.085
%RSD		1.297	3.206	0.219	0.736	8.632	4.093	0.647	14.860	1.052	1.685
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:18:24	5.119	5.166	5.082	4.995	99.450%	5.174	4.558	5.059	96.454%	5.068
2	17:18:27	5.028	5.147	5.092	4.735	98.105%	5.138	4.778	5.165	95.812%	5.039
3	17:18:31	5.044	5.072	5.103	5.132	99.004%	5.031	4.881	5.196	96.567%	5.094
x		5.064	5.128	5.092	4.954	98.853%	5.115	4.739	5.140	96.278%	5.067
σ		0.049	0.049	0.011	0.202	0.685%	0.075	0.165	0.072	0.407%	0.028
%RSD		0.958	0.964	0.207	4.073	0.693	1.457	3.471	1.391	0.423	0.544
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:18:24	4.861	5.173	2.674	5.204	98.223%	4.974	5.333	4.918	<u>197.128%</u>	5.030
2	17:18:27	5.120	5.126	2.686	5.226	98.725%	4.989	5.301	5.174	<u>197.532%</u>	5.071
3	17:18:31	5.011	5.062	2.632	5.122	98.562%	4.938	5.359	5.080	<u>197.149%</u>	5.046
x		4.997	5.120	2.664	5.184	98.503%	4.967	5.331	5.057	<u>197.270%</u>	5.049
σ		0.130	0.056	0.029	0.055	0.256%	0.026	0.029	0.130	<u>10.227%</u>	0.020
%RSD		2.596	1.089	1.071	1.065	0.260	0.527	0.549	2.566	<u>10.233</u>	0.404
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:18:24	0.552	5.112	5.050	<u>196.620%</u>	4.573					
2	17:18:27	0.469	5.113	5.047	<u>197.182%</u>	4.616					
3	17:18:31	0.478	5.103	5.068	<u>196.756%</u>	4.625					
x		0.500	5.109	5.055	<u>196.853%</u>	4.605					
σ		0.045	0.005	0.012	<u>10.293%</u>	0.028					
%RSD		9.076	0.104	0.232	<u>10.303</u>	0.599					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:37	0.280	0.029	0.776	<u>TM 51220.000</u>	<u>M 50990.000</u>	<u>TM 51090.000</u>	13.190	<u>M 52630.000</u>	3919.000	<u>T 1745000.000</u>
2	17:25:40	0.237	0.028	0.794	<u>TM 50940.000</u>	<u>M 50620.000</u>	<u>TM 50760.000</u>	12.050	<u>M 52250.000</u>	3917.000	<u>T 1733000.000</u>
3	17:25:44	0.292	0.029	0.864	<u>TM 51100.000</u>	<u>M 50820.000</u>	<u>TM 50690.000</u>	13.700	<u>M 52630.000</u>	3937.000	<u>T 1727000.000</u>
X		0.270	0.029	0.811	<u>TM 51090.000</u>	<u>M 50810.000</u>	<u>TM 50850.000</u>	12.980	<u>M 52500.000</u>	3924.000	<u>T 1735000.000</u>
σ		0.029	0.000	0.047	<u>TM 143.500</u>	<u>M 186.400</u>	<u>TM 214.300</u>	0.844	<u>M 222.100</u>	11.070	<u>T 8934.000</u>
%RSD		10.800	0.366	5.746	<u>TM 0.281</u>	<u>M 0.367</u>	<u>TM 0.421</u>	6.501	<u>M 0.423</u>	0.282	<u>T 0.515</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:37	<u>TM 52330.000</u>	<u>M 49100.000</u>	83.010%	87.967%	<u>M 1036.000</u>	0.045	0.186	5.632	<u>TM 51900.000</u>	0.154
2	17:25:40	<u>TM 51960.000</u>	<u>M 49490.000</u>	83.251%	88.160%	<u>M 1024.000</u>	-0.123	0.139	5.944	<u>TM 51700.000</u>	0.060
3	17:25:44	<u>TM 51970.000</u>	<u>M 49720.000</u>	82.325%	87.814%	<u>M 1037.000</u>	-0.067	0.159	5.718	<u>TM 52020.000</u>	0.044
X		<u>TM 52080.000</u>	<u>M 49430.000</u>	82.862%	87.981%	<u>M 1032.000</u>	-0.048	0.162	5.765	<u>TM 51880.000</u>	0.086
σ		<u>TM 213.400</u>	<u>M 310.100</u>	0.481%	0.173%	<u>M 7.187</u>	0.086	0.023	0.161	<u>TM 163.600</u>	0.059
%RSD		<u>TM 0.410</u>	<u>M 0.627</u>	0.580	0.197	<u>M 0.696</u>	178.600	14.450	2.790	<u>TM 0.315</u>	69.260
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:37	0.068	0.087	0.174	-0.110	82.328%	0.104	-0.036	0.449	84.603%	0.118
2	17:25:40	0.071	0.040	0.179	-0.513	82.314%	0.074	-0.045	0.450	84.843%	0.086
3	17:25:44	0.047	0.022	0.180	-0.871	81.112%	0.100	-0.135	0.424	84.023%	0.074
X		0.062	0.050	0.178	-0.498	81.918%	0.093	-0.072	0.441	84.490%	0.093
σ		0.013	0.034	0.004	0.381	0.698%	0.016	0.055	0.015	0.421%	0.022
%RSD		20.940	67.210	1.979	76.470	0.852	17.340	75.670	3.292	0.499	24.150
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:25:37	<u>M 1017.000</u>	0.044	0.026	0.057	89.355%	-0.004	0.134	0.148	<u>T 89.854%</u>	0.073
2	17:25:40	<u>TM 1050.000</u>	0.040	0.018	-0.021	89.647%	-0.013	0.109	0.130	<u>T 89.989%</u>	0.047
3	17:25:44	<u>M 1013.000</u>	-0.021	0.012	0.026	88.831%	-0.021	0.083	0.104	<u>T 88.960%</u>	0.034
X		<u>TM 1027.000</u>	0.021	0.019	0.021	89.278%	-0.012	0.109	0.127	<u>T 89.601%</u>	0.051
σ		<u>TM 20.210</u>	0.036	0.007	0.039	0.413%	0.009	0.026	0.022	<u>T 0.559%</u>	0.020
%RSD		<u>TM 1.968</u>	176.200	36.950	190.400	0.463	69.660	23.510	17.240	<u>T 0.624</u>	38.770
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:25:37	0.018	0.066	0.104	85.489%	0.041					
2	17:25:40	0.020	0.044	0.071	85.549%	0.026					
3	17:25:44	0.016	0.028	0.057	85.844%	0.018					
X		0.018	0.046	0.077	85.627%	0.028					
σ		0.002	0.019	0.024	0.190%	0.012					
%RSD		10.370	41.670	31.380	0.222	42.190					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:51	98.730	98.880	99.170	<u>TM 51060.000</u>	<u>M 50700.000</u>	<u>TM 50490.000</u>	5047.000	<u>M 56520.000</u>	3821.000	<u>T 1856000.000</u>
2	17:32:55	98.190	97.500	98.100	<u>TM 50980.000</u>	<u>M 50590.000</u>	<u>TM 50010.000</u>	4944.000	<u>M 56100.000</u>	3896.000	<u>T 1840000.000</u>
3	17:32:58	98.240	97.280	98.590	<u>TM 51220.000</u>	<u>M 50800.000</u>	<u>TM 50390.000</u>	4991.000	<u>M 56920.000</u>	3950.000	<u>T 1851000.000</u>
X		98.390	97.890	98.620	<u>TM 51090.000</u>	<u>M 50700.000</u>	<u>TM 50300.000</u>	4994.000	<u>M 56510.000</u>	3889.000	<u>T 1849000.000</u>
σ		0.301	0.867	0.537	<u>TM 123.500</u>	<u>M 107.900</u>	<u>TM 255.900</u>	51.490	<u>M 410.600</u>	64.580	<u>T 8435.000</u>
%RSD		0.306	0.886	0.545	<u>TM 0.242</u>	<u>M 0.213</u>	<u>TM 0.509</u>	1.031	<u>M 0.727</u>	1.660	<u>T 0.456</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:51	<u>TM 51680.000</u>	<u>M 50630.000</u>	83.303%	84.425%	<u>M 1137.000</u>	105.300	104.400	19.370	<u>TM 51510.000</u>	103.700
2	17:32:55	<u>TM 51460.000</u>	<u>M 49490.000</u>	83.193%	83.934%	<u>M 1120.000</u>	102.500	104.900	22.220	<u>TM 51470.000</u>	103.900
3	17:32:58	<u>TM 51700.000</u>	<u>M 50100.000</u>	84.412%	84.280%	<u>M 1128.000</u>	103.700	103.300	21.970	<u>TM 51310.000</u>	104.100
X		<u>TM 51610.000</u>	<u>M 50070.000</u>	83.636%	84.213%	<u>M 1128.000</u>	103.800	104.200	21.190	<u>TM 51430.000</u>	103.900
σ		<u>TM 129.600</u>	<u>M 572.500</u>	0.675%	0.252%	<u>M 8.325</u>	1.371	0.837	1.575	<u>TM 104.300</u>	0.196
%RSD		<u>TM 0.251</u>	<u>M 1.143</u>	0.807	0.299	<u>M 0.738</u>	1.320	0.803	7.433	<u>TM 0.203</u>	0.189
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:51	102.200	101.800	101.500	108.800	81.679%	107.700	105.700	105.600	84.399%	102.000
2	17:32:55	102.500	101.400	101.600	108.900	82.152%	107.400	105.800	106.000	84.078%	102.500
3	17:32:58	101.900	100.500	101.900	108.900	82.515%	107.500	107.400	105.600	85.283%	101.400
X		102.200	101.200	101.700	108.900	82.115%	107.500	106.300	105.700	84.587%	102.000
σ		0.286	0.670	0.190	0.040	0.419%	0.151	0.933	0.220	0.624%	0.563
%RSD		0.280	0.661	0.187	0.037	0.511	0.140	0.877	0.208	0.737	0.552
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:51	<u>TM 1153.000</u>	99.440	50.890	102.600	89.981%	102.500	105.900	101.500	<u>T 90.433%</u>	107.000
2	17:32:55	<u>TM 1157.000</u>	100.500	51.010	102.800	89.814%	104.400	106.700	101.600	<u>T 90.602%</u>	107.600
3	17:32:58	<u>TM 1150.000</u>	100.300	50.130	102.200	90.861%	102.900	105.700	101.800	<u>T 91.340%</u>	106.700
X		<u>TM 1153.000</u>	100.100	50.680	102.500	90.219%	103.300	106.100	101.600	<u>T 90.791%</u>	107.100
σ		<u>TM 3.744</u>	0.563	0.477	0.275	0.562%	0.992	0.534	0.148	<u>T 0.482%</u>	0.471
%RSD		<u>TM 0.325</u>	0.562	0.940	0.268	0.623	0.961	0.504	0.146	<u>T 0.531</u>	0.440
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:32:51	5.284	105.000	105.700	86.808%	<u>T 109.400</u>					
2	17:32:55	5.359	<u>T 106.200</u>	105.700	87.105%	<u>T 108.800</u>					
3	17:32:58	5.449	104.900	105.500	87.923%	<u>T 108.800</u>					
X		5.364	<u>T 105.400</u>	105.600	87.279%	<u>T 109.000</u>					
σ		0.082	<u>T 0.711</u>	0.110	0.577%	<u>T 0.346</u>					
%RSD		1.533	<u>T 0.675</u>	0.104	0.661	<u>T 0.317</u>					



