



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40194809

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InOrganic

ICPMS

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October 24, 2019

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

RE: Project: 0777010 CUMBERLAND FOSSIL PLAN
Pace Project No.: 40194809

Dear Tyler Baker:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2019 and September 25, 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: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

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: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40194809001	CUF-FH-CC-CURD-F-20190430	Tissue	04/30/19 15:00	09/10/19 10:45
40194809002	CUF-FH-CC-CURU-F-20190507	Tissue	05/07/19 11:35	09/10/19 10:45
40194809003	CUF-FH-CC-WCD-F-20190501	Tissue	05/01/19 10:50	09/10/19 10:45
40194809004	CUF-FH-CC-WCU-F-20190508	Tissue	05/08/19 10:50	09/10/19 10:45
40194809005	CUF-FH-CC-F-DUP01-20190430	Tissue	04/30/19 00:00	09/10/19 10:45
40194809006	CUF-FH-CC-CURA-O-20190520	Tissue	05/20/19 16:25	09/10/19 10:45
40194809007	CUF-FH-CC-CURD-O-20190430	Tissue	04/30/19 15:00	09/10/19 10:45
40194809008	CUF-FH-CC-CURU-O-20190507	Tissue	05/07/19 11:35	09/10/19 10:45
40194809009	CUF-FH-CC-WCD-O-20190501	Tissue	05/01/19 10:50	09/10/19 10:45
40194809010	CUF-FH-CC-WCU-O-20190508	Tissue	05/08/19 10:50	09/10/19 10:45
40194809011	CUF-FH-CC-O-DUP01-20190430	Tissue	04/30/19 00:00	09/10/19 10:45
40194809012	CUF-FH-CC-CURA-L-20190520	Tissue	05/20/19 16:25	09/10/19 10:45
40194809013	CUF-FH-CC-CURD-L-20190430	Tissue	04/30/19 15:00	09/10/19 10:45
40194809014	CUF-FH-CC-CURU-L-20190507	Tissue	05/07/19 11:35	09/10/19 10:45
40194809015	CUF-FH-CC-WCD-L-20190501	Tissue	05/01/19 10:50	09/10/19 10:45
40194809016	CUF-FH-CC-WCU-L-20190508	Tissue	05/08/19 10:50	09/10/19 10:45
40194809017	CUF-FH-CC-L-DUP01-20190430	Tissue	04/30/19 00:00	09/10/19 10:45
40194809018	CUF-FH-RS-CURA-F-20190429	Tissue	04/29/19 16:50	09/10/19 10:45
40194809019	CUF-FH-RS-CURD-F-20190429	Tissue	04/29/19 18:15	09/10/19 10:45
40194809020	CUF-FH-RS-CURU-F-20190429	Tissue	04/29/19 15:30	09/10/19 10:45
40194809021	RINSE BLANK 40194809-021-B	Tissue	09/25/19 00:00	09/25/19 00:00

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SAMPLE ANALYTE COUNT

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40194809001	CUF-FH-CC-CURD-F-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809002	CUF-FH-CC-CURU-F-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809003	CUF-FH-CC-WCD-F-20190501	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809004	CUF-FH-CC-WCU-F-20190508	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809005	CUF-FH-CC-F-DUP01-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809006	CUF-FH-CC-CURA-O-20190520	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809007	CUF-FH-CC-CURD-O-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809008	CUF-FH-CC-CURU-O-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809009	CUF-FH-CC-WCD-O-20190501	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809010	CUF-FH-CC-WCU-O-20190508	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809011	CUF-FH-CC-O-DUP01-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809012	CUF-FH-CC-CURA-L-20190520	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40194809013	CUF-FH-CC-CURD-L-20190430	EPA 6020	DS1	20

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SAMPLE ANALYTE COUNT

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40194809014	CUF-FH-CC-CURU-L-20190507	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809015	CUF-FH-CC-WCD-L-20190501	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809016	CUF-FH-CC-WCU-L-20190508	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809017	CUF-FH-CC-L-DUP01-20190430	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809018	CUF-FH-RS-CURA-F-20190429	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809019	CUF-FH-RS-CURD-F-20190429	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809020	CUF-FH-RS-CURU-F-20190429	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40194809021	RINSE BLANK 40194809-021-B	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20

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PROJECT NARRATIVE

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Method: EPA 6020

Description: 6020 MET ICPMS

Client: TENNESSEE VALLEY AUTHORITY

Date: October 24, 2019

General Information:

21 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.

QC Batch: 336121

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40194816001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1951524)
 - Strontium
- MSD (Lab ID: 1951525)
 - Strontium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Method: EPA 7473

Description: 7473 Mercury, Tissue

Client: TENNESSEE VALLEY AUTHORITY

Date: October 24, 2019

General Information:

21 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.

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.

QC Batch: 336171

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40194809001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1951918)
 - Mercury
- MSD (Lab ID: 1951919)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Method: ASTM D2974-87

Description: Percent Moisture Reportable

Client: TENNESSEE VALLEY AUTHORITY

Date: October 24, 2019

General Information:

20 samples were analyzed for ASTM D2974-87. 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.

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.

Surrogates:

All surrogates 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURD-F-20190430 **Lab ID:** 40194809001 **Collected:** 04/30/19 15:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	09/27/19 06:52	10/03/19 16:10	7440-36-0	
Arsenic	0.044J	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 16:10	7440-38-2	
Barium	<0.030	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 16:10	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 16:10	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	09/27/19 06:52	10/03/19 16:10	7440-42-8	
Cadmium	0.027J	mg/kg	0.099	0.011	1	09/27/19 06:52	10/03/19 16:10	7440-43-9	
Calcium	66.6J	mg/kg	84.1	25.2	1	09/27/19 06:52	10/03/19 16:10	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	09/27/19 06:52	10/03/19 16:10	7440-47-3	
Cobalt	<0.019	mg/kg	0.099	0.019	1	09/27/19 06:52	10/03/19 16:10	7440-48-4	
Copper	0.54J	mg/kg	0.94	0.28	1	09/27/19 06:52	10/03/19 16:10	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 16:10	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	09/27/19 06:52	10/03/19 16:10	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	09/27/19 06:52	10/03/19 16:10	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	09/27/19 06:52	10/03/19 16:10	7440-02-0	
Selenium	0.18	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 16:10	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	09/27/19 06:52	10/03/19 16:10	7440-22-4	L5
Strontium	<0.16	mg/kg	0.54	0.16	1	09/27/19 06:52	10/03/19 16:10	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	09/27/19 06:52	10/03/19 16:10	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 16:10	7440-62-2	
Zinc	5.7	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 16:10	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.046	mg/kg	0.025	0.0074	1		10/03/19 13:50	7439-97-6	M0
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.9	%	0.10	0.10	1		09/25/19 13:29		

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Date: 10/24/2019 10:53 AM

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURU-F-20190507 **Lab ID:** 40194809002 **Collected:** 05/07/19 11:35 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 16:38	7440-36-0	
Arsenic	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 16:38	7440-38-2	
Barium	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 16:38	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 16:38	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	09/27/19 06:52	10/03/19 16:38	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	09/27/19 06:52	10/03/19 16:38	7440-43-9	
Calcium	99.7	mg/kg	82.9	24.9	1	09/27/19 06:52	10/03/19 16:38	7440-70-2	
Chromium	<0.087	mg/kg	0.28	0.087	1	09/27/19 06:52	10/03/19 16:38	7440-47-3	
Cobalt	<0.019	mg/kg	0.098	0.019	1	09/27/19 06:52	10/03/19 16:38	7440-48-4	
Copper	0.39J	mg/kg	0.93	0.28	1	09/27/19 06:52	10/03/19 16:38	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	09/27/19 06:52	10/03/19 16:38	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 16:38	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 16:38	7439-98-7	
Nickel	0.087J	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 16:38	7440-02-0	
Selenium	0.17	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 16:38	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	09/27/19 06:52	10/03/19 16:38	7440-22-4	L5
Strontium	<0.16	mg/kg	0.53	0.16	1	09/27/19 06:52	10/03/19 16:38	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	09/27/19 06:52	10/03/19 16:38	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 16:38	7440-62-2	
Zinc	5.7	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 16:38	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.11	mg/kg	0.025	0.0075	1		10/03/19 14:22	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	79.6	%	0.10	0.10	1		09/25/19 13:29		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCD-F-20190501 **Lab ID:** 40194809003 **Collected:** 05/01/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:07	7440-36-0	
Arsenic	0.032J	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:07	7440-38-2	
Barium	<0.029	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:07	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:07	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 17:07	7440-42-8	
Cadmium	<0.010	mg/kg	0.095	0.010	1	09/27/19 06:52	10/03/19 17:07	7440-43-9	
Calcium	91.4	mg/kg	80.2	24.1	1	09/27/19 06:52	10/03/19 17:07	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	09/27/19 06:52	10/03/19 17:07	7440-47-3	
Cobalt	<0.018	mg/kg	0.095	0.018	1	09/27/19 06:52	10/03/19 17:07	7440-48-4	
Copper	<0.27	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 17:07	7440-50-8	
Lead	<0.028	mg/kg	0.095	0.028	1	09/27/19 06:52	10/03/19 17:07	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:07	7439-93-2	
Molybdenum	<0.034	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 17:07	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 17:07	7440-02-0	
Selenium	0.26	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 17:07	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	09/27/19 06:52	10/03/19 17:07	7440-22-4	L5
Strontium	<0.15	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 17:07	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	09/27/19 06:52	10/03/19 17:07	7440-28-0	
Vanadium	<0.032	mg/kg	0.10	0.032	1	09/27/19 06:52	10/03/19 17:07	7440-62-2	
Zinc	5.4	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 17:07	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.11	mg/kg	0.024	0.0071	1		10/03/19 14:34	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.4	%	0.10	0.10	1		09/25/19 13:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCU-F-20190508 **Lab ID:** 40194809004 **Collected:** 05/08/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.10	0.021	1	09/27/19 06:52	10/03/19 17:14	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	09/27/19 06:52	10/03/19 17:14	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:14	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:14	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	09/27/19 06:52	10/03/19 17:14	7440-42-8	
Cadmium	<0.011	mg/kg	0.10	0.011	1	09/27/19 06:52	10/03/19 17:14	7440-43-9	
Calcium	74.4J	mg/kg	84.4	25.3	1	09/27/19 06:52	10/03/19 17:14	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	09/27/19 06:52	10/03/19 17:14	7440-47-3	
Cobalt	<0.019	mg/kg	0.10	0.019	1	09/27/19 06:52	10/03/19 17:14	7440-48-4	
Copper	<0.28	mg/kg	0.95	0.28	1	09/27/19 06:52	10/03/19 17:14	7440-50-8	
Lead	<0.030	mg/kg	0.10	0.030	1	09/27/19 06:52	10/03/19 17:14	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	09/27/19 06:52	10/03/19 17:14	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	09/27/19 06:52	10/03/19 17:14	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	09/27/19 06:52	10/03/19 17:14	7440-02-0	
Selenium	0.21	mg/kg	0.17	0.051	1	09/27/19 06:52	10/03/19 17:14	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	09/27/19 06:52	10/03/19 17:14	7440-22-4	L5
Strontium	<0.16	mg/kg	0.54	0.16	1	09/27/19 06:52	10/03/19 17:14	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	09/27/19 06:52	10/03/19 17:14	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:14	7440-62-2	
Zinc	5.8	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 17:14	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.11	mg/kg	0.024	0.0071	1		10/03/19 14:45	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	80.0	%	0.10	0.10	1		09/25/19 13:30		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-F-DUP01-20190430 **Lab ID:** 40194809005 **Collected:** 04/30/19 00:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:21	7440-36-0	
Arsenic	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:21	7440-38-2	
Barium	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:21	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 17:21	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	09/27/19 06:52	10/03/19 17:21	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	09/27/19 06:52	10/03/19 17:21	7440-43-9	
Calcium	145	mg/kg	82.9	24.9	1	09/27/19 06:52	10/03/19 17:21	7440-70-2	
Chromium	<0.087	mg/kg	0.28	0.087	1	09/27/19 06:52	10/03/19 17:21	7440-47-3	
Cobalt	<0.019	mg/kg	0.098	0.019	1	09/27/19 06:52	10/03/19 17:21	7440-48-4	
Copper	<0.28	mg/kg	0.93	0.28	1	09/27/19 06:52	10/03/19 17:21	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	09/27/19 06:52	10/03/19 17:21	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:21	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 17:21	7439-98-7	
Nickel	0.048J	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 17:21	7440-02-0	
Selenium	0.17J	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 17:21	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	09/27/19 06:52	10/03/19 17:21	7440-22-4	L5
Strontium	<0.16	mg/kg	0.53	0.16	1	09/27/19 06:52	10/03/19 17:21	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	09/27/19 06:52	10/03/19 17:21	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:21	7440-62-2	
Zinc	6.2	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 17:21	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.12	mg/kg	0.025	0.0075	1		10/03/19 14:57	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.5	%	0.10	0.10	1		09/25/19 13:30		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURA-O-20190520 **Lab ID:** 40194809006 **Collected:** 05/20/19 16:25 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.093	0.020	1	09/27/19 06:52	10/03/19 17:29	7440-36-0	
Arsenic	<0.028	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 17:29	7440-38-2	
Barium	0.16	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 17:29	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:29	7440-41-7	
Boron	<0.65	mg/kg	2.2	0.65	1	09/27/19 06:52	10/03/19 17:29	7440-42-8	
Cadmium	<0.010	mg/kg	0.093	0.010	1	09/27/19 06:52	10/03/19 17:29	7440-43-9	
Calcium	879	mg/kg	78.6	23.6	1	09/27/19 06:52	10/03/19 17:29	7440-70-2	
Chromium	<0.082	mg/kg	0.27	0.082	1	09/27/19 06:52	10/03/19 17:29	7440-47-3	
Cobalt	0.023J	mg/kg	0.093	0.018	1	09/27/19 06:52	10/03/19 17:29	7440-48-4	
Copper	1.2	mg/kg	0.88	0.26	1	09/27/19 06:52	10/03/19 17:29	7440-50-8	
Lead	<0.028	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 17:29	7439-92-1	
Lithium	<0.020	mg/kg	0.093	0.020	1	09/27/19 06:52	10/03/19 17:29	7439-93-2	
Molybdenum	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:29	7439-98-7	
Nickel	<0.038	mg/kg	0.13	0.038	1	09/27/19 06:52	10/03/19 17:29	7440-02-0	
Selenium	1.1	mg/kg	0.16	0.047	1	09/27/19 06:52	10/03/19 17:29	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	09/27/19 06:52	10/03/19 17:29	7440-22-4	L5
Strontium	0.99	mg/kg	0.50	0.15	1	09/27/19 06:52	10/03/19 17:29	7440-24-6	
Thallium	<0.012	mg/kg	0.093	0.012	1	09/27/19 06:52	10/03/19 17:29	7440-28-0	
Vanadium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:29	7440-62-2	
Zinc	39.4	mg/kg	4.3	1.3	1	09/27/19 06:52	10/03/19 17:29	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	<0.0075	mg/kg	0.025	0.0075	1		10/03/19 15:08	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	59.0	%	0.10	0.10	1		09/25/19 13:30		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURD-O-20190430 **Lab ID:** 40194809007 **Collected:** 04/30/19 15:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:36	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:36	7440-38-2	
Barium	0.20	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:36	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:36	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 17:36	7440-42-8	
Cadmium	<0.010	mg/kg	0.095	0.010	1	09/27/19 06:52	10/03/19 17:36	7440-43-9	
Calcium	936	mg/kg	80.2	24.1	1	09/27/19 06:52	10/03/19 17:36	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	09/27/19 06:52	10/03/19 17:36	7440-47-3	
Cobalt	0.031J	mg/kg	0.095	0.018	1	09/27/19 06:52	10/03/19 17:36	7440-48-4	
Copper	1.2	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 17:36	7440-50-8	
Lead	<0.028	mg/kg	0.095	0.028	1	09/27/19 06:52	10/03/19 17:36	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:36	7439-93-2	
Molybdenum	<0.034	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 17:36	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 17:36	7440-02-0	
Selenium	1.1	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 17:36	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	09/27/19 06:52	10/03/19 17:36	7440-22-4	L5
Strontium	1.1	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 17:36	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	09/27/19 06:52	10/03/19 17:36	7440-28-0	
Vanadium	<0.032	mg/kg	0.10	0.032	1	09/27/19 06:52	10/03/19 17:36	7440-62-2	
Zinc	38.3	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 17:36	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	<0.0073	mg/kg	0.024	0.0073	1		10/03/19 15:57	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	58.3	%	0.10	0.10	1		09/25/19 13:30		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURU-O-20190507 **Lab ID:** 40194809008 **Collected:** 05/07/19 11:35 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:43	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:43	7440-38-2	
Barium	0.18	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 17:43	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 17:43	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 17:43	7440-42-8	
Cadmium	<0.010	mg/kg	0.095	0.010	1	09/27/19 06:52	10/03/19 17:43	7440-43-9	
Calcium	832	mg/kg	80.2	24.1	1	09/27/19 06:52	10/03/19 17:43	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	09/27/19 06:52	10/03/19 17:43	7440-47-3	
Cobalt	0.022J	mg/kg	0.095	0.018	1	09/27/19 06:52	10/03/19 17:43	7440-48-4	
Copper	1.2	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 17:43	7440-50-8	
Lead	<0.028	mg/kg	0.095	0.028	1	09/27/19 06:52	10/03/19 17:43	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 17:43	7439-93-2	
Molybdenum	<0.034	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 17:43	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 17:43	7440-02-0	
Selenium	1.1	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 17:43	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	09/27/19 06:52	10/03/19 17:43	7440-22-4	L5
Strontium	1.0	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 17:43	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	09/27/19 06:52	10/03/19 17:43	7440-28-0	
Vanadium	<0.032	mg/kg	0.10	0.032	1	09/27/19 06:52	10/03/19 17:43	7440-62-2	
Zinc	36.7	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 17:43	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	<0.0072	mg/kg	0.024	0.0072	1		10/03/19 16:08	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	57.1	%	0.10	0.10	1		09/25/19 13:30		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCD-O-20190501 **Lab ID:** 40194809009 **Collected:** 05/01/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:50	7440-36-0	
Arsenic	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:50	7440-38-2	
Barium	0.25	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:50	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 17:50	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	09/27/19 06:52	10/03/19 17:50	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	09/27/19 06:52	10/03/19 17:50	7440-43-9	
Calcium	883	mg/kg	82.9	24.9	1	09/27/19 06:52	10/03/19 17:50	7440-70-2	
Chromium	<0.087	mg/kg	0.28	0.087	1	09/27/19 06:52	10/03/19 17:50	7440-47-3	
Cobalt	0.022J	mg/kg	0.098	0.019	1	09/27/19 06:52	10/03/19 17:50	7440-48-4	
Copper	6.4	mg/kg	0.93	0.28	1	09/27/19 06:52	10/03/19 17:50	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	09/27/19 06:52	10/03/19 17:50	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:50	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 17:50	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 17:50	7440-02-0	
Selenium	1.4	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 17:50	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	09/27/19 06:52	10/03/19 17:50	7440-22-4	L5
Strontium	1.1	mg/kg	0.53	0.16	1	09/27/19 06:52	10/03/19 17:50	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	09/27/19 06:52	10/03/19 17:50	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:50	7440-62-2	
Zinc	46.1	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 17:50	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	<0.0074	mg/kg	0.025	0.0074	1		10/03/19 16:20	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	59.0	%	0.10	0.10	1		09/25/19 13:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCU-O-20190508 **Lab ID:** 40194809010 **Collected:** 05/08/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:57	7440-36-0	
Arsenic	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:57	7440-38-2	
Barium	0.18	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:57	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:57	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	09/27/19 06:52	10/03/19 17:57	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	09/27/19 06:52	10/03/19 17:57	7440-43-9	
Calcium	916	mg/kg	83.3	25.0	1	09/27/19 06:52	10/03/19 17:57	7440-70-2	
Chromium	<0.087	mg/kg	0.29	0.087	1	09/27/19 06:52	10/03/19 17:57	7440-47-3	
Cobalt	0.061J	mg/kg	0.098	0.019	1	09/27/19 06:52	10/03/19 17:57	7440-48-4	
Copper	1.2	mg/kg	0.94	0.28	1	09/27/19 06:52	10/03/19 17:57	7440-50-8	
Lead	<0.030	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 17:57	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 17:57	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 17:57	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 17:57	7440-02-0	
Selenium	1.6	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 17:57	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	09/27/19 06:52	10/03/19 17:57	7440-22-4	L5
Strontium	1.2	mg/kg	0.53	0.16	1	09/27/19 06:52	10/03/19 17:57	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	09/27/19 06:52	10/03/19 17:57	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 17:57	7440-62-2	
Zinc	39.5	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 17:57	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	<0.0072	mg/kg	0.024	0.0072	1		10/03/19 16:31	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	59.8	%	0.10	0.10	1		09/25/19 13:31		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-O-DUP01-20190430 **Lab ID:** 40194809011 **Collected:** 04/30/19 00:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	09/27/19 06:52	10/03/19 18:04	7440-36-0	
Arsenic	<0.030	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 18:04	7440-38-2	
Barium	0.17	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 18:04	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 18:04	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	09/27/19 06:52	10/03/19 18:04	7440-42-8	
Cadmium	<0.011	mg/kg	0.099	0.011	1	09/27/19 06:52	10/03/19 18:04	7440-43-9	
Calcium	899	mg/kg	84.0	25.2	1	09/27/19 06:52	10/03/19 18:04	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	09/27/19 06:52	10/03/19 18:04	7440-47-3	
Cobalt	<0.019	mg/kg	0.099	0.019	1	09/27/19 06:52	10/03/19 18:04	7440-48-4	
Copper	1.2	mg/kg	0.94	0.28	1	09/27/19 06:52	10/03/19 18:04	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	09/27/19 06:52	10/03/19 18:04	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	09/27/19 06:52	10/03/19 18:04	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	09/27/19 06:52	10/03/19 18:04	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	09/27/19 06:52	10/03/19 18:04	7440-02-0	
Selenium	1.0	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 18:04	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	09/27/19 06:52	10/03/19 18:04	7440-22-4	L5
Strontium	1.1	mg/kg	0.54	0.16	1	09/27/19 06:52	10/03/19 18:04	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	09/27/19 06:52	10/03/19 18:04	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 18:04	7440-62-2	
Zinc	38.7	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 18:04	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	<0.0074	mg/kg	0.025	0.0074	1		10/03/19 16:43	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	59.1	%	0.10	0.10	1		09/25/19 13:31		