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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:04	98.500	101.000	99.430	5005.000	5173.000	5012.000	4991.000	5091.000	143.300	<u>1781000.000</u>
2	17:40:08	100.800	102.000	100.400	4951.000	5064.000	4949.000	4954.000	4936.000	122.900	<u>1780000.000</u>
3	17:40:12	99.470	100.800	99.910	5027.000	5142.000	5095.000	5053.000	5102.000	135.900	<u>1798000.000</u>
x		99.600	101.300	99.920	4994.000	5126.000	5018.000	4999.000	5043.000	134.000	<u>1786000.000</u>
σ		1.172	0.650	0.489	38.650	55.940	73.240	49.920	92.760	10.280	<u>10530.000</u>
%RSD		1.177	0.642	0.490	0.774	1.091	1.459	0.999	1.839	7.671	<u>0.590</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:04	5003.000	4873.000	97.445%	96.651%	98.170	100.600	101.000	21.660	4965.000	99.160
2	17:40:08	4949.000	4960.000	99.297%	95.623%	103.300	99.780	100.800	22.810	4994.000	99.750
3	17:40:12	5015.000	4816.000	98.056%	96.006%	100.300	99.820	102.300	22.920	5014.000	100.500
x		4989.000	4883.000	98.266%	96.093%	100.600	100.100	101.400	22.460	4991.000	99.800
σ		35.130	72.260	0.944%	0.519%	2.602	0.439	0.814	0.698	24.830	0.670
%RSD		0.704	1.480	0.961	0.540	2.586	0.438	0.803	3.108	0.498	0.671
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:04	100.400	102.300	102.100	104.600	98.002%	101.700	99.720	100.600	96.379%	100.100
2	17:40:08	99.660	101.400	101.300	103.300	100.048%	101.800	101.000	101.500	97.458%	100.100
3	17:40:12	101.400	102.600	103.600	104.300	99.131%	102.400	99.040	101.100	98.046%	99.190
x		100.500	102.100	102.400	104.100	99.060%	102.000	99.900	101.100	97.294%	99.820
σ		0.872	0.615	1.153	0.674	1.025%	0.417	0.970	0.433	0.846%	0.542
%RSD		0.868	0.603	1.127	0.648	1.035	0.409	0.971	0.429	0.869	0.543
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:04	100.600	102.400	52.520	103.300	98.653%	102.200	105.700	99.280	<u>98.761%</u>	101.500
2	17:40:08	101.000	103.100	52.850	103.600	99.723%	102.700	104.800	98.300	<u>99.123%</u>	101.700
3	17:40:12	99.760	101.700	52.460	103.300	99.834%	102.400	105.400	99.600	<u>99.752%</u>	101.400
x		100.400	102.400	52.610	103.400	99.404%	102.500	105.300	99.060	<u>99.212%</u>	101.500
σ		0.638	0.716	0.208	0.175	0.652%	0.236	0.453	0.677	<u>0.501%</u>	0.143
%RSD		0.635	0.699	0.395	0.169	0.656	0.230	0.430	0.684	<u>0.505</u>	0.141
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:40:04	5.021	<u>100.100</u>	100.400	<u>97.906%</u>	<u>98.410</u>					
2	17:40:08	4.949	<u>99.610</u>	101.100	<u>98.029%</u>	<u>98.100</u>					
3	17:40:12	5.169	<u>100.000</u>	100.400	<u>98.264%</u>	<u>97.540</u>					
x		5.046	<u>99.930</u>	100.600	<u>98.067%</u>	<u>98.020</u>					
σ		0.112	<u>0.276</u>	0.387	<u>0.182%</u>	<u>0.441</u>					
%RSD		2.226	<u>0.276</u>	0.384	<u>0.185</u>	<u>0.450</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:19	0.041	0.017	0.373	17.840	15.570	10.120	1.751	9.481	126.900	<u>1696000.000</u>
2	17:47:22	0.020	0.026	0.635	11.000	9.128	6.900	0.583	6.179	112.700	<u>1725000.000</u>
3	17:47:26	0.022	0.077	0.666	9.509	6.996	6.573	0.031	-0.244	128.500	<u>1703000.000</u>
x		0.028	0.040	0.558	12.790	10.560	7.866	0.788	5.138	122.700	<u>1708000.000</u>
σ		0.011	0.032	0.161	4.444	4.463	1.962	0.878	4.945	8.712	<u>15270.000</u>
%RSD		41.080	80.570	28.820	34.760	42.250	24.950	111.400	96.240	7.102	<u>10.894</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:19	5.859	16.000	100.054%	101.226%	0.157	-0.008	0.032	5.764	12.730	0.060
2	17:47:22	3.071	8.589	100.164%	101.080%	0.078	0.126	0.028	5.586	9.138	0.036
3	17:47:26	-8.095	8.384	102.210%	100.199%	0.330	0.087	0.042	5.823	8.604	0.032
x		0.279	10.990	100.810%	100.835%	0.188	0.068	0.034	5.724	10.160	0.043
σ		7.384	4.339	1.214%	0.556%	0.129	0.069	0.007	0.123	2.245	0.015
%RSD		2652.000	39.480	1.205	0.551	68.590	101.200	21.510	2.152	22.100	34.400
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:19	0.042	-0.008	-0.002	-0.076	100.253%	-0.001	-0.087	0.038	98.782%	0.037
2	17:47:22	0.018	0.024	0.026	-0.494	102.117%	0.004	-0.098	0.012	100.276%	0.010
3	17:47:26	0.020	-0.005	-0.005	-0.678	102.309%	-0.026	-0.176	-0.001	100.446%	0.003
x		0.026	0.004	0.006	-0.416	101.560%	-0.008	-0.121	0.016	99.835%	0.017
σ		0.013	0.017	0.017	0.309	1.136%	0.016	0.049	0.020	0.915%	0.018
%RSD		49.910	495.500	270.700	74.220	1.118	211.700	40.490	120.100	0.917	106.300
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:19	0.321	-0.012	0.016	0.036	98.993%	-0.173	0.016	0.033	<u>100.445%</u>	0.029
2	17:47:22	0.205	-0.022	0.012	0.015	99.964%	-0.176	0.010	0.021	<u>100.530%</u>	0.033
3	17:47:26	0.171	-0.022	0.015	0.021	99.581%	-0.177	0.014	0.021	<u>102.066%</u>	0.016
x		0.233	-0.019	0.014	0.024	99.512%	-0.175	0.013	0.025	<u>101.014%</u>	0.026
σ		0.079	0.006	0.002	0.011	0.489%	0.002	0.003	0.007	<u>10.912%</u>	0.009
%RSD		33.790	31.500	12.700	45.760	0.491	1.080	22.880	28.760	<u>10.903</u>	34.300
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:47:19	0.009	0.065	0.034	<u>99.268%</u>	0.021					
2	17:47:22	0.007	0.055	0.015	<u>99.824%</u>	0.015					
3	17:47:26	0.005	0.047	0.008	<u>100.138%</u>	0.012					
x		0.007	0.056	0.019	<u>99.743%</u>	0.016					
σ		0.002	0.009	0.013	<u>10.440%</u>	0.005					
%RSD		24.870	15.800	68.220	<u>10.441</u>	27.900					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:32	0.004	0.008	0.203	20.160	12.800	12.980	7.274	35.660	130.500	<u>1843000.000</u>
2	17:54:36	0.006	0.046	0.505	16.240	12.290	12.850	5.598	55.470	142.200	<u>1861000.000</u>
3	17:54:40	0.030	0.012	0.325	14.820	8.653	11.220	7.350	35.240	143.500	<u>1849000.000</u>
x		0.014	0.022	0.344	17.070	11.250	12.350	6.741	42.120	138.700	<u>1851000.000</u>
σ		0.014	0.021	0.152	2.766	2.263	0.982	0.990	11.560	7.158	<u>18827.000</u>
%RSD		105.900	93.470	44.070	16.200	20.110	7.947	14.690	27.440	5.161	<u>10.477</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:32	63.350	8.704	102.138%	103.530%	0.613	0.081	0.362	6.347	11.570	0.107
2	17:54:36	60.650	16.080	102.270%	102.600%	0.661	-0.026	0.349	6.908	9.508	0.072
3	17:54:40	65.090	11.080	102.730%	104.045%	0.452	-0.225	0.350	7.254	8.586	0.067
x		63.030	11.950	102.379%	103.392%	0.576	-0.057	0.354	6.836	9.889	0.082
σ		2.238	3.763	0.311%	0.732%	0.109	0.155	0.007	0.458	1.529	0.022
%RSD		3.551	31.480	0.303	0.708	19.010	273.800	2.039	6.700	15.460	26.670
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:32	0.021	0.292	0.050	0.834	104.146%	0.029	-0.136	-0.052	100.318%	0.014
2	17:54:36	0.025	0.247	0.057	0.393	105.549%	0.054	-0.132	-0.055	100.958%	0.027
3	17:54:40	0.017	0.254	0.037	0.362	106.471%	0.001	-0.204	-0.055	101.925%	-0.002
x		0.021	0.264	0.048	0.530	105.389%	0.028	-0.157	-0.054	101.067%	0.013
σ		0.004	0.025	0.010	0.264	1.171%	0.027	0.041	0.002	0.809%	0.014
%RSD		19.270	9.284	20.990	49.810	1.111	95.550	25.930	3.468	0.801	110.100
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:54:32	0.301	-0.037	0.015	0.016	102.643%	<u>141.310</u>	0.005	0.034	<u>101.581%</u>	0.032
2	17:54:36	0.259	-0.020	0.012	0.014	102.720%	43.750	0.022	0.035	<u>102.075%</u>	0.040
3	17:54:40	0.242	-0.021	0.001	0.009	103.012%	42.970	0.004	0.018	<u>101.503%</u>	0.033
x		0.267	-0.026	0.009	0.013	102.792%	<u>142.670</u>	0.010	0.029	<u>101.720%</u>	0.035
σ		0.030	0.010	0.007	0.004	0.195%	<u>1.245</u>	0.010	0.009	<u>10.310%</u>	0.005
%RSD		11.350	37.340	79.190	27.750	0.189	<u>12.918</u>	99.480	32.120	<u>10.305</u>	13.170
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:54:32	0.016	0.027	0.161	<u>100.930%</u>	0.012					
2	17:54:36	0.005	0.022	0.141	<u>101.011%</u>	0.008					
3	17:54:40	0.008	0.018	0.134	<u>101.519%</u>	0.006					
x		0.010	0.022	0.145	<u>101.153%</u>	0.009					
σ		0.006	0.005	0.014	<u>10.319%</u>	0.003					
%RSD		58.800	20.570	9.697	<u>10.315</u>	32.430					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:45	0.007	0.017	0.591	34.220	14.330	23.280	10.410	59.960	134.700	<u>1812000.000</u>
2	18:01:48	-0.002	0.024	0.543	30.060	14.450	23.020	13.540	47.270	137.000	<u>1809000.000</u>
3	18:01:52	0.019	0.033	0.200	30.590	12.490	23.610	8.904	50.660	138.000	<u>1800000.000</u>
x		0.008	0.025	0.445	31.620	13.760	23.300	10.950	52.630	136.600	<u>1807000.000</u>
σ		0.010	0.008	0.213	2.268	1.097	0.300	2.365	6.572	1.730	<u>16456.000</u>
%RSD		123.600	32.510	47.950	7.171	7.975	1.286	21.590	12.490	1.267	<u>10.357</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:45	56.820	20.770	102.577%	102.987%	0.582	-0.038	0.328	6.699	14.120	0.181
2	18:01:48	55.430	3.648	102.568%	103.959%	0.273	-0.003	0.329	6.906	12.250	0.185
3	18:01:52	56.590	27.980	103.249%	103.875%	0.885	0.005	0.316	6.377	12.960	0.206
x		56.280	17.460	102.798%	103.607%	0.580	-0.012	0.324	6.660	13.110	0.191
σ		0.744	12.500	0.391%	0.539%	0.306	0.023	0.007	0.267	0.947	0.013
%RSD		1.322	71.550	0.380	0.520	52.750	191.200	2.246	4.004	7.223	7.073
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:45	0.033	0.213	0.054	1.458	104.182%	0.001	-0.162	-0.031	100.536%	0.023
2	18:01:48	0.030	0.284	0.058	0.904	104.035%	0.024	-0.157	-0.037	100.859%	0.004
3	18:01:52	0.031	0.246	0.061	0.741	104.685%	0.009	-0.155	-0.044	101.126%	0.005
x		0.031	0.248	0.058	1.034	104.301%	0.012	-0.158	-0.037	100.841%	0.011
σ		0.001	0.036	0.003	0.376	0.341%	0.012	0.003	0.006	0.295%	0.010
%RSD		4.173	14.360	5.535	36.300	0.327	99.800	2.156	16.900	0.293	94.680
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:45	0.324	-0.037	0.011	0.009	101.458%	43.260	0.038	0.030	<u>100.696%</u>	0.050
2	18:01:48	0.300	-0.043	0.010	0.016	102.564%	43.450	0.034	0.022	<u>101.454%</u>	0.053
3	18:01:52	0.299	-0.005	0.001	0.012	102.580%	43.160	0.034	0.045	<u>100.045%</u>	0.058
x		0.308	-0.028	0.008	0.012	102.201%	43.290	0.035	0.032	<u>100.732%</u>	0.054
σ		0.014	0.020	0.005	0.003	0.643%	0.147	0.002	0.012	<u>10.705%</u>	0.004
%RSD		4.596	71.530	71.100	27.200	0.629	0.340	5.952	35.950	<u>10.700</u>	7.782
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:01:45	0.007	0.024	0.033	<u>100.661%</u>	0.014					
2	18:01:48	-0.004	0.021	0.022	<u>100.794%</u>	0.013					
3	18:01:52	0.002	0.022	0.016	<u>100.709%</u>	0.014					
x		0.001	0.022	0.024	<u>100.721%</u>	0.014					
σ		0.006	0.001	0.008	<u>10.068%</u>	0.001					
%RSD		391.300	4.866	34.990	<u>10.067</u>	4.285					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:57	-0.000	0.041	0.747	29.740	21.880	19.870	4.715	48.990	136.500	<u>1815000.000</u>
2	18:09:00	-0.001	0.008	0.800	22.040	15.250	15.670	5.695	48.050	137.800	<u>1806000.000</u>
3	18:09:04	0.019	0.053	0.167	15.180	10.730	12.880	4.692	59.840	141.200	<u>1820000.000</u>
x		0.006	0.034	0.571	22.320	15.950	16.140	5.034	52.290	138.500	<u>1814000.000</u>
σ		0.011	0.023	0.351	7.285	5.607	3.523	0.573	6.554	2.399	<u>16933.000</u>
%RSD		195.600	68.220	61.520	32.640	35.150	21.830	11.380	12.530	1.732	<u>10.382</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:57	69.340	26.270	100.485%	103.600%	0.716	0.031	0.342	6.799	17.670	0.282
2	18:09:00	55.810	18.610	101.618%	103.671%	0.471	-0.008	0.293	6.979	13.180	0.245
3	18:09:04	56.600	5.998	104.401%	103.563%	0.500	-0.051	0.287	7.399	10.520	0.191
x		60.580	16.960	102.168%	103.611%	0.562	-0.009	0.308	7.059	13.790	0.239
σ		7.592	10.240	2.015%	0.055%	0.134	0.041	0.030	0.308	3.615	0.046
%RSD		12.530	60.350	1.973	0.053	23.770	433.500	9.839	4.356	26.220	19.220
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:57	0.036	0.254	0.038	0.754	103.808%	0.019	-0.109	-0.022	99.841%	0.699
2	18:09:00	0.036	0.234	0.005	0.556	103.377%	0.029	-0.231	-0.043	101.143%	0.676
3	18:09:04	0.017	0.205	-0.010	0.272	105.915%	-0.004	-0.174	-0.055	101.905%	0.677
x		0.030	0.231	0.011	0.527	104.367%	0.015	-0.171	-0.040	100.963%	0.684
σ		0.011	0.025	0.025	0.242	1.358%	0.017	0.061	0.017	1.044%	0.013
%RSD		36.340	10.660	221.700	45.880	1.301	117.400	35.600	42.050	1.034	1.858
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:57	0.397	0.016	0.016	0.039	101.504%	<u>41.100</u>	0.033	0.047	<u>100.451%</u>	0.045
2	18:09:00	0.281	-0.002	0.009	0.019	101.997%	42.910	0.036	0.019	<u>99.784%</u>	0.029
3	18:09:04	0.227	-0.019	0.003	0.016	103.385%	42.900	0.024	0.014	<u>100.690%</u>	0.016
x		0.301	-0.002	0.009	0.024	102.295%	<u>42.300</u>	0.031	0.027	<u>100.308%</u>	0.030
σ		0.087	0.018	0.007	0.013	0.975%	<u>1.044</u>	0.006	0.018	<u>10.469%</u>	0.014
%RSD		28.790	1033.000	72.140	52.700	0.953	<u>2.468</u>	19.680	67.060	<u>10.468</u>	47.170
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:08:57	-0.004	0.027	0.041	<u>100.203%</u>	0.020					
2	18:09:00	0.005	0.014	0.015	<u>99.746%</u>	0.013					
3	18:09:04	-0.008	0.008	0.003	<u>100.342%</u>	0.007					
x		-0.002	0.016	0.020	<u>100.097%</u>	0.014					
σ		0.007	0.010	0.019	<u>10.312%</u>	0.007					
%RSD		308.200	58.980	99.310	<u>10.311</u>	48.870					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:16:10	0.009	0.021	0.522	19.640	12.810	11.030	17.870	43.990	149.300	<u>1829000.000</u>
2	18:16:14	0.008	0.034	0.381	12.650	8.723	8.142	4.312	30.430	133.200	<u>1820000.000</u>
3	18:16:17	0.011	0.021	0.412	10.130	6.672	7.611	4.268	35.900	150.000	<u>1829000.000</u>
x		0.009	0.025	0.439	14.140	9.403	8.927	8.816	36.770	144.200	<u>1826000.000</u>
σ		0.001	0.007	0.074	4.926	3.127	1.838	7.840	6.822	9.496	<u>15206.000</u>
%RSD		14.780	29.090	16.920	34.840	33.250	20.590	88.920	18.550	6.586	<u>10.285</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:16:10	58.420	26.250	100.666%	102.654%	0.179	0.118	0.309	7.137	10.200	0.251
2	18:16:14	53.900	22.970	104.049%	102.177%	0.266	-0.067	0.287	7.408	8.159	0.218
3	18:16:17	54.420	18.600	101.800%	102.678%	0.226	-0.009	0.298	6.992	6.677	0.204
x		55.580	22.610	102.172%	102.503%	0.224	0.014	0.298	7.179	8.346	0.224
σ		2.470	3.840	1.722%	0.282%	0.044	0.095	0.011	0.211	1.770	0.024
%RSD		4.444	16.990	1.685	0.275	19.550	673.300	3.627	2.943	21.210	10.780
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:16:10	0.025	0.254	0.043	0.513	103.196%	-0.013	-0.194	-0.028	100.077%	-0.004
2	18:16:14	0.012	0.306	0.043	0.119	103.691%	0.014	-0.135	-0.057	100.692%	0.002
3	18:16:17	0.020	0.272	0.039	-0.018	104.757%	0.018	-0.197	-0.047	100.502%	-0.003
x		0.019	0.278	0.042	0.205	103.881%	0.006	-0.175	-0.044	100.423%	-0.002
σ		0.006	0.027	0.003	0.276	0.798%	0.017	0.035	0.015	0.315%	0.003
%RSD		33.400	9.568	6.689	134.600	0.768	269.700	20.190	33.330	0.314	223.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:16:10	0.230	-0.024	0.008	0.019	100.916%	43.260	0.021	0.022	<u>199.025%</u>	0.024
2	18:16:14	0.180	-0.017	0.002	0.016	101.938%	43.230	0.013	0.005	<u>199.877%</u>	0.028
3	18:16:17	0.147	-0.026	0.005	0.004	100.642%	43.460	0.022	0.009	<u>100.643%</u>	0.027
x		0.186	-0.022	0.005	0.013	101.165%	43.320	0.019	0.012	<u>199.848%</u>	0.026
σ		0.042	0.005	0.003	0.008	0.683%	0.126	0.005	0.009	<u>10.809%</u>	0.002
%RSD		22.630	22.430	56.140	61.540	0.675	0.291	25.200	71.560	<u>10.811</u>	7.711
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:16:10	0.005	0.008	0.032	<u>199.601%</u>	0.007					
2	18:16:14	0.004	0.005	0.021	<u>199.853%</u>	0.003					
3	18:16:17	0.001	-0.003	0.011	<u>199.796%</u>	0.002					
x		0.003	0.003	0.021	<u>199.750%</u>	0.004					
σ		0.003	0.006	0.011	<u>10.132%</u>	0.003					
%RSD		77.550	188.100	50.660	<u>10.133</u>	69.110					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:26	-0.005	0.009	-0.102	13.820	4.595	8.297	1.238	39.310	144.700	<u>1819000.000</u>
2	18:23:29	0.007	0.005	0.240	9.760	5.649	6.216	8.303	27.590	128.700	<u>1798000.000</u>
3	18:23:33	0.012	0.017	0.198	8.250	5.507	6.160	2.036	48.680	132.000	<u>1813000.000</u>
x		0.005	0.010	0.112	10.610	5.250	6.891	3.859	38.530	135.100	<u>1810000.000</u>
σ		0.009	0.006	0.187	2.881	0.572	1.218	3.869	10.570	8.448	<u>10520.000</u>
%RSD		182.500	59.870	166.400	27.160	10.890	17.680	100.300	27.440	6.251	<u>0.581</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:26	48.720	21.200	101.505%	100.045%	0.228	-0.063	0.310	7.391	4.925	0.175
2	18:23:29	49.950	4.059	99.741%	101.522%	0.291	-0.063	0.301	7.482	4.106	0.129
3	18:23:33	48.550	9.084	99.892%	102.065%	0.236	-0.044	0.279	7.440	3.763	0.105
x		49.070	11.450	100.379%	101.211%	0.251	-0.057	0.297	7.437	4.265	0.137
σ		0.761	8.813	0.978%	1.046%	0.034	0.011	0.016	0.046	0.597	0.036
%RSD		1.550	76.980	0.974	1.033	13.670	19.790	5.401	0.614	14.000	26.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:26	0.006	0.283	0.071	0.792	103.270%	0.043	-0.150	-0.056	99.697%	0.000
2	18:23:29	0.009	0.235	0.065	0.410	102.828%	0.012	-0.229	-0.059	98.178%	-0.008
3	18:23:33	0.009	0.269	0.081	0.220	102.457%	-0.035	-0.194	-0.060	98.767%	0.003
x		0.008	0.263	0.073	0.474	102.852%	0.007	-0.191	-0.058	98.881%	-0.002
σ		0.002	0.025	0.008	0.291	0.407%	0.040	0.039	0.002	0.766%	0.006
%RSD		19.650	9.463	11.060	61.460	0.396	586.200	20.630	3.759	0.775	349.100
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:26	0.120	-0.015	-0.003	0.001	101.124%	42.050	0.020	0.017	<u>98.289%</u>	0.013
2	18:23:29	0.112	-0.060	-0.003	0.005	99.957%	43.070	0.015	0.000	<u>98.112%</u>	0.008
3	18:23:33	0.104	-0.021	0.004	0.003	99.581%	42.600	0.030	0.021	<u>98.364%</u>	0.005
x		0.112	-0.032	-0.001	0.003	100.221%	42.570	0.022	0.013	<u>98.255%</u>	0.009
σ		0.008	0.024	0.004	0.002	0.805%	0.507	0.007	0.011	<u>0.129%</u>	0.004
%RSD		7.141	75.750	737.700	70.890	0.803	1.191	33.610	85.850	<u>0.132</u>	46.210
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:23:26	-0.001	-0.001	0.012	<u>98.802%</u>	0.002					
2	18:23:29	0.002	-0.004	-0.002	<u>98.898%</u>	-0.001					
3	18:23:33	-0.006	-0.008	-0.006	<u>98.644%</u>	-0.002					
x		-0.001	-0.004	0.001	<u>98.781%</u>	-0.000					
σ		0.004	0.003	0.010	<u>0.128%</u>	0.002					
%RSD		282.600	70.080	859.500	<u>0.130</u>	4147.000					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	0.016	0.016	0.133	13.640	9.246	8.915	3.178	48.350	153.800	<u>1890000.000</u>
2	18:30:43	-0.000	0.037	0.359	12.850	7.365	9.835	3.160	49.260	147.100	<u>1856000.000</u>
3	18:30:47	0.009	0.033	0.001	10.990	9.457	6.580	1.442	42.370	154.800	<u>1888000.000</u>
x		0.008	0.028	0.164	12.490	8.689	8.443	2.593	46.660	151.900	<u>1878000.000</u>
σ		0.008	0.011	0.181	1.357	1.152	1.678	0.997	3.742	4.151	<u>18940.000</u>
%RSD		100.200	38.870	110.200	10.860	13.250	19.880	38.460	8.020	2.733	<u>1.009</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	67.290	21.750	99.327%	94.641%	0.399	-0.023	0.320	7.659	6.404	0.203
2	18:30:43	58.770	3.952	100.170%	104.212%	0.340	0.061	0.329	7.086	5.838	0.166
3	18:30:47	60.300	4.043	99.627%	103.896%	0.211	-0.068	0.300	7.613	5.212	0.169
x		62.120	9.916	99.708%	100.916%	0.317	-0.010	0.317	7.453	5.818	0.179
σ		4.541	10.250	0.427%	5.437%	0.096	0.065	0.015	0.318	0.596	0.021
%RSD		7.310	103.400	0.429	5.388	30.300	662.700	4.622	4.272	10.250	11.530
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	0.024	0.282	0.021	0.809	101.299%	0.031	-0.199	-0.048	97.114%	-0.005
2	18:30:43	0.013	0.267	0.028	0.346	102.020%	0.028	-0.159	-0.048	98.223%	-0.001
3	18:30:47	0.014	0.295	0.036	0.244	101.657%	0.060	-0.204	-0.054	98.373%	-0.015
x		0.017	0.281	0.028	0.466	101.658%	0.040	-0.188	-0.050	97.903%	-0.007
σ		0.006	0.014	0.007	0.301	0.361%	0.018	0.025	0.004	0.688%	0.007
%RSD		33.720	4.981	26.410	64.590	0.355	44.760	13.160	7.448	0.703	101.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	0.149	-0.024	0.007	0.007	97.716%	43.830	0.019	0.029	<u>98.482%</u>	0.014
2	18:30:43	0.146	-0.024	-0.002	0.007	98.898%	44.130	0.026	0.025	<u>97.808%</u>	0.021
3	18:30:47	0.116	-0.025	-0.003	-0.006	99.417%	43.900	0.021	0.010	<u>97.639%</u>	0.007
x		0.137	-0.024	0.001	0.003	98.677%	43.960	0.022	0.021	<u>97.976%</u>	0.014
σ		0.019	0.001	0.006	0.007	0.872%	0.156	0.004	0.010	<u>0.446%</u>	0.007
%RSD		13.620	2.346	913.800	259.700	0.883	0.356	16.260	47.370	<u>0.455</u>	47.910
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:30:39	-0.004	-0.000	0.021	<u>97.993%</u>	0.002					
2	18:30:43	0.007	-0.002	0.011	<u>97.782%</u>	0.003					
3	18:30:47	0.009	-0.006	0.002	<u>98.066%</u>	-0.001					
x		0.004	-0.003	0.012	<u>97.947%</u>	0.001					
σ		0.007	0.003	0.010	<u>0.147%</u>	0.002					
%RSD		172.700	103.200	82.860	<u>0.151</u>	137.400					



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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:53	0.003	0.014	0.056	20.430	5.947	12.710	9.768	37.730	144.200	<u>1811000.000</u>
2	18:37:57	0.003	0.014	0.353	18.560	6.420	11.230	7.530	45.730	138.200	<u>1811000.000</u>
3	18:38:01	0.007	-0.008	0.125	15.950	2.286	10.160	7.526	51.860	143.400	<u>1797000.000</u>
x		0.004	0.007	0.178	18.310	4.885	11.370	8.275	45.110	141.900	<u>1806000.000</u>
σ		0.002	0.012	0.155	2.251	2.263	1.280	1.293	7.085	3.224	<u>17994.000</u>
%RSD		55.700	183.200	87.270	12.290	46.320	11.250	15.630	15.710	2.271	<u>1.0443</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:53	49.930	11.860	98.168%	99.083%	0.354	0.063	0.310	6.759	5.274	0.188
2	18:37:57	49.220	14.380	98.520%	99.654%	0.029	0.047	0.341	7.126	5.659	0.172
3	18:38:01	46.320	11.730	99.063%	99.818%	0.508	0.073	0.297	6.923	4.198	0.130
x		48.490	12.660	98.584%	99.518%	0.297	0.061	0.316	6.936	5.044	0.163
σ		1.913	1.491	0.451%	0.386%	0.245	0.013	0.022	0.184	0.757	0.030
%RSD		3.945	11.780	0.457	0.388	82.420	21.490	7.050	2.650	15.010	18.460
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:53	0.018	0.217	0.088	1.168	100.751%	-0.014	-0.150	-0.052	96.914%	-0.012
2	18:37:57	0.013	0.277	0.077	0.911	101.491%	-0.001	-0.213	-0.057	97.677%	-0.013
3	18:38:01	0.010	0.257	0.064	0.886	100.986%	-0.000	-0.190	-0.057	97.792%	-0.011
x		0.014	0.250	0.076	0.988	101.076%	-0.005	-0.184	-0.055	97.461%	-0.012
σ		0.004	0.031	0.012	0.156	0.378%	0.008	0.032	0.003	0.478%	0.001
%RSD		28.750	12.290	15.810	15.790	0.374	150.200	17.280	5.579	0.490	8.328
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:53	0.147	-0.021	0.008	0.006	98.102%	42.590	0.027	0.037	<u>197.220%</u>	0.014
2	18:37:57	0.127	-0.036	0.003	-0.000	99.115%	42.440	0.007	0.010	<u>197.667%</u>	0.015
3	18:38:01	0.096	-0.018	-0.002	0.007	98.886%	42.810	0.007	0.013	<u>197.689%</u>	0.014
x		0.124	-0.025	0.003	0.004	98.701%	42.610	0.014	0.020	<u>197.525%</u>	0.015
σ		0.026	0.009	0.005	0.004	0.531%	0.185	0.012	0.015	<u>197.265%</u>	0.000
%RSD		20.790	38.020	169.700	88.620	0.538	0.434	86.940	73.840	<u>197.271</u>	3.390
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:37:53	0.001	-0.000	0.019	<u>198.940%</u>	0.003					
2	18:37:57	-0.009	-0.003	0.006	<u>197.903%</u>	0.001					
3	18:38:01	0.001	-0.010	-0.003	<u>197.835%</u>	-0.001					
x		-0.002	-0.004	0.007	<u>198.226%</u>	0.001					
σ		0.006	0.005	0.011	<u>197.619%</u>	0.002					
%RSD		230.700	110.000	144.800	<u>197.630</u>	342.400					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:45:07	0.004	0.005	0.471	21.880	0.051	14.840	10.440	51.170	151.900	<u>1766000.000</u>
2	18:45:10	0.002	0.003	0.350	21.450	0.669	13.100	8.274	33.410	162.600	<u>1788000.000</u>
3	18:45:14	0.010	0.037	0.188	22.020	1.922	14.320	12.710	37.250	148.200	<u>1783000.000</u>
x		0.005	0.015	0.336	21.780	0.881	14.090	10.470	40.610	154.200	<u>1779000.000</u>
σ		0.004	0.019	0.142	0.296	0.953	0.893	2.216	9.346	7.501	<u>11310.000</u>
%RSD		83.770	126.400	42.200	1.357	108.200	6.339	21.160	23.010	4.864	<u>0.636</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:45:07	43.130	-0.886	97.974%	100.783%	0.085	-0.078	0.311	7.179	2.263	0.130
2	18:45:10	43.530	11.880	98.406%	106.876%	0.165	0.045	0.374	6.578	2.602	0.124
3	18:45:14	36.130	-3.436	98.816%	103.166%	0.457	-0.058	0.348	6.945	1.878	0.125
x		40.930	2.519	98.399%	103.608%	0.236	-0.031	0.345	6.901	2.248	0.126
σ		4.159	8.205	0.421%	3.070%	0.196	0.066	0.032	0.303	0.362	0.003
%RSD		10.160	325.700	0.427	2.963	83.250	217.700	9.146	4.392	16.110	2.700
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:45:07	0.006	0.268	0.059	1.335	99.530%	0.008	-0.230	-0.059	96.693%	-0.013
2	18:45:10	0.004	0.295	0.068	1.048	99.825%	0.041	-0.216	-0.062	97.648%	-0.005
3	18:45:14	0.004	0.272	0.040	0.789	100.754%	-0.003	-0.228	-0.065	96.601%	-0.007
x		0.005	0.278	0.056	1.057	100.037%	0.015	-0.225	-0.062	96.981%	-0.008
σ		0.001	0.015	0.015	0.273	0.639%	0.023	0.008	0.003	0.580%	0.004
%RSD		27.140	5.249	26.240	25.840	0.638	153.500	3.430	4.431	0.598	51.590
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:45:07	0.071	-0.028	-0.005	-0.001	98.037%	43.120	0.011	0.013	<u>96.524%</u>	0.004
2	18:45:10	0.078	-0.033	-0.004	-0.003	98.831%	<u>42.210</u>	0.009	0.017	<u>97.236%</u>	0.000
3	18:45:14	0.063	-0.029	-0.008	0.002	98.149%	42.750	0.016	0.002	<u>96.426%</u>	0.006
x		0.071	-0.030	-0.006	-0.001	98.339%	<u>42.690</u>	0.012	0.011	<u>96.729%</u>	0.003
σ		0.007	0.003	0.002	0.002	0.430%	<u>0.461</u>	0.004	0.008	<u>0.442%</u>	0.003
%RSD		10.300	9.292	27.050	249.900	0.437	<u>1.081</u>	33.550	72.980	<u>0.457</u>	92.330
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:45:07	-0.002	-0.013	0.002	<u>97.260%</u>	-0.003					
2	18:45:10	0.003	-0.014	-0.008	<u>97.278%</u>	-0.004					
3	18:45:14	0.003	-0.015	-0.012	<u>97.223%</u>	-0.005					
x		0.001	-0.014	-0.006	<u>97.253%</u>	-0.004					
σ		0.003	0.001	0.007	<u>0.028%</u>	0.001					
%RSD		283.500	6.514	124.300	<u>0.029</u>	15.110					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:18	-0.012	-0.003	0.069	6.391	1.615	3.774	1.753	38.110	147.400	<u>1848000.000</u>
2	18:52:22	-0.018	-0.003	-0.041	5.546	0.783	3.641	3.265	40.670	154.800	<u>1835000.000</u>
3	18:52:26	-0.008	-0.007	0.110	4.327	1.004	1.796	3.834	50.270	144.200	<u>1859000.000</u>
x		-0.013	-0.005	0.046	5.422	1.134	3.071	2.951	43.010	148.800	<u>1848000.000</u>
σ		0.005	0.002	0.078	1.038	0.431	1.106	1.076	6.410	5.427	<u>12280.000</u>
%RSD		42.040	52.490	170.800	19.140	38.020	36.010	36.450	14.900	3.647	<u>10.665</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:18	45.520	1.752	97.671%	99.827%	0.195	-0.040	0.281	7.600	1.671	0.140
2	18:52:22	49.840	11.840	98.654%	99.425%	0.163	0.083	0.266	6.677	1.451	0.127
3	18:52:26	51.340	-0.785	97.119%	99.425%	0.088	-0.027	0.288	7.228	1.329	0.120
x		48.900	4.269	97.815%	99.559%	0.148	0.005	0.278	7.168	1.484	0.129
σ		3.023	6.679	0.777%	0.232%	0.055	0.067	0.011	0.464	0.173	0.010
%RSD		6.183	156.400	0.795	0.233	37.000	1301.000	4.122	6.475	11.680	7.781
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:18	0.004	0.254	-0.011	0.380	99.428%	0.022	-0.193	-0.068	96.687%	0.010
2	18:52:22	0.008	0.260	-0.037	0.028	100.202%	-0.013	-0.233	-0.063	96.678%	0.011
3	18:52:26	0.003	0.240	-0.013	0.030	99.683%	-0.014	-0.156	-0.069	96.058%	0.004
x		0.005	0.252	-0.020	0.146	99.771%	-0.002	-0.194	-0.066	96.474%	0.009
σ		0.003	0.010	0.014	0.202	0.394%	0.020	0.038	0.003	0.360%	0.004
%RSD		54.910	4.073	69.050	138.500	0.395	1125.000	19.800	4.945	0.373	42.560
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:18	0.054	-0.046	0.001	0.000	96.822%	43.580	0.014	0.002	<u>96.536%</u>	0.014
2	18:52:22	0.045	-0.020	-0.008	-0.007	97.245%	44.190	-0.003	-0.010	<u>96.711%</u>	0.038
3	18:52:26	0.047	-0.036	0.000	-0.001	97.076%	44.040	0.012	-0.003	<u>97.026%</u>	0.015
x		0.048	-0.034	-0.002	-0.003	97.047%	43.940	0.007	-0.003	<u>96.758%</u>	0.022
σ		0.005	0.013	0.005	0.004	0.213%	0.319	0.009	0.006	<u>0.248%</u>	0.013
%RSD		10.310	37.940	228.700	142.600	0.220	0.726	120.500	177.900	<u>0.257</u>	59.350
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:52:18	0.001	-0.013	-0.005	<u>97.292%</u>	-0.004					
2	18:52:22	0.008	-0.016	-0.012	<u>96.787%</u>	-0.005					
3	18:52:26	-0.007	-0.017	-0.017	<u>96.179%</u>	-0.005					
x		0.001	-0.016	-0.011	<u>96.752%</u>	-0.005					
σ		0.007	0.002	0.006	<u>0.557%</u>	0.001					
%RSD		1431.000	13.530	52.840	<u>0.576</u>	14.030					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:31	0.012	-0.011	0.129	15.410	5.510	9.036	6.803	44.950	137.700	<u>1786000.000</u>
2	18:59:35	-0.010	-0.003	0.073	13.480	2.221	8.427	6.697	30.600	175.500	<u>1820000.000</u>
3	18:59:38	-0.003	0.001	0.519	11.640	-0.414	8.999	6.528	49.610	141.000	<u>1821000.000</u>
x		-0.000	-0.004	0.240	13.510	2.439	8.821	6.676	41.720	151.400	<u>1809000.000</u>
σ		0.011	0.007	0.243	1.886	2.968	0.341	0.139	9.909	20.910	<u>19900.000</u>
%RSD		3354.000	153.100	101.200	13.960	121.700	3.871	2.079	23.750	13.810	<u>1.100</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:31	40.940	14.530	97.455%	97.243%	0.250	-0.111	0.575	7.473	2.925	0.195
2	18:59:35	42.760	17.480	96.449%	97.039%	0.037	-0.021	0.566	7.127	2.054	0.146
3	18:59:38	51.560	4.401	96.908%	98.461%	0.034	-0.088	0.554	7.222	2.073	0.106
x		45.090	12.140	96.937%	97.581%	0.107	-0.073	0.565	7.274	2.351	0.149
σ		5.677	6.860	0.504%	0.769%	0.124	0.046	0.010	0.179	0.497	0.044
%RSD		12.590	56.520	0.520	0.788	115.600	63.440	1.838	2.457	21.150	29.830
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:31	0.010	0.327	0.005	1.160	99.612%	-0.024	-0.115	-0.045	96.032%	-0.011
2	18:59:35	0.007	0.351	-0.013	0.768	99.144%	-0.000	-0.120	-0.067	96.070%	-0.011
3	18:59:38	0.007	0.359	-0.005	0.753	100.149%	-0.032	-0.169	-0.066	95.650%	-0.013
x		0.008	0.346	-0.004	0.894	99.635%	-0.019	-0.134	-0.059	95.917%	-0.012
σ		0.002	0.016	0.009	0.231	0.503%	0.017	0.030	0.012	0.232%	0.001
%RSD		22.190	4.725	212.000	25.830	0.505	89.500	22.260	21.040	0.242	11.560
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:59:31	0.084	-0.029	-0.001	-0.004	97.108%	41.840	-0.002	0.036	<u>95.948%</u>	0.032
2	18:59:35	0.049	-0.013	0.000	-0.007	96.378%	43.020	0.005	0.018	<u>96.285%</u>	0.021
3	18:59:38	0.037	-0.031	-0.002	-0.007	96.392%	42.930	0.013	0.007	<u>95.697%</u>	0.024
x		0.057	-0.024	-0.001	-0.006	96.626%	42.600	0.006	0.020	<u>95.977%</u>	0.026
σ		0.024	0.010	0.001	0.002	0.417%	0.658	0.007	0.014	<u>0.295%</u>	0.006
%RSD		42.260	41.310	137.700	27.230	0.432	1.545	128.800	70.910	<u>0.307</u>	22.210
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:59:31	0.008	-0.012	0.002	<u>97.437%</u>	-0.003					
2	18:59:35	-0.006	-0.017	-0.009	<u>96.385%</u>	-0.005					
3	18:59:38	0.004	-0.017	-0.016	<u>96.780%</u>	-0.006					
x		0.002	-0.016	-0.008	<u>96.867%</u>	-0.005					
σ		0.007	0.003	0.009	<u>0.531%</u>	0.001					
%RSD		314.400	17.040	112.500	<u>0.548</u>	28.170					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:44	100.900	102.600	99.910	5046.000	5180.000	5058.000	5102.000	5192.000	124.300	<u>1830000.000</u>
2	19:06:48	101.500	103.900	103.300	4992.000	5211.000	5087.000	5092.000	5154.000	135.800	<u>1838000.000</u>
3	19:06:52	99.810	104.000	103.900	5024.000	5208.000	5078.000	5088.000	5213.000	147.200	<u>1842000.000</u>
x		100.700	103.500	102.400	5021.000	5200.000	5075.000	5094.000	5186.000	135.800	<u>1837000.000</u>
σ		0.853	0.781	2.164	27.300	16.880	14.500	6.753	30.110	11.420	<u>15906.000</u>
%RSD		0.847	0.755	2.113	0.544	0.325	0.286	0.133	0.581	8.410	<u>10.322</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:44	5015.000	5206.000	97.800%	98.269%	101.700	101.600	102.000	19.110	4961.000	100.300
2	19:06:48	5019.000	5022.000	98.150%	97.033%	101.600	100.500	102.000	21.760	4993.000	100.100
3	19:06:52	5038.000	4929.000	98.158%	97.468%	99.370	102.200	102.800	20.300	5016.000	100.300
x		5024.000	5053.000	98.036%	97.590%	100.900	101.400	102.300	20.390	4990.000	100.200
σ		12.340	140.800	0.204%	0.627%	1.320	0.895	0.489	1.328	27.300	0.120
%RSD		0.246	2.787	0.209	0.642	1.308	0.882	0.478	6.514	0.547	0.120
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:44	100.100	100.600	101.500	102.000	98.949%	101.200	100.800	101.200	95.632%	100.200
2	19:06:48	100.400	101.300	102.400	103.300	98.760%	102.700	100.500	100.200	96.373%	100.600
3	19:06:52	100.900	101.000	102.400	103.000	99.341%	101.800	99.460	100.700	96.752%	99.700
x		100.500	100.900	102.100	102.800	99.017%	101.900	100.200	100.700	96.252%	100.200
σ		0.417	0.340	0.519	0.670	0.296%	0.754	0.699	0.475	0.570%	0.469
%RSD		0.415	0.337	0.508	0.651	0.299	0.739	0.697	0.472	0.592	0.468
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:44	100.300	102.500	52.980	102.100	96.930%	101.200	104.800	99.600	<u>96.076%</u>	100.200
2	19:06:48	100.800	102.100	52.400	104.500	97.821%	101.600	104.400	99.590	<u>96.325%</u>	100.700
3	19:06:52	100.700	102.100	52.620	103.200	98.386%	101.700	104.900	99.280	<u>95.665%</u>	101.500
x		100.600	102.200	52.670	103.300	97.712%	101.500	104.700	99.490	<u>96.022%</u>	100.800
σ		0.270	0.265	0.296	1.195	0.734%	0.272	0.258	0.180	<u>0.334%</u>	0.640
%RSD		0.268	0.259	0.562	1.157	0.752	0.268	0.247	0.181	<u>0.347</u>	0.635
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:06:44	4.833	<u>98.950</u>	98.610	<u>95.078%</u>	<u>98.530</u>					
2	19:06:48	4.850	<u>99.930</u>	99.140	<u>95.418%</u>	<u>99.610</u>					
3	19:06:52	4.870	<u>99.930</u>	98.420	<u>95.742%</u>	<u>99.600</u>					
x		4.851	<u>99.600</u>	98.720	<u>95.413%</u>	<u>99.250</u>					
σ		0.019	<u>0.566</u>	0.373	<u>0.332%</u>	<u>0.624</u>					
%RSD		0.384	<u>0.568</u>	0.378	<u>0.348</u>	<u>0.629</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:59	0.021	0.019	0.338	4.035	2.709	0.017	-0.269	-8.360	121.500	<u>1767000.000</u>
2	19:14:02	0.021	0.019	0.223	2.390	1.652	-0.555	0.900	7.501	132.200	<u>1758000.000</u>
3	19:14:06	0.005	0.015	0.457	2.114	0.979	0.139	2.045	1.481	123.200	<u>1753000.000</u>
x		0.016	0.018	0.339	2.846	1.780	-0.133	0.892	0.207	125.600	<u>1760000.000</u>
σ		0.009	0.002	0.117	1.039	0.872	0.370	1.157	8.007	5.759	<u>17172.000</u>
%RSD		56.500	14.000	34.420	36.500	48.990	278.700	129.800	3861.000	4.584	<u>10.408</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:59	2.859	1.410	96.886%	97.602%	0.147	-0.007	0.008	5.516	1.696	0.052
2	19:14:02	0.039	4.059	97.126%	97.478%	0.009	-0.001	0.022	5.928	1.903	0.040
3	19:14:06	-0.644	-1.089	97.517%	97.302%	0.171	0.080	0.030	5.755	1.114	0.026
x		0.752	1.460	97.177%	97.461%	0.109	0.024	0.020	5.733	1.571	0.040
σ		1.857	2.574	0.319%	0.151%	0.088	0.049	0.011	0.207	0.409	0.013
%RSD		247.000	176.300	0.328	0.155	80.470	203.200	55.600	3.607	26.030	33.650
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:59	0.019	-0.007	0.007	-0.377	96.528%	0.005	-0.212	-0.002	96.275%	0.004
2	19:14:02	0.010	-0.013	0.000	-0.633	98.041%	-0.004	-0.175	-0.015	96.358%	-0.001
3	19:14:06	0.009	-0.015	0.008	-0.716	97.881%	0.039	-0.145	-0.023	96.556%	-0.011
x		0.013	-0.012	0.005	-0.576	97.483%	0.013	-0.177	-0.013	96.396%	-0.003
σ		0.005	0.004	0.004	0.177	0.831%	0.023	0.034	0.010	0.145%	0.008
%RSD		42.010	33.100	82.350	30.710	0.853	171.500	18.920	78.740	0.150	292.800
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:59	0.026	-0.026	0.005	0.023	95.902%	-0.172	0.008	0.003	<u>197.266%</u>	0.015
2	19:14:02	0.019	-0.038	-0.004	0.006	96.309%	-0.180	-0.004	0.014	<u>196.241%</u>	0.011
3	19:14:06	0.007	-0.029	-0.004	0.019	96.355%	-0.178	-0.018	0.024	<u>197.280%</u>	0.008
x		0.017	-0.031	-0.001	0.016	96.189%	-0.176	-0.004	0.014	<u>196.929%</u>	0.012
σ		0.010	0.006	0.005	0.009	0.249%	0.004	0.013	0.010	<u>10.596%</u>	0.003
%RSD		54.870	20.450	441.900	55.970	0.259	2.295	302.400	73.090	<u>10.615</u>	30.230
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:13:59	0.008	0.036	0.018	<u>195.549%</u>	0.010					
2	19:14:02	0.004	0.023	0.006	<u>196.761%</u>	0.007					
3	19:14:06	0.001	0.021	-0.000	<u>196.248%</u>	0.005					
x		0.005	0.027	0.008	<u>196.186%</u>	0.007					
σ		0.003	0.008	0.009	<u>10.608%</u>	0.002					
%RSD		75.490	31.530	118.900	<u>10.632</u>	33.830					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:12	0.020	0.036	0.232	8.401	1.789	4.993	8.802	35.240	133.800	<u>1852000.000</u>
2	19:21:16	0.011	0.023	0.327	7.302	2.494	4.438	3.401	31.710	121.000	<u>1806000.000</u>
3	19:21:19	0.017	0.010	0.205	7.600	0.989	3.564	3.248	45.760	129.600	<u>1800000.000</u>
x		0.016	0.023	0.255	7.768	1.757	4.332	5.150	37.570	128.100	<u>1819000.000</u>
σ		0.005	0.013	0.064	0.568	0.753	0.720	3.163	7.311	6.535	<u>18520.000</u>
%RSD		28.960	57.430	25.180	7.316	42.860	16.630	61.420	19.460	5.100	<u>1.568</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:12	45.390	17.300	97.030%	98.504%	0.306	-0.044	0.307	6.656	1.968	0.233
2	19:21:16	39.900	14.120	99.683%	98.521%	0.264	0.076	0.288	5.958	0.984	0.218
3	19:21:19	42.710	14.190	99.479%	99.332%	0.132	-0.035	0.321	6.340	1.544	0.208
x		42.670	15.200	98.730%	98.786%	0.234	-0.001	0.305	6.318	1.499	0.220
σ		2.743	1.816	1.476%	0.473%	0.091	0.067	0.017	0.349	0.493	0.012
%RSD		6.430	11.950	1.495	0.479	38.890	7036.000	5.422	5.528	32.920	5.604
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:12	0.014	0.337	-0.009	0.740	101.589%	-0.004	-0.183	-0.060	96.995%	-0.001
2	19:21:16	0.006	0.296	-0.010	0.240	102.615%	-0.059	-0.213	-0.053	98.158%	-0.004
3	19:21:19	0.014	0.308	0.013	0.372	101.439%	0.001	-0.153	-0.058	97.123%	-0.002
x		0.011	0.314	-0.002	0.451	101.881%	-0.021	-0.183	-0.057	97.425%	-0.002
σ		0.005	0.021	0.013	0.259	0.640%	0.033	0.030	0.004	0.638%	0.002
%RSD		39.530	6.842	586.000	57.450	0.629	159.000	16.330	6.861	0.655	80.120
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:12	0.051	-0.051	-0.001	0.004	97.669%	42.290	0.017	0.017	<u>96.386%</u>	0.021
2	19:21:16	0.051	-0.058	0.003	-0.003	99.335%	42.390	0.016	0.019	<u>96.814%</u>	0.018
3	19:21:19	0.046	-0.049	0.002	0.002	98.059%	42.690	0.008	0.018	<u>96.959%</u>	0.010
x		0.049	-0.053	0.001	0.001	98.354%	42.460	0.014	0.018	<u>96.719%</u>	0.016
σ		0.003	0.005	0.002	0.004	0.872%	0.207	0.005	0.001	<u>0.298%</u>	0.006
%RSD		5.980	9.518	145.400	350.300	0.886	0.487	34.190	5.000	<u>0.308</u>	34.370
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:21:12	0.004	0.001	0.017	91.119%	0.003					
2	19:21:16	0.001	-0.001	0.001	<u>97.855%</u>	0.000					
3	19:21:19	0.003	-0.003	-0.001	<u>97.404%</u>	-0.002					
x		0.002	-0.001	0.006	<u>95.460%</u>	0.000					
σ		0.001	0.002	0.009	<u>3.766%</u>	0.002					
%RSD		59.280	266.000	161.400	<u>3.945</u>	483.500					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:25	0.013	0.014	0.314	13.120	6.649	6.128	6.235	28.340	140.800	<u>1815000.000</u>
2	19:28:29	0.013	0.013	0.286	8.621	3.445	5.926	2.963	36.360	129.800	<u>1810000.000</u>
3	19:28:33	0.023	0.018	0.129	9.011	3.788	6.170	4.495	37.420	131.700	<u>1798000.000</u>
x		0.016	0.015	0.243	10.250	4.627	6.075	4.564	34.040	134.100	<u>1807000.000</u>
σ		0.005	0.003	0.100	2.493	1.759	0.130	1.637	4.967	5.855	<u>8733.000</u>
%RSD		33.420	17.530	41.140	24.320	38.020	2.139	35.860	14.590	4.366	<u>0.483</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:25	48.230	16.590	99.837%	99.826%	0.131	-0.047	0.361	6.632	3.211	0.188
2	19:28:29	41.200	11.700	98.897%	100.684%	-0.026	0.109	0.352	5.749	2.371	0.150
3	19:28:33	38.420	6.420	100.791%	99.460%	0.179	-0.044	0.306	6.656	2.047	0.119
x		42.620	11.570	99.842%	99.990%	0.095	0.006	0.340	6.346	2.543	0.152
σ		5.054	5.086	0.947%	0.628%	0.107	0.089	0.029	0.517	0.601	0.034
%RSD		11.860	43.950	0.949	0.628	113.500	1491.000	8.649	8.146	23.630	22.640
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:25	0.024	0.270	0.019	0.308	102.354%	-0.014	-0.194	-0.050	97.589%	0.010
2	19:28:29	0.019	0.238	0.014	0.090	101.918%	0.035	-0.196	-0.048	97.545%	0.009
3	19:28:33	0.013	0.240	-0.018	-0.029	101.978%	-0.048	-0.110	-0.054	99.012%	-0.003
x		0.018	0.249	0.005	0.123	102.083%	-0.009	-0.167	-0.050	98.049%	0.005
σ		0.006	0.018	0.020	0.171	0.237%	0.041	0.049	0.003	0.835%	0.007
%RSD		30.180	7.152	404.500	138.700	0.232	461.500	29.530	6.037	0.851	137.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:25	0.083	-0.041	0.001	0.023	98.168%	42.630	0.015	0.036	<u>96.485%</u>	0.019
2	19:28:29	0.069	-0.044	-0.001	0.010	98.037%	42.980	0.021	0.019	<u>96.546%</u>	0.019
3	19:28:33	0.069	-0.061	-0.005	0.013	99.355%	42.660	0.007	0.010	<u>96.856%</u>	0.022
x		0.074	-0.049	-0.002	0.015	98.520%	42.760	0.014	0.022	<u>96.629%</u>	0.020
σ		0.008	0.011	0.003	0.007	0.726%	0.192	0.007	0.013	<u>0.199%</u>	0.002
%RSD		11.430	22.900	185.800	44.570	0.737	0.450	48.310	62.080	<u>0.206</u>	8.461
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:28:25	0.004	0.008	0.015	<u>97.415%</u>	0.007					
2	19:28:29	-0.011	0.002	0.006	<u>96.970%</u>	0.004					
3	19:28:33	0.003	-0.004	-0.000	<u>97.443%</u>	0.002					
x		-0.001	0.002	0.007	<u>97.276%</u>	0.004					
σ		0.008	0.006	0.008	<u>0.265%</u>	0.002					
%RSD		673.100	306.500	110.100	<u>0.272</u>	55.640					