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Date: 10/24/2019 10:53 AM

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURA-L-20190520 **Lab ID:** 40194809012 **Collected:** 05/20/19 16:25 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.097	0.020	1	09/27/19 06:52	10/03/19 18:26	7440-36-0	
Arsenic	<0.029	mg/kg	0.097	0.029	1	09/27/19 06:52	10/03/19 18:26	7440-38-2	
Barium	<0.030	mg/kg	0.097	0.030	1	09/27/19 06:52	10/03/19 18:26	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 18:26	7440-41-7	
Boron	<0.67	mg/kg	2.3	0.67	1	09/27/19 06:52	10/03/19 18:26	7440-42-8	
Cadmium	0.24	mg/kg	0.097	0.011	1	09/27/19 06:52	10/03/19 18:26	7440-43-9	
Calcium	62.6J	mg/kg	81.9	24.6	1	09/27/19 06:52	10/03/19 18:26	7440-70-2	
Chromium	<0.086	mg/kg	0.28	0.086	1	09/27/19 06:52	10/03/19 18:26	7440-47-3	
Cobalt	0.035J	mg/kg	0.097	0.018	1	09/27/19 06:52	10/03/19 18:26	7440-48-4	
Copper	1.9	mg/kg	0.92	0.28	1	09/27/19 06:52	10/03/19 18:26	7440-50-8	
Lead	0.042J	mg/kg	0.097	0.029	1	09/27/19 06:52	10/03/19 18:26	7439-92-1	
Lithium	<0.021	mg/kg	0.097	0.021	1	09/27/19 06:52	10/03/19 18:26	7439-93-2	
Molybdenum	0.17	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 18:26	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 18:26	7440-02-0	
Selenium	0.97	mg/kg	0.16	0.049	1	09/27/19 06:52	10/03/19 18:26	7782-49-2	
Silver	<0.011	mg/kg	0.048	0.011	1	09/27/19 06:52	10/03/19 18:26	7440-22-4	L5
Strontium	<0.16	mg/kg	0.52	0.16	1	09/27/19 06:52	10/03/19 18:26	7440-24-6	
Thallium	<0.013	mg/kg	0.097	0.013	1	09/27/19 06:52	10/03/19 18:26	7440-28-0	
Vanadium	0.56	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 18:26	7440-62-2	
Zinc	22.4	mg/kg	4.5	1.4	1	09/27/19 06:52	10/03/19 18:26	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.18	mg/kg	0.025	0.0074	1		10/03/19 16:54	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.7	%	0.10	0.10	1		09/25/19 13:31		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURD-L-20190430 **Lab ID:** 40194809013 **Collected:** 04/30/19 15:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.019	mg/kg	0.093	0.019	1	09/27/19 06:52	10/03/19 18:33	7440-36-0	
Arsenic	<0.028	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 18:33	7440-38-2	
Barium	<0.028	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 18:33	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:33	7440-41-7	
Boron	<0.65	mg/kg	2.2	0.65	1	09/27/19 06:52	10/03/19 18:33	7440-42-8	
Cadmium	0.29	mg/kg	0.093	0.010	1	09/27/19 06:52	10/03/19 18:33	7440-43-9	
Calcium	52.6J	mg/kg	78.4	23.5	1	09/27/19 06:52	10/03/19 18:33	7440-70-2	
Chromium	<0.082	mg/kg	0.27	0.082	1	09/27/19 06:52	10/03/19 18:33	7440-47-3	
Cobalt	0.069J	mg/kg	0.093	0.018	1	09/27/19 06:52	10/03/19 18:33	7440-48-4	
Copper	1.8	mg/kg	0.88	0.26	1	09/27/19 06:52	10/03/19 18:33	7440-50-8	
Lead	0.056J	mg/kg	0.093	0.028	1	09/27/19 06:52	10/03/19 18:33	7439-92-1	
Lithium	<0.020	mg/kg	0.093	0.020	1	09/27/19 06:52	10/03/19 18:33	7439-93-2	
Molybdenum	0.22	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 18:33	7439-98-7	
Nickel	<0.038	mg/kg	0.13	0.038	1	09/27/19 06:52	10/03/19 18:33	7440-02-0	
Selenium	1.2	mg/kg	0.16	0.047	1	09/27/19 06:52	10/03/19 18:33	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	09/27/19 06:52	10/03/19 18:33	7440-22-4	L5
Strontium	<0.15	mg/kg	0.50	0.15	1	09/27/19 06:52	10/03/19 18:33	7440-24-6	
Thallium	<0.012	mg/kg	0.093	0.012	1	09/27/19 06:52	10/03/19 18:33	7440-28-0	
Vanadium	0.66	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:33	7440-62-2	
Zinc	20.7	mg/kg	4.3	1.3	1	09/27/19 06:52	10/03/19 18:33	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.30	mg/kg	0.024	0.0071	1		10/03/19 17:06	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	81.0	%	0.10	0.10	1		09/25/19 13:31		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-CURU-L-20190507 **Lab ID:** 40194809014 **Collected:** 05/07/19 11:35 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.019	mg/kg	0.092	0.019	1	09/27/19 06:52	10/03/19 18:40	7440-36-0	
Arsenic	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 18:40	7440-38-2	
Barium	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 18:40	7440-39-3	
Beryllium	<0.030	mg/kg	0.10	0.030	1	09/27/19 06:52	10/03/19 18:40	7440-41-7	
Boron	<0.64	mg/kg	2.1	0.64	1	09/27/19 06:52	10/03/19 18:40	7440-42-8	
Cadmium	0.35	mg/kg	0.092	0.010	1	09/27/19 06:52	10/03/19 18:40	7440-43-9	
Calcium	47.0J	mg/kg	77.6	23.3	1	09/27/19 06:52	10/03/19 18:40	7440-70-2	
Chromium	<0.081	mg/kg	0.27	0.081	1	09/27/19 06:52	10/03/19 18:40	7440-47-3	
Cobalt	0.053J	mg/kg	0.092	0.017	1	09/27/19 06:52	10/03/19 18:40	7440-48-4	
Copper	2.6	mg/kg	0.87	0.26	1	09/27/19 06:52	10/03/19 18:40	7440-50-8	
Lead	0.053J	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 18:40	7439-92-1	
Lithium	<0.019	mg/kg	0.092	0.019	1	09/27/19 06:52	10/03/19 18:40	7439-93-2	
Molybdenum	0.15	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 18:40	7439-98-7	
Nickel	<0.038	mg/kg	0.13	0.038	1	09/27/19 06:52	10/03/19 18:40	7440-02-0	
Selenium	1.1	mg/kg	0.16	0.046	1	09/27/19 06:52	10/03/19 18:40	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	09/27/19 06:52	10/03/19 18:40	7440-22-4	L5
Strontium	<0.15	mg/kg	0.50	0.15	1	09/27/19 06:52	10/03/19 18:40	7440-24-6	
Thallium	<0.012	mg/kg	0.092	0.012	1	09/27/19 06:52	10/03/19 18:40	7440-28-0	
Vanadium	0.54	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:40	7440-62-2	
Zinc	22.6	mg/kg	4.3	1.3	1	09/27/19 06:52	10/03/19 18:40	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.19	mg/kg	0.025	0.0074	1		10/03/19 17:17	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.8	%	0.10	0.10	1		09/25/19 13:32		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCD-L-20190501 **Lab ID:** 40194809015 **Collected:** 05/01/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 18:47	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 18:47	7440-38-2	
Barium	<0.029	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 18:47	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:47	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 18:47	7440-42-8	
Cadmium	0.45	mg/kg	0.095	0.010	1	09/27/19 06:52	10/03/19 18:47	7440-43-9	
Calcium	61.6J	mg/kg	80.5	24.1	1	09/27/19 06:52	10/03/19 18:47	7440-70-2	
Chromium	<0.084	mg/kg	0.28	0.084	1	09/27/19 06:52	10/03/19 18:47	7440-47-3	
Cobalt	0.058J	mg/kg	0.095	0.018	1	09/27/19 06:52	10/03/19 18:47	7440-48-4	
Copper	2.2	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 18:47	7440-50-8	
Lead	0.067J	mg/kg	0.095	0.029	1	09/27/19 06:52	10/03/19 18:47	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	09/27/19 06:52	10/03/19 18:47	7439-93-2	
Molybdenum	0.17	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 18:47	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 18:47	7440-02-0	
Selenium	1.6	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 18:47	7782-49-2	
Silver	<0.011	mg/kg	0.048	0.011	1	09/27/19 06:52	10/03/19 18:47	7440-22-4	L5
Strontium	<0.15	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 18:47	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	09/27/19 06:52	10/03/19 18:47	7440-28-0	
Vanadium	0.54	mg/kg	0.10	0.032	1	09/27/19 06:52	10/03/19 18:47	7440-62-2	
Zinc	24.5	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 18:47	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.19	mg/kg	0.024	0.0072	1		10/03/19 17:28	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.5	%	0.10	0.10	1		09/25/19 13:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-WCU-L-20190508 **Lab ID:** 40194809016 **Collected:** 05/08/19 10:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.094	0.020	1	09/27/19 06:52	10/03/19 18:54	7440-36-0	
Arsenic	<0.029	mg/kg	0.094	0.029	1	09/27/19 06:52	10/03/19 18:54	7440-38-2	
Barium	<0.029	mg/kg	0.094	0.029	1	09/27/19 06:52	10/03/19 18:54	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:54	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 18:54	7440-42-8	
Cadmium	0.45	mg/kg	0.094	0.010	1	09/27/19 06:52	10/03/19 18:54	7440-43-9	
Calcium	47.2J	mg/kg	79.9	24.0	1	09/27/19 06:52	10/03/19 18:54	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	09/27/19 06:52	10/03/19 18:54	7440-47-3	
Cobalt	0.089J	mg/kg	0.094	0.018	1	09/27/19 06:52	10/03/19 18:54	7440-48-4	
Copper	2.0	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 18:54	7440-50-8	
Lead	0.062J	mg/kg	0.094	0.028	1	09/27/19 06:52	10/03/19 18:54	7439-92-1	
Lithium	<0.020	mg/kg	0.094	0.020	1	09/27/19 06:52	10/03/19 18:54	7439-93-2	
Molybdenum	0.17	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 18:54	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 18:54	7440-02-0	
Selenium	1.8	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 18:54	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	09/27/19 06:52	10/03/19 18:54	7440-22-4	L5
Strontium	<0.15	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 18:54	7440-24-6	
Thallium	0.013J	mg/kg	0.094	0.012	1	09/27/19 06:52	10/03/19 18:54	7440-28-0	
Vanadium	0.72	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 18:54	7440-62-2	
Zinc	24.9	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 18:54	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.12	mg/kg	0.025	0.0075	1		10/03/19 17:40	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.4	%	0.10	0.10	1		09/25/19 13:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-CC-L-DUP01-20190430 **Lab ID:** 40194809017 **Collected:** 04/30/19 00:00 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.094	0.020	1	09/27/19 06:52	10/03/19 19:01	7440-36-0	
Arsenic	<0.028	mg/kg	0.094	0.028	1	09/27/19 06:52	10/03/19 19:01	7440-38-2	
Barium	<0.029	mg/kg	0.094	0.029	1	09/27/19 06:52	10/03/19 19:01	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 19:01	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	09/27/19 06:52	10/03/19 19:01	7440-42-8	
Cadmium	0.19	mg/kg	0.094	0.010	1	09/27/19 06:52	10/03/19 19:01	7440-43-9	
Calcium	49.1J	mg/kg	79.8	23.9	1	09/27/19 06:52	10/03/19 19:01	7440-70-2	
Chromium	<0.083	mg/kg	0.27	0.083	1	09/27/19 06:52	10/03/19 19:01	7440-47-3	
Cobalt	0.041J	mg/kg	0.094	0.018	1	09/27/19 06:52	10/03/19 19:01	7440-48-4	
Copper	1.6	mg/kg	0.90	0.27	1	09/27/19 06:52	10/03/19 19:01	7440-50-8	
Lead	0.038J	mg/kg	0.094	0.028	1	09/27/19 06:52	10/03/19 19:01	7439-92-1	
Lithium	<0.020	mg/kg	0.094	0.020	1	09/27/19 06:52	10/03/19 19:01	7439-93-2	
Molybdenum	0.085J	mg/kg	0.11	0.034	1	09/27/19 06:52	10/03/19 19:01	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	09/27/19 06:52	10/03/19 19:01	7440-02-0	
Selenium	0.81	mg/kg	0.16	0.048	1	09/27/19 06:52	10/03/19 19:01	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	09/27/19 06:52	10/03/19 19:01	7440-22-4	L5
Strontium	<0.15	mg/kg	0.51	0.15	1	09/27/19 06:52	10/03/19 19:01	7440-24-6	
Thallium	<0.012	mg/kg	0.094	0.012	1	09/27/19 06:52	10/03/19 19:01	7440-28-0	
Vanadium	0.44	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 19:01	7440-62-2	
Zinc	20.4	mg/kg	4.4	1.3	1	09/27/19 06:52	10/03/19 19:01	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.18	mg/kg	0.025	0.0075	1		10/03/19 18:29	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	81.3	%	0.10	0.10	1		09/25/19 13:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-RS-CURA-F-20190429 **Lab ID:** 40194809018 **Collected:** 04/29/19 16:50 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.019	mg/kg	0.092	0.019	1	09/27/19 06:52	10/03/19 19:09	7440-36-0	
Arsenic	0.073J	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:09	7440-38-2	
Barium	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:09	7440-39-3	
Beryllium	<0.030	mg/kg	0.10	0.030	1	09/27/19 06:52	10/03/19 19:09	7440-41-7	
Boron	<0.64	mg/kg	2.1	0.64	1	09/27/19 06:52	10/03/19 19:09	7440-42-8	
Cadmium	<0.010	mg/kg	0.092	0.010	1	09/27/19 06:52	10/03/19 19:09	7440-43-9	
Calcium	201	mg/kg	77.9	23.4	1	09/27/19 06:52	10/03/19 19:09	7440-70-2	
Chromium	<0.081	mg/kg	0.27	0.081	1	09/27/19 06:52	10/03/19 19:09	7440-47-3	
Cobalt	<0.017	mg/kg	0.092	0.017	1	09/27/19 06:52	10/03/19 19:09	7440-48-4	
Copper	0.29J	mg/kg	0.87	0.26	1	09/27/19 06:52	10/03/19 19:09	7440-50-8	
Lead	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:09	7439-92-1	
Lithium	<0.020	mg/kg	0.092	0.020	1	09/27/19 06:52	10/03/19 19:09	7439-93-2	
Molybdenum	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 19:09	7439-98-7	
Nickel	0.062J	mg/kg	0.13	0.038	1	09/27/19 06:52	10/03/19 19:09	7440-02-0	
Selenium	0.45	mg/kg	0.16	0.047	1	09/27/19 06:52	10/03/19 19:09	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	09/27/19 06:52	10/03/19 19:09	7440-22-4	L5
Strontium	<0.15	mg/kg	0.50	0.15	1	09/27/19 06:52	10/03/19 19:09	7440-24-6	
Thallium	<0.012	mg/kg	0.092	0.012	1	09/27/19 06:52	10/03/19 19:09	7440-28-0	
Vanadium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 19:09	7440-62-2	
Zinc	6.3	mg/kg	4.3	1.3	1	09/27/19 06:52	10/03/19 19:09	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.089	mg/kg	0.024	0.0071	1		10/03/19 18:40	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	81.0	%	0.10	0.10	1		09/25/19 13:32		

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Date: 10/24/2019 10:53 AM

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-RS-CURD-F-20190429 **Lab ID:** 40194809019 **Collected:** 04/29/19 18:15 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 19:16	7440-36-0	
Arsenic	0.085J	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 19:16	7440-38-2	
Barium	0.057J	mg/kg	0.098	0.030	1	09/27/19 06:52	10/03/19 19:16	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	09/27/19 06:52	10/03/19 19:16	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	09/27/19 06:52	10/03/19 19:16	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	09/27/19 06:52	10/03/19 19:16	7440-43-9	
Calcium	956	mg/kg	83.0	24.9	1	09/27/19 06:52	10/03/19 19:16	7440-70-2	
Chromium	<0.087	mg/kg	0.28	0.087	1	09/27/19 06:52	10/03/19 19:16	7440-47-3	
Cobalt	<0.019	mg/kg	0.098	0.019	1	09/27/19 06:52	10/03/19 19:16	7440-48-4	
Copper	<0.28	mg/kg	0.93	0.28	1	09/27/19 06:52	10/03/19 19:16	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	09/27/19 06:52	10/03/19 19:16	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	09/27/19 06:52	10/03/19 19:16	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	09/27/19 06:52	10/03/19 19:16	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	09/27/19 06:52	10/03/19 19:16	7440-02-0	
Selenium	0.42	mg/kg	0.17	0.050	1	09/27/19 06:52	10/03/19 19:16	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	09/27/19 06:52	10/03/19 19:16	7440-22-4	L5
Strontium	0.61	mg/kg	0.53	0.16	1	09/27/19 06:52	10/03/19 19:16	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	09/27/19 06:52	10/03/19 19:16	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 19:16	7440-62-2	
Zinc	8.3	mg/kg	4.6	1.4	1	09/27/19 06:52	10/03/19 19:16	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.12	mg/kg	0.024	0.0070	1		10/03/19 18:52	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	82.0	%	0.10	0.10	1		09/25/19 13:33		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: CUF-FH-RS-CURU-F-20190429 **Lab ID:** 40194809020 **Collected:** 04/29/19 15:30 **Received:** 09/10/19 10:45 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.019	mg/kg	0.092	0.019	1	09/27/19 06:52	10/03/19 19:23	7440-36-0	
Arsenic	0.049J	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:23	7440-38-2	
Barium	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:23	7440-39-3	
Beryllium	<0.030	mg/kg	0.10	0.030	1	09/27/19 06:52	10/03/19 19:23	7440-41-7	
Boron	<0.64	mg/kg	2.1	0.64	1	09/27/19 06:52	10/03/19 19:23	7440-42-8	
Cadmium	<0.010	mg/kg	0.092	0.010	1	09/27/19 06:52	10/03/19 19:23	7440-43-9	
Calcium	187	mg/kg	77.9	23.4	1	09/27/19 06:52	10/03/19 19:23	7440-70-2	
Chromium	<0.081	mg/kg	0.27	0.081	1	09/27/19 06:52	10/03/19 19:23	7440-47-3	
Cobalt	<0.017	mg/kg	0.092	0.017	1	09/27/19 06:52	10/03/19 19:23	7440-48-4	
Copper	<0.26	mg/kg	0.87	0.26	1	09/27/19 06:52	10/03/19 19:23	7440-50-8	
Lead	<0.028	mg/kg	0.092	0.028	1	09/27/19 06:52	10/03/19 19:23	7439-92-1	
Lithium	<0.020	mg/kg	0.092	0.020	1	09/27/19 06:52	10/03/19 19:23	7439-93-2	
Molybdenum	<0.033	mg/kg	0.11	0.033	1	09/27/19 06:52	10/03/19 19:23	7439-98-7	
Nickel	<0.038	mg/kg	0.13	0.038	1	09/27/19 06:52	10/03/19 19:23	7440-02-0	
Selenium	0.49	mg/kg	0.16	0.047	1	09/27/19 06:52	10/03/19 19:23	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	09/27/19 06:52	10/03/19 19:23	7440-22-4	L5
Strontium	<0.15	mg/kg	0.50	0.15	1	09/27/19 06:52	10/03/19 19:23	7440-24-6	
Thallium	<0.012	mg/kg	0.092	0.012	1	09/27/19 06:52	10/03/19 19:23	7440-28-0	
Vanadium	<0.031	mg/kg	0.10	0.031	1	09/27/19 06:52	10/03/19 19:23	7440-62-2	
Zinc	6.2	mg/kg	4.3	1.3	1	09/27/19 06:52	10/03/19 19:23	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.11	mg/kg	0.023	0.0070	1		10/03/19 19:03	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	81.1	%	0.10	0.10	1		09/25/19 13:33		

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ANALYTICAL RESULTS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Sample: RINSE BLANK 40194809-021-B **Lab ID:** 40194809021 **Collected:** 09/25/19 00:00 **Received:** 09/25/19 00:00 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	10/03/19 07:37	10/18/19 04:54	7440-36-0	
Arsenic	<0.030	mg/kg	0.098	0.030	1	10/03/19 07:37	10/18/19 04:54	7440-38-2	
Barium	<0.030	mg/kg	0.098	0.030	1	10/03/19 07:37	10/18/19 04:54	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	10/03/19 07:37	10/18/19 04:54	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	10/03/19 07:37	10/18/19 04:54	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	10/03/19 07:37	10/18/19 04:54	7440-43-9	
Calcium	<24.9	mg/kg	82.9	24.9	1	10/03/19 07:37	10/18/19 04:54	7440-70-2	
Chromium	<0.087	mg/kg	0.28	0.087	1	10/03/19 07:37	10/18/19 04:54	7440-47-3	
Cobalt	<0.019	mg/kg	0.098	0.019	1	10/03/19 07:37	10/18/19 04:54	7440-48-4	
Copper	<0.28	mg/kg	0.93	0.28	1	10/03/19 07:37	10/18/19 04:54	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	10/03/19 07:37	10/18/19 04:54	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	10/03/19 07:37	10/18/19 04:54	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	10/03/19 07:37	10/18/19 04:54	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	10/03/19 07:37	10/18/19 04:54	7440-02-0	
Selenium	<0.050	mg/kg	0.17	0.050	1	10/03/19 07:37	10/18/19 04:54	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	10/03/19 07:37	10/18/19 04:54	7440-22-4	
Strontium	<0.16	mg/kg	0.53	0.16	1	10/03/19 07:37	10/18/19 04:54	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	10/03/19 07:37	10/18/19 04:54	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	10/03/19 07:37	10/18/19 04:54	7440-62-2	
Zinc	<1.4	mg/kg	4.6	1.4	1	10/03/19 07:37	10/18/19 04:54	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	<0.0076	mg/kg	0.025	0.0076	1		10/03/19 19:14	7439-97-6	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

QC Batch:	336171	Analysis Method:	EPA 7473
QC Batch Method:	EPA 7473	Analysis Description:	7473 Mercury
Associated Lab Samples:	40194809001, 40194809002, 40194809003, 40194809004, 40194809005, 40194809006, 40194809007, 40194809008, 40194809009, 40194809010, 40194809011, 40194809012, 40194809013, 40194809014, 40194809015, 40194809016, 40194809017, 40194809018, 40194809019, 40194809020, 40194809021		

METHOD BLANK: 1951916

Matrix: Tissue

Associated Lab Samples: 40194809001, 40194809002, 40194809003, 40194809004, 40194809005, 40194809006, 40194809007, 40194809008, 40194809009, 40194809010, 40194809011, 40194809012, 40194809013, 40194809014, 40194809015, 40194809016, 40194809017, 40194809018, 40194809019, 40194809020, 40194809021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0076	0.025	0.0076	10/03/19 12:47	

LABORATORY CONTROL SAMPLE: 1951917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.25	0.28	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951918 1951919

Parameter	Units	40194809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.046	0.14	0.15	0.26	0.27	148	154	80-120	3	20	M0

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

QC Batch:	335361	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3050B	Analysis Description:	6020 MET TISSUE
Associated Lab Samples:	40194809001, 40194809002, 40194809003, 40194809004, 40194809005, 40194809006, 40194809007, 40194809008, 40194809009, 40194809010, 40194809011, 40194809012, 40194809013, 40194809014, 40194809015, 40194809016, 40194809017, 40194809018, 40194809019, 40194809020		

METHOD BLANK: 1946901

Matrix: Tissue

Associated Lab Samples: 40194809001, 40194809002, 40194809003, 40194809004, 40194809005, 40194809006, 40194809007, 40194809008, 40194809009, 40194809010, 40194809011, 40194809012, 40194809013, 40194809014, 40194809015, 40194809016, 40194809017, 40194809018, 40194809019, 40194809020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.021	0.10	0.021	10/03/19 15:34	
Arsenic	mg/kg	<0.030	0.10	0.030	10/03/19 15:34	
Barium	mg/kg	<0.031	0.10	0.031	10/03/19 15:34	
Beryllium	mg/kg	<0.033	0.11	0.033	10/03/19 15:34	
Boron	mg/kg	<0.70	2.3	0.70	10/03/19 15:34	
Cadmium	mg/kg	<0.011	0.10	0.011	10/03/19 15:34	
Calcium	mg/kg	<25.4	84.7	25.4	10/03/19 15:34	
Chromium	mg/kg	<0.088	0.29	0.088	10/03/19 15:34	
Cobalt	mg/kg	<0.019	0.10	0.019	10/03/19 15:34	
Copper	mg/kg	<0.28	0.95	0.28	10/03/19 15:34	
Lead	mg/kg	<0.030	0.10	0.030	10/03/19 15:34	
Lithium	mg/kg	<0.021	0.10	0.021	10/03/19 15:34	
Molybdenum	mg/kg	<0.036	0.12	0.036	10/03/19 15:34	
Nickel	mg/kg	<0.041	0.14	0.041	10/03/19 15:34	
Selenium	mg/kg	<0.051	0.17	0.051	10/03/19 15:34	
Silver	mg/kg	<0.011	0.050	0.011	10/03/19 15:34	
Strontium	mg/kg	<0.16	0.54	0.16	10/03/19 15:34	
Thallium	mg/kg	<0.013	0.10	0.013	10/03/19 15:34	
Vanadium	mg/kg	<0.033	0.11	0.033	10/03/19 15:34	
Zinc	mg/kg	<1.4	4.7	1.4	10/03/19 15:34	

LABORATORY CONTROL SAMPLE: 1946903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	5	5.3	106	80-120	
Arsenic	mg/kg	5	5.1	102	80-120	
Barium	mg/kg	5	5.0	100	80-120	
Beryllium	mg/kg	5	4.5	91	80-120	
Boron	mg/kg	10	9.0	90	80-120	
Cadmium	mg/kg	5	5.3	106	80-120	
Calcium	mg/kg	250	247	99	80-120	
Chromium	mg/kg	5	4.8	95	80-120	
Cobalt	mg/kg	5	4.7	94	80-120	
Copper	mg/kg	5	4.8	96	80-120	
Lead	mg/kg	5	4.9	97	80-120	
Lithium	mg/kg	5	4.3	87	80-120	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

LABORATORY CONTROL SAMPLE: 1946903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum	mg/kg	5	4.7	95	80-120	
Nickel	mg/kg	5	4.8	95	80-120	
Selenium	mg/kg	5	5.5	110	80-120	
Silver	mg/kg	2.5	2.0	79	80-120	L5
Strontium	mg/kg	5	4.9	97	80-120	
Thallium	mg/kg	5	5.0	99	80-120	
Vanadium	mg/kg	5	4.8	96	80-120	
Zinc	mg/kg	20	19.8	99	80-120	

LABORATORY CONTROL SAMPLE: 1946904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	59.5	69.3	117	80-126	
Cadmium	mg/kg	42.3	41.4	98	80-120	
Chromium	mg/kg	2	1.4	70	13-93	
Cobalt	mg/kg	1.1	0.97	91	80-120	
Copper	mg/kg	497	397	80	77-120	
Lead	mg/kg	0.22	0.19	84	79-120	
Molybdenum	mg/kg	3.4	3.0	88	80-120	
Nickel	mg/kg	5.3	4.5	85	76-120	
Selenium	mg/kg	10.9	12.5	115	80-130	
Strontium	mg/kg	36.5	30.4	83	79-120	
Vanadium	mg/kg	9.1	8.5	94	80-120	
Zinc	mg/kg	136	132	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946905 1946906

Parameter	Units	40194809001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Antimony	mg/kg	<0.021	5	5	5.4	5.3	109	106	75-125	3	20
Arsenic	mg/kg	0.044J	5	5	5.2	5.1	103	101	75-125	2	20
Barium	mg/kg	<0.030	5	5	5.4	5.0	107	101	75-125	6	20
Beryllium	mg/kg	<0.033	5	5	4.6	4.4	93	88	75-125	6	20
Boron	mg/kg	<0.69	10	9.9	8.8	8.0	88	80	75-125	9	20
Cadmium	mg/kg	0.027J	5	5	5.4	5.3	108	106	75-125	2	20
Calcium	mg/kg	66.6J	249	248	339	330	109	106	75-125	3	20
Chromium	mg/kg	<0.088	5	5	5.0	4.8	99	97	75-125	3	20
Cobalt	mg/kg	<0.019	5	5	4.9	4.8	99	96	75-125	3	20
Copper	mg/kg	0.54J	5	5	5.4	5.2	97	93	75-125	4	20
Lead	mg/kg	<0.030	5	5	5.0	4.9	101	99	75-125	3	20
Lithium	mg/kg	<0.021	5	5	4.4	4.0	88	82	75-125	8	20
Molybdenum	mg/kg	<0.036	5	5	4.8	4.7	96	94	75-125	2	20
Nickel	mg/kg	<0.041	5	5	5.0	4.8	99	97	75-125	3	20
Selenium	mg/kg	0.18	5	5	5.9	5.8	116	113	75-125	3	20

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946905 1946906											
Parameter	Units	40194809001		MS		MSD		MS		MSD	
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	% Rec	Max
								Limits	RPD	RPD	Qual
Silver	mg/kg	<0.011	2.5	2.5	2.0	2.0	80	75-125	1	20	
Strontium	mg/kg	<0.16	5	5	5.1	4.9	101	75-125	3	20	
Thallium	mg/kg	<0.013	5	5	5.1	5.0	103	75-125	2	20	
Vanadium	mg/kg	<0.033	5	5	5.1	4.9	101	75-125	3	20	
Zinc	mg/kg	5.7	20	19.9	28.0	26.7	112	75-125	5	20	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

QC Batch:	336121	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3050B	Analysis Description:	6020 MET TISSUE
Associated Lab Samples:	40194809021		

METHOD BLANK: 1951520 Matrix: Tissue

Associated Lab Samples: 40194809021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.021	0.10	0.021	10/18/19 03:56	
Arsenic	mg/kg	<0.030	0.10	0.030	10/18/19 03:56	
Barium	mg/kg	<0.031	0.10	0.031	10/18/19 03:56	
Beryllium	mg/kg	<0.033	0.11	0.033	10/18/19 03:56	
Boron	mg/kg	<0.70	2.3	0.70	10/18/19 03:56	
Cadmium	mg/kg	<0.011	0.10	0.011	10/18/19 03:56	
Calcium	mg/kg	<25.4	84.7	25.4	10/18/19 03:56	
Chromium	mg/kg	<0.088	0.29	0.088	10/18/19 03:56	
Cobalt	mg/kg	<0.019	0.10	0.019	10/18/19 03:56	
Copper	mg/kg	<0.28	0.95	0.28	10/18/19 03:56	
Lead	mg/kg	<0.030	0.10	0.030	10/18/19 03:56	
Lithium	mg/kg	<0.021	0.10	0.021	10/18/19 03:56	
Molybdenum	mg/kg	<0.036	0.12	0.036	10/18/19 03:56	
Nickel	mg/kg	<0.041	0.14	0.041	10/18/19 03:56	
Selenium	mg/kg	<0.051	0.17	0.051	10/18/19 03:56	
Silver	mg/kg	<0.011	0.050	0.011	10/18/19 03:56	
Strontium	mg/kg	<0.16	0.54	0.16	10/18/19 03:56	
Thallium	mg/kg	<0.013	0.10	0.013	10/18/19 03:56	
Vanadium	mg/kg	<0.033	0.11	0.033	10/18/19 03:56	
Zinc	mg/kg	<1.4	4.7	1.4	10/18/19 03:56	

LABORATORY CONTROL SAMPLE: 1951522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	5	5.5	110	80-120	
Arsenic	mg/kg	5	5.5	109	80-120	
Barium	mg/kg	5	5.2	104	80-120	
Beryllium	mg/kg	5	4.9	97	80-120	
Boron	mg/kg	10	10.0	100	80-120	
Cadmium	mg/kg	5	5.4	109	80-120	
Calcium	mg/kg	250	268	107	80-120	
Chromium	mg/kg	5	5.1	102	80-120	
Cobalt	mg/kg	5	5.2	104	80-120	
Copper	mg/kg	5	5.6	112	80-120	
Lead	mg/kg	5	5.1	102	80-120	
Lithium	mg/kg	5	4.7	94	80-120	
Molybdenum	mg/kg	5	4.9	99	80-120	
Nickel	mg/kg	5	5.2	103	80-120	
Selenium	mg/kg	5	5.6	113	80-120	
Silver	mg/kg	2.5	2.6	106	80-120	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

LABORATORY CONTROL SAMPLE: 1951522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Strontium	mg/kg	5	5.2	103	80-120	
Thallium	mg/kg	5	4.9	99	80-120	
Vanadium	mg/kg	5	5.1	103	80-120	
Zinc	mg/kg	20	22.9	115	80-120	

LABORATORY CONTROL SAMPLE: 1951523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	59.5	68.7	115	80-126	
Cadmium	mg/kg	42.3	38.2	90	80-120	
Chromium	mg/kg	2	0.69	35	13-93	
Cobalt	mg/kg	1.1	0.99	93	80-120	
Copper	mg/kg	497	443	89	77-120	
Lead	mg/kg	0.22	0.19	85	79-120	
Molybdenum	mg/kg	3.4	2.9	84	80-120	
Nickel	mg/kg	5.3	4.1	78	76-120	
Selenium	mg/kg	10.9	12.7	116	80-130	
Strontium	mg/kg	36.5	29.5	81	79-120	
Vanadium	mg/kg	9.1	8.8	97	80-120	
Zinc	mg/kg	136	125	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951524 1951525

Parameter	Units	40194816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	<0.021	5	5	5.4	5.4	109	109	75-125	0	20	
Arsenic	mg/kg	0.24	5	5	5.5	5.4	105	103	75-125	2	20	
Barium	mg/kg	4.5	5	5	9.0	8.7	90	84	75-125	3	20	
Beryllium	mg/kg	<0.033	5	5	5.0	5.0	101	100	75-125	1	20	
Boron	mg/kg	<0.69	10	10	9.9	9.6	99	96	75-125	3	20	
Cadmium	mg/kg	0.037J	5	5	5.3	5.2	106	104	75-125	1	20	
Calcium	mg/kg	17900	249	250	14000	11400	-1570	-2610	75-125	20	20	P6
Chromium	mg/kg	0.42	5	5	5.6	5.4	103	100	75-125	2	20	
Cobalt	mg/kg	0.13	5	5	5.3	5.1	103	100	75-125	2	20	
Copper	mg/kg	1.0	5	5	5.9	5.8	98	95	75-125	2	20	
Lead	mg/kg	0.22	5	5	5.4	5.3	104	101	75-125	3	20	
Lithium	mg/kg	0.092J	5	5	5.1	4.9	101	97	75-125	4	20	
Molybdenum	mg/kg	0.049J	5	5	4.9	4.8	98	95	75-125	3	20	
Nickel	mg/kg	0.23	5	5	5.3	5.2	102	99	75-125	2	20	
Selenium	mg/kg	0.42	5	5	6.3	6.2	118	117	75-125	1	20	
Silver	mg/kg	<0.011	2.5	2.5	2.5	2.5	102	101	75-125	1	20	
Strontium	mg/kg	11.6	5	5	13.3	11.9	34	6	75-125	11	20	M0
Thallium	mg/kg	<0.013	5	5	5.1	5.0	102	99	75-125	3	20	
Vanadium	mg/kg	0.30	5	5	5.6	5.5	106	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
1951524					1951525							
		40194816001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Zinc	mg/kg	19.1	19.9	20	39.3	38.3	102	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

QC Batch:	335214	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight Reporting Only
Associated Lab Samples:	40194809001, 40194809002, 40194809003, 40194809004, 40194809005, 40194809006, 40194809007, 40194809008, 40194809009, 40194809010, 40194809011, 40194809012, 40194809013, 40194809014, 40194809015, 40194809016, 40194809017, 40194809018, 40194809019, 40194809020		

SAMPLE DUPLICATE: 1946079

Parameter	Units	40194809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	80.9	80.9	0	10	

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QUALIFIERS

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

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

- | | |
|----|---|
| J | Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs. |
| L5 | LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40194809001	CUF-FH-CC-CURD-F-20190430	EPA 3050B	335361	EPA 6020	335703
40194809002	CUF-FH-CC-CURU-F-20190507	EPA 3050B	335361	EPA 6020	335703
40194809003	CUF-FH-CC-WCD-F-20190501	EPA 3050B	335361	EPA 6020	335703
40194809004	CUF-FH-CC-WCU-F-20190508	EPA 3050B	335361	EPA 6020	335703
40194809005	CUF-FH-CC-F-DUP01-20190430	EPA 3050B	335361	EPA 6020	335703
40194809006	CUF-FH-CC-CURA-O-20190520	EPA 3050B	335361	EPA 6020	335703
40194809007	CUF-FH-CC-CURD-O-20190430	EPA 3050B	335361	EPA 6020	335703
40194809008	CUF-FH-CC-CURU-O-20190507	EPA 3050B	335361	EPA 6020	335703
40194809009	CUF-FH-CC-WCD-O-20190501	EPA 3050B	335361	EPA 6020	335703
40194809010	CUF-FH-CC-WCU-O-20190508	EPA 3050B	335361	EPA 6020	335703
40194809011	CUF-FH-CC-O-DUP01-20190430	EPA 3050B	335361	EPA 6020	335703
40194809012	CUF-FH-CC-CURA-L-20190520	EPA 3050B	335361	EPA 6020	335703
40194809013	CUF-FH-CC-CURD-L-20190430	EPA 3050B	335361	EPA 6020	335703
40194809014	CUF-FH-CC-CURU-L-20190507	EPA 3050B	335361	EPA 6020	335703
40194809015	CUF-FH-CC-WCD-L-20190501	EPA 3050B	335361	EPA 6020	335703
40194809016	CUF-FH-CC-WCU-L-20190508	EPA 3050B	335361	EPA 6020	335703
40194809017	CUF-FH-CC-L-DUP01-20190430	EPA 3050B	335361	EPA 6020	335703
40194809018	CUF-FH-RS-CURA-F-20190429	EPA 3050B	335361	EPA 6020	335703
40194809019	CUF-FH-RS-CURD-F-20190429	EPA 3050B	335361	EPA 6020	335703
40194809020	CUF-FH-RS-CURU-F-20190429	EPA 3050B	335361	EPA 6020	335703
40194809021	RINSE BLANK 40194809-021-B	EPA 3050B	336121	EPA 6020	336356
40194809001	CUF-FH-CC-CURD-F-20190430	EPA 7473	336171		
40194809002	CUF-FH-CC-CURU-F-20190507	EPA 7473	336171		
40194809003	CUF-FH-CC-WCD-F-20190501	EPA 7473	336171		
40194809004	CUF-FH-CC-WCU-F-20190508	EPA 7473	336171		
40194809005	CUF-FH-CC-F-DUP01-20190430	EPA 7473	336171		
40194809006	CUF-FH-CC-CURA-O-20190520	EPA 7473	336171		
40194809007	CUF-FH-CC-CURD-O-20190430	EPA 7473	336171		
40194809008	CUF-FH-CC-CURU-O-20190507	EPA 7473	336171		
40194809009	CUF-FH-CC-WCD-O-20190501	EPA 7473	336171		
40194809010	CUF-FH-CC-WCU-O-20190508	EPA 7473	336171		
40194809011	CUF-FH-CC-O-DUP01-20190430	EPA 7473	336171		
40194809012	CUF-FH-CC-CURA-L-20190520	EPA 7473	336171		
40194809013	CUF-FH-CC-CURD-L-20190430	EPA 7473	336171		
40194809014	CUF-FH-CC-CURU-L-20190507	EPA 7473	336171		
40194809015	CUF-FH-CC-WCD-L-20190501	EPA 7473	336171		
40194809016	CUF-FH-CC-WCU-L-20190508	EPA 7473	336171		
40194809017	CUF-FH-CC-L-DUP01-20190430	EPA 7473	336171		
40194809018	CUF-FH-RS-CURA-F-20190429	EPA 7473	336171		
40194809019	CUF-FH-RS-CURD-F-20190429	EPA 7473	336171		
40194809020	CUF-FH-RS-CURU-F-20190429	EPA 7473	336171		
40194809021	RINSE BLANK 40194809-021-B	EPA 7473	336171		
40194809001	CUF-FH-CC-CURD-F-20190430	ASTM D2974-87	335214		
40194809002	CUF-FH-CC-CURU-F-20190507	ASTM D2974-87	335214		
40194809003	CUF-FH-CC-WCD-F-20190501	ASTM D2974-87	335214		
40194809004	CUF-FH-CC-WCU-F-20190508	ASTM D2974-87	335214		
40194809005	CUF-FH-CC-F-DUP01-20190430	ASTM D2974-87	335214		

REPORT OF LABORATORY ANALYSIS

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Date: 10/24/2019 10:53 AM

Page 39 of 45

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0777010 CUMBERLAND FOSSIL PLAN

Pace Project No.: 40194809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40194809006	CUF-FH-CC-CURA-O-20190520	ASTM D2974-87	335214		
40194809007	CUF-FH-CC-CURD-O-20190430	ASTM D2974-87	335214		
40194809008	CUF-FH-CC-CURU-O-20190507	ASTM D2974-87	335214		
40194809009	CUF-FH-CC-WCD-O-20190501	ASTM D2974-87	335214		
40194809010	CUF-FH-CC-WCU-O-20190508	ASTM D2974-87	335214		
40194809011	CUF-FH-CC-O-DUP01-20190430	ASTM D2974-87	335214		
40194809012	CUF-FH-CC-CURA-L-20190520	ASTM D2974-87	335214		
40194809013	CUF-FH-CC-CURD-L-20190430	ASTM D2974-87	335214		
40194809014	CUF-FH-CC-CURU-L-20190507	ASTM D2974-87	335214		
40194809015	CUF-FH-CC-WCD-L-20190501	ASTM D2974-87	335214		
40194809016	CUF-FH-CC-WCU-L-20190508	ASTM D2974-87	335214		
40194809017	CUF-FH-CC-L-DUP01-20190430	ASTM D2974-87	335214		
40194809018	CUF-FH-RS-CURA-F-20190429	ASTM D2974-87	335214		
40194809019	CUF-FH-RS-CURD-F-20190429	ASTM D2974-87	335214		
40194809020	CUF-FH-RS-CURU-F-20190429	ASTM D2974-87	335214		

REPORT OF LABORATORY ANALYSIS

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Tennessee Valley Authority

TVA Environmental Investigations

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	5
COC No:	CUF_FH 20190415_1A		
4 of 8 Pages			
Task Desc:	CUF_FH		

Required Ship to Lab:		Required Project Information:		Required Sampler Information:	
Lab Name:	Pace Analytical Green Bay	Site ID #:	CUMBERLAND FOSSIL PLANT	Sampler:	Tyler Baker
Lab Address:	1241 Bellevue Street	Project #:	077010	Sampling Company:	TVA
	Suite 9	Site Address:	815 Cumberland City Road	Address:	TVA Chattanooga Power Service Center, 4801 N. Access Road
	Green Bay, WI 54302	City:	Cumberland City, TN 37733	City/State:	Chattanooga, TN 37415
Lab Manager Contact Information		Site PII Name:	Roy Quinn	Phone:	423-876-6733
Lab PII:	Tod Noltemeyer	Phone/Fax:	423-751-3753	Sampling Team Number:	1
Phone/Fax:	920-469-2436	Site PII Email:	iqunin@tva.gov	Send EDD/Hard Copy to:	tyr-b@tva.gov
Lab Email:	tod.noltemeyer@paceanalytical.com				
<div><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)</div> <div><input type="checkbox"/> Calendar Days <input checked="" type="checkbox"/> Turnaround Time TAT if different from below _____</div>					
SAMPLE ID		SAMPLE LOCATION		SAMPLE DATE	
SAMPLES IDs MUST BE UNIQUE		Start Depth		SAMPLE TIME	
		End Depth		# OF CONTAINERS	
		MATRIX CODE		Comments/ Lab Sample I.D.	
		G= GRAB C=COMP		MS/MSD	
		SAMPLE TYPE			
ITEMS #		Depth Unit	Feet		
1	CUF-FH-LB-CURA-L-20190430	NA	NA	4/30/2019	1320
2	CUF-FH-LB-CURD-L-20190424	NA	NA	4/24/2019	1620
3	CUF-FH-LB-CURU-L-20190424	NA	NA	4/24/2019	1105
4	CUF-FH-LB-WCD-L-20190415	NA	NA	4/15/2019	1905
5	CUF-FH-LB-WCU-L-20190423	NA	NA	4/23/2019	1500
6	CUF-FH-LB-L-DUP01-20190416	NA	NA	4/16/2019	---
7	CUF-FH-CC-CURA-F-20190520	NA	NA	5/20/2019	1625
8	CUF-FH-CC-CURD-F-20190430	NA	NA	4/30/2019	1500
9	CUF-FH-CC-CURU-F-20190507	NA	NA	5/7/2019	1135
10	CUF-FH-CC-WCD-F-20190501	NA	NA	5/1/2019	1050
11	CUF-FH-CC-WCU-F-20190508	NA	NA	5/8/2019	1050
12	CUF-FH-CC-F-DUP01-20190430	NA	NA	4/30/2019	---
13					
Additional Comments/Special Instructions:					
REINFORCED BY AFFILIATION					
DATE TIME ACCEPTED BY AFFILIATION DATE TIME					
SHIPPING METHOD: FedEx					
SAMPLER NAME AND SIGNATURE					
Temperature in °C					
Sample on Ice?					
Sample Intact?					
Trip Blank?					



Tennessee Valley Authority

TVA Environmental Investigations

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 5
COC No: CUF_FH 20190415 1A
5 of 8 Pages
Task Desc: CUF_FH

Required Ship to Lab:
Lab Name: Pace Analytical Green Bay
Lab Address: 1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Lab Manager Contact Information
Lab PM: Tod Noltemeyer
Phone/Fax: 920-465-2436
Lab Email: tod.noltemeyer@pacelabs.com
Required Project Information:
Site ID #: CUMBERLAND FOSSIL PLANT
Project #: 077010
Site Address: 815 Cumberland City Road
Cumberland City, TN 37623
Site PM Name: Roy Quinn
Phone/Fax: 423-571-3733
Site PM Email: rquinn@tva.gov
Required Sampler Information:
Sampler: Tyler Baker
Sampling Company: TVA
Address: TVA Chickamauga Power Service Center, 4601 N. Access Road
City/State: Chattanooga, TN 37415
Phone: 423-876-6733
Sampling Team Number: 1
Send EDD/Hard Copy to: tve-e@tva.gov
Analysis Turnaround Time
CALENDAR DAYS
TAT if different from Below
24 Hours
3 Business Days
5 Business Days
10 Business Days (Standard)
Analysis Turnaround Time
CHECKING DAYS

ITEMS #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth		MATRIX CODE G= GRAB C=COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.	MS/MSD	Analysis		Preserve		Filtered	
			Start Depth	End Depth								CUF_FISH		see comments		N	
1	CUF-FH-CC-CURA-O-20190520	FH-CURA	NA	NA	FH C	N	5/20/2019	1625	1	009004		X					
2	CUF-FH-CC-CURD-O-20190430	FH-CURD	NA	NA	FH C	N	4/30/2019	1500	1	010007		X					
3	CUF-FH-CC-CURU-O-20190507	FH-CURU	NA	NA	FH C	N	5/7/2019	1135	1	011005		X					
4	CUF-FH-CC-WCD-O-20190501	FH-WCD	NA	NA	FH C	N	5/1/2019	1050	1	012004		X					
5	CUF-FH-CC-WCU-O-20190508	FH-WCU	NA	NA	FH C	N	5/8/2019	1050	1	013010		X					
6	CUF-FH-CC-O-DUP01-20190430	---	NA	NA	FH C	FD	4/30/2019	---	1	014012		X					
7	CUF-FH-CC-CURA-L-20190520	FH-CURA	NA	NA	FH C	N	5/20/2019	1625	1	015012		X					
8	CUF-FH-CC-CURD-L-20190430	FH-CURD	NA	NA	FH C	N	4/30/2019	1500	1	016014		X					
9	CUF-FH-CC-CURU-L-20190507	FH-CURU	NA	NA	FH C	N	5/7/2019	1135	1	017019		X					
10	CUF-FH-CC-WCD-L-20190501	FH-WCD	NA	NA	FH C	N	5/1/2019	1050	1	018015		X					
11	CUF-FH-CC-WCU-L-20190508	FH-WCU	NA	NA	FH C	N	5/8/2019	1050	1	019016		X					
12	CUF-FH-CC-L-DUP01-20190430	---	NA	NA	FH C	FD	4/30/2019	---	1	020017		X					
13																	

Additional Comments/Special Instructions:

Tyler Baker

89-19

1005

SHIPPING METHOD:

Fedex

SAMPLER NAME AND SIGNATURE

Tyler Baker

Sample Receipt Conditions		DATE	TIME
Temperature in °C	<input checked="" type="checkbox"/>		
Sample on Ice?	<input checked="" type="checkbox"/>		
Sample Intact?	<input checked="" type="checkbox"/>		
Trip Blank?	<input checked="" type="checkbox"/>		



Tennessee Valley Authority

TVA Environmental Investigations

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	5
COC NO.:	CUF_FH 20190415 1A		
6 of 8 Pages			
Task Desc:	CUF_FH		

Required Ship to Lab:

Lab Name:	Peace Analytical Green Bay
Lab Address:	1241 Bellevue Street Suite 9 Green Bay, WI 54302
Lab Manager Contact Information	
Lab PM:	Tod Nolemeier
Phone/Fax:	920-469-2436
Lab Email:	tod.nolemeier@peaceilabs.com

Required Project Information:

Site ID #:	CUMBERLAND FOSSIL PLANT
Project #:	077010
Site Address:	815 Cumberland City Road Cumberland City, TN 37763
Site PM Name:	Roy Quinn
Phone/Fax:	423-51-3733
Site PM Email:	rqquinn@tva.gov

Required Sampler Information

Sampler:	Tyler Baker
Sampling Company:	TVA
Address:	TVA Chickamauga Power Service Center, 4601 N. Access Road Chickamauga, TN 37415
Phone:	423-676-6733
Sampling Team Number:	1
Send EDD/Hand copy to:	tye-el@tvasid.com

Analysis Turnaround Time

☐ 24 Hours
☐ 3 Business Days
☒ 5 Business Days (Standard)
☐ 10 Business Days (Standard)

Analysis	Preserve	Filtered
CUF_FISH	see comments	N

ITEMS #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth		MATRIX CODE	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.	MS/MSD	DATE	TIME	Sample Receipt Conditions			
			Start Depth	End Depth										Temperature in °C	Sample on Ice?	Sample Intact?	Trip Blank?
1	CUF-FH-RS-CURA-F-20190429	FH-CURA	NA	NA	FH C	N	4/29/2019	1650	1	218		X		10	10	10	10
2	CUF-FH-RS-CURD-F-20190429	FH-CURD	NA	NA	FH C	N	4/29/2019	1815	1	019		X		10	10	10	10
3	CUF-FH-RS-CURU-F-20190429	FH-CURU	NA	NA	FH C	N	4/29/2019	1630	1	020		X		10	10	10	10
4	CUF-FH-RS-WCD-F-20190501	FH-WCD	NA	NA	FH C	N	5/1/2019	1050	1			X		10	10	10	10
5	CUF-FH-RS-WCU-F-20190430	FH-WCU	NA	NA	FH C	N	4/30/2019	1715	1			X		10	10	10	10
6	CUF-FH-RS-F-DUP01-20190424	---	NA	NA	FH C	FD	4/24/2019	---	1			X		10	10	10	10
7	CUF-FH-RS-F-DUP02-20190501	---	NA	NA	FH C	FD	5/1/2019	---	1			X		10	10	10	10
8	CUF-FH-RS-CURA-O-20190429	FH-CURA	NA	NA	FH C	N	4/29/2019	1650	1			X		10	10	10	10
9	CUF-FH-RS-CURD-O-20190429	FH-CURD	NA	NA	FH C	N	4/29/2019	1815	1			X		10	10	10	10
10	CUF-FH-RS-CURU-O-20190429	FH-CURU	NA	NA	FH C	N	4/29/2019	1530	1			X		10	10	10	10
11	CUF-FH-RS-WCD-O-20190501	FH-WCD	NA	NA	FH C	N	5/1/2019	1050	1			X		10	10	10	10
12	CUF-FH-RS-WCU-O-20190430	FH-WCU	NA	NA	FH C	N	4/30/2019	1715	1			X		10	10	10	10
13	CUF-FH-RS-O-DUP01-20190424	---	NA	NA	FH C	FD	4/24/2019	---	1			X		10	10	10	10

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION
Tyler Baker TVA

DATE
4/29/19

TIME
1650

ACCEPTED BY / AFFILIATION
Tyler Baker TVA

SHIPPING METHOD:

FedEx

SAMPLER NAME AND SIGNATURE

Tyler Baker

Client Name:

TVA

Sample Preservation Receipt Form

Project #

4694809

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 905
Green Bay, WI 54302


Page

Pace Lab #	Glass						Plastic						Vials				Jars		General		VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	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
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
007																												2.5 / 5 / 10
008																												2.5 / 5 / 10
009																												2.5 / 5 / 10
010																												2.5 / 5 / 10
011																												2.5 / 5 / 10
012																												2.5 / 5 / 10
013																												2.5 / 5 / 10
014																												2.5 / 5 / 10
015																												2.5 / 5 / 10
016																												2.5 / 5 / 10
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, O&G, W/DRO, Phenolics, Other:

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
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			SP5T	120 mL plastic Na Thiosulfate
						ZPLC	ziploc bag
						GN:	

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

Project #:

WO#: 40194809



Tracking #: _____
 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-82 Type of Ice: Wet Blue ☒ Dry ☐ None ☒ Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: (1) / Corr: (1)
 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: 9/11/19
 Initials: CB

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 type="checkbox"/> Yes <input checked="" 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>B</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: 0789696228174 ± -5, 78969696289 ± 0, 789696964120 ± -5, 7896961169 ± -5, 789696128701 ± -5

Project Manager Review:

Arfr TN

Date:

9/11/19



CASE NARRATIVE - METALS ANALYSIS

Lab Report Number (SDG): 40194809

Client: TENNESSEE VALLEY AUTHORITY

Project Name: CUMBERLAND FOSSIL PLANT

Project Number: 0777010

1. RECEIPT

Samples were received frozen on dry ice. Sample RINSE BLANK 40194809-021-B was generated in the laboratory by rinsing the equipment used to stir the tissue samples with deionized water.

2. HOLDING TIMES

- A. Sample Preparation:** The samples, with the exception of RINSE BLANK 40194809-021-B, were kept frozen prior to analysis, therefore the sample hold-time criteria is not applicable.
- B. Sample Analysis:** All method required holding times were met.

3. METHOD

Preparation: SW846 3050B, 7473

Analysis: SW846 6020, 7473

4. PREPARATION

Sample preparation proceeded normally. Although sample RINSE BLANK 40194809-021-B consists of deionized water, the sample was prepared in a manner consistent with the other tissue samples in this SDG (i.e., as if it were a tissue sample).

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 and Copper are based on the water reporting limits rather than the tissue reporting limits and appear to recover two (Ca) and five (Cu) 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, Selenium and Zinc were detected at a level above the MDL in chicken blank 1946902. Calcium, Selenium, and Zinc were detected at a level above the MDL in chicken blank 1951521. 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 (LCS):** The associated LCS met all in-house accuracy and precision criteria with the following exception. The recovery of Silver was below control criteria for 1946903LCS. The batch was accepted based on the matrix spike recovery being within LCS limits and "L5" data qualifier was applied to the final report.
 - 2. SRM:** A Standard Reference Material was analyzed with this analytical batch.
 - 3. Matrix Spike / Duplicate (MS/MSD):** Sample CUF-FH-CC-CURD-F-20190430 was designated as the 6020 and 7473 matrix spike sample for this SDG. All in-house accuracy and precision criteria were met. The recoveries of Mercury were above control criteria in the MS and MSD. The "M0" data qualifier was applied to the final report.



- 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:** Samples were reported on a wet weight basis.
Due to the nature of dual cell calibration for mercury by EPA 7473, the reported results for CUF-FH-CC-CURD-L-20190430, CUF-FH-CC-WCD-L-20190501, and CUF-FH-CC-WCU-L-20190508 are generated by the second cell, but falls below the second cell's calibration range. As a result of this relationship with the calibration, the data is estimated and given the J data qualifier.