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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:40	0.069	0.001	0.162	40.750	7.429	24.670	18.160	43.980	137.100	<u>1861000.000</u>
2	19:35:43	0.054	0.009	0.407	38.340	4.347	24.460	15.890	36.110	148.500	<u>1864000.000</u>
3	19:35:47	0.055	-0.004	0.761	36.080	0.924	24.240	15.510	31.110	128.200	<u>1866000.000</u>
x		0.059	0.002	0.443	38.390	4.234	24.460	16.520	37.070	137.900	<u>1864000.000</u>
σ		0.008	0.007	0.301	2.334	3.254	0.214	1.436	6.490	10.220	<u>12601.000</u>
%RSD		13.770	292.700	67.990	6.080	76.860	0.875	8.696	17.510	7.406	<u>10.140</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:40	58.600	11.690	98.636%	99.955%	0.135	-0.120	0.389	7.463	6.801	0.228
2	19:35:43	58.070	3.784	101.505%	99.878%	0.202	-0.015	0.390	7.037	5.830	0.195
3	19:35:47	58.170	6.444	100.566%	101.336%	0.153	-0.054	0.381	7.074	5.342	0.163
x		58.280	7.307	100.235%	100.389%	0.163	-0.063	0.387	7.191	5.991	0.195
σ		0.281	4.025	1.463%	0.820%	0.034	0.053	0.005	0.236	0.743	0.033
%RSD		0.483	55.080	1.459	0.817	21.020	84.680	1.268	3.283	12.400	16.710
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:40	0.030	0.325	85.230	53.910	101.564%	0.007	-0.140	-0.039	97.725%	0.013
2	19:35:43	0.016	0.326	84.070	54.260	102.996%	-0.046	-0.134	-0.041	99.054%	0.012
3	19:35:47	0.015	0.260	84.590	53.140	104.355%	-0.002	-0.175	-0.053	99.067%	0.009
x		0.020	0.303	84.630	53.770	102.972%	-0.014	-0.149	-0.045	98.615%	0.011
σ		0.008	0.038	0.581	0.576	1.395%	0.029	0.022	0.008	0.771%	0.002
%RSD		39.440	12.490	0.686	1.071	1.355	208.100	14.820	17.260	0.782	16.180
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:40	0.081	-0.049	0.014	0.016	97.606%	43.960	0.032	0.067	<u>96.198%</u>	0.029
2	19:35:43	0.059	-0.029	0.018	0.004	99.909%	43.420	0.047	0.055	<u>97.167%</u>	0.010
3	19:35:47	0.063	-0.050	0.015	0.001	99.525%	43.600	0.010	0.051	<u>96.686%</u>	0.012
x		0.068	-0.043	0.016	0.007	99.014%	43.660	0.029	0.058	<u>96.684%</u>	0.017
σ		0.012	0.012	0.002	0.008	1.234%	0.276	0.019	0.008	<u>0.484%</u>	0.010
%RSD		17.360	27.150	11.520	108.500	1.246	0.633	63.540	14.700	<u>0.501</u>	58.580
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:35:40	-0.005	0.008	3.245	89.584%	0.007					
2	19:35:43	-0.001	-0.001	3.087	<u>96.451%</u>	0.003					
3	19:35:47	-0.000	-0.008	3.136	<u>95.951%</u>	0.001					
x		-0.002	-0.000	3.156	<u>93.995%</u>	0.004					
σ		0.002	0.008	0.081	<u>3.828%</u>	0.003					
%RSD		128.300	2422.000	2.564	<u>4.073</u>	82.110					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:42:53	0.009	0.040	0.111	19.330	6.808	11.210	6.905	34.240	151.400	<u>1857000.000</u>
2	19:42:57	-0.013	-0.008	0.240	16.290	3.033	10.420	5.900	43.040	137.000	<u>1869000.000</u>
3	19:43:00	-0.007	0.022	0.360	14.830	3.317	10.370	7.559	48.230	132.200	<u>1869000.000</u>
x		-0.003	0.018	0.237	16.810	4.386	10.670	6.788	41.840	140.200	<u>1865000.000</u>
σ		0.011	0.024	0.124	2.294	2.102	0.472	0.836	7.068	10.020	<u>17109.000</u>
%RSD		327.300	134.700	52.410	13.650	47.930	4.419	12.310	16.890	7.146	<u>10.381</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:42:53	52.340	34.290	99.559%	99.241%	0.318	0.128	0.431	6.799	3.188	0.214
2	19:42:57	52.870	11.370	100.845%	101.535%	0.283	0.001	0.432	7.057	3.341	0.140
3	19:43:00	58.460	8.902	100.434%	92.185%	0.418	0.023	0.402	7.421	3.284	0.138
x		54.560	18.190	100.279%	97.653%	0.340	0.051	0.421	7.092	3.271	0.164
σ		3.392	14.000	0.657%	4.873%	0.070	0.068	0.017	0.312	0.077	0.044
%RSD		6.217	76.960	0.655	4.990	20.500	133.600	4.099	4.404	2.365	26.490
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:42:53	0.019	0.278	0.129	1.059	102.431%	0.009	-0.179	-0.043	96.953%	-0.006
2	19:42:57	0.011	0.246	0.082	0.631	103.705%	0.027	-0.143	-0.049	97.960%	-0.013
3	19:43:00	0.002	0.249	0.070	0.670	102.852%	0.008	-0.206	-0.043	98.687%	-0.009
x		0.011	0.258	0.094	0.787	102.996%	0.015	-0.176	-0.045	97.866%	-0.009
σ		0.008	0.018	0.031	0.237	0.649%	0.011	0.031	0.003	0.870%	0.004
%RSD		79.180	6.901	33.290	30.110	0.630	73.530	17.790	7.224	0.889	38.840
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:42:53	0.090	-0.037	0.002	0.013	97.614%	<u>41.230</u>	0.015	0.030	<u>96.537%</u>	0.021
2	19:42:57	0.041	-0.033	0.000	0.001	98.883%	42.950	-0.017	0.011	<u>96.224%</u>	0.021
3	19:43:00	0.060	-0.054	0.003	0.001	99.249%	43.250	-0.004	0.016	<u>96.545%</u>	0.015
x		0.064	-0.041	0.002	0.005	98.582%	<u>42.480</u>	-0.002	0.019	<u>96.435%</u>	0.019
σ		0.025	0.011	0.002	0.007	0.858%	<u>1.088</u>	0.016	0.010	<u>0.183%</u>	0.004
%RSD		38.780	27.220	81.460	127.000	0.870	<u>2.560</u>	785.500	51.880	<u>0.190</u>	19.190
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:42:53	-0.001	-0.005	0.017	<u>96.575%</u>	0.004					
2	19:42:57	0.002	-0.007	0.006	90.767%	-0.001					
3	19:43:00	0.003	-0.012	-0.004	<u>96.713%</u>	-0.001					
x		0.001	-0.008	0.006	<u>94.685%</u>	0.001					
σ		0.002	0.003	0.010	<u>3.394%</u>	0.003					
%RSD		121.000	44.830	173.600	<u>3.584</u>	389.100					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:06	0.009	0.029	1.492	4835.000	2953.000	12.140	31.140	23570.000	1728.000	1843000.000
2	19:50:09	0.001	0.004	1.461	4806.000	2932.000	11.140	29.260	23170.000	1691.000	1839000.000
3	19:50:13	-0.007	0.021	1.775	4845.000	2943.000	10.060	29.590	23510.000	1727.000	1833000.000
X		0.001	0.018	1.576	4828.000	2943.000	11.110	30.000	23420.000	1715.000	1839000.000
σ		0.008	0.013	0.173	20.390	10.670	1.043	1.005	213.600	20.810	4999.000
%RSD		821.000	70.860	10.950	0.422	0.363	9.390	3.351	0.912	1.213	0.272
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:06	TM 37980.000	430.600	103.273%	103.504%	-0.175	0.067	0.425	7.382	40.080	1.124
2	19:50:09	TM 38020.000	336.100	104.612%	104.107%	0.183	-0.048	0.394	7.514	39.570	1.043
3	19:50:13	TM 38090.000	417.400	104.180%	103.098%	-0.032	0.186	0.397	6.950	40.000	1.028
X		TM 38030.000	394.700	104.022%	103.570%	-0.008	0.069	0.405	7.282	39.880	1.065
σ		TM 56.810	51.180	0.684%	0.507%	0.180	0.117	0.017	0.295	0.273	0.052
%RSD		TM 0.149	12.970	0.657	0.490	2255.000	170.300	4.213	4.047	0.684	4.878
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:06	0.033	0.437	3.009	67.850	103.640%	0.009	1.352	0.194	100.332%	-0.000
2	19:50:09	0.028	0.447	3.122	67.760	105.359%	-0.001	1.248	0.188	101.896%	-0.008
3	19:50:13	0.020	0.423	3.074	67.940	104.622%	-0.014	1.265	0.144	102.208%	-0.003
X		0.027	0.436	3.068	67.850	104.540%	-0.002	1.288	0.175	101.479%	-0.004
σ		0.006	0.012	0.057	0.090	0.862%	0.012	0.056	0.028	1.005%	0.004
%RSD		23.670	2.739	1.841	0.132	0.825	653.100	4.358	15.710	0.990	107.300
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:06	0.300	-0.001	0.004	0.013	100.874%	43.330	0.041	0.084	101.829%	0.046
2	19:50:09	0.304	-0.031	-0.001	0.001	102.360%	42.900	0.036	0.074	103.776%	0.031
3	19:50:13	0.309	-0.027	0.002	-0.002	101.866%	43.760	0.027	0.055	102.872%	0.044
X		0.305	-0.020	0.002	0.004	101.700%	43.330	0.035	0.071	102.826%	0.040
σ		0.004	0.016	0.003	0.008	0.757%	0.427	0.007	0.015	0.974%	0.008
%RSD		1.429	82.500	166.100	193.300	0.744	0.985	21.390	20.700	0.947	20.410
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:50:06	0.000	-0.001	0.040	100.094%	0.003					
2	19:50:09	0.006	-0.004	0.030	101.451%	0.001					
3	19:50:13	-0.008	-0.009	0.026	101.931%	-0.000					
X		-0.000	-0.004	0.032	101.158%	0.001					
σ		0.007	0.004	0.007	0.953%	0.002					
%RSD		2630.000	94.140	22.790	0.942	122.000					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:19	50.110	52.210	105.000	<u>15580.000</u>	13840.000	2625.000	299.500	<u>30660.000</u>	1719.000	<u>1833000.000</u>
2	19:57:22	49.190	51.470	102.600	<u>15580.000</u>	13690.000	2620.000	294.600	<u>30120.000</u>	1728.000	<u>1828000.000</u>
3	19:57:26	48.820	50.560	101.100	<u>15670.000</u>	13810.000	2641.000	296.900	<u>30060.000</u>	1759.000	<u>1839000.000</u>
X		49.370	51.410	102.900	<u>15610.000</u>	13780.000	2629.000	297.000	<u>30280.000</u>	1735.000	<u>1834000.000</u>
σ		0.667	0.830	1.992	<u>54.610</u>	81.400	11.100	2.419	<u>327.500</u>	20.950	<u>5352.000</u>
%RSD		1.351	1.615	1.936	<u>0.350</u>	0.591	0.422	0.814	<u>1.082</u>	1.207	<u>0.292</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:19	<u>100700.000</u>	3139.000	106.430%	105.154%	51.240	52.450	52.250	16.780	2635.000	52.020
2	19:57:22	<u>100200.000</u>	3112.000	107.125%	106.206%	53.500	52.830	52.050	16.720	2649.000	52.450
3	19:57:26	<u>100900.000</u>	3083.000	106.554%	105.598%	50.870	52.160	51.780	16.560	2647.000	52.240
X		<u>100600.000</u>	3111.000	106.703%	105.653%	51.870	52.480	52.030	16.690	2644.000	52.230
σ		<u>378.800</u>	28.280	0.371%	0.528%	1.422	0.337	0.233	0.114	7.891	0.218
%RSD		<u>0.377</u>	0.909	0.347	0.500	2.741	0.643	0.448	0.682	0.298	0.417
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:19	51.210	51.570	55.480	289.200	105.822%	54.010	56.970	52.130	103.453%	7.462
2	19:57:22	51.450	51.700	55.220	292.400	104.580%	54.960	59.920	52.350	103.879%	7.495
3	19:57:26	50.830	51.380	55.290	292.100	104.907%	54.290	58.740	52.360	103.364%	7.533
X		51.170	51.550	55.330	291.200	105.103%	54.420	58.540	52.280	103.565%	7.497
σ		0.311	0.160	0.135	1.770	0.644%	0.487	1.484	0.132	0.275%	0.036
%RSD		0.607	0.311	0.244	0.608	0.612	0.895	2.535	0.252	0.266	0.478
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:19	49.830	-0.040	26.770	53.890	102.348%	73.850	57.480	51.600	<u>102.641%</u>	0.014
2	19:57:22	50.310	-0.050	27.070	53.670	102.897%	73.330	56.920	50.910	<u>102.362%</u>	0.014
3	19:57:26	49.860	-0.034	27.020	53.960	102.618%	73.390	57.220	50.900	<u>101.736%</u>	0.011
X		50.000	-0.041	26.950	53.840	102.621%	73.520	57.210	51.140	<u>102.246%</u>	0.013
σ		0.269	0.008	0.158	0.153	0.275%	0.284	0.282	0.402	<u>0.463%</u>	0.001
%RSD		0.538	18.930	0.584	0.284	0.268	0.386	0.494	0.786	<u>0.453</u>	10.390
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:57:19	0.490	49.580	50.270	<u>98.715%</u>	<u>53.220</u>					
2	19:57:22	0.510	49.730	50.520	<u>98.232%</u>	<u>53.730</u>					
3	19:57:26	0.554	50.490	51.100	<u>97.882%</u>	<u>53.620</u>					
X		0.518	49.930	50.630	<u>98.276%</u>	<u>53.520</u>					
σ		0.033	0.485	0.423	<u>0.419%</u>	<u>0.272</u>					
%RSD		6.398	0.971	0.836	<u>0.426</u>	<u>0.509</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:31	50.610	52.670	102.500	<u>15750.000</u>	13950.000	2683.000	297.100	<u>29300.000</u>	1640.000	<u>1851000.000</u>
2	20:04:34	51.650	52.890	108.700	<u>15680.000</u>	13820.000	2689.000	296.300	<u>29100.000</u>	1629.000	<u>1838000.000</u>
3	20:04:38	50.860	53.610	105.700	<u>15720.000</u>	13910.000	2720.000	302.500	<u>29750.000</u>	1694.000	<u>1853000.000</u>
X		51.040	53.060	105.600	<u>15720.000</u>	13890.000	2697.000	298.700	<u>29390.000</u>	1655.000	<u>1847000.000</u>
σ		0.544	0.488	3.132	<u>36.040</u>	66.530	20.100	3.384	<u>331.800</u>	34.860	<u>8141.000</u>
%RSD		1.066	0.921	2.965	<u>0.229</u>	0.479	0.745	1.133	<u>1.129</u>	2.107	<u>0.441</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:31	<u>TM 101200.000</u>	3275.000	104.539%	108.032%	52.340	53.860	52.940	14.700	2701.000	53.410
2	20:04:34	<u>TM 99830.000</u>	3071.000	105.956%	107.590%	52.310	53.020	52.170	16.240	2676.000	52.670
3	20:04:38	<u>TM 100900.000</u>	3076.000	107.295%	106.840%	52.250	52.950	52.840	15.190	2670.000	52.490
X		<u>TM 100600.000</u>	3141.000	105.930%	107.488%	52.300	53.270	52.650	15.370	2682.000	52.860
σ		<u>TM 719.000</u>	116.000	1.378%	0.603%	0.045	0.505	0.419	0.788	16.010	0.490
%RSD		<u>TM 0.714</u>	3.692	1.301	0.561	0.086	0.948	0.795	5.124	0.597	0.928
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:31	52.510	52.840	55.340	292.700	103.414%	54.710	58.710	53.310	102.219%	9.966
2	20:04:34	52.330	52.770	55.390	291.800	104.087%	55.100	58.810	53.380	103.028%	<u>8.617</u>
3	20:04:38	51.430	51.570	54.520	289.400	105.818%	54.720	59.210	53.290	104.239%	9.631
X		52.090	52.390	55.080	291.300	104.440%	54.840	58.910	53.330	103.162%	<u>9.405</u>
σ		0.579	0.713	0.489	1.695	1.240%	0.218	0.261	0.044	1.017%	<u>0.703</u>
%RSD		1.111	1.361	0.888	0.582	1.188	0.398	0.443	0.082	0.986	<u>7.470</u>
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:31	51.270	-0.042	27.550	54.450	102.039%	79.080	57.700	51.780	<u>102.777%</u>	0.002
2	20:04:34	50.960	-0.010	27.410	54.650	102.771%	78.770	58.040	51.910	<u>102.659%</u>	0.007
3	20:04:38	50.590	-0.029	27.310	54.950	103.753%	79.490	58.210	52.020	<u>101.901%</u>	-0.001
X		50.940	-0.027	27.420	54.680	102.854%	79.110	57.980	51.900	<u>102.446%</u>	0.003
σ		0.342	0.016	0.120	0.251	0.860%	0.357	0.259	0.118	<u>0.475%</u>	0.004
%RSD		0.670	59.560	0.437	0.459	0.836	0.451	0.447	0.226	<u>0.464</u>	158.100
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:04:31	0.444	50.870	51.540	<u>97.550%</u>	49.270					
2	20:04:34	0.450	50.740	51.360	<u>98.514%</u>	49.420					
3	20:04:38	0.450	50.520	51.680	<u>99.129%</u>	<u>54.280</u>					
X		0.448	50.710	51.530	<u>98.398%</u>	<u>50.990</u>					
σ		0.003	0.173	0.159	<u>0.796%</u>	<u>2.850</u>					
%RSD		0.754	0.342	0.308	<u>0.809</u>	<u>5.589</u>					