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: 10/28/19
Name: Jill A Duranceau Position: Quality Assurance Auditor

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-F-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 16:10
7440-38-2	Arsenic	0.044	J	mg/kg	1	10/03/2019 16:10
7440-39-3	Barium	<0.030	U	mg/kg	1	10/03/2019 16:10
7440-41-7	Beryllium	<0.033	U	mg/kg	1	10/03/2019 16:10
7440-42-8	Boron	<0.69	U	mg/kg	1	10/03/2019 16:10
7440-43-9	Cadmium	0.027	J	mg/kg	1	10/03/2019 16:10
7440-70-2	Calcium	66.6	J	mg/kg	1	10/03/2019 16:10
7440-47-3	Chromium	<0.088	U	mg/kg	1	10/03/2019 16:10
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 16:10
7440-50-8	Copper	0.54	J	mg/kg	1	10/03/2019 16:10
7439-92-1	Lead	<0.030	U	mg/kg	1	10/03/2019 16:10
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 16:10
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	10/03/2019 16:10
7440-02-0	Nickel	<0.041	U	mg/kg	1	10/03/2019 16:10
7782-49-2	Selenium	0.18		mg/kg	1	10/03/2019 16:10
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 16:10
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/03/2019 16:10
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 16:10
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 16:10
7440-66-6	Zinc	5.7		mg/kg	1	10/03/2019 16:10

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-F-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 16:38
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 16:38
7440-39-3	Barium	<0.030	U	mg/kg	1	10/03/2019 16:38
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/03/2019 16:38
7440-42-8	Boron	<0.68	U	mg/kg	1	10/03/2019 16:38
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 16:38
7440-70-2	Calcium	99.7		mg/kg	1	10/03/2019 16:38
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/03/2019 16:38
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 16:38
7440-50-8	Copper	0.39	J	mg/kg	1	10/03/2019 16:38
7439-92-1	Lead	<0.029	U	mg/kg	1	10/03/2019 16:38
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 16:38
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/03/2019 16:38
7440-02-0	Nickel	0.087	J	mg/kg	1	10/03/2019 16:38
7782-49-2	Selenium	0.17		mg/kg	1	10/03/2019 16:38
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 16:38
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/03/2019 16:38
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 16:38
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 16:38
7440-66-6	Zinc	5.7		mg/kg	1	10/03/2019 16:38

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-F-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 17:07
7440-38-2	Arsenic	0.032	J	mg/kg	1	10/03/2019 17:07
7440-39-3	Barium	<0.029	U	mg/kg	1	10/03/2019 17:07
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 17:07
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 17:07
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 17:07
7440-70-2	Calcium	91.4		mg/kg	1	10/03/2019 17:07
7440-47-3	Chromium	<0.084	U	mg/kg	1	10/03/2019 17:07
7440-48-4	Cobalt	<0.018	U	mg/kg	1	10/03/2019 17:07
7440-50-8	Copper	<0.27	U	mg/kg	1	10/03/2019 17:07
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 17:07
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 17:07
7439-98-7	Molybdenum	<0.034	U	mg/kg	1	10/03/2019 17:07
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 17:07
7782-49-2	Selenium	0.26		mg/kg	1	10/03/2019 17:07
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:07
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 17:07
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 17:07
7440-62-2	Vanadium	<0.032	U	mg/kg	1	10/03/2019 17:07
7440-66-6	Zinc	5.4		mg/kg	1	10/03/2019 17:07

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-F-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 17:14
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 17:14
7440-39-3	Barium	<0.031	U	mg/kg	1	10/03/2019 17:14
7440-41-7	Beryllium	<0.033	U	mg/kg	1	10/03/2019 17:14
7440-42-8	Boron	<0.70	U	mg/kg	1	10/03/2019 17:14
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 17:14
7440-70-2	Calcium	74.4	J	mg/kg	1	10/03/2019 17:14
7440-47-3	Chromium	<0.088	U	mg/kg	1	10/03/2019 17:14
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 17:14
7440-50-8	Copper	<0.28	U	mg/kg	1	10/03/2019 17:14
7439-92-1	Lead	<0.030	U	mg/kg	1	10/03/2019 17:14
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 17:14
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	10/03/2019 17:14
7440-02-0	Nickel	<0.041	U	mg/kg	1	10/03/2019 17:14
7782-49-2	Selenium	0.21		mg/kg	1	10/03/2019 17:14
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:14
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/03/2019 17:14
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 17:14
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 17:14
7440-66-6	Zinc	5.8		mg/kg	1	10/03/2019 17:14

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 17:21
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 17:21
7440-39-3	Barium	<0.030	U	mg/kg	1	10/03/2019 17:21
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/03/2019 17:21
7440-42-8	Boron	<0.68	U	mg/kg	1	10/03/2019 17:21
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 17:21
7440-70-2	Calcium	145		mg/kg	1	10/03/2019 17:21
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/03/2019 17:21
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 17:21
7440-50-8	Copper	<0.28	U	mg/kg	1	10/03/2019 17:21
7439-92-1	Lead	<0.029	U	mg/kg	1	10/03/2019 17:21
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 17:21
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/03/2019 17:21
7440-02-0	Nickel	0.048	J	mg/kg	1	10/03/2019 17:21
7782-49-2	Selenium	0.17	J	mg/kg	1	10/03/2019 17:21
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:21
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/03/2019 17:21
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 17:21
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 17:21
7440-66-6	Zinc	6.2		mg/kg	1	10/03/2019 17:21

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SAMPLE NO.

CUF-FH-CC-CURA-O-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 17:29
7440-38-2	Arsenic	<0.028	U	mg/kg	1	10/03/2019 17:29
7440-39-3	Barium	0.16		mg/kg	1	10/03/2019 17:29
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 17:29
7440-42-8	Boron	<0.65	U	mg/kg	1	10/03/2019 17:29
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 17:29
7440-70-2	Calcium	879		mg/kg	1	10/03/2019 17:29
7440-47-3	Chromium	<0.082	U	mg/kg	1	10/03/2019 17:29
7440-48-4	Cobalt	0.023	J	mg/kg	1	10/03/2019 17:29
7440-50-8	Copper	1.2		mg/kg	1	10/03/2019 17:29
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 17:29
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 17:29
7439-98-7	Molybdenum	<0.033	U	mg/kg	1	10/03/2019 17:29
7440-02-0	Nickel	<0.038	U	mg/kg	1	10/03/2019 17:29
7782-49-2	Selenium	1.1		mg/kg	1	10/03/2019 17:29
7440-22-4	Silver	<0.010	U	mg/kg	1	10/03/2019 17:29
7440-24-6	Strontium	0.99		mg/kg	1	10/03/2019 17:29
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 17:29
7440-62-2	Vanadium	<0.031	U	mg/kg	1	10/03/2019 17:29
7440-66-6	Zinc	39.4		mg/kg	1	10/03/2019 17:29

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SAMPLE NO.

CUF-FH-CC-CURD-O-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 17:36
7440-38-2	Arsenic	<0.029	U	mg/kg	1	10/03/2019 17:36
7440-39-3	Barium	0.20		mg/kg	1	10/03/2019 17:36
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 17:36
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 17:36
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 17:36
7440-70-2	Calcium	936		mg/kg	1	10/03/2019 17:36
7440-47-3	Chromium	<0.084	U	mg/kg	1	10/03/2019 17:36
7440-48-4	Cobalt	0.031	J	mg/kg	1	10/03/2019 17:36
7440-50-8	Copper	1.2		mg/kg	1	10/03/2019 17:36
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 17:36
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 17:36
7439-98-7	Molybdenum	<0.034	U	mg/kg	1	10/03/2019 17:36
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 17:36
7782-49-2	Selenium	1.1		mg/kg	1	10/03/2019 17:36
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:36
7440-24-6	Strontium	1.1		mg/kg	1	10/03/2019 17:36
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 17:36
7440-62-2	Vanadium	<0.032	U	mg/kg	1	10/03/2019 17:36
7440-66-6	Zinc	38.3		mg/kg	1	10/03/2019 17:36

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SAMPLE NO.

CUF-FH-CC-CURU-O-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 17:43
7440-38-2	Arsenic	<0.029	U	mg/kg	1	10/03/2019 17:43
7440-39-3	Barium	0.18		mg/kg	1	10/03/2019 17:43
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 17:43
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 17:43
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 17:43
7440-70-2	Calcium	832		mg/kg	1	10/03/2019 17:43
7440-47-3	Chromium	<0.084	U	mg/kg	1	10/03/2019 17:43
7440-48-4	Cobalt	0.022	J	mg/kg	1	10/03/2019 17:43
7440-50-8	Copper	1.2		mg/kg	1	10/03/2019 17:43
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 17:43
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 17:43
7439-98-7	Molybdenum	<0.034	U	mg/kg	1	10/03/2019 17:43
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 17:43
7782-49-2	Selenium	1.1		mg/kg	1	10/03/2019 17:43
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:43
7440-24-6	Strontium	1.0		mg/kg	1	10/03/2019 17:43
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 17:43
7440-62-2	Vanadium	<0.032	U	mg/kg	1	10/03/2019 17:43
7440-66-6	Zinc	36.7		mg/kg	1	10/03/2019 17:43

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-O-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809009 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 17:50
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 17:50
7440-39-3	Barium	0.25		mg/kg	1	10/03/2019 17:50
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/03/2019 17:50
7440-42-8	Boron	<0.68	U	mg/kg	1	10/03/2019 17:50
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 17:50
7440-70-2	Calcium	883		mg/kg	1	10/03/2019 17:50
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/03/2019 17:50
7440-48-4	Cobalt	0.022	J	mg/kg	1	10/03/2019 17:50
7440-50-8	Copper	6.4		mg/kg	1	10/03/2019 17:50
7439-92-1	Lead	<0.029	U	mg/kg	1	10/03/2019 17:50
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 17:50
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/03/2019 17:50
7440-02-0	Nickel	<0.040	U	mg/kg	1	10/03/2019 17:50
7782-49-2	Selenium	1.4		mg/kg	1	10/03/2019 17:50
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:50
7440-24-6	Strontium	1.1		mg/kg	1	10/03/2019 17:50
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 17:50
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 17:50
7440-66-6	Zinc	46.1		mg/kg	1	10/03/2019 17:50

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-O-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809010 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 17:57
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 17:57
7440-39-3	Barium	0.18		mg/kg	1	10/03/2019 17:57
7440-41-7	Beryllium	<0.033	U	mg/kg	1	10/03/2019 17:57
7440-42-8	Boron	<0.69	U	mg/kg	1	10/03/2019 17:57
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 17:57
7440-70-2	Calcium	916		mg/kg	1	10/03/2019 17:57
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/03/2019 17:57
7440-48-4	Cobalt	0.061	J	mg/kg	1	10/03/2019 17:57
7440-50-8	Copper	1.2		mg/kg	1	10/03/2019 17:57
7439-92-1	Lead	<0.030	U	mg/kg	1	10/03/2019 17:57
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 17:57
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/03/2019 17:57
7440-02-0	Nickel	<0.040	U	mg/kg	1	10/03/2019 17:57
7782-49-2	Selenium	1.6		mg/kg	1	10/03/2019 17:57
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 17:57
7440-24-6	Strontium	1.2		mg/kg	1	10/03/2019 17:57
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 17:57
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 17:57
7440-66-6	Zinc	39.5		mg/kg	1	10/03/2019 17:57

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-O-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809011 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 18:04
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/03/2019 18:04
7440-39-3	Barium	0.17		mg/kg	1	10/03/2019 18:04
7440-41-7	Beryllium	<0.033	U	mg/kg	1	10/03/2019 18:04
7440-42-8	Boron	<0.69	U	mg/kg	1	10/03/2019 18:04
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 18:04
7440-70-2	Calcium	899		mg/kg	1	10/03/2019 18:04
7440-47-3	Chromium	<0.088	U	mg/kg	1	10/03/2019 18:04
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 18:04
7440-50-8	Copper	1.2		mg/kg	1	10/03/2019 18:04
7439-92-1	Lead	<0.030	U	mg/kg	1	10/03/2019 18:04
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 18:04
7439-98-7	Molybdenum	<0.036	U	mg/kg	1	10/03/2019 18:04
7440-02-0	Nickel	<0.041	U	mg/kg	1	10/03/2019 18:04
7782-49-2	Selenium	1.0		mg/kg	1	10/03/2019 18:04
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 18:04
7440-24-6	Strontium	1.1		mg/kg	1	10/03/2019 18:04
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 18:04
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 18:04
7440-66-6	Zinc	38.7		mg/kg	1	10/03/2019 18:04

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SAMPLE NO.

CUF-FH-CC-CURA-L-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809012 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 18:26
7440-38-2	Arsenic	<0.029	U	mg/kg	1	10/03/2019 18:26
7440-39-3	Barium	<0.030	U	mg/kg	1	10/03/2019 18:26
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/03/2019 18:26
7440-42-8	Boron	<0.67	U	mg/kg	1	10/03/2019 18:26
7440-43-9	Cadmium	0.24		mg/kg	1	10/03/2019 18:26
7440-70-2	Calcium	62.6	J	mg/kg	1	10/03/2019 18:26
7440-47-3	Chromium	<0.086	U	mg/kg	1	10/03/2019 18:26
7440-48-4	Cobalt	0.035	J	mg/kg	1	10/03/2019 18:26
7440-50-8	Copper	1.9		mg/kg	1	10/03/2019 18:26
7439-92-1	Lead	0.042	J	mg/kg	1	10/03/2019 18:26
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 18:26
7439-98-7	Molybdenum	0.17		mg/kg	1	10/03/2019 18:26
7440-02-0	Nickel	<0.040	U	mg/kg	1	10/03/2019 18:26
7782-49-2	Selenium	0.97		mg/kg	1	10/03/2019 18:26
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 18:26
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/03/2019 18:26
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 18:26
7440-62-2	Vanadium	0.56		mg/kg	1	10/03/2019 18:26
7440-66-6	Zinc	22.4		mg/kg	1	10/03/2019 18:26

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-L-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809013 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.019	U	mg/kg	1	10/03/2019 18:33
7440-38-2	Arsenic	<0.028	U	mg/kg	1	10/03/2019 18:33
7440-39-3	Barium	<0.028	U	mg/kg	1	10/03/2019 18:33
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 18:33
7440-42-8	Boron	<0.65	U	mg/kg	1	10/03/2019 18:33
7440-43-9	Cadmium	0.29		mg/kg	1	10/03/2019 18:33
7440-70-2	Calcium	52.6	J	mg/kg	1	10/03/2019 18:33
7440-47-3	Chromium	<0.082	U	mg/kg	1	10/03/2019 18:33
7440-48-4	Cobalt	0.069	J	mg/kg	1	10/03/2019 18:33
7440-50-8	Copper	1.8		mg/kg	1	10/03/2019 18:33
7439-92-1	Lead	0.056	J	mg/kg	1	10/03/2019 18:33
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 18:33
7439-98-7	Molybdenum	0.22		mg/kg	1	10/03/2019 18:33
7440-02-0	Nickel	<0.038	U	mg/kg	1	10/03/2019 18:33
7782-49-2	Selenium	1.2		mg/kg	1	10/03/2019 18:33
7440-22-4	Silver	<0.010	U	mg/kg	1	10/03/2019 18:33
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 18:33
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 18:33
7440-62-2	Vanadium	0.66		mg/kg	1	10/03/2019 18:33
7440-66-6	Zinc	20.7		mg/kg	1	10/03/2019 18:33

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SAMPLE NO.

CUF-FH-CC-CURU-L-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809014 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.019	U	mg/kg	1	10/03/2019 18:40
7440-38-2	Arsenic	<0.028	U	mg/kg	1	10/03/2019 18:40
7440-39-3	Barium	<0.028	U	mg/kg	1	10/03/2019 18:40
7440-41-7	Beryllium	<0.030	U	mg/kg	1	10/03/2019 18:40
7440-42-8	Boron	<0.64	U	mg/kg	1	10/03/2019 18:40
7440-43-9	Cadmium	0.35		mg/kg	1	10/03/2019 18:40
7440-70-2	Calcium	47.0	J	mg/kg	1	10/03/2019 18:40
7440-47-3	Chromium	<0.081	U	mg/kg	1	10/03/2019 18:40
7440-48-4	Cobalt	0.053	J	mg/kg	1	10/03/2019 18:40
7440-50-8	Copper	2.6		mg/kg	1	10/03/2019 18:40
7439-92-1	Lead	0.053	J	mg/kg	1	10/03/2019 18:40
7439-93-2	Lithium	<0.019	U	mg/kg	1	10/03/2019 18:40
7439-98-7	Molybdenum	0.15		mg/kg	1	10/03/2019 18:40
7440-02-0	Nickel	<0.038	U	mg/kg	1	10/03/2019 18:40
7782-49-2	Selenium	1.1		mg/kg	1	10/03/2019 18:40
7440-22-4	Silver	<0.010	U	mg/kg	1	10/03/2019 18:40
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 18:40
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 18:40
7440-62-2	Vanadium	0.54		mg/kg	1	10/03/2019 18:40
7440-66-6	Zinc	22.6		mg/kg	1	10/03/2019 18:40

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-L-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809015 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 18:47
7440-38-2	Arsenic	<0.029	U	mg/kg	1	10/03/2019 18:47
7440-39-3	Barium	<0.029	U	mg/kg	1	10/03/2019 18:47
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 18:47
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 18:47
7440-43-9	Cadmium	0.45		mg/kg	1	10/03/2019 18:47
7440-70-2	Calcium	61.6	J	mg/kg	1	10/03/2019 18:47
7440-47-3	Chromium	<0.084	U	mg/kg	1	10/03/2019 18:47
7440-48-4	Cobalt	0.058	J	mg/kg	1	10/03/2019 18:47
7440-50-8	Copper	2.2		mg/kg	1	10/03/2019 18:47
7439-92-1	Lead	0.067	J	mg/kg	1	10/03/2019 18:47
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 18:47
7439-98-7	Molybdenum	0.17		mg/kg	1	10/03/2019 18:47
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 18:47
7782-49-2	Selenium	1.6		mg/kg	1	10/03/2019 18:47
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 18:47
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 18:47
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 18:47
7440-62-2	Vanadium	0.54		mg/kg	1	10/03/2019 18:47
7440-66-6	Zinc	24.5		mg/kg	1	10/03/2019 18:47

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-L-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809016 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 18:54
7440-38-2	Arsenic	<0.029	U	mg/kg	1	10/03/2019 18:54
7440-39-3	Barium	<0.029	U	mg/kg	1	10/03/2019 18:54
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 18:54
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 18:54
7440-43-9	Cadmium	0.45		mg/kg	1	10/03/2019 18:54
7440-70-2	Calcium	47.2	J	mg/kg	1	10/03/2019 18:54
7440-47-3	Chromium	<0.084	U	mg/kg	1	10/03/2019 18:54
7440-48-4	Cobalt	0.089	J	mg/kg	1	10/03/2019 18:54
7440-50-8	Copper	2.0		mg/kg	1	10/03/2019 18:54
7439-92-1	Lead	0.062	J	mg/kg	1	10/03/2019 18:54
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 18:54
7439-98-7	Molybdenum	0.17		mg/kg	1	10/03/2019 18:54
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 18:54
7782-49-2	Selenium	1.8		mg/kg	1	10/03/2019 18:54
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 18:54
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 18:54
7440-28-0	Thallium	0.013	J	mg/kg	1	10/03/2019 18:54
7440-62-2	Vanadium	0.72		mg/kg	1	10/03/2019 18:54
7440-66-6	Zinc	24.9		mg/kg	1	10/03/2019 18:54

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-L-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809017 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.020	U	mg/kg	1	10/03/2019 19:01
7440-38-2	Arsenic	<0.028	U	mg/kg	1	10/03/2019 19:01
7440-39-3	Barium	<0.029	U	mg/kg	1	10/03/2019 19:01
7440-41-7	Beryllium	<0.031	U	mg/kg	1	10/03/2019 19:01
7440-42-8	Boron	<0.66	U	mg/kg	1	10/03/2019 19:01
7440-43-9	Cadmium	0.19		mg/kg	1	10/03/2019 19:01
7440-70-2	Calcium	49.1	J	mg/kg	1	10/03/2019 19:01
7440-47-3	Chromium	<0.083	U	mg/kg	1	10/03/2019 19:01
7440-48-4	Cobalt	0.041	J	mg/kg	1	10/03/2019 19:01
7440-50-8	Copper	1.6		mg/kg	1	10/03/2019 19:01
7439-92-1	Lead	0.038	J	mg/kg	1	10/03/2019 19:01
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 19:01
7439-98-7	Molybdenum	0.085	J	mg/kg	1	10/03/2019 19:01
7440-02-0	Nickel	<0.039	U	mg/kg	1	10/03/2019 19:01
7782-49-2	Selenium	0.81		mg/kg	1	10/03/2019 19:01
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 19:01
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 19:01
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 19:01
7440-62-2	Vanadium	0.44		mg/kg	1	10/03/2019 19:01
7440-66-6	Zinc	20.4		mg/kg	1	10/03/2019 19:01

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SAMPLE NO.

CUF-FH-RS-CURA-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809018 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.019	U	mg/kg	1	10/03/2019 19:09
7440-38-2	Arsenic	0.073	J	mg/kg	1	10/03/2019 19:09
7440-39-3	Barium	<0.028	U	mg/kg	1	10/03/2019 19:09
7440-41-7	Beryllium	<0.030	U	mg/kg	1	10/03/2019 19:09
7440-42-8	Boron	<0.64	U	mg/kg	1	10/03/2019 19:09
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 19:09
7440-70-2	Calcium	201		mg/kg	1	10/03/2019 19:09
7440-47-3	Chromium	<0.081	U	mg/kg	1	10/03/2019 19:09
7440-48-4	Cobalt	<0.017	U	mg/kg	1	10/03/2019 19:09
7440-50-8	Copper	0.29	J	mg/kg	1	10/03/2019 19:09
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 19:09
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 19:09
7439-98-7	Molybdenum	<0.033	U	mg/kg	1	10/03/2019 19:09
7440-02-0	Nickel	0.062	J	mg/kg	1	10/03/2019 19:09
7782-49-2	Selenium	0.45		mg/kg	1	10/03/2019 19:09
7440-22-4	Silver	<0.010	U	mg/kg	1	10/03/2019 19:09
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 19:09
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 19:09
7440-62-2	Vanadium	<0.031	U	mg/kg	1	10/03/2019 19:09
7440-66-6	Zinc	6.3		mg/kg	1	10/03/2019 19:09

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SAMPLE NO.

CUF-FH-RS-CURD-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809019 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/03/2019 19:16
7440-38-2	Arsenic	0.085	J	mg/kg	1	10/03/2019 19:16
7440-39-3	Barium	0.057	J	mg/kg	1	10/03/2019 19:16
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/03/2019 19:16
7440-42-8	Boron	<0.68	U	mg/kg	1	10/03/2019 19:16
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/03/2019 19:16
7440-70-2	Calcium	956		mg/kg	1	10/03/2019 19:16
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/03/2019 19:16
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/03/2019 19:16
7440-50-8	Copper	<0.28	U	mg/kg	1	10/03/2019 19:16
7439-92-1	Lead	<0.029	U	mg/kg	1	10/03/2019 19:16
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/03/2019 19:16
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/03/2019 19:16
7440-02-0	Nickel	<0.040	U	mg/kg	1	10/03/2019 19:16
7782-49-2	Selenium	0.42		mg/kg	1	10/03/2019 19:16
7440-22-4	Silver	<0.011	U	mg/kg	1	10/03/2019 19:16
7440-24-6	Strontium	0.61		mg/kg	1	10/03/2019 19:16
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/03/2019 19:16
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/03/2019 19:16
7440-66-6	Zinc	8.3		mg/kg	1	10/03/2019 19:16

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SAMPLE NO.

CUF-FH-RS-CURU-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809020 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.019	U	mg/kg	1	10/03/2019 19:23
7440-38-2	Arsenic	0.049	J	mg/kg	1	10/03/2019 19:23
7440-39-3	Barium	<0.028	U	mg/kg	1	10/03/2019 19:23
7440-41-7	Beryllium	<0.030	U	mg/kg	1	10/03/2019 19:23
7440-42-8	Boron	<0.64	U	mg/kg	1	10/03/2019 19:23
7440-43-9	Cadmium	<0.010	U	mg/kg	1	10/03/2019 19:23
7440-70-2	Calcium	187		mg/kg	1	10/03/2019 19:23
7440-47-3	Chromium	<0.081	U	mg/kg	1	10/03/2019 19:23
7440-48-4	Cobalt	<0.017	U	mg/kg	1	10/03/2019 19:23
7440-50-8	Copper	<0.26	U	mg/kg	1	10/03/2019 19:23
7439-92-1	Lead	<0.028	U	mg/kg	1	10/03/2019 19:23
7439-93-2	Lithium	<0.020	U	mg/kg	1	10/03/2019 19:23
7439-98-7	Molybdenum	<0.033	U	mg/kg	1	10/03/2019 19:23
7440-02-0	Nickel	<0.038	U	mg/kg	1	10/03/2019 19:23
7782-49-2	Selenium	0.49		mg/kg	1	10/03/2019 19:23
7440-22-4	Silver	<0.010	U	mg/kg	1	10/03/2019 19:23
7440-24-6	Strontium	<0.15	U	mg/kg	1	10/03/2019 19:23
7440-28-0	Thallium	<0.012	U	mg/kg	1	10/03/2019 19:23
7440-62-2	Vanadium	<0.031	U	mg/kg	1	10/03/2019 19:23
7440-66-6	Zinc	6.2		mg/kg	1	10/03/2019 19:23

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SAMPLE NO.