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User Pre-dilution: 1.000

User File Location: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:11:44	1.412	0.044	17.160	<u>TM 98690.000</u>	5661.000	39.260	103.300	<u>M 57820.000</u>	5565.000	<u>T 1734000.000</u>
2	20:11:48	1.466	0.089	16.550	<u>TM 99270.000</u>	5699.000	41.190	106.300	<u>M 58400.000</u>	5617.000	<u>T 1766000.000</u>
3	20:11:52	1.464	0.049	16.470	<u>TM 98640.000</u>	5618.000	35.520	111.800	<u>M 57970.000</u>	5546.000	<u>T 1743000.000</u>
X		1.447	0.061	16.730	<u>TM 98870.000</u>	5659.000	38.660	107.200	<u>M 58060.000</u>	5576.000	<u>T 1748000.000</u>
σ		0.031	0.025	0.374	<u>TM 349.100</u>	40.160	2.882	4.299	<u>M 303.100</u>	36.760	<u>T 16790.000</u>
%RSD		2.129	40.540	2.238	<u>TM 0.353</u>	0.710	7.456	4.012	<u>M 0.522</u>	0.659	<u>T 0.961</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:11:44	<u>TM 71190.000</u>	12150.000	94.495%	98.589%	2.118	45.130	4.992	6.955	819.300	71.870
2	20:11:48	<u>TM 72340.000</u>	12620.000	95.824%	96.920%	3.559	45.060	4.845	6.720	814.600	71.860
3	20:11:52	<u>TM 72000.000</u>	12310.000	94.352%	97.932%	2.735	45.120	4.923	7.029	823.100	72.420
X		<u>TM 71840.000</u>	12360.000	94.890%	97.814%	2.804	45.100	4.920	6.901	819.000	72.050
σ		<u>TM 593.800</u>	241.600	0.812%	0.841%	0.723	0.034	0.073	0.161	4.284	0.322
%RSD		<u>TM 0.827</u>	1.954	0.855	0.860	25.780	0.076	1.488	2.334	0.523	0.446
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:11:44	5.298	22.940	<u>TM 2331.000</u>	<u>M 696.600</u>	96.188%	340.600	56.210	164.600	98.890%	0.225
2	20:11:48	5.177	22.770	<u>TM 2298.000</u>	<u>M 694.800</u>	97.559%	340.200	57.450	165.300	100.807%	0.229
3	20:11:52	5.320	22.620	<u>TM 2319.000</u>	<u>M 696.700</u>	96.254%	341.500	58.290	164.700	99.806%	0.227
X		5.265	22.780	<u>TM 2316.000</u>	<u>M 696.000</u>	96.667%	340.700	57.310	164.900	99.834%	0.227
σ		0.077	0.160	<u>TM 16.430</u>	<u>M 1.107</u>	0.773%	0.637	1.045	0.356	0.958%	0.002
%RSD		1.461	0.703	<u>TM 0.709</u>	<u>M 0.159</u>	0.800	0.187	1.824	0.216	0.960	0.906
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:11:44	15.900	-0.009	47.230	210.100	95.201%	21.640	0.325	1.084	<u>T 98.403%</u>	0.021
2	20:11:48	15.830	-0.010	46.780	209.300	96.914%	21.700	0.333	1.140	<u>T 99.137%</u>	0.030
3	20:11:52	15.990	-0.015	47.540	211.100	96.078%	21.670	0.331	1.104	<u>T 99.008%</u>	0.032
X		15.910	-0.011	47.180	210.100	96.065%	21.670	0.330	1.109	<u>T 98.849%</u>	0.028
σ		0.078	0.003	0.381	0.915	0.857%	0.027	0.004	0.028	<u>T 0.392%</u>	0.006
%RSD		0.488	27.330	0.807	0.435	0.892	0.125	1.194	2.568	<u>T 0.396</u>	20.520
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:11:44	1.250	0.086	1.105	89.766%	0.531					
2	20:11:48	1.268	0.092	1.106	90.039%	0.549					
3	20:11:52	1.273	0.084	1.091	90.044%	0.550					
X		1.263	0.088	1.101	89.950%	0.543					
σ		0.012	0.004	0.009	0.159%	0.011					
%RSD		0.982	4.820	0.789	0.176	1.976					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:57	2.671	0.076	28.840	<u>TM 197500.000</u>	11070.000	75.980	209.900	<u>M 120100.000</u>	10990.000	<u>T 1836000.000</u>
2	20:19:00	2.562	0.166	27.920	<u>TM 195700.000</u>	11060.000	75.500	204.800	<u>M 118500.000</u>	10990.000	<u>T 1806000.000</u>
3	20:19:04	2.883	0.090	30.230	<u>TM 193600.000</u>	10950.000	76.620	205.400	<u>M 118100.000</u>	10910.000	<u>T 1792000.000</u>
X		2.705	0.111	28.990	<u>TM 195600.000</u>	11030.000	76.030	206.700	<u>M 118900.000</u>	10960.000	<u>T 1811000.000</u>
σ		0.164	0.048	1.160	<u>TM 1941.000</u>	62.810	0.565	2.759	<u>M 1062.000</u>	44.560	<u>T 22230.000</u>
%RSD		6.043	43.470	4.001	<u>TM 0.992</u>	0.570	0.743	1.335	<u>M 0.893</u>	0.407	<u>T 1.227</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:57	<u>TM 144000.000</u>	24460.000	93.946%	<u>T 96.957%</u>	6.122	89.970	9.569	6.481	1619.000	142.200
2	20:19:00	<u>TM 143700.000</u>	24550.000	93.791%	95.911%	6.235	90.780	9.597	6.804	1625.000	142.900
3	20:19:04	<u>TM 143400.000</u>	24670.000	95.518%	95.999%	6.278	89.780	9.333	6.564	1618.000	142.900
X		<u>TM 143700.000</u>	24560.000	94.418%	<u>T 96.289%</u>	6.212	90.180	9.500	6.616	1621.000	142.700
σ		<u>TM 315.400</u>	102.200	0.956%	<u>T 0.580%</u>	0.080	0.533	0.145	0.168	3.711	0.398
%RSD		<u>TM 0.220</u>	0.416	1.012	<u>T 0.602</u>	1.290	0.591	1.528	2.534	0.229	0.279
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:57	10.210	43.670	<u>TM 4520.000</u>	<u>M 1391.000</u>	97.043%	<u>M 723.700</u>	125.700	313.700	104.840%	0.427
2	20:19:00	10.390	44.720	<u>TM 4579.000</u>	<u>M 1405.000</u>	95.888%	<u>M 727.500</u>	128.800	312.800	104.493%	0.421
3	20:19:04	10.350	44.650	<u>TM 4557.000</u>	<u>M 1409.000</u>	96.342%	<u>M 732.600</u>	127.700	314.300	105.486%	0.436
X		10.320	44.340	<u>TM 4552.000</u>	<u>M 1402.000</u>	96.424%	<u>M 727.900</u>	127.400	313.600	104.940%	0.428
σ		0.091	0.589	<u>TM 29.770</u>	<u>M 9.220</u>	0.582%	<u>M 4.466</u>	1.543	0.754	0.504%	0.008
%RSD		0.879	1.329	<u>TM 0.654</u>	<u>M 0.658</u>	0.603	<u>M 0.614</u>	1.212	0.241	0.480	1.799
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:57	30.780	0.031	89.890	414.400	96.782%	43.280	0.608	2.245	<u>T 99.553%</u>	0.027
2	20:19:00	30.760	-0.003	90.620	418.300	96.935%	43.410	0.600	2.231	<u>T 99.527%</u>	0.036
3	20:19:04	30.820	0.014	90.980	418.400	96.578%	43.670	0.594	2.168	<u>T 99.097%</u>	0.032
X		30.780	0.014	90.500	417.000	96.765%	43.450	0.601	2.215	<u>T 99.393%</u>	0.031
σ		0.030	0.017	0.558	2.303	0.179%	0.201	0.007	0.041	<u>T 0.256%</u>	0.005
%RSD		0.099	121.000	0.617	0.552	0.185	0.462	1.158	1.844	<u>T 0.258</u>	14.740
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:18:57	2.539	0.107	2.138	89.436%	1.042					
2	20:19:00	2.523	0.108	2.125	89.477%	1.048					
3	20:19:04	2.532	0.113	2.163	89.751%	1.053					
X		2.531	0.109	2.142	89.555%	1.048					
σ		0.008	0.003	0.019	0.172%	0.005					
%RSD		0.333	2.707	0.906	0.192	0.521					

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User Pre-dilution: 1.000

User File Location: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:11	94.440	96.230	96.460	5016.000	5160.000	5040.000	4968.000	5106.000	135.900	<u>1802000.000</u>
2	20:26:15	94.930	96.090	95.670	5055.000	5155.000	5031.000	4979.000	5120.000	138.700	<u>1812000.000</u>
3	20:26:19	93.720	94.870	94.420	5051.000	5153.000	5066.000	5014.000	5148.000	141.500	<u>1822000.000</u>
x		94.360	95.730	95.520	5040.000	5156.000	5046.000	4987.000	5125.000	138.700	<u>1812000.000</u>
σ		0.607	0.747	1.029	21.640	3.693	17.790	23.760	21.550	2.802	<u>10290.000</u>
%RSD		0.643	0.780	1.077	0.429	0.072	0.353	0.477	0.421	2.020	<u>0.568</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:11	4971.000	4973.000	103.074%	101.768%	100.900	100.900	102.100	23.200	4955.000	99.360
2	20:26:15	5003.000	5128.000	103.093%	101.674%	99.360	101.400	102.900	21.000	5015.000	100.900
3	20:26:19	5031.000	4983.000	103.804%	102.093%	102.600	100.600	102.200	22.710	5001.000	99.860
x		5002.000	5028.000	103.324%	101.845%	100.900	101.000	102.400	22.300	4990.000	100.000
σ		30.110	86.870	0.416%	0.220%	1.625	0.382	0.454	1.153	31.670	0.786
%RSD		0.602	1.728	0.403	0.216	1.610	0.379	0.444	5.169	0.635	0.785
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:11	101.100	101.800	103.600	103.900	103.691%	101.500	98.470	100.400	101.390%	100.500
2	20:26:15	101.700	103.400	104.200	104.100	104.046%	102.300	99.010	100.700	101.872%	100.400
3	20:26:19	101.600	102.900	103.100	103.100	104.839%	102.600	96.790	101.700	101.776%	101.500
x		101.500	102.700	103.600	103.700	104.192%	102.100	98.090	100.900	101.679%	100.800
σ		0.344	0.833	0.523	0.501	0.588%	0.563	1.158	0.691	0.255%	0.569
%RSD		0.339	0.811	0.505	0.483	0.564	0.551	1.181	0.685	0.251	0.564
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:26:11	101.600	103.600	53.420	104.600	101.889%	102.800	105.500	99.110	<u>102.347%</u>	101.900
2	20:26:15	101.800	104.200	53.360	104.100	103.262%	102.500	105.600	99.320	<u>102.806%</u>	103.400
3	20:26:19	102.100	104.800	53.710	104.400	103.264%	103.000	106.000	99.330	<u>103.917%</u>	101.200
x		101.900	104.200	53.500	104.400	102.805%	102.800	105.700	99.250	<u>103.024%</u>	102.200
σ		0.274	0.603	0.188	0.291	0.793%	0.240	0.273	0.125	<u>10.807%</u>	1.102
%RSD		0.269	0.579	0.350	0.279	0.772	0.234	0.258	0.126	<u>0.783</u>	1.079
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:26:11	5.129	<u>101.800</u>	100.700	<u>101.099%</u>	<u>100.200</u>					
2	20:26:15	5.028	<u>101.500</u>	100.700	<u>100.688%</u>	<u>100.300</u>					
3	20:26:19	5.111	<u>100.000</u>	99.400	<u>102.533%</u>	<u>99.720</u>					
x		5.089	<u>101.100</u>	100.200	<u>101.440%</u>	<u>100.100</u>					
σ		0.054	<u>0.957</u>	0.725	<u>0.969%</u>	<u>0.331</u>					
%RSD		1.054	<u>0.946</u>	0.723	<u>0.955</u>	<u>0.331</u>					