RINSE BLANK 40194809-
021-B

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809021 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	10/18/2019 04:54
7440-38-2	Arsenic	<0.030	U	mg/kg	1	10/18/2019 04:54
7440-39-3	Barium	<0.030	U	mg/kg	1	10/18/2019 04:54
7440-41-7	Beryllium	<0.032	U	mg/kg	1	10/18/2019 04:54
7440-42-8	Boron	<0.68	U	mg/kg	1	10/18/2019 04:54
7440-43-9	Cadmium	<0.011	U	mg/kg	1	10/18/2019 04:54
7440-70-2	Calcium	<24.9	U	mg/kg	1	10/18/2019 04:54
7440-47-3	Chromium	<0.087	U	mg/kg	1	10/18/2019 04:54
7440-48-4	Cobalt	<0.019	U	mg/kg	1	10/18/2019 04:54
7440-50-8	Copper	<0.28	U	mg/kg	1	10/18/2019 04:54
7439-92-1	Lead	<0.029	U	mg/kg	1	10/18/2019 04:54
7439-93-2	Lithium	<0.021	U	mg/kg	1	10/18/2019 04:54
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	10/18/2019 04:54
7440-02-0	Nickel	<0.040	U	mg/kg	1	10/18/2019 04:54
7782-49-2	Selenium	<0.050	U	mg/kg	1	10/18/2019 04:54
7440-22-4	Silver	<0.011	U	mg/kg	1	10/18/2019 04:54
7440-24-6	Strontium	<0.16	U	mg/kg	1	10/18/2019 04:54
7440-28-0	Thallium	<0.013	U	mg/kg	1	10/18/2019 04:54
7440-62-2	Vanadium	<0.033	U	mg/kg	1	10/18/2019 04:54
7440-66-6	Zinc	<1.4	U	mg/kg	1	10/18/2019 04:54

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: 237751

Continuing Calibration Verification Source: 237886

Concentration Units: ug/L Instrument ID: 40ICM2

	Initial Calibration Verification				Continuing Calibration Verification						
	10/18/2019 02:58				10/18/2019 03:42			10/18/2019 05:08			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Antimony	110	113	102.7	90-110	100	104	103.8	100	104	103.5	90-110
Arsenic	110	106	96.7	90-110	100	102	102.4	100	104	103.9	90-110
Barium	110	108	98.6	90-110	100	101	100.9	100	102	102.3	90-110
Beryllium	110	113	102.4	90-110	100	101	100.7	100	105	105.0	90-110
Boron	110	111	100.8	90-110	100	99.4	99.4	100	101	101.0	90-110
Cadmium	110	111	100.7	90-110	100	102	102.3	100	102	101.9	90-110
Calcium	5500	5510	100.2	90-110	5000	5140	102.8	5000	5100	102.0	90-110
Chromium	110	111	100.9	90-110	100	104	103.6	100	103	103.0	90-110
Cobalt	110	109	99.3	90-110	100	103	103.2	100	103	103.0	90-110
Copper	110	110	100.3	90-110	100	104	103.7	100	104	103.6	90-110
Lead	110	108	98.0	90-110	100	101	101.3	100	99.6	99.6	90-110
Lithium	110	109	99.2	90-110	100	99.5	99.5	100	102	101.6	90-110
Molybdenum	110	102	92.6	90-110	100	101	101.1	100	102	101.6	90-110
Nickel	110	110	100.5	90-110	100	104	104.5	100	104	104.1	90-110
Selenium	110	116	105.8	90-110	100	108	108.2	100	108	108.2	90-110
Silver	55	55.6	101.2	90-110	50	52.3	104.6	50	51.9	103.8	90-110
Strontium	110	110	99.8	90-110	100	102	101.8	100	102	101.7	90-110
Thallium	110	103	93.5	90-110	100	98.1	98.1	100	96.4	96.4	90-110
Vanadium	110	111	100.9	90-110	100	103	103.3	100	103	103.2	90-110
Zinc	110	109	99.2	90-110	100	102	101.6	100	101	100.9	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 237886

Concentration Units: ug/L Instrument ID: 40ICM2

	Continuing Calibration Verification									
	10/18/2019 06:35			10/18/2019 07:04			10/18/2019 07:47			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	100	106	105.7	100	105	105.2	100	104	104.3	90-110
Arsenic	100	101	101.2	100	101	100.7	100	101	100.7	90-110
Barium	100	100	100.0	100	99.4	99.4	100	99.8	99.8	90-110
Beryllium	100	104	104.3	100	106	106.1	100	102	102.5	90-110
Boron	100	101	100.7	100	101	101.2	100	101	100.6	90-110
Cadmium	100	104	103.5	100	103	103.1	100	103	102.7	90-110
Calcium	5000	5020	100.4	5000	5040	100.8	5000	4970	99.5	90-110
Chromium	100	103	103.0	100	102	102.4	100	102	102.4	90-110
Cobalt	100	100	100.4	100	100	100.5	100	101	100.7	90-110
Copper	100	101	100.6	100	100	100.5	100	101	101.3	90-110
Lead	100	102	101.5	100	101	101.4	100	101	101.3	90-110
Lithium	100	103	103.1	100	104	103.5	100	102	102.1	90-110
Molybdenum	100	101	100.9	100	101	100.8	100	101	100.6	90-110
Nickel	100	101	101.3	100	102	101.9	100	102	101.7	90-110
Selenium	100	109	109.3	100	108	107.8	100	108	108.2	90-110
Silver	50	51.6	103.1	50	51.4	102.8	50	51.7	103.5	90-110
Strontium	100	103	102.6	100	103	102.6	100	102	102.5	90-110
Thallium	100	98.4	98.4	100	98.2	98.2	100	98.2	98.2	90-110
Vanadium	100	103	102.8	100	102	101.7	100	102	102.1	90-110
Zinc	100	102	101.6	100	102	102.0	100	101	101.2	90-110

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: 237751

Continuing Calibration Verification Source: 237886

Concentration Units: ug/L Instrument ID: 40ICM2

	Initial Calibration Verification				Continuing Calibration Verification						
	10/18/2019 12:21				10/18/2019 13:04			10/18/2019 15:58			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Arsenic	110	110	100.1	90-110	100	104	104.2	100	104	104.5	90-110
Beryllium	110	109	99.2	90-110	100	98.9	98.9	100	98.7	98.7	90-110
Boron	110	109	98.8	90-110	100	99.1	99.1	100	96.9	96.9	90-110
Cadmium	110	114	103.9	90-110	100	106	106.0	100	105	105.3	90-110
Calcium	5500	5450	99.2	90-110	5000	4910	98.2	5000	4980	99.7	90-110
Chromium	110	109	99.0	90-110	100	103	102.7	100	101	101.4	90-110
Cobalt	110	111	100.5	90-110	100	103	103.3	100	103	103.1	90-110
Copper	110	112	102.3	90-110	100	106	105.8	100	106	105.5	90-110
Lithium	110	104	94.6	90-110	100	97.0	97.0	100	97.2	97.2	90-110
Molybdenum	110	102	92.7	90-110	100	101	101.4	100	101	100.7	90-110
Nickel	110	111	101.1	90-110	100	104	104.4	100	104	103.6	90-110
Selenium	110	113	102.7	90-110	100	104	104.1	100	102	102.3	90-110
Silver	55	55.7	101.3	90-110	50	52.5	105.0	50	52.5	105.0	90-110
Strontium	110	108	98.5	90-110	100	101	101.2	100	101	101.1	90-110
Vanadium	110	109	99.0	90-110	100	102	101.5	100	101	100.9	90-110
Zinc	110	116	105.3	90-110	100	106	105.7	100	105	105.2	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 237886

Concentration Units: ug/L Instrument ID: 40ICM2

	Continuing Calibration Verification									
	10/18/2019 17:24			10/18/2019 18:15			10/18/2019 18:58			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Arsenic	100	105	104.8	100	104	103.7	100	104	103.8	90-110
Beryllium	100	98.3	98.3	100	98.8	98.8	100	97.0	97.0	90-110
Boron	100	97.4	97.4	100	97.5	97.5	100	96.8	96.8	90-110
Cadmium	100	106	106.1	100	106	106.4	100	106	106.1	90-110
Calcium	5000	4960	99.3	5000	4980	99.6	5000	5010	100.2	90-110
Chromium	100	102	102.2	100	102	101.9	100	102	102.3	90-110
Cobalt	100	104	103.8	100	103	103.0	100	103	103.2	90-110
Copper	100	106	106.2	100	104	104.5	100	105	105.3	90-110
Lithium	100	96.4	96.4	100	97.1	97.1	100	95.8	95.8	90-110
Molybdenum	100	102	101.8	100	102	101.5	100	102	101.9	90-110
Nickel	100	105	104.8	100	103	103.2	100	104	103.9	90-110
Selenium	100	104	103.6	100	104	104.0	100	103	103.4	90-110
Silver	50	52.7	105.4	50	52.1	104.2	50	52.7	105.4	90-110
Strontium	100	101	101.4	100	101	101.4	100	101	101.4	90-110
Vanadium	100	101	100.8	100	101	101.3	100	102	101.9	90-110
Zinc	100	106	105.8	100	106	106.1	100	104	104.0	90-110

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: 236577

Continuing Calibration Verification Source: 236592

Concentration Units: ug/L Instrument ID: 40ICM3

	Initial Calibration Verification				Continuing Calibration Verification						
	10/03/2019 14:37				10/03/2019 15:20			10/03/2019 16:46			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Antimony	110	112	101.4	90-110	100	102	102.5	100	102	101.5	90-110
Arsenic	110	106	95.9	90-110	100	99.5	99.5	100	100	100.3	90-110
Barium	110	108	97.9	90-110	100	99.2	99.2	100	99.4	99.4	90-110
Beryllium	110	108	97.7	90-110	100	96.3	96.3	100	96.7	96.7	90-110
Boron	110	106	96.5	90-110	100	93.1	93.1	100	95.7	95.7	90-110
Cadmium	110	114	103.8	90-110	100	106	105.6	100	105	104.6	90-110
Calcium	5500	5580	101.5	90-110	5000	4940	98.8	5000	4970	99.4	90-110
Chromium	110	108	98.1	90-110	100	98.6	98.6	100	98.5	98.5	90-110
Cobalt	110	107	97.3	90-110	100	98.4	98.4	100	98.4	98.4	90-110
Copper	110	109	99.5	90-110	100	101	101.4	100	100	100.2	90-110
Lead	110	107	97.1	90-110	100	100	100.3	100	99.9	99.9	90-110
Lithium	110	102	93.1	90-110	100	93.7	93.7	100	92.8	92.8	90-110
Molybdenum	110	102	92.9	90-110	100	101	101.4	100	101	100.8	90-110
Nickel	110	108	98.0	90-110	100	100	100.2	100	99.2	99.2	90-110
Selenium	110	112	102.3	90-110	100	103	102.8	100	103	103.4	90-110
Silver	55	56.0	101.8	90-110	50	52.3	104.7	50	51.4	102.9	90-110
Strontium	110	107	96.9	90-110	100	97.4	97.4	100	97.9	97.9	90-110
Thallium	110	108	97.7	90-110	100	102	102.5	100	102	101.9	90-110
Vanadium	110	108	98.2	90-110	100	96.8	96.8	100	97.5	97.5	90-110
Zinc	110	109	99.3	90-110	100	101	100.7	100	99.8	99.8	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 236592

Concentration Units: ug/L Instrument ID: 40ICM3

	Continuing Calibration Verification									
	10/03/2019 18:11			10/03/2019 19:30			10/03/2019 20:13			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	100	103	102.7	100	102	102.5	100	103	103.0	90-110
Arsenic	100	99.5	99.5	100	99.3	99.3	100	99.4	99.4	90-110
Barium	100	99.4	99.4	100	102	102.2	100	103	102.8	90-110
Beryllium	100	98.5	98.5	100	97.6	97.6	100	98.1	98.1	90-110
Boron	100	95.6	95.6	100	94.5	94.5	100	94.4	94.4	90-110
Cadmium	100	106	105.6	100	105	104.9	100	105	105.0	90-110
Calcium	5000	5160	103.2	5000	4960	99.2	5000	4960	99.3	90-110
Chromium	100	99.3	99.3	100	98.7	98.7	100	98.6	98.6	90-110
Cobalt	100	98.4	98.4	100	97.9	97.9	100	98.2	98.2	90-110
Copper	100	101	100.8	100	101	101.0	100	101	100.8	90-110
Lead	100	100	100.2	100	99.7	99.7	100	99.9	99.9	90-110
Lithium	100	94.6	94.6	100	93.9	93.9	100	92.5	92.5	90-110
Molybdenum	100	102	101.5	100	101	101.2	100	101	101.3	90-110
Nickel	100	99.8	99.8	100	99.8	99.8	100	99.7	99.7	90-110
Selenium	100	103	102.8	100	101	101.2	100	104	103.6	90-110
Silver	50	52.0	104.0	50	51.6	103.1	50	51.8	103.6	90-110
Strontium	100	97.8	97.8	100	97.1	97.1	100	97.4	97.4	90-110
Thallium	100	102	102.4	100	102	102.2	100	101	101.4	90-110
Vanadium	100	97.7	97.7	100	98.2	98.2	100	97.6	97.6	90-110
Zinc	100	100	100.1	100	99.3	99.3	100	99.5	99.5	90-110

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237881 Analysis Date/Time: 10/18/2019 03:13

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.0	100.8	70-130
Arsenic	1.0	1.0	101.5	70-130
Barium	1.0	0.96	95.7	70-130
Beryllium	1.0	0.96	95.8	70-130
Cadmium	1.0	0.96	96.4	70-130
Chromium	1.0	0.95	95.1	70-130
Cobalt	1.0	1.0	99.7	70-130
Lead	1.0	1.0	100.6	70-130
Lithium	1.0	0.98	97.5	70-130
Molybdenum	1.0	0.96	96.4	70-130
Nickel	1.0	0.98	98.5	70-130
Selenium	1.0	1.0	102.6	70-130
Silver	0.5	0.50	99.8	70-130
Strontium	1.0	0.98	98.5	70-130
Thallium	1.0	1.0	100.1	70-130
Vanadium	1.0	0.95	95.0	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237882 Analysis Date/Time: 10/18/2019 03:20

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.9	117.7	70-130
Calcium	250	485	193.9	70-130
Copper	1.0	4.9	487.9	70-130
Zinc	5.0	4.9	97.4	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237881 Analysis Date/Time: 10/18/2019 07:19

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	0.98	97.7	70-130
Arsenic	1.0	0.91	90.9	70-130
Barium	1.0	1.0	99.9	70-130
Beryllium	1.0	1.1	108.4	70-130
Cadmium	1.0	0.97	96.8	70-130
Chromium	1.0	0.90	90.1	70-130
Cobalt	1.0	0.96	96.0	70-130
Lead	1.0	1.0	99.8	70-130
Lithium	1.0	1.0	103.1	70-130
Molybdenum	1.0	0.95	94.8	70-130
Nickel	1.0	0.92	91.5	70-130
Selenium	1.0	1.1	106.2	70-130
Silver	0.5	0.49	97.8	70-130
Strontium	1.0	0.98	97.5	70-130
Thallium	1.0	0.94	93.9	70-130
Vanadium	1.0	0.92	91.8	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237882 Analysis Date/Time: 10/18/2019 07:26

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.6	111.9	70-130
Calcium	250	463	185.3	70-130
Copper	1.0	4.7	466.9	70-130
Zinc	5.0	5.5	109.4	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237881 Analysis Date/Time: 10/18/2019 12:35

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Arsenic	1.0	1.1	111.8	70-130
Beryllium	1.0	1.0	103.3	70-130
Cadmium	1.0	1.1	105.3	70-130
Chromium	1.0	1.0	101.9	70-130
Cobalt	1.0	1.0	101.8	70-130
Lithium	1.0	1.0	102.9	70-130
Molybdenum	1.0	0.99	98.9	70-130
Nickel	1.0	0.96	95.5	70-130
Selenium	1.0	0.98	97.9	70-130
Silver	0.5	0.51	102.6	70-130
Strontium	1.0	1.0	102.4	70-130
Vanadium	1.0	1.0	101.6	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237882 Analysis Date/Time: 10/18/2019 12:42

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.0	100.0	70-130
Calcium	250	463	185.1	70-130
Copper	1.0	5.2	516.2	70-130
Zinc	5.0	4.9	98.9	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237881 Analysis Date/Time: 10/18/2019 18:29

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Arsenic	1.0	1.0	100.7	70-130
Beryllium	1.0	0.91	91.1	70-130
Cadmium	1.0	1.0	100.7	70-130
Chromium	1.0	1.0	99.5	70-130
Cobalt	1.0	1.0	104.2	70-130
Lithium	1.0	0.93	92.9	70-130
Molybdenum	1.0	0.96	96.1	70-130
Nickel	1.0	0.98	98.1	70-130
Selenium	1.0	1.0	99.7	70-130
Silver	0.5	0.50	99.6	70-130
Strontium	1.0	0.99	99.2	70-130
Vanadium	1.0	0.91	91.4	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 237882 Analysis Date/Time: 10/18/2019 18:36

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	4.7	94.9	70-130
Calcium	250	522	209.0	70-130
Copper	1.0	5.2	516.4	70-130
Zinc	5.0	4.9	97.0	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 236587 Analysis Date/Time: 10/03/2019 14:51

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.0	103.6	70-130
Arsenic	1.0	1.0	100.3	70-130
Barium	1.0	1.0	104.5	70-130
Beryllium	1.0	1.0	99.6	70-130
Cadmium	1.0	1.1	107.4	70-130
Chromium	1.0	1.0	103.0	70-130
Cobalt	1.0	1.0	99.8	70-130
Lead	1.0	1.0	101.5	70-130
Lithium	1.0	0.98	98.3	70-130
Molybdenum	1.0	0.99	98.9	70-130
Nickel	1.0	1.0	104.9	70-130
Selenium	1.0	1.1	112.4	70-130
Silver	0.5	0.53	105.2	70-130
Strontium	1.0	1.0	101.8	70-130
Thallium	1.0	1.0	104.1	70-130
Vanadium	1.0	0.96	96.0	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 236588 Analysis Date/Time: 10/03/2019 14:59

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.1	101.9	70-130
Calcium	250	502	201.0	70-130
Copper	1.0	5.0	504.7	70-130
Zinc	5.0	4.9	98.8	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 236587 Analysis Date/Time: 10/03/2019 19:44

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.0	100.2	70-130
Arsenic	1.0	1.1	107.1	70-130
Barium	1.0	1.0	100.7	70-130
Beryllium	1.0	1.1	111.8	70-130
Cadmium	1.0	1.1	105.3	70-130
Chromium	1.0	1.0	101.4	70-130
Cobalt	1.0	0.97	97.3	70-130
Lead	1.0	1.0	99.6	70-130
Lithium	1.0	0.92	92.0	70-130
Molybdenum	1.0	0.99	99.0	70-130
Nickel	1.0	1.0	101.4	70-130
Selenium	1.0	1.1	110.7	70-130
Silver	0.5	0.53	106.2	70-130
Strontium	1.0	0.98	98.5	70-130
Thallium	1.0	1.0	101.3	70-130
Vanadium	1.0	1.1	110.6	70-130

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 236588 Analysis Date/Time: 10/03/2019 19:51

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	4.1	81.0	70-130
Calcium	250	493	197.3	70-130
Copper	1.0	5.0	495.4	70-130
Zinc	5.0	4.9	98.8	70-130

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

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	
	10/18/2019 03:05	C	10/18/2019 03:49	C	10/18/2019 05:16	C	10/18/2019 06:42	C	1951520	C
Antimony	0.16	U	0.16	U	0.16	U	0.16	U	<0.021	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	<0.011	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	<0.019	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	<0.030	U
Lithium	1.0	U	1.0	U	1.0	U	1.0	U	<0.021	U
Molybdenum	0.13	U	0.13	U	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	0.014	U	-0.044		-0.044		-0.044		<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	<1.4	U

FORM III INORGANIC-2
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

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	10/18/2019 07:11	C	10/18/2019 07:55	C		C	1951521	C
Antimony			0.16	U	0.16	U			<0.021	U
Arsenic			0.14	U	0.14	U			<0.030	U
Barium			0.38	U	0.38	U			<0.031	U
Beryllium			0.22	U	0.22	U			<0.033	U
Boron			1.7	U	1.7	U			<0.70	U
Cadmium			0.10	U	0.10	U			<0.011	U
Calcium			500	U	500	U			39.1	J
Chromium			1.4	U	1.4	U			<0.088	U
Cobalt			0.10	U	0.10	U			<0.019	U
Copper			0.64	U	0.64	U			<0.28	U
Lead			0.29	U	0.29	U			<0.030	U
Lithium			1.0	U	1.0	U			<0.021	U
Molybdenum			0.13	U	0.13	U			<0.036	U
Nickel			0.65	U	0.65	U			<0.041	U
Selenium			0.81	U	0.81	U			0.12	J
Silver			-0.043		-0.037				<0.011	U
Strontium			0.24	U	0.24	U			<0.16	U
Thallium			0.11	U	0.11	U			<0.013	U
Vanadium			0.40	U	0.40	U			<0.033	U
Zinc			18.9	U	18.9	U			6.6	

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

Method Blank Matrix: _____ Instrument ID: 40ICM2

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	10/18/2019 12:28	C	10/18/2019 13:11	C	10/18/2019 16:05	C	10/18/2019 17:31	C
Arsenic	0.14	U	0.14	U	0.14	U	0.14	U
Beryllium	0.22	U	0.22	U	0.22	U	0.22	U
Boron	1.7	U	1.7	U	1.7	U	1.7	U
Cadmium	0.10	U	0.10	U	0.10	U	0.10	U
Calcium	500	U	500	U	500	U	500	U
Chromium	1.4	U	1.4	U	1.4	U	1.4	U
Cobalt	0.10	U	0.10	U	0.10	U	0.10	U
Copper	0.64	U	0.64	U	0.64	U	0.64	U
Lithium	1.0	U	1.0	U	1.0	U	1.0	U
Molybdenum	0.13	U	0.15		0.13	U	0.13	
Nickel	0.65	U	0.65	U	0.65	U	0.65	U
Selenium	0.81	U	0.81	U	0.81	U	0.81	U
Silver	0.014	U	0.014	U	0.014	U	0.025	
Strontium	0.24	U	0.24	U	0.24	U	0.24	U
Vanadium	0.40	U	0.40	U	0.40	U	0.40	U
Zinc	18.9	U	18.9	U	18.9	U	18.9	U

FORM III INORGANIC-2
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

Method Blank Matrix: _____ Instrument ID: 40ICM2

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	10/18/2019 18:22	C	10/18/2019 19:05	C		C
Arsenic			0.14	U	0.14	U		
Beryllium			0.22	U	0.22	U		
Boron			1.7	U	1.7	U		
Cadmium			0.10	U	0.10	U		
Calcium			500	U	500	U		
Chromium			1.4	U	1.4	U		
Cobalt			0.10	U	0.10	U		
Copper			0.64	U	0.64	U		
Lithium			1.0	U	1.0	U		
Molybdenum			0.13	U	0.18			
Nickel			0.65	U	0.65	U		
Selenium			0.81	U	0.81	U		
Silver			0.014	U	0.014	U		
Strontium			0.24	U	0.24	U		
Vanadium			0.40	U	0.40	U		
Zinc			18.9	U	18.9	U		

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

Method Blank Matrix: Tissue Instrument ID: 40ICM3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	10/03/2019 14:44	C	10/03/2019 15:27	C	10/03/2019 16:53	C	10/03/2019 18:19	C	1946901	C
Antimony	0.15	U	0.15	U	0.15	U	0.15	U	<0.021	U
Arsenic	0.28	U	0.28	U	0.28	U	0.28	U	<0.030	U
Barium	1.5	U	1.5	U	1.5	U	1.5	U	<0.031	U
Beryllium	0.18	U	0.18	U	0.18	U	0.18	U	<0.033	U
Boron	3.3	U	3.3	U	3.3	U	3.3	U	<0.70	U
Cadmium	0.15	U	0.15	U	0.15	U	0.15	U	<0.011	U
Calcium	69.8	U	69.8	U	69.8	U	69.8	U	<25.4	U
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	<0.088	U
Cobalt	0.12	U	0.12	U	0.12	U	0.12	U	<0.019	U
Copper	1.1	U	1.1	U	1.1	U	1.1	U	<0.28	U
Lead	0.24	U	0.24	U	0.24	U	0.24	U	<0.030	U
Lithium	0.19	U	0.19	U	0.19	U	0.19	U	<0.021	U
Molybdenum	0.44	U	0.44	U	0.44	U	0.44	U	<0.036	U
Nickel	0.40	U	0.40	U	0.40	U	0.40	U	<0.041	U
Selenium	0.32	U	0.32	U	0.32	U	0.32	U	<0.051	U
Silver	0.10	U	0.10	U	0.10	U	0.10	U	<0.011	U
Strontium	0.78	U	0.78	U	0.78	U	0.78	U	<0.16	U
Thallium	0.15	J	0.14	U	0.14	U	0.14	U	<0.013	U
Vanadium	0.32	U	0.32	U	0.32	U	0.32	U	<0.033	U
Zinc	4.6	U	4.6	U	4.6	U	4.6	U	<1.4	U

FORM III INORGANIC-2
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

Method Blank Matrix: Tissue Instrument ID: 40ICM3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)						Tissue Blank	
		C	10/03/2019 19:37	C	10/03/2019 20:20	C		C	1946902	C
Antimony			0.15	U	0.15	U			<0.021	U
Arsenic			0.28	U	0.28	U			<0.030	U
Barium			1.5	U	1.5	U			<0.031	U
Beryllium			0.18	U	0.18	U			<0.033	U
Boron			3.3	U	3.3	U			<0.70	U
Cadmium			0.15	U	0.15	U			<0.011	U
Calcium			69.8	U	69.8	U			42.7	J
Chromium			1.0	U	1.0	U			<0.088	U
Cobalt			0.12	U	0.12	U			<0.019	U
Copper			1.1	U	1.1	U			0.30	J
Lead			0.24	U	0.24	U			<0.030	U
Lithium			0.19	U	0.19	U			<0.021	U
Molybdenum			0.44	U	0.44	U			<0.036	U
Nickel			0.40	U	0.40	U			<0.041	U
Selenium			0.32	U	0.32	U			0.13	J
Silver			0.10	U	0.10	U			<0.011	U
Strontium			0.78	U	0.78	U			<0.16	U
Thallium			0.14	U	0.14	U			<0.013	U
Vanadium			0.32	U	0.32	U			<0.033	U
Zinc			4.6	U	4.6	U			6.7	

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Solution A Run Date: 10/18/2019 03:27