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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:26	0.011	-0.001	0.528	5.202	0.085	-0.263	-0.290	5.089	137.800	<u>1780000.000</u>
2	20:33:30	-0.002	-0.005	0.137	5.106	-0.732	-0.779	-0.244	1.143	140.300	<u>1745000.000</u>
3	20:33:33	0.006	0.045	0.317	4.928	0.793	-1.432	-0.252	-11.040	140.600	<u>1750000.000</u>
x		0.005	0.013	0.327	5.078	0.049	-0.825	-0.262	-1.602	139.600	<u>1758000.000</u>
σ		0.006	0.028	0.196	0.139	0.763	0.586	0.024	8.407	1.499	<u>19150.000</u>
%RSD		128.700	214.800	59.950	2.734	1561.000	71.050	9.280	524.700	1.074	<u>1.089</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:26	3.326	0.814	104.792%	108.090%	0.289	0.017	0.018	6.538	1.168	0.010
2	20:33:30	-4.037	3.075	107.149%	109.252%	0.276	0.027	0.035	6.506	1.266	0.016
3	20:33:33	1.381	17.130	107.243%	<u>110.192%</u>	0.177	0.017	0.027	6.470	1.005	0.011
x		0.224	7.005	106.395%	<u>109.178%</u>	0.247	0.020	0.027	6.505	1.146	0.012
σ		3.816	8.838	1.388%	<u>1.053%</u>	0.061	0.006	0.009	0.034	0.132	0.003
%RSD		1706.000	126.200	1.305	<u>0.964</u>	24.810	28.320	31.830	0.524	11.510	24.960
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:26	0.004	-0.013	0.065	-0.609	104.597%	-0.030	-0.085	-0.000	103.755%	-0.001
2	20:33:30	0.010	0.014	0.092	-0.750	106.345%	-0.013	-0.221	-0.011	104.663%	0.000
3	20:33:33	0.004	-0.020	0.083	-0.873	107.475%	-0.014	-0.160	-0.010	104.965%	-0.001
x		0.006	-0.007	0.080	-0.744	106.139%	-0.019	-0.155	-0.007	104.461%	-0.001
σ		0.003	0.018	0.013	0.132	1.450%	0.010	0.068	0.006	0.630%	0.001
%RSD		54.980	275.900	16.840	17.730	1.366	51.350	43.950	84.530	0.603	129.600
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:33:26	0.018	-0.035	0.015	0.018	100.840%	-0.185	0.003	0.001	<u>104.629%</u>	0.008
2	20:33:30	0.005	-0.037	0.013	0.012	103.458%	-0.189	0.009	-0.009	<u>104.468%</u>	-0.000
3	20:33:33	0.014	-0.041	0.002	0.002	102.944%	-0.199	0.014	0.001	<u>104.496%</u>	0.007
x		0.012	-0.037	0.010	0.010	102.414%	-0.191	0.009	-0.002	<u>104.531%</u>	0.005
σ		0.007	0.003	0.007	0.008	1.387%	0.007	0.005	0.006	<u>0.086%</u>	0.004
%RSD		53.100	7.524	66.480	73.480	1.354	3.729	63.750	282.400	<u>0.083</u>	96.130
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:33:26	0.012	0.026	0.002	<u>102.916%</u>	0.003					
2	20:33:30	0.006	0.022	-0.004	<u>101.667%</u>	0.005					
3	20:33:33	0.003	0.016	-0.005	<u>102.239%</u>	0.004					
x		0.007	0.021	-0.002	<u>102.274%</u>	0.004					
σ		0.005	0.005	0.004	<u>0.625%</u>	0.001					
%RSD		63.770	23.650	185.300	<u>0.611</u>	16.080					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:39	1.018	1.021	1.680	265.400	270.200	254.400	54.320	46.920	146.500	<u>1786000.000</u>
2	20:40:42	1.075	1.073	1.403	262.200	265.800	259.400	55.340	47.610	142.400	<u>1770000.000</u>
3	20:40:46	0.990	1.075	1.470	260.500	253.600	259.600	55.020	59.700	139.500	<u>1784000.000</u>
x		1.028	1.056	1.518	262.700	263.200	257.800	54.890	51.410	142.800	<u>1780000.000</u>
σ		0.043	0.031	0.145	2.472	8.592	2.962	0.517	7.186	3.523	<u>8642.000</u>
%RSD		4.201	2.905	9.529	0.941	3.264	1.149	0.942	13.980	2.468	<u>0.485</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:39	262.600	255.300	106.921%	<u>121.096%</u>	1.314	1.050	1.041	7.079	262.400	0.959
2	20:40:42	255.600	289.700	108.960%	115.708%	0.799	1.123	1.067	6.735	255.200	1.032
3	20:40:46	260.300	230.200	108.812%	114.772%	0.921	0.996	1.032	7.214	261.400	1.009
x		259.500	258.400	108.231%	<u>117.192%</u>	1.012	1.056	1.047	7.009	259.600	1.000
σ		3.575	29.900	1.137%	<u>3.413%</u>	0.269	0.064	0.018	0.247	3.903	0.037
%RSD		1.378	11.570	1.050	<u>2.913</u>	26.620	6.065	1.744	3.521	1.503	3.725
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:39	1.031	1.064	1.120	0.804	109.294%	1.037	0.910	1.051	104.160%	1.030
2	20:40:42	1.032	1.025	1.120	0.577	109.718%	1.019	0.880	1.020	105.037%	1.010
3	20:40:46	1.055	1.040	1.070	0.373	109.789%	1.119	0.718	0.997	105.605%	1.018
x		1.039	1.043	1.103	0.585	109.600%	1.059	0.836	1.023	104.934%	1.019
σ		0.014	0.020	0.029	0.216	0.268%	0.053	0.103	0.027	0.728%	0.010
%RSD		1.299	1.902	2.641	36.920	0.244	5.044	12.350	2.675	0.694	0.986
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:39	1.071	1.080	0.533	1.082	104.322%	0.849	1.087	0.980	<u>104.287%</u>	1.037
2	20:40:42	1.044	1.041	0.574	1.032	104.714%	0.788	1.057	1.010	<u>104.191%</u>	1.015
3	20:40:46	1.075	1.027	0.533	1.085	105.523%	0.829	1.061	1.035	<u>105.201%</u>	1.002
x		1.064	1.049	0.547	1.066	104.853%	0.822	1.068	1.008	<u>104.560%</u>	1.018
σ		0.017	0.027	0.023	0.030	0.613%	0.031	0.016	0.028	<u>0.557%</u>	0.018
%RSD		1.617	2.600	4.264	2.779	0.584	3.754	1.487	2.737	<u>0.533</u>	1.735
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:40:39	0.215	1.009	0.998	<u>100.524%</u>	0.876					
2	20:40:42	0.209	1.000	0.988	<u>100.394%</u>	0.884					
3	20:40:46	0.218	0.987	0.984	<u>101.296%</u>	0.876					
x		0.214	0.999	0.990	<u>100.738%</u>	0.878					
σ		0.005	0.011	0.007	<u>0.487%</u>	0.005					
%RSD		2.148	1.066	0.754	<u>0.484</u>	0.537					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:52	4.696	4.993	5.541	505.800	541.000	514.000	260.300	261.900	128.100	<u>1761000.000</u>
2	20:47:55	4.864	4.735	4.779	526.700	532.500	517.800	258.000	243.700	121.700	<u>1787000.000</u>
3	20:47:59	4.631	4.548	4.911	516.600	525.700	523.500	256.600	280.100	118.100	<u>1805000.000</u>
x		4.730	4.759	5.077	516.400	533.100	518.400	258.300	261.900	122.700	<u>1784000.000</u>
σ		0.120	0.224	0.407	10.480	7.680	4.770	1.866	18.180	5.046	<u>122310.000</u>
%RSD		2.542	4.698	8.023	2.029	1.441	0.920	0.722	6.942	4.114	<u>1.250</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:52	490.900	509.200	108.209%	111.570%	5.825	5.006	5.204	7.531	507.800	4.972
2	20:47:55	501.300	503.000	107.098%	111.998%	5.162	5.062	5.218	7.884	508.700	4.994
3	20:47:59	515.200	545.600	106.628%	111.378%	5.008	5.096	5.188	7.762	514.900	5.044
x		502.500	519.200	107.312%	111.649%	5.332	5.055	5.203	7.726	510.500	5.003
σ		12.210	22.990	0.812%	0.317%	0.435	0.045	0.015	0.179	3.858	0.037
%RSD		2.430	4.427	0.757	0.284	8.150	0.894	0.287	2.319	0.756	0.735
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:52	5.155	5.161	5.242	5.082	107.619%	5.302	4.527	5.093	103.870%	5.158
2	20:47:55	5.100	5.321	5.195	4.672	109.625%	5.216	5.037	5.035	104.083%	5.063
3	20:47:59	5.107	5.043	5.252	4.470	109.724%	5.201	5.049	5.051	103.011%	5.156
x		5.121	5.175	5.229	4.741	108.989%	5.240	4.871	5.059	103.655%	5.126
σ		0.030	0.140	0.030	0.312	1.188%	0.054	0.298	0.030	0.568%	0.054
%RSD		0.588	2.699	0.576	6.584	1.090	1.037	6.111	0.591	0.548	1.058
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:52	5.136	5.316	2.685	5.218	104.123%	4.995	5.355	4.885	<u>104.495%</u>	5.026
2	20:47:55	5.171	5.210	2.726	5.286	104.539%	4.822	5.377	4.943	<u>103.407%</u>	5.121
3	20:47:59	5.049	5.103	2.740	5.295	104.705%	4.989	5.311	4.929	<u>104.652%</u>	5.088
x		5.118	5.210	2.717	5.266	104.456%	4.935	5.348	4.919	<u>104.184%</u>	5.078
σ		0.063	0.107	0.028	0.042	0.300%	0.098	0.034	0.030	<u>10.678%</u>	0.048
%RSD		1.229	2.049	1.046	0.798	0.287	1.985	0.634	0.615	<u>10.651</u>	0.948
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:47:52	0.489	4.846	4.983	<u>100.505%</u>	4.427					
2	20:47:55	0.516	5.000	5.009	<u>100.613%</u>	4.374					
3	20:47:59	0.490	4.965	4.966	<u>100.894%</u>	4.455					
x		0.498	4.937	4.986	<u>100.671%</u>	4.419					
σ		0.015	0.081	0.021	<u>10.201%</u>	0.041					
%RSD		3.099	1.641	0.431	<u>10.199</u>	0.923					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	0.236	0.003	0.393	<u>TM 52670.000</u>	<u>M 51070.000</u>	<u>TM 51540.000</u>	13.020	<u>M 52100.000</u>	3866.000	<u>T 1735000.000</u>
2	20:55:09	0.240	0.008	0.425	<u>TM 52040.000</u>	<u>M 50850.000</u>	<u>TM 51330.000</u>	9.692	<u>M 52310.000</u>	3901.000	<u>T 1737000.000</u>
3	20:55:12	0.211	0.008	0.501	<u>TM 52570.000</u>	<u>M 51230.000</u>	<u>TM 51530.000</u>	8.194	<u>M 51990.000</u>	3857.000	<u>T 1728000.000</u>
X		0.229	0.007	0.440	<u>TM 52430.000</u>	<u>M 51050.000</u>	<u>TM 51470.000</u>	10.300	<u>M 52140.000</u>	3875.000	<u>T 1733000.000</u>
σ		0.016	0.003	0.055	<u>TM 341.000</u>	<u>M 192.300</u>	<u>TM 119.500</u>	2.472	<u>M 161.000</u>	23.250	<u>T 4444.000</u>
%RSD		6.972	42.380	12.610	<u>TM 0.651</u>	<u>M 0.377</u>	<u>TM 0.232</u>	23.990	<u>M 0.309</u>	0.600	<u>T 0.256</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	<u>TM 52800.000</u>	<u>M 49270.000</u>	85.198%	91.151%	<u>M 1033.000</u>	-0.042	0.124	5.417	<u>TM 52630.000</u>	-0.056
2	20:55:09	<u>TM 52300.000</u>	<u>M 49040.000</u>	85.137%	90.275%	<u>M 1033.000</u>	0.114	0.145	5.145	<u>TM 52490.000</u>	-0.099
3	20:55:12	<u>TM 52820.000</u>	<u>M 49710.000</u>	83.795%	90.794%	<u>M 1019.000</u>	-0.070	0.143	5.564	<u>TM 52770.000</u>	-0.110
X		<u>TM 52640.000</u>	<u>M 49340.000</u>	84.710%	90.740%	<u>M 1028.000</u>	0.001	0.137	5.376	<u>TM 52630.000</u>	-0.089
σ		<u>TM 295.400</u>	<u>M 342.600</u>	0.793%	0.440%	<u>M 8.106</u>	0.099	0.012	0.213	<u>TM 138.200</u>	0.028
%RSD		<u>TM 0.561</u>	<u>M 0.694</u>	0.936	0.485	<u>M 0.789</u>	12660.000	8.457	3.954	<u>TM 0.263</u>	32.030
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	0.010	0.017	0.149	-0.715	83.893%	0.072	-0.193	0.410	86.052%	0.055
2	20:55:09	0.014	0.039	0.161	-0.977	83.377%	0.062	-0.214	0.424	85.488%	0.039
3	20:55:12	0.008	0.022	0.095	-0.891	83.558%	-0.009	-0.159	0.445	84.479%	0.048
X		0.011	0.026	0.135	-0.861	83.609%	0.042	-0.188	0.426	85.340%	0.047
σ		0.003	0.011	0.035	0.134	0.262%	0.044	0.028	0.018	0.797%	0.008
%RSD		26.700	44.050	26.020	15.530	0.313	105.900	14.770	4.185	0.934	17.760
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:05	<u>TM 1077.000</u>	-0.037	0.008	-0.020	89.678%	-0.029	0.054	0.088	<u>T 92.716%</u>	0.019
2	20:55:09	<u>TM 1079.000</u>	-0.002	-0.008	-0.002	90.187%	-0.048	0.067	0.103	<u>T 93.144%</u>	0.014
3	20:55:12	<u>TM 1079.000</u>	0.012	0.007	-0.037	89.571%	-0.055	0.079	0.105	<u>T 92.489%</u>	0.010
X		<u>TM 1078.000</u>	-0.009	0.002	-0.020	89.812%	-0.044	0.066	0.099	<u>T 92.783%</u>	0.015
σ		<u>TM 0.925</u>	0.025	0.009	0.017	0.329%	0.014	0.012	0.009	<u>T 0.333%</u>	0.005
%RSD		<u>TM 0.086</u>	282.200	409.100	86.340	0.367	31.040	18.640	9.129	<u>T 0.359</u>	31.780
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:55:05	-0.001	-0.008	0.039	86.181%	0.001					
2	20:55:09	0.003	-0.008	0.029	86.931%	0.000					
3	20:55:12	0.003	-0.008	0.028	86.523%	-0.000					
X		0.002	-0.008	0.032	86.545%	0.000					
σ		0.002	0.000	0.006	0.376%	0.000					
%RSD		119.000	4.053	20.030	0.434	308.700					

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User Pre-dilution: 1.000

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Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:18	96.650	94.990	98.010	<u>TM 53410.000</u>	<u>M 52070.000</u>	<u>TM 52040.000</u>	5046.000	<u>M 56450.000</u>	3842.000	<u>T 1882000.000</u>
2	21:02:22	95.890	94.890	95.080	<u>TM 53210.000</u>	<u>M 52330.000</u>	<u>TM 52070.000</u>	5037.000	<u>M 57550.000</u>	3904.000	<u>T 1877000.000</u>
3	21:02:26	97.020	95.630	95.330	<u>TM 52500.000</u>	<u>M 51180.000</u>	<u>TM 50870.000</u>	4889.000	<u>M 56130.000</u>	3835.000	<u>T 1848000.000</u>
X		96.520	95.170	96.140	<u>TM 53040.000</u>	<u>M 51860.000</u>	<u>TM 51660.000</u>	4991.000	<u>M 56710.000</u>	3860.000	<u>T 1869000.000</u>
σ		0.575	0.404	1.625	<u>TM 477.100</u>	<u>M 605.700</u>	<u>TM 688.300</u>	88.160	<u>M 743.300</u>	37.780	<u>T 18120.000</u>
%RSD		0.596	0.424	1.690	<u>TM 0.900</u>	<u>M 1.168</u>	<u>TM 1.332</u>	1.766	<u>M 1.311</u>	0.979	<u>T 0.970</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:18	<u>TM 52990.000</u>	<u>M 50180.000</u>	84.260%	86.714%	<u>M 1126.000</u>	103.200	103.400	24.800	<u>TM 52180.000</u>	103.500
2	21:02:22	<u>TM 52680.000</u>	<u>M 49430.000</u>	83.498%	86.523%	<u>M 1130.000</u>	104.200	105.600	24.020	<u>TM 52660.000</u>	104.600
3	21:02:26	<u>TM 52140.000</u>	<u>M 49250.000</u>	84.697%	86.725%	<u>M 1119.000</u>	104.100	104.200	21.010	<u>TM 52350.000</u>	103.100
X		<u>TM 52610.000</u>	<u>M 49620.000</u>	84.152%	86.654%	<u>M 1125.000</u>	103.800	104.400	23.280	<u>TM 52400.000</u>	103.700
σ		<u>TM 430.800</u>	<u>M 492.600</u>	0.607%	0.114%	<u>M 5.368</u>	0.563	1.137	2.000	<u>TM 242.700</u>	0.768
%RSD		<u>TM 0.819</u>	<u>M 0.993</u>	0.721	0.131	<u>M 0.477</u>	0.542	1.089	8.593	<u>TM 0.463</u>	0.741
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:18	102.400	100.800	100.600	107.700	84.161%	105.500	102.200	104.600	85.369%	102.100
2	21:02:22	102.800	102.000	101.700	108.200	83.388%	107.000	103.800	104.400	85.087%	101.700
3	21:02:26	102.400	101.000	101.200	108.300	83.213%	105.700	102.200	104.700	84.624%	101.700
X		102.500	101.300	101.200	108.100	83.588%	106.100	102.700	104.600	85.026%	101.800
σ		0.258	0.653	0.536	0.323	0.505%	0.843	0.925	0.179	0.376%	0.218
%RSD		0.252	0.645	0.530	0.299	0.604	0.795	0.900	0.171	0.443	0.214
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:18	<u>TM 1172.000</u>	100.600	50.920	103.200	90.186%	102.700	105.900	100.500	<u>T 92.342%</u>	107.700
2	21:02:22	<u>TM 1180.000</u>	101.100	51.230	103.700	89.458%	103.100	106.400	100.200	<u>T 92.358%</u>	107.400
3	21:02:26	<u>TM 1186.000</u>	101.300	51.380	103.800	89.669%	104.000	107.100	100.000	<u>T 92.803%</u>	107.900
X		<u>TM 1179.000</u>	101.000	51.180	103.500	89.771%	103.300	106.500	100.200	<u>T 92.501%</u>	107.600
σ		<u>TM 7.185</u>	0.346	0.234	0.325	0.374%	0.684	0.588	0.236	<u>T 0.262%</u>	0.257
%RSD		<u>TM 0.609</u>	0.342	0.457	0.314	0.417	0.663	0.552	0.235	<u>T 0.283</u>	0.238
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	21:02:18	5.475	104.700	104.800	87.114%	<u>T 110.700</u>					
2	21:02:22	5.187	<u>T 107.100</u>	105.400	87.634%	<u>T 110.500</u>					
3	21:02:26	5.370	104.800	105.500	87.669%	<u>T 111.800</u>					
X		5.344	<u>T 105.500</u>	105.300	87.472%	<u>T 111.000</u>					
σ		0.146	<u>T 1.352</u>	0.360	0.311%	<u>T 0.718</u>					
%RSD		2.730	<u>T 1.281</u>	0.342	0.355	<u>T 0.647</u>					

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:33	98.140	96.450	99.260	5130.000	5224.000	5084.000	4998.000	5046.000	123.300	1824000.000
2	21:09:36	99.100	97.710	100.600	5093.000	5238.000	5044.000	5025.000	5008.000	140.700	1804000.000
3	21:09:40	99.760	98.010	100.100	5076.000	5210.000	5013.000	4957.000	5047.000	122.400	1789000.000
x		99.000	97.390	100.000	5100.000	5224.000	5047.000	4993.000	5034.000	128.800	1806000.000
σ		0.817	0.829	0.702	27.540	13.800	35.650	34.400	21.990	10.340	17350.000
%RSD		0.825	0.851	0.702	0.540	0.264	0.706	0.689	0.437	8.026	0.961
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:33	4993.000	5346.000	98.251%	97.812%	98.510	100.600	101.600	24.610	4999.000	100.200
2	21:09:36	4989.000	5278.000	97.104%	97.773%	100.300	100.900	102.700	20.560	5002.000	100.300
3	21:09:40	4965.000	5007.000	98.512%	97.219%	96.240	100.800	101.600	22.260	4981.000	98.830
x		4982.000	5210.000	97.956%	97.601%	98.370	100.700	102.000	22.480	4994.000	99.800
σ		14.810	179.200	0.749%	0.332%	2.056	0.129	0.645	2.037	11.330	0.846
%RSD		0.297	3.440	0.764	0.340	2.090	0.128	0.633	9.062	0.227	0.848
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:33	100.300	102.500	102.900	104.400	98.386%	101.700	100.600	100.700	96.577%	100.600
2	21:09:36	100.200	101.600	102.000	102.700	100.269%	101.100	97.140	100.800	96.252%	101.200
3	21:09:40	100.600	103.000	102.300	102.900	99.835%	100.100	99.920	100.300	96.496%	102.000
x		100.400	102.400	102.400	103.300	99.497%	101.000	99.210	100.600	96.442%	101.300
σ		0.205	0.687	0.461	0.918	0.986%	0.766	1.824	0.236	0.169%	0.709
%RSD		0.205	0.671	0.451	0.888	0.991	0.759	1.838	0.234	0.175	0.700
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:09:33	101.500	104.000	53.720	104.900	98.425%	102.400	105.400	98.480	100.068%	101.100
2	21:09:36	102.300	104.300	53.450	104.600	98.814%	102.000	104.900	99.670	100.056%	102.000
3	21:09:40	102.600	104.800	53.730	104.900	98.600%	103.200	105.900	99.770	99.979%	102.700
x		102.200	104.400	53.630	104.800	98.613%	102.500	105.400	99.310	100.035%	101.900
σ		0.549	0.407	0.159	0.173	0.195%	0.618	0.485	0.717	0.048%	0.782
%RSD		0.537	0.390	0.297	0.165	0.198	0.603	0.460	0.722	0.048	0.767
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	21:09:33	5.020	101.000	99.780	99.986%	101.000					
2	21:09:36	5.080	101.300	100.400	99.689%	100.100					
3	21:09:40	4.997	100.500	99.620	100.204%	101.100					
x		5.032	100.900	99.930	99.960%	100.700					
σ		0.043	0.373	0.410	0.259%	0.556					
%RSD		0.846	0.370	0.410	0.259	0.552					

229404\_9800\_CCBTVAA

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:47	0.031	0.045	0.297	4.070	0.303	-0.339	0.375	1.190	115.200	<u>1725000.000</u>
2	21:16:51	0.022	0.029	0.274	4.921	2.392	0.127	-0.301	-3.868	123.200	<u>1747000.000</u>
3	21:16:55	0.019	0.021	0.203	4.203	-0.185	-0.348	0.841	-4.416	141.400	<u>1713000.000</u>
x		0.024	0.032	0.258	4.398	0.837	-0.187	0.305	-2.365	126.600	<u>1728000.000</u>
σ		0.006	0.013	0.049	0.458	1.369	0.272	0.574	3.091	13.440	<u>17260.000</u>
%RSD		26.000	40.140	19.030	10.400	163.600	145.500	188.300	130.700	10.610	<u>0.998</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:47	-5.216	6.144	100.462%	103.216%	0.236	-0.037	0.035	6.189	1.386	0.008
2	21:16:51	-2.176	-3.873	101.070%	103.694%	0.233	-0.013	0.033	6.243	2.104	0.007
3	21:16:55	-9.346	3.462	102.818%	103.561%	0.199	-0.090	0.010	6.181	1.384	0.011
x		-5.579	1.911	101.450%	103.490%	0.223	-0.047	0.026	6.204	1.625	0.008
σ		3.599	5.185	1.223%	0.247%	0.021	0.040	0.014	0.034	0.415	0.002
%RSD		64.510	271.300	1.206	0.238	9.358	85.090	53.540	0.546	25.550	26.900
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:47	0.008	0.004	0.001	-0.515	100.410%	-0.015	-0.178	-0.002	98.922%	-0.007
2	21:16:51	0.013	0.000	0.017	-0.704	101.794%	0.000	-0.139	-0.003	99.426%	-0.011
3	21:16:55	0.002	0.003	0.021	-0.757	100.789%	0.001	-0.200	-0.008	99.658%	-0.000
x		0.007	0.003	0.013	-0.659	100.997%	-0.005	-0.172	-0.004	99.335%	-0.006
σ		0.006	0.002	0.011	0.127	0.715%	0.009	0.031	0.003	0.377%	0.005
%RSD		76.270	82.970	81.410	19.290	0.708	193.900	18.100	74.300	0.379	85.040
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:47	0.032	-0.017	0.007	0.006	97.975%	-0.194	-0.005	-0.006	<u>101.599%</u>	0.005
2	21:16:51	0.048	-0.036	0.019	0.023	98.257%	-0.177	-0.009	-0.009	<u>102.336%</u>	0.013
3	21:16:55	0.050	-0.035	0.008	0.016	98.215%	-0.196	-0.012	0.007	<u>102.164%</u>	0.012
x		0.044	-0.030	0.012	0.015	98.149%	-0.189	-0.009	-0.003	<u>102.033%</u>	0.010
σ		0.010	0.011	0.006	0.008	0.152%	0.010	0.003	0.008	<u>0.386%</u>	0.005
%RSD		22.370	35.670	56.220	57.950	0.155	5.407	36.950	314.900	<u>0.378</u>	44.870
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	21:16:47	0.017	0.041	0.008	<u>99.915%</u>	0.006					
2	21:16:51	0.012	0.037	0.007	<u>100.370%</u>	0.009					
3	21:16:55	-0.004	0.032	-0.001	<u>100.500%</u>	0.006					
x		0.008	0.037	0.005	<u>100.262%</u>	0.007					
σ		0.011	0.005	0.005	<u>0.307%</u>	0.002					
%RSD		138.800	12.620	102.200	<u>0.307</u>	24.570					

Batch Information: MPRP 20481

Prep Method	EPA 3050B
Block ID	40HB11
Corrected Temp. (C)	92.50
Solid Matrix Lot	202021
Reviewed By Date	06/28/2019 14:33

Analysis Method	EPA 6020
Thermometer ID	151839407
Acceptance Range:	95+/-5 C
Digestion Vessel	227703
Batch Notes	HBN 325786

Extracted By	BTH
Block Temp (C)	92.5
Digestion Start Time	06/28/2019 10:01:49:281
Metals Pipette 1	40PPT69

Template Version: F-GB-M-035-Rev.03 (21Jun2016)

Instrument	40BAL2
Correction Factor (C)	0
Digestion End Time	06/28/2019 13:35:18:730
Reviewed By	KXS

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Weight (g)	1:1 HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	MDL / EQL	6000-SPKB (mL)	6000-SPKB2 (mL)
6020 T_P	BLANK	1891435	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	SBLK	1891436	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	SRM	1891437	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	LCS	1891438	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J	228365 (0.25)	229194 (1)
6020 T_P	LCSD	1891439	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J	228365 (0.25)	229194 (1)
6020 T_P	PS	40189620001	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189620002	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189620003	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189620004	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189621001	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189621002	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189621003	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189622001	Y	Tissue	0.501	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189622002	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189622003	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189622004	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		
6020 T_P	PS	40189622005	Y	Tissue	0.5	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		



QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Weight (g)	1:1 HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	MDL / EQL	6000-SPKB (mL)	6000-SPKB2 (mL)
6020 T_P	PS	40189622006	Y	Tissue	0.501	228885 (10)	214040 (5)	225130 (2.5)	50	7/17/19		J		

QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	BLANK	1891435		
6020 T_P	SBLK	1891436		
6020 T_P	SRM	1891437		218641 (.5)
6020 T_P	LCS	1891438	228366 (0.25)	
6020 T_P	LCSD	1891439	228366 (0.25)	
6020 T_P	PS	40189620001		
6020 T_P	PS	40189620002		
6020 T_P	PS	40189620003		
6020 T_P	PS	40189620004		
6020 T_P	PS	40189621001		
6020 T_P	PS	40189621002		
6020 T_P	PS	40189621003		
6020 T_P	PS	40189622001		
6020 T_P	PS	40189622002		
6020 T_P	PS	40189622003		
6020 T_P	PS	40189622004		
6020 T_P	PS	40189622005		
6020 T_P	PS	40189622006		

Standard Notes:

218641: Metals SRM TORT-3 - Rec'd 02/25/19

228365: ICPMS Biota Spike

228366: Biota Spike Silver

229194: TVA Supplemental Spike

FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-LB-F-EB01-  
20190509

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621001 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0031	U	mg/kg	1	06/24/2019 17:32

FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-EB01-  
20190522

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621002 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0031	U	mg/kg	1	06/24/2019 18:24

FORM I INORGANIC-1  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-EB01-  
20190524

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND  
Lab Sample ID: 40189621003 Percent Moisture: \_\_\_\_\_

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0031	U	mg/kg	1	06/24/2019 18:36

FORM II INORGANIC-1  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: 228669

Continuing Calibration Verification Source: \_\_\_\_\_

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	06/24/2019 09:09				06/24/2019 12:17			06/24/2019 15:19			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	102.6	90-110	4.19	4.6	110.1	4.19	4.6	109.9	80-120

FORM II INORGANIC-2  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: \_\_\_\_\_

Continuing Calibration Verification Source: \_\_\_\_\_

Concentration Units: mg/kg Instrument ID: 40HG4

	Continuing Calibration Verification						
	06/24/2019 17:55			06/24/2019 18:59			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Mercury	4.19	4.6	110.5	4.19	4.8	114.9	80-120

FORM II INORGANIC-1  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: 228668

Continuing Calibration Verification Source: \_\_\_\_\_

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	06/24/2019 08:58				06/24/2019 12:07			06/24/2019 15:08			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	0.3	0.33	109.6	90-110	0.29	0.32	111.3	0.29	0.32	109.6	80-120

FORM II INORGANIC-2  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Initial Calibration Verification Source: \_\_\_\_\_

Continuing Calibration Verification Source: \_\_\_\_\_

Concentration Units: mg/kg Instrument ID: 40HG4

Analyte	Continuing Calibration Verification						
	06/24/2019 17:44			06/24/2019 18:47			Control Limit
	True	Found	%R	True	Found	%R	
Mercury	0.29	0.33	112.7	0.29	0.33	112.5	80-120



FORM II INORGANIC-1  
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

CRDL Check Standard Source: 228667 Analysis Date/Time: 06/24/2019 09:54

Concentration Units: mg/kg

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.08	0.097	121.4	60-140

FORM III INORGANIC-1  
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract : 425258 CUMBERLAND FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40HG4

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (mg/kg)		Continuing Calibration Blank (mg/kg)						Method Blank	
	06/24/2019 09:30	C	06/24/2019 12:35	C	06/24/2019 15:38	C	06/24/2019 18:13	C	1889472	C
Mercury	0.020	U	0.020	U	0.020	U	0.020	U	<0.0032	U

FORM III INORGANIC-2  
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract : 425258 CUMBERLAND FOSSIL PLANT

Method Blank Matrix: \_\_\_\_\_ Instrument ID: 40HG4

Method Blank Concentration Units: \_\_\_\_\_

Analyte	Initial Calibration Blank		Continuing Calibration Blank (mg/kg)					
		C	06/24/2019 19:17	C		C		C
Mercury			0.020	U				

SAMPLE NO.

FORM VI INORGANIC-1  
DUPLICATES

1889474LCSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLANDMatrix: Tissue Concentration Units: mg/kgPercent Moisture:                      Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	0.29	0.29	1

FORM VII INORGANIC-1  
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1889473LCS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.25	0.29	114	80	120

FORM VII INORGANIC-2  
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1889474LCSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.25	0.29	113	80	120

FORM IX INORGANIC-1  
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Preparation Method: None Instrument ID: 40HG4

Concentration Units: mg/kg

Analyte	PQL	IDL	IDL Date
Mercury	0.020	0.020	11/04/2011

FORM IX INORGANIC-2  
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Preparation Method: \_\_\_\_\_ Instrument ID: 40HG4

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Mercury	0.020	0.0032	09/17/2018



FORM XIII INORGANIC-1  
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40189621 Contract: 425258 CUMBERLAND FOSSIL PLANT

Instrument ID: 40HG4

Analysis Method: EPA 7473

Start Date: 06/20/2019 08:36








End Date: 06/24/2019 19:17

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
12419470CAL0	12419470CAL0	1	06/20/2019	08:36	X
12419471CAL1	12419471CAL1	1	06/20/2019	08:48	X
12419472CAL2	12419472CAL2	1	06/20/2019	09:01	X
12419473CAL3	12419473CAL3	1	06/20/2019	09:12	X
12419475CAL4	12419475CAL4	1	06/20/2019	09:24	X
12419476CAL5	12419476CAL5	1	06/20/2019	09:36	X
12419477CAL6	12419477CAL6	1	06/20/2019	09:48	X
12419478CAL7	12419478CAL7	1	06/20/2019	09:59	X
12419479CAL8	12419479CAL8	1	06/20/2019	10:18	X
12419480CAL9	12419480CAL9	1	06/20/2019	10:44	X
12419481CAL10	12419481CAL10	1	06/20/2019	11:30	X
12442144ICVB	12442144ICVB	1	06/24/2019	08:58	X
12442145ICVA	12442145ICVA	1	06/24/2019	09:09	X
12442146ICB	12442146ICB	1	06/24/2019	09:30	X
12442147CRDL	12442147CRDL	1	06/24/2019	09:54	X
12442148CCVB	12442148CCVB	1	06/24/2019	12:07	X
12442149CCVA	12442149CCVA	1	06/24/2019	12:17	X
12442150CCB	12442150CCB	1	06/24/2019	12:35	X
1889472BLANK	1889472	1	06/24/2019	12:49	X
1889473LCS	1889473	1	06/24/2019	13:02	X
1889474LCSD	1889474	1	06/24/2019	13:14	X
12442151CCVB	12442151CCVB	1	06/24/2019	15:08	X
12442152CCVA	12442152CCVA	1	06/24/2019	15:19	X
12442153CCB	12442153CCB	1	06/24/2019	15:38	X
CUF-FH-LB-F-EB01-	40189621001	1	06/24/2019	17:32	X
12442154CCVB	12442154CCVB	1	06/24/2019	17:44	X
12442155CCVA	12442155CCVA	1	06/24/2019	17:55	X
12442156CCB	12442156CCB	1	06/24/2019	18:13	X
CUF-FH-CC-F-EB01-	40189621002	1	06/24/2019	18:24	X
CUF-FH-CC-F-EB01-	40189621003	1	06/24/2019	18:36	X
12442157CCVB	12442157CCVB	1	06/24/2019	18:47	X
12442158CCVA	12442158CCVA	1	06/24/2019	18:59	X
12442159CCB	12442159CCB	1	06/24/2019	19:17	X

# Sample listing "06202019A\_40HG4\_AJD.d80"

Created by "Administrator"  
20.06.2019 12:03:50

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Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
- 1	PURGE 6-20-19 AJD 	0.0000 g 20.06.19 08:16	✓ B 20.06.19 08:17	0.0191	0.0000			1.0000	06202019CAL.c80 20.06.19 08:16	
- 2	PURGE 6-20-19 AJD	0.0000 g 20.06.19 08:17	✓ B 20.06.19 08:20	0.0005	0.0000			1.0000	06202019CAL.c80 20.06.19 08:16	
- 3	PURGE 6-20-19 AJD	0.0000 g 20.06.19 08:17	✓ B 20.06.19 08:23	0.0004	0.0000			1.0000	06202019CAL.c80 20.06.19 08:16	
1 4	CAL0 221678_11801	0.0253 g 20.06.19 08:33	✓ C 20.06.19 08:36	0.0041	0.0000	0.0000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 5	CAL1 228454_11801	0.0259 g 20.06.19 08:47	✓ C 20.06.19 08:48	0.0985	2.0720	0.0800		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 6	CAL2 228455_11801	0.0258 g 20.06.19 09:00	✓ C 20.06.19 09:01	0.2416	5.1600	0.2000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 7	CAL3 228456_11801	0.0258 g 20.06.19 09:11	✓ C 20.06.19 09:12	0.4630	10.3200	0.4000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 8	CAL4 228457_11801	0.0257 g 20.06.19 09:23	✓ C 20.06.19 09:24	0.6387	15.4200	0.6000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 9	CAL5 228458_11801	0.0262 g 20.06.19 09:36	✓ C 20.06.19 09:36	0.8018	20.9600	0.8000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 10	CAL6 228459_11801	0.0258 g 20.06.19 09:47	✓ C 20.06.19 09:48	0.0437	51.6000	2.0000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
1 11	CAL7 228460_11801	0.0255 g 20.06.19 09:59	✓ C 20.06.19 09:59	0.0882	102.0000	4.0000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
- 12	auto BV (1) 	0.0000 g 20.06.19 10:09	✓ B 20.06.19 10:09	0.1095	2.2235			1.0000	06202019CAL.c80 20.06.19 09:58	
- 13	auto BV (2) 	0.0000 g 20.06.19 10:13	✓ B 20.06.19 10:13	0.0227	0.4465			1.0000	06202019CAL.c80 20.06.19 09:58	
1 14	CAL8 228461_11801	0.0251 g 20.06.19 10:17	✓ C 20.06.19 10:18	0.1249	150.6000	6.0000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
- 15	auto BV (1) 	0.0000 g 20.06.19 10:28	✓ B 20.06.19 10:27	0.1998	4.1588			1.0000	06202019CAL.c80 20.06.19 10:17	
- 16	auto BV (2)	0.0000 g 20.06.19 10:31	✓ B 20.06.19 10:31	0.0494	0.9860			1.0000	06202019CAL.c80 20.06.19 10:17	
- 17	auto BV (3)	0.0000 g 20.06.19 10:35	✓ B 20.06.19 10:34	0.0257	0.5067			1.0000	06202019CAL.c80 20.06.19 10:17	
- 18	auto BV (4) 	0.0000 g 20.06.19 10:38	✓ B 20.06.19 10:38	0.0182	0.3563			1.0000	06202019CAL.c80 20.06.19 10:17	
1 19	CAL9 228462_11801	0.0255 g 20.06.19 10:42	✓ C 20.06.19 10:44	0.1722	204.0000	8.0000		1.0000	<data not saved>	7473 Biota.m80 31.10.11 13:06
- 20	auto BV (1) 	0.0000 g 20.06.19 10:54	✓ B 20.06.19 10:53	0.2755	5.8567			1.0000	06202019CAL.c80 20.06.19 10:42	
- 21	auto BV (2) 	0.0000 g 20.06.19 10:57	✓ B 20.06.19 10:57	0.0724	1.4552			1.0000	06202019CAL.c80 20.06.19 10:42	