ICS Source: 237752,237753

Solution AB Run Date: 10/18/2019 03:34

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	48370	96.7	48730	97.5	80-120
Antimony		100	0.011		103.9	103.9	80-120
Arsenic		100	0.025		103.6	103.6	80-120
Barium		100	0.083		101.2	101.2	80-120
Beryllium		100	-0.068		95.02	95	80-120
Boron		100	0.578		93.6	93.6	80-120
Cadmium		100	-0.003		101.1	101.1	80-120
Calcium	50000	50000	50720	101.4	51400	102.8	80-120
Chromium		100	0.158		102.9	102.9	80-120
Cobalt		100	0.01		101.6	101.6	80-120
Copper		100	-0.057		98.74	98.7	80-120
Iron	50000	50000	52530	105.1	51270	102.5	80-120
Lead		100	0.002		101.9	101.9	80-120
Lithium		100	0.203		94.75	94.8	80-120
Magnesium	50000	50000	49060	98.1	49540	99.1	80-120
Molybdenum	1000	1100	1010	101	1111	101	80-120
Nickel		100	0.034		100.9	100.9	80-120
Phosphorus	50000	55000	51200	102.4	55640	101.2	80-120
Potassium	50000	50000	53240	106.5	52490	105	80-120
Selenium		100	-0.022		110.3	110.3	80-120
Silver		50	-0.038		49.4	98.8	80-120
Sodium	50000	50000	52120	104.2	51450	102.9	80-120
Strontium		100	0.403		104.2	104.2	80-120
Thallium		100	-0.045		100.1	100.1	80-120
Titanium	1000	1100	1015	101.5	1124	102.2	80-120
Vanadium		100	-0.147		104.5	104.5	80-120
Zinc		100	-0.55		100.9	100.9	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Solution A Run Date: 10/18/2019 07:33

ICS Source: 237752,237753

Solution AB Run Date: 10/18/2019 07:40

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	48180	96.4	47620	95.2	80-120
Antimony		100	0.012		104	104	80-120
Arsenic		100	0.009		102.3	102.3	80-120
Barium		100	0.081		100.4	100.4	80-120
Beryllium		100	-0.082		98.91	98.9	80-120
Boron		100	0.584		96.48	96.5	80-120
Cadmium		100	0.006		102.1	102.1	80-120
Calcium	50000	50000	51060	102.1	50770	101.5	80-120
Chromium		100	0.132		101.7	101.7	80-120
Cobalt		100	-0.002		100.1	100.1	80-120
Copper		100	-0.102		97.46	97.5	80-120
Iron	50000	50000	53470	106.9	51890	103.8	80-120
Lead		100	0.003		102.2	102.2	80-120
Lithium		100	0.194		99.36	99.4	80-120
Magnesium	50000	50000	49720	99.4	49140	98.3	80-120
Molybdenum	1000	1100	1006	100.6	1114	101.3	80-120
Nickel		100	0.047		97.88	97.9	80-120
Phosphorus	50000	55000	50400	100.8	53930	98.1	80-120
Potassium	50000	50000	53810	107.6	52530	105.1	80-120
Selenium		100	-0.122		110.8	110.8	80-120
Silver		50	-0.035		49.19	98.4	80-120
Sodium	50000	50000	53360	106.7	51980	104	80-120
Strontium		100	0.402		104.6	104.6	80-120
Thallium		100	-0.071		100.4	100.4	80-120
Titanium	1000	1100	1015	101.5	1118	101.6	80-120
Vanadium		100	-0.143		102.4	102.4	80-120
Zinc		100	-0.361		102.7	102.7	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Solution A Run Date: 10/18/2019 12:50

ICS Source: 237752,237753

Solution AB Run Date: 10/18/2019 12:57

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	47840	95.7	47380	94.8	80-120
Antimony		100	-0.013		105.5	105.5	80-120
Arsenic		100	0.013		105.3	105.3	80-120
Barium		100	0.069		101.4	101.4	80-120
Beryllium		100	-0.055		94.5	94.5	80-120
Boron		100	-0.05		92.27	92.3	80-120
Cadmium		100	0.042		104.9	104.9	80-120
Calcium	50000	50000	50550	101.1	50580	101.2	80-120
Chromium		100	0.104		101.2	101.2	80-120
Cobalt		100	0.028		101.8	101.8	80-120
Copper		100	0.048		101.4	101.4	80-120
Iron	50000	50000	54450	108.9	52670	105.3	80-120
Lead		100	-0.017		101.6	101.6	80-120
Lithium		100	0.205		93.53	93.5	80-120
Magnesium	50000	50000	47590	95.2	47220	94.4	80-120
Molybdenum	1000	1100	1015	101.5	1113	101.2	80-120
Nickel		100	-0.015		100.3	100.3	80-120
Phosphorus	50000	55000	54790	109.6	58580	106.5	80-120
Potassium	50000	50000	54020	108	52420	104.8	80-120
Selenium		100	-0.045		106.1	106.1	80-120
Silver		50	-0.044		49.86	99.7	80-120
Sodium	50000	50000	52380	104.8	51240	102.5	80-120
Strontium		100	0.395		102.7	102.7	80-120
Thallium		100	-0.089		101.9	101.9	80-120
Titanium	1000	1100	1015	101.5	1101	100.1	80-120
Vanadium		100	-0.062		102.2	102.2	80-120
Zinc		100	-0.378		105.9	105.9	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Solution A Run Date: 10/18/2019 18:44

ICS Source: 237752,237753

Solution AB Run Date: 10/18/2019 18:51

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	47110	94.2	47050	94.1	80-120
Antimony		100	-0.053		106.1	106.1	80-120
Arsenic		100	0.014		103.2	103.2	80-120
Barium		100	0.091		101.5	101.5	80-120
Beryllium		100	-0.073		92.76	92.8	80-120
Boron		100	-0.309		91.04	91	80-120
Cadmium		100	0.051		104	104	80-120
Calcium	50000	50000	50240	100.5	50770	101.5	80-120
Chromium		100	0.131		100.7	100.7	80-120
Cobalt		100	0.006		100.8	100.8	80-120
Copper		100	0.045		99.52	99.5	80-120
Iron	50000	50000	54850	109.7	52780	105.6	80-120
Lead		100	-0.022		102	102	80-120
Lithium		100	0.201		92.54	92.5	80-120
Magnesium	50000	50000	47080	94.2	46880	93.8	80-120
Molybdenum	1000	1100	1012	101.2	1114	101.3	80-120
Nickel		100	0.016		99.32	99.3	80-120
Phosphorus	50000	55000	54330	108.7	59050	107.4	80-120
Potassium	50000	50000	53740	107.5	52430	104.9	80-120
Selenium		100	-0.029		103.3	103.3	80-120
Silver		50	-0.037		49.48	99	80-120
Sodium	50000	50000	52230	104.5	51040	102.1	80-120
Strontium		100	0.407		102.1	102.1	80-120
Thallium		100	-0.137		102.1	102.1	80-120
Titanium	1000	1100	999.3	99.9	1098	99.8	80-120
Vanadium		100	-0.008		102	102	80-120
Zinc		100	-0.35		103.9	103.9	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Solution A Run Date: 10/03/2019 15:06

ICS Source: 236404,236405

Solution AB Run Date: 10/03/2019 15:13

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	46660	93.3	43950	87.9	80-120
Antimony		100	0.025		102.3	102.3	80-120
Arsenic		100	0.062		100.5	100.5	80-120
Barium		100	0.08		100.4	100.4	80-120
Beryllium		100	-0.009		88.06	88.1	80-120
Boron		100	0.734		90.18	90.2	80-120
Cadmium		100	-0.03		99.74	99.7	80-120
Calcium	50000	50000	50270	100.5	50400	100.8	80-120
Chromium		100	0.077		95.7	95.7	80-120
Cobalt		100	-0.008		95.26	95.3	80-120
Copper		100	0.146		95.49	95.5	80-120
Iron	50000	50000	52170	104.3	50330	100.7	80-120
Lead		100	-0.002		97.28	97.3	80-120
Lithium		100	0.23		87.96	88	80-120
Magnesium	50000	50000	48040	96.1	48290	96.6	80-120
Molybdenum	1000	1100	1038	103.8	1133	103	80-120
Nickel		100	0.056		95	95	80-120
Phosphorus	50000	55000	50460	100.9	55090	100.2	80-120
Potassium	50000	50000	50940	101.9	49780	99.6	80-120
Selenium		100	0.063		105	105	80-120
Silver		50	-0.023		48.42	96.8	80-120
Sodium	50000	50000	46500	93	45220	90.4	80-120
Strontium		100	0.595		98.12	98.1	80-120
Thallium		100	-0.033		100.9	100.9	80-120
Titanium	1000	1100	968.4	96.8	1077	97.9	80-120
Vanadium		100	-0.125		95.59	95.6	80-120
Zinc		100	-0.254		99.57	99.6	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Solution A Run Date: 10/03/2019 19:58

ICS Source: 236404,236405

Solution AB Run Date: 10/03/2019 20:06

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	46050	92.1	45300	90.6	80-120
Antimony		100	0.03		100.7	100.7	80-120
Arsenic		100	0.069		99.53	99.5	80-120
Barium		100	0.102		96.68	96.7	80-120
Beryllium		100	-0.02		89.55	89.6	80-120
Boron		100	0.574		89.19	89.2	80-120
Cadmium		100	-0.007		99.27	99.3	80-120
Calcium	50000	50000	49380	98.8	50100	100.2	80-120
Chromium		100	0.091		95.04	95	80-120
Cobalt		100	-0.017		93.64	93.6	80-120
Copper		100	0.116		94.42	94.4	80-120
Iron	50000	50000	52170	104.3	51160	102.3	80-120
Lead		100	0.002		95.9	95.9	80-120
Lithium		100	0.244		86.87	86.9	80-120
Magnesium	50000	50000	47590	95.2	48150	96.3	80-120
Molybdenum	1000	1100	1021	102.1	1131	102.8	80-120
Nickel		100	0.095		93.4	93.4	80-120
Phosphorus	50000	55000	50180	100.4	54840	99.7	80-120
Potassium	50000	50000	50660	101.3	50410	100.8	80-120
Selenium		100	-0.013		104.5	104.5	80-120
Silver		50	-0.018		48.08	96.2	80-120
Sodium	50000	50000	46110	92.2	45870	91.7	80-120
Strontium		100	0.59		96.99	97	80-120
Thallium		100	-0.054		99.06	99.1	80-120
Titanium	1000	1100	955.8	95.6	1065	96.8	80-120
Vanadium		100	0.001		94.9	94.9	80-120
Zinc		100	-0.261		98.08	98.1	80-120

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1951524MS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: 40194816001

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.4	<0.021	5.0	109
Arsenic	mg/kg	75-125	5.5	0.24	5.0	105
Barium	mg/kg	75-125	9.0	4.5	5.0	90
Beryllium	mg/kg	75-125	5.0	<0.033	5.0	101
Boron	mg/kg	75-125	9.9	<0.69	10.0	99
Cadmium	mg/kg	75-125	5.3	0.037J	5.0	106
Calcium	mg/kg	75-125	14000	17900	249	-1570*
Chromium	mg/kg	75-125	5.6	0.42	5.0	103
Cobalt	mg/kg	75-125	5.3	0.13	5.0	103
Copper	mg/kg	75-125	5.9	1.0	5.0	98
Lead	mg/kg	75-125	5.4	0.22	5.0	104
Lithium	mg/kg	75-125	5.1	0.092J	5.0	101
Molybdenum	mg/kg	75-125	4.9	0.049J	5.0	98
Nickel	mg/kg	75-125	5.3	0.23	5.0	102
Selenium	mg/kg	75-125	6.3	0.42	5.0	118
Silver	mg/kg	75-125	2.5	<0.011	2.5	102
Strontium	mg/kg	75-125	13.3	11.6	5.0	34*
Thallium	mg/kg	75-125	5.1	<0.013	5.0	102
Vanadium	mg/kg	75-125	5.6	0.30	5.0	106
Zinc	mg/kg	75-125	39.3	19.1	19.9	102

* Spike Recovery outside QC Limits

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FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1951525MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: 40194816001

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.4	<0.021	5.0	109
Arsenic	mg/kg	75-125	5.4	0.24	5.0	103
Barium	mg/kg	75-125	8.7	4.5	5.0	84
Beryllium	mg/kg	75-125	5.0	<0.033	5.0	100
Boron	mg/kg	75-125	9.6	<0.69	10.0	96
Cadmium	mg/kg	75-125	5.2	0.037J	5.0	104
Calcium	mg/kg	75-125	11400	17900	250	-2610*
Chromium	mg/kg	75-125	5.4	0.42	5.0	100
Cobalt	mg/kg	75-125	5.1	0.13	5.0	100
Copper	mg/kg	75-125	5.8	1.0	5.0	95
Lead	mg/kg	75-125	5.3	0.22	5.0	101
Lithium	mg/kg	75-125	4.9	0.092J	5.0	97
Molybdenum	mg/kg	75-125	4.8	0.049J	5.0	95
Nickel	mg/kg	75-125	5.2	0.23	5.0	99
Selenium	mg/kg	75-125	6.2	0.42	5.0	117
Silver	mg/kg	75-125	2.5	<0.011	2.5	101
Strontium	mg/kg	75-125	11.9	11.6	5.0	6*
Thallium	mg/kg	75-125	5.0	<0.013	5.0	99
Vanadium	mg/kg	75-125	5.5	0.30	5.0	104
Zinc	mg/kg	75-125	38.3	19.1	20.0	96

* Spike Recovery outside QC Limits

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FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1946905MS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: CUF-FH-CC-CURD-F-

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.4	<0.021	5.0	109
Arsenic	mg/kg	75-125	5.2	0.044J	5.0	103
Barium	mg/kg	75-125	5.4	<0.030	5.0	107
Beryllium	mg/kg	75-125	4.6	<0.033	5.0	93
Boron	mg/kg	75-125	8.8	<0.69	10.0	88
Cadmium	mg/kg	75-125	5.4	0.027J	5.0	108
Calcium	mg/kg	75-125	339	66.6J	249	109
Chromium	mg/kg	75-125	5.0	<0.088	5.0	99
Cobalt	mg/kg	75-125	4.9	<0.019	5.0	99
Copper	mg/kg	75-125	5.4	0.54J	5.0	97
Lead	mg/kg	75-125	5.0	<0.030	5.0	101
Lithium	mg/kg	75-125	4.4	<0.021	5.0	88
Molybdenum	mg/kg	75-125	4.8	<0.036	5.0	96
Nickel	mg/kg	75-125	5.0	<0.041	5.0	99
Selenium	mg/kg	75-125	5.9	0.18	5.0	116
Silver	mg/kg	75-125	2.0	<0.011	2.5	80
Strontium	mg/kg	75-125	5.1	<0.16	5.0	101
Thallium	mg/kg	75-125	5.1	<0.013	5.0	103
Vanadium	mg/kg	75-125	5.1	<0.033	5.0	101
Zinc	mg/kg	75-125	28.0	5.7	20.0	112

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1946906MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: CUF-FH-CC-CURD-F-

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.3	<0.021	5.0	106
Arsenic	mg/kg	75-125	5.1	0.044J	5.0	101
Barium	mg/kg	75-125	5.0	<0.030	5.0	101
Beryllium	mg/kg	75-125	4.4	<0.033	5.0	88
Boron	mg/kg	75-125	8.0	<0.69	9.9	80
Cadmium	mg/kg	75-125	5.3	0.027J	5.0	106
Calcium	mg/kg	75-125	330	66.6J	248	106
Chromium	mg/kg	75-125	4.8	<0.088	5.0	97
Cobalt	mg/kg	75-125	4.8	<0.019	5.0	96
Copper	mg/kg	75-125	5.2	0.54J	5.0	93
Lead	mg/kg	75-125	4.9	<0.030	5.0	99
Lithium	mg/kg	75-125	4.0	<0.021	5.0	82
Molybdenum	mg/kg	75-125	4.7	<0.036	5.0	94
Nickel	mg/kg	75-125	4.8	<0.041	5.0	97
Selenium	mg/kg	75-125	5.8	0.18	5.0	113
Silver	mg/kg	75-125	2.0	<0.011	2.5	80
Strontium	mg/kg	75-125	4.9	<0.16	5.0	98
Thallium	mg/kg	75-125	5.0	<0.013	5.0	101
Vanadium	mg/kg	75-125	4.9	<0.033	5.0	99
Zinc	mg/kg	75-125	26.7	5.7	19.9	106

FORM V INORGANIC-1
POST-DIGESTION SPIKE SAMPLE RECOVERY

SAMPLE NO.

1952936PDS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Matrix: Tissue Parent Sample ID: 40194816001

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	80-120	1	52.1	1	0.21U	50	104.3
Arsenic	ug/L	80-120	1	52.5	1	2.4	50	100.2
Barium	ug/L	80-120	1	93.0	1	45.4	50	95.3
Beryllium	ug/L	80-120	1	46.6	1	0.33U	50	93.3
Boron	ug/L	80-120	1	92.4	1	7.0U	100	92.4
Cadmium	ug/L	80-120	1	49.8	1	0.37J	50	98.8
Calcium	ug/L	80-120	20	11200	20	9020	2500	89.1
Chromium	ug/L	80-120	1	52.8	1	4.2	50	97.2
Cobalt	ug/L	80-120	1	49.2	1	1.3	50	95.8
Copper	ug/L	80-120	1	54.9	1	10.2	50	89.4
Lead	ug/L	80-120	1	51.0	1	2.2	50	97.6
Lithium	ug/L	80-120	1	47.2	1	0.93J	50	92.5
Molybdenum	ug/L	80-120	1	45.9	1	0.49J	50	90.9
Nickel	ug/L	80-120	1	48.7	1	2.3	50	92.8
Selenium	ug/L	80-120	1	60.5	1	4.2	50	112.7
Silver	ug/L	80-120	1	21.8	1	0.11U	25	87.1
Strontium	ug/L	80-120	1	162	1	117	50	90.6
Thallium	ug/L	80-120	1	48.0	1	0.13U	50	96.0
Vanadium	ug/L	80-120	1	52.9	1	3.0	50	99.9
Zinc	ug/L	80-120	1	389	1	192	200	98.4

FORM V INORGANIC-1
POST-DIGESTION SPIKE SAMPLE RECOVERY

SAMPLE NO.

1949507PDS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Matrix: Tissue Parent Sample ID: CUF-FH-CC-CURD-F-20190430

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	80-120	1	52.0	1	0.21U	50	103.9
Arsenic	ug/L	80-120	1	49.5	1	0.44J	50	98.0
Barium	ug/L	80-120	1	49.6	1	0.31U	50	99.1
Beryllium	ug/L	80-120	1	45.5	1	0.33U	50	91.0
Boron	ug/L	80-120	1	88.6	1	7.0U	100	88.6
Cadmium	ug/L	80-120	1	50.8	1	0.27J	50	101.0
Calcium	ug/L	80-120	1	3120	1	670J	2500	98.0
Chromium	ug/L	80-120	1	47.3	1	0.88U	50	94.6
Cobalt	ug/L	80-120	1	46.8	1	0.19U	50	93.6
Copper	ug/L	80-120	1	49.7	1	5.4J	50	88.5
Lead	ug/L	80-120	1	47.6	1	0.30U	50	95.2
Lithium	ug/L	80-120	1	42.8	1	0.21U	50	85.7
Molybdenum	ug/L	80-120	1	45.7	1	0.36U	50	91.5
Nickel	ug/L	80-120	1	47.3	1	0.41U	50	94.6
Selenium	ug/L	80-120	1	56.9	1	1.8	50	110.2
Silver	ug/L	80-120	1	24.4	1	0.11U	25	97.6
Strontium	ug/L	80-120	1	48.0	1	1.6U	50	96.0
Thallium	ug/L	80-120	1	48.4	1	0.13U	50	96.9
Vanadium	ug/L	80-120	1	47.7	1	0.33U	50	95.3
Zinc	ug/L	80-120	1	257	1	57.1	200	99.8

FORM VI INORGANIC-1
DUPLICATES

1951525MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLANDMatrix: Tissue Concentration Units: mg/kgPercent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	5.4	5.4	0
Arsenic	20	5.5	5.4	2
Barium	20	9.0	8.7	3
Beryllium	20	5.0	5.0	1
Boron	20	9.9	9.6	3
Cadmium	20	5.3	5.2	1
Calcium	20	14000	11400	20
Chromium	20	5.6	5.4	2
Cobalt	20	5.3	5.1	2
Copper	20	5.9	5.8	2
Lead	20	5.4	5.3	3
Lithium	20	5.1	4.9	4
Molybdenum	20	4.9	4.8	3
Nickel	20	5.3	5.2	2
Selenium	20	6.3	6.2	1
Silver	20	2.5	2.5	1
Strontium	20	13.3	11.9	11
Thallium	20	5.1	5.0	3
Vanadium	20	5.6	5.5	2
Zinc	20	39.3	38.3	3

FORM VI INORGANIC-1
DUPLICATES

1946906MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLANDMatrix: Tissue Concentration Units: mg/kgPercent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	5.4	5.3	3
Arsenic	20	5.2	5.1	2
Barium	20	5.4	5.0	6
Beryllium	20	4.6	4.4	6
Boron	20	8.8	8.0	9
Cadmium	20	5.4	5.3	2
Calcium	20	339	330	3
Chromium	20	5.0	4.8	3
Cobalt	20	4.9	4.8	3
Copper	20	5.4	5.2	4
Lead	20	5.0	4.9	3
Lithium	20	4.4	4.0	8
Molybdenum	20	4.8	4.7	2
Nickel	20	5.0	4.8	3
Selenium	20	5.9	5.8	3
Silver	20	2.0	2.0	1
Strontium	20	5.1	4.9	3
Thallium	20	5.1	5.0	2
Vanadium	20	5.1	4.9	3
Zinc	20	28.0	26.7	5

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1951522LCS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	5.0	5.5	110	80	120
Arsenic	mg/kg	5.0	5.5	109	80	120
Barium	mg/kg	5.0	5.2	104	80	120
Beryllium	mg/kg	5.0	4.9	97	80	120
Boron	mg/kg	10.0	10.0	100	80	120
Cadmium	mg/kg	5.0	5.4	109	80	120
Calcium	mg/kg	250	268	107	80	120
Chromium	mg/kg	5.0	5.1	102	80	120
Cobalt	mg/kg	5.0	5.2	104	80	120
Copper	mg/kg	5.0	5.6	112	80	120
Lead	mg/kg	5.0	5.1	102	80	120
Lithium	mg/kg	5.0	4.7	94	80	120
Molybdenum	mg/kg	5.0	4.9	99	80	120
Nickel	mg/kg	5.0	5.2	103	80	120
Selenium	mg/kg	5.0	5.6	113	80	120
Silver	mg/kg	2.5	2.6	106	80	120
Strontium	mg/kg	5.0	5.2	103	80	120
Thallium	mg/kg	5.0	4.9	99	80	120
Vanadium	mg/kg	5.0	5.1	103	80	120
Zinc	mg/kg	20.0	22.9	115	80	120

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1951523SRM

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Arsenic	mg/kg	59.5	68.7	115	80	126
Cadmium	mg/kg	42.3	38.2	90	80	120
Chromium	mg/kg	2.0	0.69	35	13	93
Cobalt	mg/kg	1.1	0.99	93	80	120
Copper	mg/kg	497	443	89	77	120
Lead	mg/kg	0.22	0.19	85	79	120
Molybdenum	mg/kg	3.4	2.9	84	80	120
Nickel	mg/kg	5.3	4.1	78	76	120
Selenium	mg/kg	10.9	12.7	116	80	130
Strontium	mg/kg	36.5	29.5	81	79	120
Vanadium	mg/kg	9.1	8.8	97	80	120
Zinc	mg/kg	136	125	92	80	120

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1946903LCS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	5.0	5.3	106	80	120
Arsenic	mg/kg	5.0	5.1	102	80	120
Barium	mg/kg	5.0	5.0	100	80	120
Beryllium	mg/kg	5.0	4.5	91	80	120
Boron	mg/kg	10.0	9.0	90	80	120
Cadmium	mg/kg	5.0	5.3	106	80	120
Calcium	mg/kg	250	247	99	80	120
Chromium	mg/kg	5.0	4.8	95	80	120
Cobalt	mg/kg	5.0	4.7	94	80	120
Copper	mg/kg	5.0	4.8	96	80	120
Lead	mg/kg	5.0	4.9	97	80	120
Lithium	mg/kg	5.0	4.3	87	80	120
Molybdenum	mg/kg	5.0	4.7	95	80	120
Nickel	mg/kg	5.0	4.8	95	80	120
Selenium	mg/kg	5.0	5.5	110	80	120
Silver	mg/kg	2.5	2.0	79*	80	120
Strontium	mg/kg	5.0	4.9	97	80	120
Thallium	mg/kg	5.0	5.0	99	80	120
Vanadium	mg/kg	5.0	4.8	96	80	120
Zinc	mg/kg	20.0	19.8	99	80	120

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1946904SRM

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Arsenic	mg/kg	59.5	69.3	117	80	126
Cadmium	mg/kg	42.3	41.4	98	80	120
Chromium	mg/kg	2.0	1.4	70	13	93
Cobalt	mg/kg	1.1	0.97	91	80	120
Copper	mg/kg	497	397	80	77	120
Lead	mg/kg	0.22	0.19	84	79	120
Molybdenum	mg/kg	3.4	3.0	88	80	120
Nickel	mg/kg	5.3	4.5	85	76	120
Selenium	mg/kg	10.9	12.5	115	80	130
Strontium	mg/kg	36.5	30.4	83	79	120
Vanadium	mg/kg	9.1	8.5	94	80	120
Zinc	mg/kg	136	132	97	80	120

FORM VIII INORGANIC-1
SERIAL DILUTIONS

1952937SD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLANMatrix: TissueParent Sample ID: 40194816002

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	0.21U	1.0U		10
Arsenic	ug/L	2.7	2.0J	28.1*	10
Barium	ug/L	62.6	63.0	0.7	10
Beryllium	ug/L	0.33U	1.7U		10
Boron	ug/L	7.0U	34.9U		10
Cadmium	ug/L	0.27J	0.55U		10
Calcium	ug/L	124000	126000	1.2	10
Chromium	ug/L	9.9	9.1J	7.9	10
Cobalt	ug/L	3.1	2.9J	5.5	10
Copper	ug/L	14.6	14.2U		10
Lead	ug/L	3.6	3.4J	5.4	10
Lithium	ug/L	1.8	1.6J	8.9	10
Molybdenum	ug/L	0.57J	1.8U		10
Nickel	ug/L	4.3	3.8J	13.3*	10
Selenium	ug/L	4.5	3.6J	19.5*	10
Silver	ug/L	0.11U	0.56U		10
Strontium	ug/L	80.6	84.2	4.4	10
Thallium	ug/L	0.13U	0.65U		10
Vanadium	ug/L	6.6	6.1	8.0	10
Zinc	ug/L	181	183J	1.2	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

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FORM VIII INORGANIC-1
SERIAL DILUTIONS

1949508SD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLANMatrix: Tissue Parent Sample ID: CUF-FH-CC-CURU-F-20190507

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	0.21U	1.0U		10
Arsenic	ug/L	0.30U	1.5U		10
Barium	ug/L	0.31U	1.5U		10
Beryllium	ug/L	0.33U	1.7U		10
Boron	ug/L	7.0U	34.9U		10
Cadmium	ug/L	0.11U	0.55U		10
Calcium	ug/L	1020	1270U		10
Chromium	ug/L	0.88U	4.4U		10
Cobalt	ug/L	0.19U	0.95U		10
Copper	ug/L	4.0J	14.2U		10
Lead	ug/L	0.30U	1.5U		10
Lithium	ug/L	0.21U	1.1U		10
Molybdenum	ug/L	0.36U	1.8U		10
Nickel	ug/L	0.89J	2.1U		10
Selenium	ug/L	1.8	2.5U		10
Silver	ug/L	0.11U	0.56U		10
Strontium	ug/L	1.6U	8.0U		10
Thallium	ug/L	0.13U	0.65U		10
Vanadium	ug/L	0.33U	1.7U		10
Zinc	ug/L	58.2	69.9U		10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

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FORM IX INORGANIC-1
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: EPA 3050B Instrument ID: 40ICM2

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Antimony	0.10	0.021	07/08/2019
Arsenic	0.10	0.030	07/08/2019
Barium	0.10	0.031	07/08/2019
Beryllium	0.11	0.033	07/08/2019
Boron	2.3	0.70	07/08/2019
Cadmium	0.10	0.011	07/08/2019
Calcium	84.7	25.4	07/08/2019
Chromium	0.29	0.088	07/08/2019
Cobalt	0.10	0.019	07/08/2019
Copper	0.95	0.28	07/08/2019
Lead	0.10	0.030	07/08/2019
Lithium	0.10	0.021	07/08/2019
Molybdenum	0.12	0.036	07/08/2019
Nickel	0.14	0.041	07/08/2019
Selenium	0.17	0.051	07/08/2019
Silver	0.050	0.011	07/08/2019
Strontium	0.54	0.16	07/08/2019
Thallium	0.10	0.013	07/08/2019
Vanadium	0.11	0.033	07/08/2019
Zinc	4.7	1.4	07/08/2019

FORM IX INORGANIC-1
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: None Instrument ID: 40ICM3

Concentration Units: ug/L

Analyte	PQL	IDL	IDL Date
Antimony	1.0	0.15	09/04/2018
Arsenic	1.0	0.28	09/04/2018
Barium	4.9	1.5	09/04/2018
Beryllium	1.0	0.18	09/04/2018
Boron	11.0	3.3	09/04/2018
Cadmium	1.0	0.15	09/04/2018
Calcium	250	69.8	09/04/2018
Chromium	3.4	1.0	09/04/2018
Cobalt	1.0	0.12	09/04/2018
Copper	3.6	1.1	09/04/2018
Lead	1.0	0.24	09/04/2018
Lithium	1.0	0.19	09/04/2018
Molybdenum	1.5	0.44	09/04/2018
Nickel	1.3	0.40	09/04/2018
Selenium	1.1	0.32	09/04/2018
Silver	0.50	0.10	09/04/2018
Strontium	2.6	0.78	09/04/2018
Thallium	1.0	0.14	09/04/2018
Vanadium	1.0	0.32	09/04/2018
Zinc	15.3	4.6	09/04/2018

FORM IX INORGANIC-2
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: EPA 3050B Instrument ID: 40ICM3

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Antimony	0.10	0.021	07/08/2019
Arsenic	0.10	0.030	07/08/2019
Barium	0.10	0.031	07/08/2019
Beryllium	0.11	0.033	07/08/2019
Boron	2.3	0.70	07/08/2019
Cadmium	0.10	0.011	07/08/2019
Calcium	84.7	25.4	07/08/2019
Chromium	0.29	0.088	07/08/2019
Cobalt	0.10	0.019	07/08/2019
Copper	0.95	0.28	07/08/2019
Lead	0.10	0.030	07/08/2019
Lithium	0.10	0.021	07/08/2019
Molybdenum	0.12	0.036	07/08/2019
Nickel	0.14	0.041	07/08/2019
Selenium	0.17	0.051	07/08/2019
Silver	0.050	0.011	07/08/2019
Strontium	0.54	0.16	07/08/2019
Thallium	0.10	0.013	07/08/2019
Vanadium	0.11	0.033	07/08/2019
Zinc	4.7	1.4	07/08/2019

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 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 XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND
Instrument ID: 40ICM3 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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: EPA 3050B Batch: MPRP 21339

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
1951520	1951520BLANK	10/03/2019	0.5	50
1951521	1951521SBLK	10/03/2019	0.5	50
1951522	1951522LCS	10/03/2019	0.5	50
1951523	1951523SRM	10/03/2019	0.5	50
1951524	1951524MS	10/03/2019	0.5025	50
1951525	1951525MSD	10/03/2019	0.5001	50
40194809021	RINSE BLANK 40194809-	10/03/2019	0.5105	50

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: EPA 3050B Batch: MPRP 21277

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
1946901	1946901BLANK	09/27/2019	0.5	50
1946902	1946902SBLK	09/27/2019	0.5	50
1946903	1946903LCS	09/27/2019	0.5	50
1946904	1946904SRM	09/27/2019	0.5	50
1946905	1946905MS	09/27/2019	0.5012	50
1946906	1946906MSD	09/27/2019	0.5035	50
40194809001	CUF-FH-CC-CURD-F-	09/27/2019	0.5032	50
40194809002	CUF-FH-CC-CURU-F-	09/27/2019	0.5106	50
40194809003	CUF-FH-CC-WCD-F-	09/27/2019	0.5278	50
40194809004	CUF-FH-CC-WCU-F-	09/27/2019	0.5013	50
40194809005	CUF-FH-CC-F-DUP01-	09/27/2019	0.5106	50
40194809006	CUF-FH-CC-CURA-O-	09/27/2019	0.5384	50
40194809007	CUF-FH-CC-CURD-O-	09/27/2019	0.5277	50
40194809008	CUF-FH-CC-CURU-O-	09/27/2019	0.528	50
40194809009	CUF-FH-CC-WCD-O-	09/27/2019	0.5106	50
40194809010	CUF-FH-CC-WCU-O-	09/27/2019	0.5079	50
40194809011	CUF-FH-CC-O-DUP01-	09/27/2019	0.5037	50
40194809012	CUF-FH-CC-CURA-L-	09/27/2019	0.517	50
40194809013	CUF-FH-CC-CURD-L-	09/27/2019	0.5399	50
40194809014	CUF-FH-CC-CURU-L-	09/27/2019	0.5454	50
40194809015	CUF-FH-CC-WCD-L-	09/27/2019	0.526	50
40194809016	CUF-FH-CC-WCU-L-	09/27/2019	0.5298	50
40194809017	CUF-FH-CC-L-DUP01-	09/27/2019	0.5307	50
40194809018	CUF-FH-RS-CURA-F-	09/27/2019	0.5436	50
40194809019	CUF-FH-RS-CURD-F-	09/27/2019	0.51	50
40194809020	CUF-FH-RS-CURU-F-	09/27/2019	0.5435	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Analysis Method: EPA 6020

Start Date: 10/18/2019 02:15

End Date: 10/18/2019 07:55

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
12916801CAL0	12916801CAL0	1	10/18/2019	02:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916802CAL1	12916802CAL1	1	10/18/2019	02:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916803CAL2	12916803CAL2	1	10/18/2019	02:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916804CAL3	12916804CAL3	1	10/18/2019	02:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916805CAL4	12916805CAL4	1	10/18/2019	02:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916806CAL5	12916806CAL5	1	10/18/2019	02:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916807ICV	12916807ICV	1	10/18/2019	02:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916808ICB	12916808ICB	1	10/18/2019	03:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916809CRDL	12916809CRDL	1	10/18/2019	03:13	X	X		X	X		X	X	X		X	X	X	X	X	X
12916810CRDL	12916810CRDL	1	10/18/2019	03:20			X			X				X						
12916811ICSA	12916811ICSA	1	10/18/2019	03:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916812ICSAB	12916812ICSAB	1	10/18/2019	03:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916813CCV	12916813CCV	1	10/18/2019	03:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916826CCB	12916826CCB	1	10/18/2019	03:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1951520BLANK	1951520	1	10/18/2019	03:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RINSE BLANK 40194809-	40194809021	1	10/18/2019	04:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916827CCV	12916827CCV	1	10/18/2019	05:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916828CCB	12916828CCB	1	10/18/2019	05:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1951521SBLK	1951521	1	10/18/2019	05:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1951522LCS	1951522	1	10/18/2019	05:30				X										X	X	
1951523SRM	1951523	1	10/18/2019	05:45		X					X	X	X	X		X	X	X		X
40194816001	40194816001	1	10/18/2019	05:52	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
1951524MS	1951524	1	10/18/2019	05:59	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
1951525MSD	1951525	1	10/18/2019	06:06	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
1952936PDS	1952936	1	10/18/2019	06:13	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
40194816002	40194816002	1	10/18/2019	06:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1952937SD	1952937	5	10/18/2019	06:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916829CCV	12916829CCV	1	10/18/2019	06:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916830CCB	12916830CCB	1	10/18/2019	06:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916831CCV	12916831CCV	1	10/18/2019	07:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916832CCB	12916832CCB	1	10/18/2019	07:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916833CRDL	12916833CRDL	1	10/18/2019	07:19	X	X		X	X		X	X	X		X	X	X	X	X	X
12916834CRDL	12916834CRDL	1	10/18/2019	07:26			X			X				X						
12916835ICSA	12916835ICSA	1	10/18/2019	07:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916836ICSAB	12916836ICSAB	1	10/18/2019	07:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916837CCV	12916837CCV	1	10/18/2019	07:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12916838CCB	12916838CCB	1	10/18/2019	07:55	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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Analysis Method: EPA 6020

Start Date: 10/18/2019 02:15

End Date: 10/18/2019 07:55

Sample Name	Lab Sample ID	D/F	Date	Time	Sr	TI	V	Zn
12916801CAL0	12916801CAL0	1	10/18/2019	02:15	X	X	X	X
12916802CAL1	12916802CAL1	1	10/18/2019	02:22	X	X	X	X
12916803CAL2	12916803CAL2	1	10/18/2019	02:29	X	X	X	X
12916804CAL3	12916804CAL3	1	10/18/2019	02:37	X	X	X	X
12916805CAL4	12916805CAL4	1	10/18/2019	02:44	X	X	X	X
12916806CAL5	12916806CAL5	1	10/18/2019	02:51	X	X	X	X
12916807ICV	12916807ICV	1	10/18/2019	02:58	X	X	X	X
12916808ICB	12916808ICB	1	10/18/2019	03:05	X	X	X	X
12916809CRDL	12916809CRDL	1	10/18/2019	03:13	X	X	X	
12916810CRDL	12916810CRDL	1	10/18/2019	03:20				X
12916811ICSA	12916811ICSA	1	10/18/2019	03:27	X	X	X	X
12916812ICSAB	12916812ICSAB	1	10/18/2019	03:34	X	X	X	X
12916813CCV	12916813CCV	1	10/18/2019	03:42	X	X	X	X
12916826CCB	12916826CCB	1	10/18/2019	03:49	X	X	X	X
1951520BLANK	1951520	1	10/18/2019	03:56	X	X	X	X
RINSE BLANK 40194809-	40194809021	1	10/18/2019	04:54	X	X	X	X
12916827CCV	12916827CCV	1	10/18/2019	05:08	X	X	X	X
12916828CCB	12916828CCB	1	10/18/2019	05:16	X	X	X	X
1951521SBLK	1951521	1	10/18/2019	05:23	X	X	X	X
1951522LCS	1951522	1	10/18/2019	05:30		X		
1951523SRM	1951523	1	10/18/2019	05:45	X		X	X
40194816001	40194816001	1	10/18/2019	05:52	X	X	X	X
1951524MS	1951524	1	10/18/2019	05:59	X	X	X	X
1951525MSD	1951525	1	10/18/2019	06:06	X	X	X	X
1952936PDS	1952936	1	10/18/2019	06:13	X	X	X	X
40194816002	40194816002	1	10/18/2019	06:21	X	X	X	X
1952937SD	1952937	5	10/18/2019	06:28	X	X	X	X
12916829CCV	12916829CCV	1	10/18/2019	06:35	X	X	X	X
12916830CCB	12916830CCB	1	10/18/2019	06:42	X	X	X	X
12916831CCV	12916831CCV	1	10/18/2019	07:04	X	X	X	X
12916832CCB	12916832CCB	1	10/18/2019	07:11	X	X	X	X
12916833CRDL	12916833CRDL	1	10/18/2019	07:19	X	X	X	
12916834CRDL	12916834CRDL	1	10/18/2019	07:26				X
12916835ICSA	12916835ICSA	1	10/18/2019	07:33	X	X	X	X
12916836ICSAB	12916836ICSAB	1	10/18/2019	07:40	X	X	X	X
12916837CCV	12916837CCV	1	10/18/2019	07:47	X	X	X	X
12916838CCB	12916838CCB	1	10/18/2019	07:55	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2

Analysis Method: EPA 6020

Start Date: 10/18/2019 11:37

End Date: 10/18/2019 19:05

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	B	Be	Ca	Cd	Co	Cr	Cu	Li	Mo	Ni	Se	Sr	V	Zn
12921313CAL0	12921313CAL0	1	10/18/2019	11:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921314CAL1	12921314CAL1	1	10/18/2019	11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921315CAL2	12921315CAL2	1	10/18/2019	11:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921316CAL3	12921316CAL3	1	10/18/2019	11:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921317CAL4	12921317CAL4	1	10/18/2019	12:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921318CAL5	12921318CAL5	1	10/18/2019	12:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921319ICV	12921319ICV	1	10/18/2019	12:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921320ICB	12921320ICB	1	10/18/2019	12:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921321CRDL	12921321CRDL	1	10/18/2019	12:35	X	X		X		X	X	X		X	X	X	X	X	X	
12921322CRDL	12921322CRDL	1	10/18/2019	12:42			X		X				X							X
12921323ICSA	12921323ICSA	1	10/18/2019	12:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921324ICSAB	12921324ICSAB	1	10/18/2019	12:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921325CCV	12921325CCV	1	10/18/2019	13:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921326CCB	12921326CCB	1	10/18/2019	13:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921329CCV	12921329CCV	1	10/18/2019	15:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921330CCB	12921330CCB	1	10/18/2019	16:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1951522LCS	1951522	1	10/18/2019	17:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921331CCV	12921331CCV	1	10/18/2019	17:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921332CCB	12921332CCB	1	10/18/2019	17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40194816001	40194816001	20	10/18/2019	17:39					X											
1951524MS	1951524	20	10/18/2019	17:46					X											
1951525MSD	1951525	20	10/18/2019	17:53					X											
1952936PDS	1952936	20	10/18/2019	18:00					X											
12921333CCV	12921333CCV	1	10/18/2019	18:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921334CCB	12921334CCB	1	10/18/2019	18:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921335CRDL	12921335CRDL	1	10/18/2019	18:29	X	X		X		X	X	X		X	X	X	X	X	X	
12921336CRDL	12921336CRDL	1	10/18/2019	18:36			X		X				X							X
12921337ICSA	12921337ICSA	1	10/18/2019	18:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921338ICSAB	12921338ICSAB	1	10/18/2019	18:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921339CCV	12921339CCV	1	10/18/2019	18:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12921340CCB	12921340CCB	1	10/18/2019	19:05	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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Analysis Method: EPA 6020

Start Date: 10/03/2019 13:54

End Date: 10/03/2019 20:20

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
12845089CAL0	12845089CAL0	1	10/03/2019	13:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845090CAL1	12845090CAL1	1	10/03/2019	14:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845091CAL2	12845091CAL2	1	10/03/2019	14:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845092CAL3	12845092CAL3	1	10/03/2019	14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845093CAL4	12845093CAL4	1	10/03/2019	14:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845094CAL5	12845094CAL5	1	10/03/2019	14:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845095ICV	12845095ICV	1	10/03/2019	14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845096ICB	12845096ICB	1	10/03/2019	14:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845097CRDL	12845097CRDL	1	10/03/2019	14:51	X	X		X	X		X	X	X		X	X	X	X	X	X
12845098CRDL	12845098CRDL	1	10/03/2019	14:59			X			X				X						
12845099ICSA	12845099ICSA	1	10/03/2019	15:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845100ICSAB	12845100ICSAB	1	10/03/2019	15:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845101CCV	12845101CCV	1	10/03/2019	15:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845102CCB	12845102CCB	1	10/03/2019	15:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946901BLANK	1946901	1	10/03/2019	15:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946902SBLK	1946902	1	10/03/2019	15:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946903LCS	1946903	1	10/03/2019	15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946904SRM	1946904	1	10/03/2019	16:03		X					X	X	X	X		X	X	X		X
CUF-FH-CC-CURD-F-	40194809001	1	10/03/2019	16:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946905MS	1946905	1	10/03/2019	16:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1946906MSD	1946906	1	10/03/2019	16:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1949507PDS	1949507	1	10/03/2019	16:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURU-F-	40194809002	1	10/03/2019	16:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845103CCV	12845103CCV	1	10/03/2019	16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845104CCB	12845104CCB	1	10/03/2019	16:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1949508SD	1949508	5	10/03/2019	17:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCD-F-	40194809003	1	10/03/2019	17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCU-F-	40194809004	1	10/03/2019	17:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-F-DUP01-	40194809005	1	10/03/2019	17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURA-O-	40194809006	1	10/03/2019	17:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURD-O-	40194809007	1	10/03/2019	17:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURU-O-	40194809008	1	10/03/2019	17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCD-O-	40194809009	1	10/03/2019	17:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCU-O-	40194809010	1	10/03/2019	17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-O-DUP01-	40194809011	1	10/03/2019	18:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845105CCV	12845105CCV	1	10/03/2019	18:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845106CCB	12845106CCB	1	10/03/2019	18:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURA-L-	40194809012	1	10/03/2019	18:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURD-L-	40194809013	1	10/03/2019	18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-CURU-L-	40194809014	1	10/03/2019	18:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCD-L-	40194809015	1	10/03/2019	18:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-WCU-L-	40194809016	1	10/03/2019	18:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-CC-L-DUP01-	40194809017	1	10/03/2019	19:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-RS-CURA-F-	40194809018	1	10/03/2019	19:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CUF-FH-RS-CURD-F-	40194809019	1	10/03/2019	19:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

10/24/2019 10:50

FORM XIII INORGANIC-2
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Analysis Method: EPA 6020

Start Date: 10/03/2019 13:54

End Date: 10/03/2019 20:20

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
CUF-FH-RS-CURU-F-	40194809020	1	10/03/2019	19:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845107CCV	12845107CCV	1	10/03/2019	19:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845108CCB	12845108CCB	1	10/03/2019	19:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845109CRDL	12845109CRDL	1	10/03/2019	19:44	X	X		X	X		X	X	X		X	X	X	X	X	X
12845110CRDL	12845110CRDL	1	10/03/2019	19:51			X			X				X						
12845111ICSA	12845111ICSA	1	10/03/2019	19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845112ICSAB	12845112ICSAB	1	10/03/2019	20:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845113CCV	12845113CCV	1	10/03/2019	20:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12845114CCB	12845114CCB	1	10/03/2019	20:20	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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Analysis Method: EPA 6020

Start Date: 10/03/2019 13:54

End Date: 10/03/2019 20:20

Sample Name	Lab Sample ID	D/F	Date	Time	Sr	Tl	V	Zn
12845089CAL0	12845089CAL0	1	10/03/2019	13:54	X	X	X	X
12845090CAL1	12845090CAL1	1	10/03/2019	14:02	X	X	X	X
12845091CAL2	12845091CAL2	1	10/03/2019	14:09	X	X	X	X
12845092CAL3	12845092CAL3	1	10/03/2019	14:16	X	X	X	X
12845093CAL4	12845093CAL4	1	10/03/2019	14:23	X	X	X	X
12845094CAL5	12845094CAL5	1	10/03/2019	14:30	X	X	X	X
12845095ICV	12845095ICV	1	10/03/2019	14:37	X	X	X	X
12845096ICB	12845096ICB	1	10/03/2019	14:44	X	X	X	X
12845097CRDL	12845097CRDL	1	10/03/2019	14:51	X	X	X	
12845098CRDL	12845098CRDL	1	10/03/2019	14:59				X
12845099ICSA	12845099ICSA	1	10/03/2019	15:06	X	X	X	X
12845100ICSAB	12845100ICSAB	1	10/03/2019	15:13	X	X	X	X
12845101CCV	12845101CCV	1	10/03/2019	15:20	X	X	X	X
12845102CCB	12845102CCB	1	10/03/2019	15:27	X	X	X	X
1946901BLANK	1946901	1	10/03/2019	15:34	X	X	X	X
1946902SBLK	1946902	1	10/03/2019	15:41	X	X	X	X
1946903LCS	1946903	1	10/03/2019	15:49	X	X	X	X
1946904SRM	1946904	1	10/03/2019	16:03	X		X	X
CUF-FH-CC-CURD-F-	40194809001	1	10/03/2019	16:10	X	X	X	X
1946905MS	1946905	1	10/03/2019	16:17	X	X	X	X
1946906MSD	1946906	1	10/03/2019	16:24	X	X	X	X
1949507PDS	1949507	1	10/03/2019	16:31	X	X	X	X
CUF-FH-CC-CURU-F-	40194809002	1	10/03/2019	16:38	X	X	X	X
12845103CCV	12845103CCV	1	10/03/2019	16:46	X	X	X	X
12845104CCB	12845104CCB	1	10/03/2019	16:53	X	X	X	X
1949508SD	1949508	5	10/03/2019	17:00	X	X	X	X
CUF-FH-CC-WCD-F-	40194809003	1	10/03/2019	17:07	X	X	X	X
CUF-FH-CC-WCU-F-	40194809004	1	10/03/2019	17:14	X	X	X	X
CUF-FH-CC-F-DUP01-	40194809005	1	10/03/2019	17:21	X	X	X	X
CUF-FH-CC-CURA-O-	40194809006	1	10/03/2019	17:29	X	X	X	X
CUF-FH-CC-CURD-O-	40194809007	1	10/03/2019	17:36	X	X	X	X
CUF-FH-CC-CURU-O-	40194809008	1	10/03/2019	17:43	X	X	X	X
CUF-FH-CC-WCD-O-	40194809009	1	10/03/2019	17:50	X	X	X	X
CUF-FH-CC-WCU-O-	40194809010	1	10/03/2019	17:57	X	X	X	X
CUF-FH-CC-O-DUP01-	40194809011	1	10/03/2019	18:04	X	X	X	X
12845105CCV	12845105CCV	1	10/03/2019	18:11	X	X	X	X
12845106CCB	12845106CCB	1	10/03/2019	18:19	X	X	X	X
CUF-FH-CC-CURA-L-	40194809012	1	10/03/2019	18:26	X	X	X	X
CUF-FH-CC-CURD-L-	40194809013	1	10/03/2019	18:33	X	X	X	X
CUF-FH-CC-CURU-L-	40194809014	1	10/03/2019	18:40	X	X	X	X
CUF-FH-CC-WCD-L-	40194809015	1	10/03/2019	18:47	X	X	X	X
CUF-FH-CC-WCU-L-	40194809016	1	10/03/2019	18:54	X	X	X	X
CUF-FH-CC-L-DUP01-	40194809017	1	10/03/2019	19:01	X	X	X	X
CUF-FH-RS-CURA-F-	40194809018	1	10/03/2019	19:09	X	X	X	X
CUF-FH-RS-CURD-F-	40194809019	1	10/03/2019	19:16	X	X	X	X

10/24/2019 10:50

FORM XIII INORGANIC-2
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3

Analysis Method: EPA 6020

Start Date: 10/03/2019 13:54

End Date: 10/03/2019 20:20

Sample Name	Lab Sample ID	D/F	Date	Time	Sr	TI	V	Zn
CUF-FH-RS-CURU-F-	40194809020	1	10/03/2019	19:23	X	X	X	X
12845107CCV	12845107CCV	1	10/03/2019	19:30	X	X	X	X
12845108CCB	12845108CCB	1	10/03/2019	19:37	X	X	X	X
12845109CRDL	12845109CRDL	1	10/03/2019	19:44	X	X	X	
12845110CRDL	12845110CRDL	1	10/03/2019	19:51				X
12845111ICSA	12845111ICSA	1	10/03/2019	19:58	X	X	X	X
12845112ICSAB	12845112ICSAB	1	10/03/2019	20:06	X	X	X	X
12845113CCV	12845113CCV	1	10/03/2019	20:13	X	X	X	X
12845114CCB	12845114CCB	1	10/03/2019	20:20	X	X	X	X

Performance Report

Sample details

Acquired at : 10/17/2019 8:58:55 AM

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

Mass Calibration verification

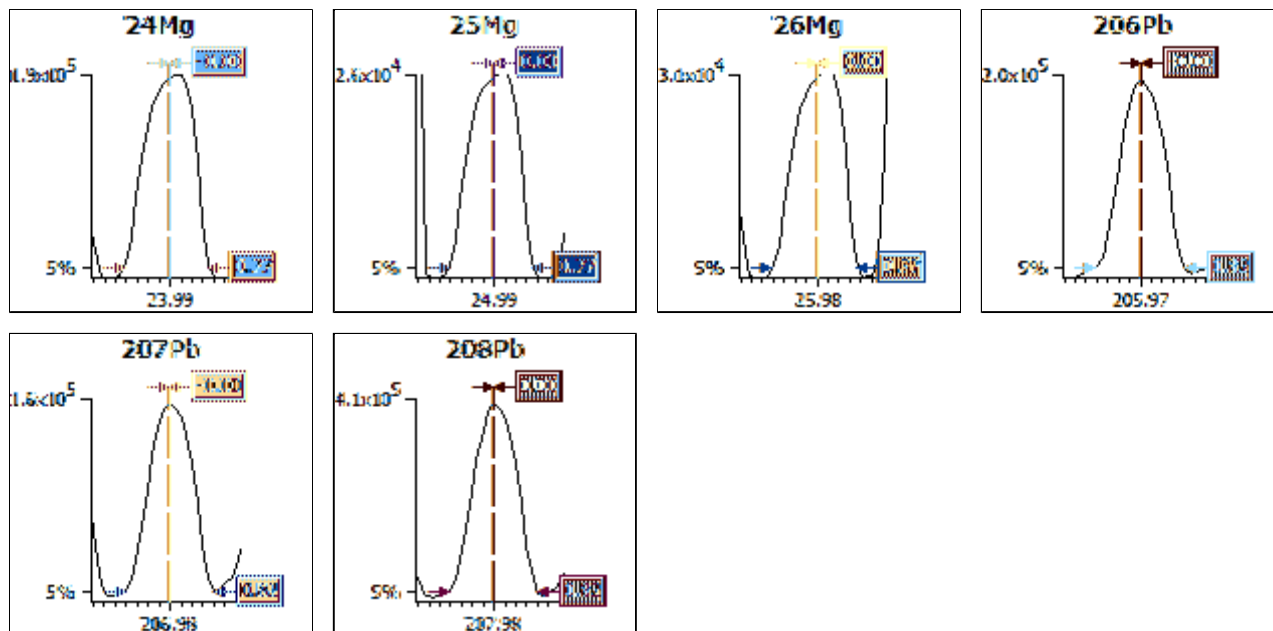
Acquisition parameters

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	-0.00
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 : 10/17/2019 8:58:55 AM