## Sample listing "06202019A\_40HG4\_AJD.d80"

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20.06.2019 12:03:50

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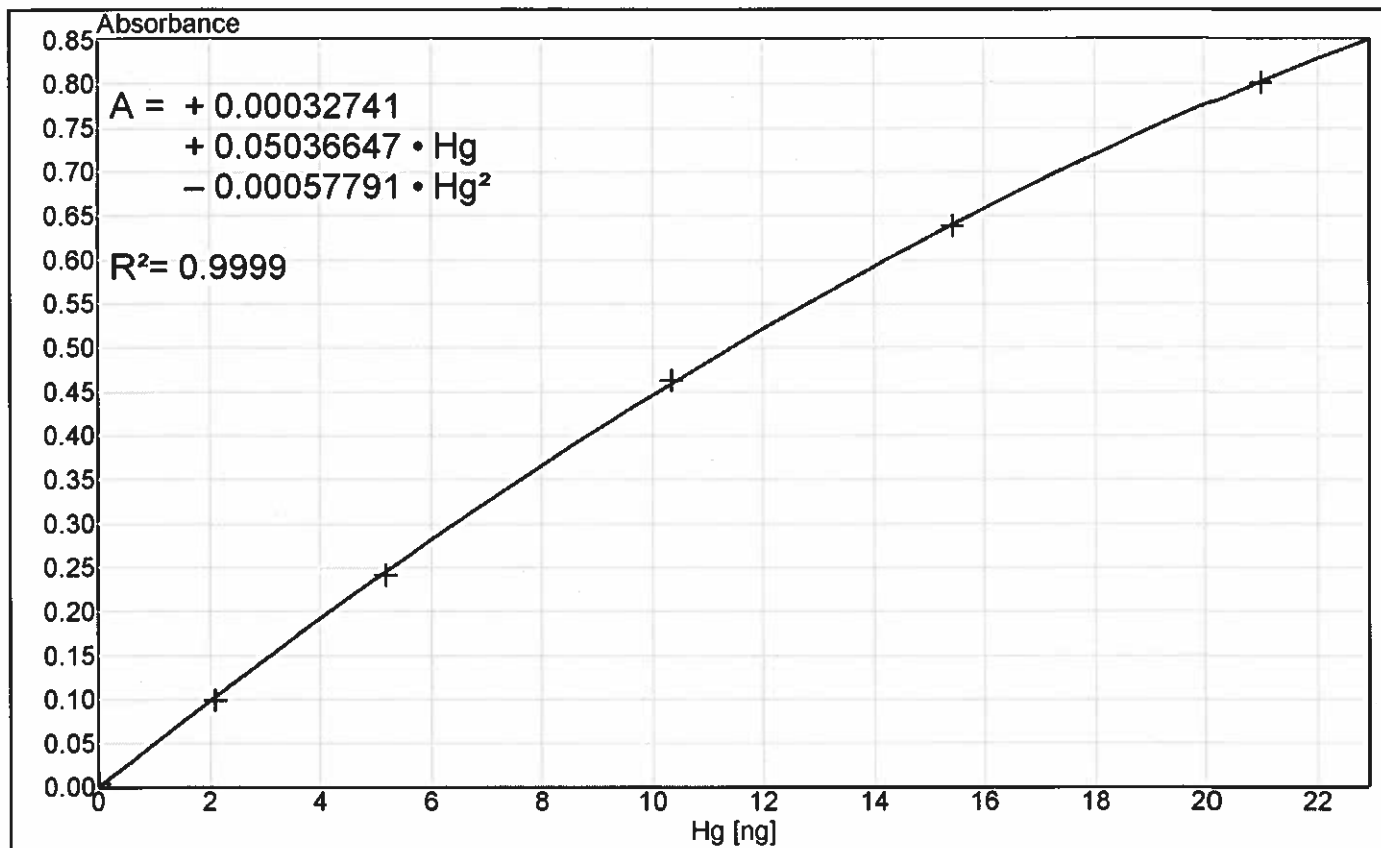
Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
- 22	auto BV (3) $\mu$ L	0.0000 g 20.06.19 11:01	✓ B 20.06.19 11:00	0.0389	0.7720			1.0000	06202019CAL.c80 20.06.19 10:42	
- 23	auto BV (4)	0.0000 g 20.06.19 11:04	✓ B 20.06.19 11:04	0.0280	0.5529			1.0000	06202019CAL.c80 20.06.19 10:42	
- 24	auto BV (5)	0.0000 g 20.06.19 11:08	✓ B 20.06.19 11:07	0.0218	0.4284			1.0000	06202019CAL.c80 20.06.19 10:42	
1 25	CAL10 228463_11801	0.0255 g 20.06.19 11:30	✓ C 20.06.19 11:30	0.2073	255.0000	10.0000		1.0000	<data not saved> 20.06.19 11:40	7473 Biota.m80 31.10.11 13:06
- 26	auto BV (1) $\mu$ L	0.0000 g 20.06.19 11:41	✓ B 20.06.19 11:40	0.3674	8.0267			1.0000	06202019CAL.c80 20.06.19 11:29	
- 27	auto BV (2)	0.0000 g 20.06.19 11:44	✓ B 20.06.19 11:44	0.1035	2.0983			1.0000	06202019CAL.c80 20.06.19 11:29	
- 28	auto BV (3)	0.0000 g 20.06.19 11:48	✓ B 20.06.19 11:47	0.0543	1.0851			1.0000	06202019CAL.c80 20.06.19 11:29	
- 29	auto BV (4)	0.0000 g 20.06.19 11:51	✓ B 20.06.19 11:51	0.0396	0.7868			1.0000	06202019CAL.c80 20.06.19 11:29	
- 30	auto BV (5)	0.0000 g 20.06.19 11:55	✓ B 20.06.19 11:54	0.0305	0.6032			1.0000	06202019CAL.c80 20.06.19 11:29	
- 31	auto BV (6)	0.0000 g 20.06.19 11:58	✓ B 20.06.19 11:58	0.0244	0.4797			1.0000	06202019CAL.c80 20.06.19 11:29	

# Calibration data "06202019CAL.c80"

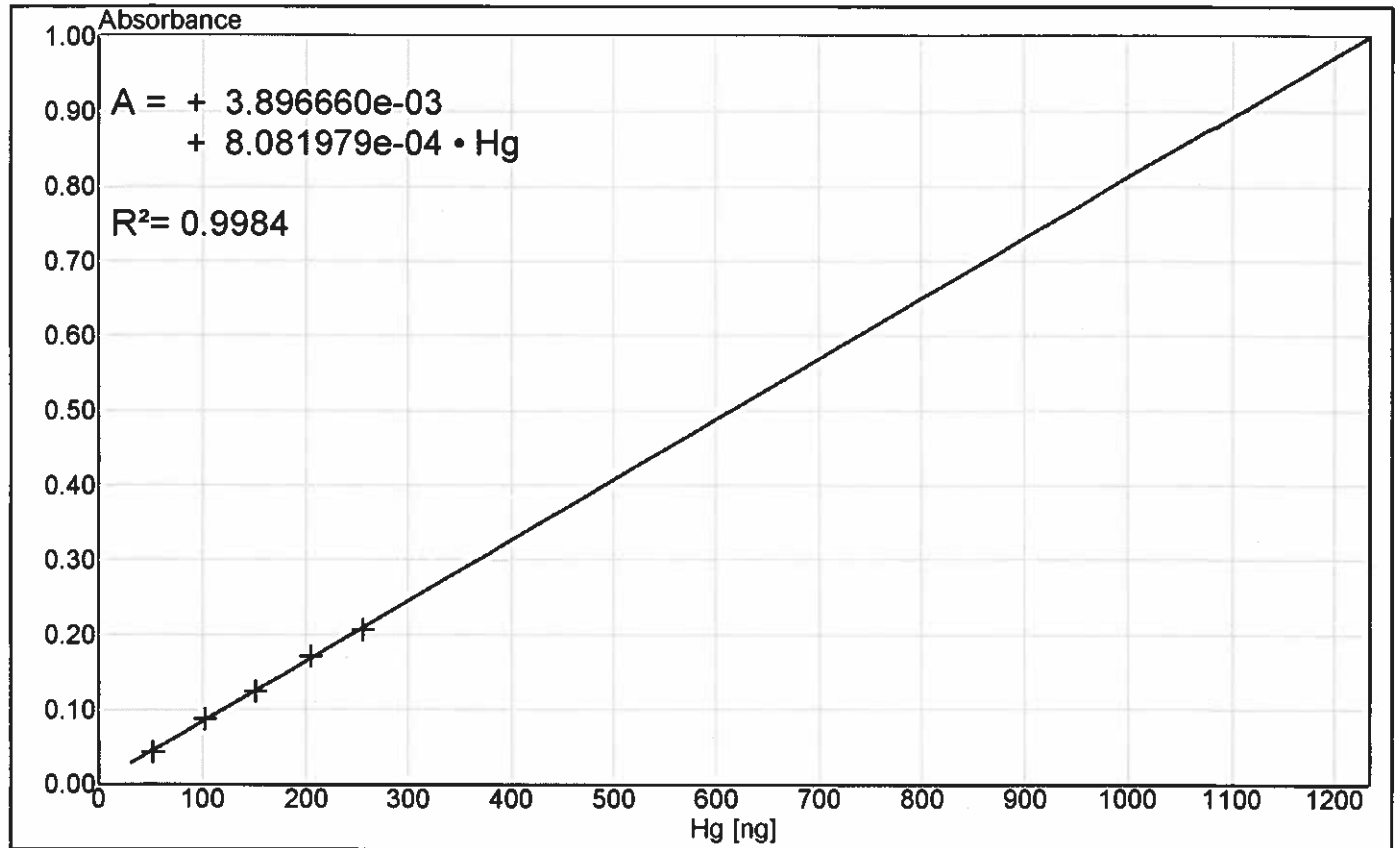
Created by "Administrator" at  
20.06.2019 12:03:04

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Cell 1



Nr.		Hg [ng]	Height ^	Error $\Delta E$ [%]	Date	Remarks
1	✓	0.0000	0.0041	0.0038	20.06.2019 08:45:48	
2	✓	2.0720	0.0985	-0.0037	20.06.2019 08:58:04	
3	✓	5.1600	0.2416	-0.0032	20.06.2019 09:11:15	
4	✓	10.3200	0.4630	0.0044	20.06.2019 09:22:49	
5	✓	15.4200	0.6387	-0.0009	20.06.2019 09:34:18	
6	✓	20.9600	0.8018	-0.0004	20.06.2019 09:46:32	



Nr.		Hg [ng]	Height ^	Error ΔE [%]	Date	Remarks
1	✓	51.6000	0.0437	-0.0019	20.06.2019 09:58:28	
2	✓	102.0000	0.0882	0.0019	20.06.2019 10:09:59	
3	✓	150.6000	0.1249	-0.0007	20.06.2019 10:28:10	
4	✓	204.0000	0.1722	0.0034	20.06.2019 10:54:16	
5	✓	255.0000	0.2073	-0.0027	20.06.2019 11:41:12	

## Sample listing "06242019A\_40HG4\_AJD.d80"

Created by "Administrator"

25.06.2019 09:48:32

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Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
1	PURGE 6-24-19 AJD	0.0000 g 24.06.19 08:43	✓ B 24.06.19 08:43	0.0033	0.0591			1.0000	06202019CAL.c80 20.06.19 12:03	
2	PURGE 6-24-19 AJD	0.0000 g 24.06.19 08:43	✓ B 24.06.19 08:46	0.0033	0.0591			1.0000	06202019CAL.c80 20.06.19 12:03	
3	PURGE 6-24-19 AJD	0.0000 g 24.06.19 08:43	✓ B 24.06.19 08:50	0.0031	0.0551			1.0000	06202019CAL.c80 20.06.19 12:03	
4	ICVB 228668_11808 LOT NR 7473-ICVB EXP 24-JUN-19	1.0252 g 24.06.19 08:58	✓ 24.06.19 08:58	0.3779	8.2838	0.3287		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
5	ICVA 228669_11808 LOT NR 7473-ICVA EXP 24-JUN-19	1.0256 g 24.06.19 09:09	✓ 24.06.19 09:09	0.1100	131.2838	5.1283		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
6	auto BV (1)	0.0000 g 24.06.19 09:20	✓ B 24.06.19 09:19	0.1238	2.5242			1.0000	06202019CAL.c80 20.06.19 12:03	
7	auto BV (2)	0.0000 g 24.06.19 09:23	✓ B 24.06.19 09:23	0.0281	0.5543			1.0000	06202019CAL.c80 20.06.19 12:03	
8	auto BV (3)	0.0000 g 24.06.19 09:27	✓ B 24.06.19 09:26	0.0138	0.2883			1.0000	06202019CAL.c80 20.06.19 12:03	
9	ICB 228670_11808 LOT NR 7473-CBLB EXP 24-JUN-19	0.1000 g 24.06.19 09:30	✓ 24.06.19 09:30	0.0512	1.0220	0.0102		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
10	CRDL 228667_11808 LOT NR 7473-CBL1 EXP 24-JUN-19	0.0254 g 24.06.19 09:43	✓ 24.06.19 09:43	0.1467	3.0098	0.1185		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
11	CRDL 228667_11808 LOT NR 7473-CBL1 EXP 24-JUN-19	0.0256 g 24.06.19 09:54	✓ 24.06.19 09:54	0.1220	2.4861	0.0971		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
12	1889475_11807 202021 <0.02	0.1000 g 24.06.19 10:05	✓ 24.06.19 10:07	0.0545	1.0892	0.0109		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
13	1889476_11807 218069 114%	0.0490 g 24.06.19 10:18	✓ 24.06.19 10:20	0.6006	14.2459	0.2907		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
14	1889477_11807 218069 128% NR	0.0491 g 24.06.19 10:30	✓ 24.06.19 10:31	0.6398	15.4274	0.3142		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
15	1889477_11807 218069 118%	0.0490 g 24.06.19 10:42	✓ 24.06.19 10:43	0.6169	14.7305	0.3006		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
16	40189622001_11807	0.1036 g 24.06.19 10:53	✓ 24.06.19 10:56	0.0108	0.2084	0.0020		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
17	40189622002_11807	0.1025 g 24.06.19 10:53	✓ 24.06.19 11:06	0.0055	0.1028	0.0010		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
18	40189622003_11807	0.1020 g 24.06.19 10:53	✓ 24.06.19 11:17	0.0044	0.0809	0.0008		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
19	40189622004_11807	0.1026 g 24.06.19 10:54	✓ 24.06.19 11:29	0.0044	0.0809	0.0008		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
20	40189622005_11807	0.1024 g 24.06.19 10:54	✓ 24.06.19 11:40	0.0042	0.0770	0.0008		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
21	40189622006_11807	0.1021 g 24.06.19 10:54	✓ 24.06.19 11:52	0.0034	0.0610	0.0006		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06

## Sample listing "06242019A\_40HG4\_AJD.d80"

Created by "Administrator"

25.06.2019 09:48:32

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Pos Nr	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
11	CCVB 218641_11808	0.0275 g 24.06.19 12:04	✓ 24.06.19 12:07	0.4020	8.8789	0.3229		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
12	CCVA 146935_11808	0.0270 g 24.06.19 12:06	✓ 24.06.19 12:17	0.1046	124.6023	4.6149		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
24	auto BV (1)	0.0000 g 24.06.19 12:29	✓ B 24.06.19 12:28	0.0505	1.0078			1.0000	06202019CAL.c80 20.06.19 12:03	
25	auto BV (2)	0.0000 g 24.06.19 12:32	✓ B 24.06.19 12:32	0.0059	0.1108			1.0000	06202019CAL.c80 20.06.19 12:03	
13	CCB 228670_11808	0.1000 g 24.06.19 12:08	✓ 24.06.19 12:35	0.0082	0.1566	0.0016		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
14	1889472_11806	0.1000 g 24.06.19 12:48	✓ 24.06.19 12:49	0.0130	0.2523	0.0025		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
15	1889473_11806	0.0490 g 24.06.19 13:01	✓ 24.06.19 13:02	0.5980	14.1707	0.2892		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
16	1889474_11806	0.0490 g 24.06.19 13:13	✓ 24.06.19 13:14	0.5952	14.0890	0.2875		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
17	40189616001_11806	0.1028 g 24.06.19 13:27	✓ 24.06.19 13:50	0.0092	0.1765	0.0017		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
18	40189616002_11806	0.1026 g 24.06.19 13:27	✓ 24.06.19 13:59	0.0031	0.0551	0.0005		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
19	40189616003_11806	0.1022 g 24.06.19 13:27	✓ 24.06.19 14:10	0.0040	0.0730	0.0007		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
20	40189616004_11806	0.1022 g 24.06.19 13:27	✓ 24.06.19 14:22	0.0042	0.0770	0.0008		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
21	40189618001_11806	0.1029 g 24.06.19 13:30	✓ 24.06.19 14:33	0.0020	0.0332	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
22	40189618002_11806	0.1020 g 24.06.19 13:30	✓ 24.06.19 14:45	0.0028	0.0491	0.0005		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
23	40189618003_11806	0.1026 g 24.06.19 13:30	✓ 24.06.19 14:56	0.0026	0.0451	0.0004		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
24	CCVB 218641_11808	0.0274 g 24.06.19 13:32	✓ 24.06.19 15:08	0.3951	8.7083	0.3178		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
25	CCVA 146935_11808	0.0270 g 24.06.19 13:34	✓ 24.06.19 15:19	0.1044	124.3549	4.6057		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
39	auto BV (1)	0.0000 g 24.06.19 15:32	✓ B 24.06.19 15:31	0.0488	0.9731			1.0000	06202019CAL.c80 20.06.19 12:03	
40	auto BV (2)	0.0000 g 24.06.19 15:35	✓ B 24.06.19 15:34	0.0061	0.1148			1.0000	06202019CAL.c80 20.06.19 12:03	
26	CCB 228670_11808	0.1000 g 24.06.19 13:36	✓ 24.06.19 15:38	0.0079	0.1506	0.0015		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
27	40189618004_11806	0.1021 g 24.06.19 13:36	✓ 24.06.19 15:49	0.0041	0.0750	0.0007		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06

## Sample listing "06242019A\_40HG4\_AJD.d80"

Created by "Administrator"

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Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
28	40189618005_11806	0.1026 g 24.06.19 13:36	✓ 24.06.19 16:00	0.0032	0.0571	0.0006		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
29	40189618006_11806	0.1033 g 24.06.19 13:36	✓ 24.06.19 16:12	0.0029	0.0511	0.0005		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
30	40189618007_11806	0.1026 g 24.06.19 13:36	✓ 24.06.19 16:23	0.0031	0.0551	0.0005		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
31	40189618008_11806	0.1027 g 24.06.19 13:36	✓ 24.06.19 16:35	0.0020	0.0332	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
32	40189620001_11806	0.1026 g 24.06.19 13:39	✓ 24.06.19 16:46	0.0020	0.0332	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
33	40189620002_11806	0.1024 g 24.06.19 13:39	✓ 24.06.19 16:58	0.0019	0.0312	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
34	40189620003_11806	0.1021 g 24.06.19 13:39	✓ 24.06.19 17:09	0.0017	0.0273	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
35	40189620004_11806	0.1020 g 24.06.19 13:40	✓ 24.06.19 17:21	0.0013	0.0193	0.0002		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
36	40189621001_11806	0.1021 g 24.06.19 13:40	✓ 24.06.19 17:32	0.0019	0.0312	0.0003		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
37	CCVB 218641_11808 112%	0.0271 g 24.06.19 13:43	✓ 24.06.19 17:44	0.4010	8.8546	0.3267		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
38	CCVA 146935_11808 110% - auto BV (1)	0.0270 g 24.06.19 13:44	✓ 24.06.19 17:55	0.1049	124.9735	4.6286		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
39	CCB 228670_11808 <0.02 - auto BV (2)	0.0000 g 24.06.19 18:08	✓ 24.06.19 18:06	0.0378	0.7504			1.0000	06202019CAL.c80 20.06.19 12:03	
40	CCB 228670_11808 112%	0.0000 g 24.06.19 18:11	✓ 24.06.19 18:10	0.0045	0.0829			1.0000	06202019CAL.c80 20.06.19 12:03	
1	40189621003_11806	0.1000 g 24.06.19 13:45	✓ 24.06.19 18:13	0.0062	0.1168	0.0012		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
2	CCVB 218641_11808 112%	0.1018 g 24.06.19 13:46	✓ 24.06.19 18:24	0.0038	0.0690	0.0007		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
3	CCVA 146935_11808 114%	0.1020 g 24.06.19 13:46	✓ 24.06.19 18:36	0.0027	0.0471	0.0005		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
4	CCVB 218641_11808 112%	0.0273 g 24.06.19 13:47	✓ 24.06.19 18:47	0.4031	8.9071	0.3263		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
5	CCVA 146935_11808 114%	0.0271 g 24.06.19 13:49	✓ 24.06.19 18:59	0.1093	130.4177	4.8125		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06
6	auto BV (1)	0.0000 g 24.06.19 19:11	✓ 24.06.19 19:10	0.0381	0.7565			1.0000	06202019CAL.c80 20.06.19 12:03	
7	auto BV (2)	0.0000 g 24.06.19 19:15	✓ 24.06.19 19:14	0.0045	0.0829			1.0000	06202019CAL.c80 20.06.19 12:03	
8	CCB 228670_11808 <0.02	0.1000 g 24.06.19 13:50	✓ 24.06.19 19:17	0.0067	0.1267	0.0013		1.0000	06202019CAL.c80 20.06.19 12:03	7473 Biota.m80 31.10.11 13:06