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

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-141.2	Lens 3	-185.1	Standard resolution	145	CCT-He	0.00
Lens 1	-1239	Forward power	1404	High resolution	60	CCT-He	0.00
Lens 2	-80.0	Horizontal	51	Analogue Detector	2343		
Focus	13.5	Vertical	259	PC Detector	4233		
D1	-54.1	DA	-23.5				
D2	-169	Cool	13.0				
Pole Bias	0.1	Auxiliary	0.70				
Hexapole Bias	-3.5	Sampling Depth	145				
Nebuliser	0.86						

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	8:59:19 AM	0.057	109296.32	193364.13	26310.798	30900.999	224415.63	1517.207	529501.43	64639.638
2	9:00:04 AM	0.057	108244.22	191033.53	25738.536	30569.000	223186.07	1477.204	518002.89	63767.941
3	9:00:49 AM	0.000	107238.18	189563.71	25332.241	30325.728	221976.86	1477.204	515000.76	64177.977
4	9:01:35 AM	0.000	109241.70	191059.52	25632.669	30474.553	220426.40	1437.201	516047.48	63191.612
5	9:02:21 AM	0.000	108339.08	192809.61	25584.028	30317.142	221352.03	1431.486	510549.94	63094.125
x		0.023	108471.90	191566.10	25719.654	30517.484	222271.40	1468.060	517820.50	63774.258
σ		0.03	846.14	1527.18	362.58	239.00	1562.88	34.90	7078.72	654.59
%RSD		136.931	0.780	0.797	1.410	0.783	0.703	2.377	1.367	1.026

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	8:59:19 AM	419993.06	570982.07	10903.328	190531.06	160235.70	397936.47	0.057	849849.97
2	9:00:04 AM	416416.46	563321.59	10800.408	186765.89	157696.10	390912.42	0.000	832273.33
3	9:00:49 AM	410668.48	561205.06	9702.635	184837.41	155067.52	389376.55	0.114	820402.50
4	9:01:35 AM	410025.38	557258.60	10606.006	185651.50	157505.86	391937.38	0.114	828417.23
5	9:02:21 AM	410346.93	555198.76	10891.892	184603.58	156684.40	386457.01	0.057	823231.18
x		413490.06	561593.22	10580.854	186477.89	157437.92	391323.97	0.069	830834.84
σ		4491.59	6143.42	505.18	2418.59	1876.53	4235.28	0.05	11577.33
%RSD		1.086	1.094	4.774	1.297	1.192	1.082	69.722	1.393

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0200
1	8:59:19 AM	0.023	0.019
2	9:00:04 AM	0.023	0.019
3	9:00:49 AM	0.023	0.017
4	9:01:35 AM	0.023	0.019
5	9:02:21 AM	0.023	0.020
x		0.0230	0.0188
σ		0.00	0.00
%RSD		1.3940	4.7650

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 10/17/2019 9:07:28 AM

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

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-141.2	Lens 3	-195.3	Standard resolution	145	CCT-He	0.00
Lens 1	-1239	Forward power	1404	High resolution	60	CCT-He	0.31
Lens 2	-80.0	Horizontal	51	Analogue Detector	2343		
Focus	8.6	Vertical	259	PC Detector	4233		
D1	-50.2	DA	-23.5				
D2	-143	Cool	13.0				
Pole Bias	-9.0	Auxiliary	0.70				
Hexapole Bias	-4.0	Sampling Depth	145				
Nebuliser	0.86						

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	9:07:29 AM	36784.514	11056.755	15629.059
2	9:07:32 AM	36417.096	11038.967	15355.488
3	9:07:35 AM	37036.145	10843.291	15477.816
4	9:07:38 AM	36964.886	10990.047	15686.887
5	9:07:42 AM	37109.631	10872.198	15662.421
x		36862.454	10960.252	15562.334
σ		276.67	97.25	141.34
%RSD		0.751	0.887	0.908

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 10/17/2019 9:18:06 AM

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

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-141.2	Lens 3	-195.3	Standard resolution	145	CCT-He	0.00
Lens 1	-1239	Forward power	1404	High resolution	60	CCT-He	3.84
Lens 2	-80.0	Horizontal	51	Analogue Detector	2343		
Focus	-9.4	Vertical	259	PC Detector	4233		
D1	-58.8	DA	-23.5				
D2	-143	Cool	13.0				
Pole Bias	-17.0	Auxiliary	0.70				
Hexapole Bias	-20.0	Sampling Depth	145				
Nebuliser	0.86						

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	9:18:07 AM	11.714	165601.47	281077.71	3013.969
2	9:18:15 AM	8.000	165673.56	279435.09	2995.108
3	9:18:23 AM	9.429	163709.86	278744.42	3055.690
4	9:18:30 AM	11.714	163236.99	280500.17	3105.413
5	9:18:38 AM	7.714	163522.44	280015.51	3179.140
x		9.714	164348.86	279954.58	3069.864
σ		1.94	1188.63	907.90	74.36
%RSD		19.948	0.723	0.324	2.422

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0200
1	9:18:07 AM	0.011
2	9:18:15 AM	0.011
3	9:18:23 AM	0.011
4	9:18:30 AM	0.011
5	9:18:38 AM	0.011
x		0.0110
σ		0.00
%RSD		2.4193

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 10/2/2019 11:47:44 AM

Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

Mass Calibration verification

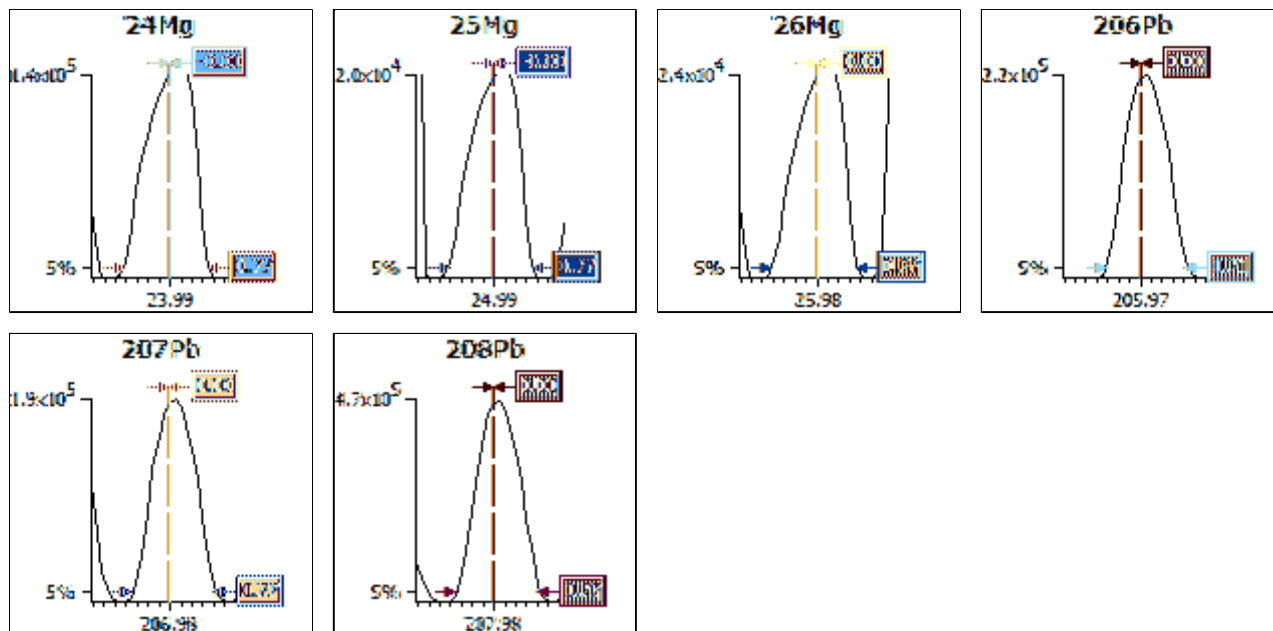
Acquisition parameters

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	-0.00
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	0.71	0.00
207Pb	0.85	0.65	0.10	0.77	0.00
208Pb	0.85	0.65	0.10	0.77	0.00

Sample details

Acquired at : 10/2/2019 11:47:44 AM

Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-145.1	Lens 3	-185.9	Standard resolution	135	CCT-He	0.00
Lens 1	-1082	Forward power	1404	High resolution	60	CCT-He	0.00
Lens 2	-80.0	Horizontal	26	Analogue Detector	1880		
Focus	12.4	Vertical	416	PC Detector	2950		
D1	-53.3	DA	-34.5				
D2	-160	Cool	13.0				
Pole Bias	0.1	Auxiliary	0.70				
Hexapole Bias	-3.5	Sampling Depth	145				
Nebuliser	0.73						

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%	-	-
	CountRate	<1	>60000	>10000	>10000	>10000	>150000	-	>400000	-
1	11:48:08 AM	0.000	66795.047	147924.49	19782.014	23484.136	268756.12	1545.831	570155.89	66783.544
2	11:48:53 AM	0.000	67108.522	147165.05	20303.036	23865.018	267190.07	1540.116	562810.18	66674.261
3	11:49:39 AM	0.000	66263.024	148052.03	19621.705	23134.767	264999.77	1817.305	565181.73	66464.327
4	11:50:24 AM	0.000	66441.320	148452.06	19830.679	23120.449	265952.65	1480.107	564499.78	65659.139
5	11:51:10 AM	0.000	67134.406	148979.67	19876.483	23601.549	265776.73	1708.714	562942.92	65984.082
x		0.000	66748.464	148114.66	19882.783	23441.184	266535.07	1618.415	565118.10	66313.070
σ		0.00	390.75	671.55	253.81	317.79	1469.14	139.86	2992.64	477.11
%RSD		0.000	0.585	0.453	1.277	1.356	0.551	8.642	0.530	0.719

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	11:48:08 AM	439934.90	622924.85	11586.574	214356.66	180953.22	450405.76	0.000	938350.92
2	11:48:53 AM	435421.66	609488.79	10877.223	213653.57	179228.90	444828.94	0.000	930779.50
3	11:49:39 AM	437356.09	611904.26	10496.825	211926.69	177135.67	441700.19	0.000	925361.25
4	11:50:24 AM	436047.55	610682.82	10634.110	211594.18	177839.18	442022.27	0.057	918301.36
5	11:51:10 AM	436479.74	612483.20	10022.062	212953.45	178141.53	441291.64	0.000	924892.95
x		437047.99	613496.78	10723.359	212896.91	178659.70	444049.76	0.011	927537.20
σ		1760.53	5395.24	574.44	1155.97	1487.33	3815.90	0.03	7491.27
%RSD		0.403	0.879	5.357	0.543	0.832	0.859	223.607	0.808

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0200
1	11:48:08 AM	0.023	0.019
2	11:48:53 AM	0.023	0.018
3	11:49:39 AM	0.027	0.017
4	11:50:24 AM	0.023	0.017
5	11:51:10 AM	0.026	0.016
x		0.0244	0.0175
σ		0.00	0.00
%RSD		8.5973	4.7424

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 10/2/2019 11:54:43 AM

Report name : Xt CCT 40ICM3 SN 01780C [9/19/2010 3:56:56 PM]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-145.1	Lens 3	-195.3	Standard resolution	135	CCT-He	0.00
Lens 1	-1082	Forward power	1404	High resolution	60	CCT-He	0.31
Lens 2	-80.0	Horizontal	26	Analogue Detector	1880		
Focus	11.0	Vertical	416	PC Detector	2950		
D1	-46.3	DA	-34.5				
D2	-143	Cool	13.0				
Pole Bias	-9.0	Auxiliary	0.70				
Hexapole Bias	-4.0	Sampling Depth	145				
Nebuliser	0.73						

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	11:54:45 AM	17040.884	5103.498	8216.640
2	11:54:48 AM	17363.650	5196.879	8358.978
3	11:54:51 AM	17234.542	5139.072	8281.137
4	11:54:54 AM	17490.533	5143.518	8163.264
5	11:54:57 AM	17314.678	5288.037	8194.400
x		17288.857	5174.201	8242.884
σ		166.86	71.85	77.97
%RSD		0.965	1.389	0.946

Result : The performance report passed.

Performance Report

Sample details

Acquired at : 10/2/2019 12:07:43 PM

Report name : Xt CCT-KED 40ICM3 SN01780C [9/19/2010 3:57:39 PM]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-145.1	Lens 3	-195.3	Standard resolution	135	CCT-He	0.00
Lens 1	-1082	Forward power	1404	High resolution	60	CCT-He	3.41
Lens 2	-80.0	Horizontal	26	Analogue Detector	1880		
Focus	-5.7	Vertical	416	PC Detector	2950		
D1	-57.3	DA	-34.5				
D2	-143	Cool	13.0				
Pole Bias	-17.0	Auxiliary	0.70				
Hexapole Bias	-20.0	Sampling Depth	145				
Nebuliser	0.73						

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%	-	-
	Count rate	<20	>100000	-	-
1	12:07:44 PM	4.571	146663.62	264650.89	2493.447
2	12:07:51 PM	4.571	145029.08	265524.58	2515.739
3	12:08:00 PM	7.714	145594.19	268251.67	2393.995
4	12:08:07 PM	4.857	147449.11	268281.00	2532.886
5	12:08:15 PM	4.286	146881.00	267729.66	2514.024
x		5.200	146323.40	266887.56	2490.018
σ		1.42	987.54	1686.12	55.47
%RSD		27.307	0.675	0.632	2.228

Ratio results

Run	Time	156Ce O / 140Ce
Ratio limits		<0.0200
1	12:07:44 PM	0.009
2	12:07:51 PM	0.009
3	12:08:00 PM	0.009
4	12:08:07 PM	0.009
5	12:08:15 PM	0.009
x		0.0093
σ		0.00
%RSD		2.4544

Result : The performance report passed.

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2 Start Date: 10/18/2019 02:15 End Date: 10/18/2019 07:55

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12916801CAL0	02:15	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12916802CAL1	02:22	100.1	103.6	101.6	100.5	100.6	99.9	100.7
12916803CAL2	02:29	99.4	104.2	101.9	101.2	101.1	99.8	100.7
12916804CAL3	02:37	105.3	113.1	108.9	108.1	111.1	106.5	108.4
12916805CAL4	02:44	103.2	120.7	116.4	115.5	121.3	114.1	116.2
12916806CAL5	02:51	109.0	118.6	116.7	116.9	123.8	115.5	116.2
12916807ICV	02:58	111.1	121.9	116.3	118.9	119.9	113.6	116.5
12916808ICB	03:05	104.3	112.4	108.9	115.6	114.0	106.5	110.8
12916809CRDL	03:13	104.1	116.7	112.0	117.4	117.5	106.3	112.9
12916810CRDL	03:20	104.9	118.8	112.6	118.8	118.1	107.1	113.2
12916811ICSA	03:27	95.4	101.5	102.4	106.1	104.3	101.4	99.8
12916812ICSAB	03:34	99.4	102.8	103.6	105.0	103.3	104.0	101.0
12916813CCV	03:42	110.3	117.8	114.2	113.2	117.0	112.2	114.2
12916826CCB	03:49	105.9	115.0	111.4	119.8	118.3	108.1	113.8
1951520BLANK	03:56	105.0	116.3	110.2	116.4	114.6	105.6	110.7
RINSE BLANK	04:54	104.0	112.5	108.0	109.0	109.8	102.8	108.1
12916827CCV	05:08	108.9	121.6	116.1	117.7	122.3	110.4	116.7
12916828CCB	05:16	104.8	118.3	113.2	123.0	122.9	107.7	116.4
1951521SBLK	05:23	107.1	121.9	115.8	121.6	123.7	109.9	117.8
1951522LCS	05:30	109.5	130.8	123.1	135.7	133.7	117.5	127.3
1951523SRM	05:45	100.5	115.4	111.8	120.3	116.9	111.9	124.4
40194816001	05:52	95.7	93.0	96.0	99.2	92.3	98.9	96.1
1951524MS	05:59	93.8	91.7	93.5	94.6	90.6	97.9	94.1
1951525MSD	06:06	93.4	91.6	92.1	92.7	89.2	96.3	92.9
1952936PDS	06:13	89.9	86.4	88.9	89.5	86.3	94.4	90.0
40194816002	06:21	92.4	85.8	88.5	85.3	84.5	92.7	91.0
1952937SD	06:28	93.2	86.5	88.1	84.8	83.0	90.3	86.3
12916829CCV	06:35	95.1	87.4	89.2	82.7	84.0	92.4	86.0
12916830CCB	06:42	92.9	87.9	89.1	88.9	86.8	91.1	88.3
12916831CCV	07:04	94.4	85.8	87.8	80.9	82.2	91.4	84.5
12916832CCB	07:11	93.0	87.3	89.0	88.0	86.8	90.9	88.0
12916833CRDL	07:19	91.0	87.5	88.1	86.9	85.2	88.8	85.9
12916834CRDL	07:26	91.0	88.0	88.1	86.7	85.1	88.9	85.7
12916835ICSA	07:33	85.3	81.0	84.9	81.8	81.0	87.6	81.1
12916836ICSAB	07:40	91.4	86.5	89.8	86.3	86.4	93.4	85.6
12916837CCV	07:47	100.1	94.4	95.3	89.5	90.7	98.0	92.4
12916838CCB	07:55	97.2	93.8	93.9	95.2	93.3	95.0	93.9

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM2 Start Date: 10/18/2019 11:37 End Date: 10/18/2019 19:05

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12921313CAL0	11:37	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12921314CAL1	11:44	98.8	101.4	100.8	97.8	99.8	99.0	98.9
12921315CAL2	11:52	99.5	100.8	99.9	97.4	98.7	98.5	97.7
12921316CAL3	11:59	99.9	99.4	99.4	94.4	96.5	98.9	96.0
12921317CAL4	12:06	103.7	101.6	104.4	93.6	99.5	103.7	98.9
12921318CAL5	12:13	105.2	102.9	110.4	97.6	103.0	107.4	102.0
12921319ICV	12:21	105.7	103.9	105.3	97.7	102.1	105.2	101.3
12921320ICB	12:28	99.5	99.8	99.2	97.8	100.1	99.9	99.4
12921321CRDL	12:35	99.4	103.2	101.9	100.1	100.9	100.3	100.4
12921322CRDL	12:42	99.4	102.8	101.2	99.0	100.2	99.0	99.3
12921323ICSA	12:50	92.8	94.3	96.3	94.1	93.7	97.2	92.6
12921324ICSAB	12:57	99.2	98.3	101.7	96.0	98.2	103.0	96.7
12921325CCV	13:04	109.4	107.6	109.0	100.2	105.8	108.9	105.0
12921326CCB	13:11	101.7	101.5	100.0	100.7	100.8	101.1	100.3
12921329CCV	15:58	107.6	110.9	110.0	107.1	110.0	108.9	107.6
12921330CCB	16:05	101.0	105.2	102.4	103.3	104.2	101.6	102.6
1951522LCS	17:17	103.6	114.1	111.4	115.1	116.1	111.0	112.0
12921331CCV	17:24	105.3	108.4	107.7	103.9	106.7	106.8	104.6
12921332CCB	17:31	99.5	104.2	101.3	102.9	103.0	100.4	101.2
40194816001	17:39	95.3	95.4	94.2	97.4	92.4	94.5	92.4
1951524MS	17:46	96.2	95.3	94.7	92.4	92.4	94.5	93.0
1951525MSD	17:53	95.3	96.5	94.9	92.7	93.7	94.8	93.2
1952936PDS	18:00	96.4	100.9	98.8	101.6	98.8	100.0	98.5
12921333CCV	18:15	97.4	94.1	95.6	85.9	90.2	97.1	91.6
12921334CCB	18:22	95.5	95.5	94.8	92.5	94.5	95.7	94.3
12921335CRDL	18:29	95.4	97.5	95.9	94.1	94.8	95.0	94.6
12921336CRDL	18:36	94.7	99.0	96.5	95.8	95.5	95.2	94.8
12921337ICSA	18:44	89.0	91.1	93.1	93.1	91.6	94.3	89.4
12921338ICSAB	18:51	95.1	96.2	97.8	92.0	93.4	98.9	92.5
12921339CCV	18:58	103.4	105.6	104.4	95.8	101.5	103.5	101.2
12921340CCB	19:05	99.6	102.7	100.2	101.7	101.8	99.6	100.4

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40ICM3 Start Date: 10/03/2019 13:54 End Date: 10/03/2019 20:20

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12845089CAL0	13:54	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12845090CAL1	14:02	98.0	96.9	98.9	98.1	96.3	99.5	96.1
12845091CAL2	14:09	100.9	96.0	99.3	95.7	95.3	92.6	95.1
12845092CAL3	14:16	101.2	96.6	100.1	94.0	95.2	95.2	96.3
12845093CAL4	14:23	101.0	101.2	104.5	99.3	100.0	97.9	100.7
12845094CAL5	14:30	102.9	102.3	110.4	93.7	101.9	91.3	104.4
12845095ICV	14:37	103.2	104.2	105.2	100.5	102.8	98.1	102.4
12845096ICB	14:44	99.5	102.7	100.4	102.5	104.0	99.6	100.9
12845097CRDL	14:51	101.1	102.6	103.6	103.8	104.3	94.5	101.7
12845098CRDL	14:59	98.3	102.9	101.8	104.3	103.6	100.0	100.6
12845099ICSA	15:06	92.1	87.3	94.3	91.2	89.5	89.7	89.8
12845100ICSAB	15:13	96.3	89.0	98.3	86.6	90.3	85.7	92.1
12845101CCV	15:20	102.0	101.2	102.9	92.8	100.4	97.3	100.0
12845102CCB	15:27	98.2	98.4	97.7	99.5	99.2	96.0	97.4
1946901BLANK	15:34	102.6	97.9	99.5	95.4	94.8	93.1	95.6
1946902SBLK	15:41	104.1	106.5	106.1	101.7	106.1	102.8	104.9
1946903LCS	15:49	101.9	112.3	109.3	109.9	112.6	98.8	109.8
1946904SRM	16:03	96.2	107.6	105.9	104.9	106.6	98.1	117.2
CUF-FH-CC-CURD-F-	16:10	107.0	113.2	112.0	110.1	113.6	103.8	111.8
1946905MS	16:17	106.0	112.2	112.9	112.3	112.2	98.0	112.3
1946906MSD	16:24	102.7	110.1	109.9	102.2	110.0	101.6	109.4
1949507PDS	16:31	104.5	109.2	109.9	107.9	108.4	99.3	109.3
CUF-FH-CC-CURU-F-	16:38	105.5	108.4	108.9	105.5	108.2	98.7	107.1
12845103CCV	16:46	101.5	100.4	103.2	96.2	99.2	96.7	99.6
12845104CCB	16:53	98.2	98.7	98.3	99.5	99.9	95.2	97.8
1949508SD	17:00	102.3	101.8	103.3	101.5	102.2	95.1	101.1
CUF-FH-CC-WCD-F-	17:07	99.7	106.4	104.5	105.4	106.9	101.2	104.1
CUF-FH-CC-WCU-F-	17:14	102.0	107.3	106.8	107.8	109.2	100.4	106.4
CUF-FH-CC-F-DUP01-	17:21	104.1	107.7	108.1	107.8	108.6	99.5	107.0
CUF-FH-CC-CURA-O-	17:29	101.8	101.8	101.9	98.0	100.1	100.3	100.5
CUF-FH-CC-CURD-O-	17:36	103.4	100.8	102.5	97.2	99.4	97.2	99.7
CUF-FH-CC-CURU-O-	17:43	102.3	99.4	102.2	99.1	100.0	96.7	99.9
CUF-FH-CC-WCD-O-	17:50	100.8	99.7	99.9	98.9	98.2	97.9	98.6
CUF-FH-CC-WCU-O-	17:57	101.1	98.1	99.8	97.0	97.5	94.9	97.6
CUF-FH-CC-O-DUP01-	18:04	101.7	97.6	100.2	96.5	96.5	95.2	97.8
12845105CCV	18:11	98.5	96.0	98.7	91.8	95.1	92.9	95.6
12845106CCB	18:19	96.1	95.2	94.9	95.6	96.2	92.1	94.7
CUF-FH-CC-CURA-L-	18:26	100.0	102.5	102.4	99.4	102.5	96.4	101.4
CUF-FH-CC-CURD-L-	18:33	100.2	103.6	103.2	104.1	104.3	98.1	102.5
CUF-FH-CC-CURU-L-	18:40	100.3	105.1	104.6	106.1	105.2	97.3	103.8

10/24/2019 10:51

FORM XV INORGANIC-2
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN
Instrument ID: 40ICM3 Start Date: 10/03/2019 13:54 End Date: 10/03/2019 20:20

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
CUF-FH-CC-WCD-L-	18:47	100.8	105.0	105.1	103.4	106.0	96.6	104.6
CUF-FH-CC-WCU-L-	18:54	99.5	105.4	105.0	103.3	106.6	98.5	104.6
CUF-FH-CC-L-DUP01-	19:01	99.6	106.5	105.0	105.0	106.7	97.5	105.1
CUF-FH-RS-CURA-F-	19:09	101.4	105.6	105.5	104.3	106.3	96.6	104.9
CUF-FH-RS-CURD-F-	19:16	98.4	96.7	99.2	97.6	95.9	96.3	97.1
CUF-FH-RS-CURU-F-	19:23	99.4	101.1	101.6	98.7	101.2	97.3	100.8
12845107CCV	19:30	99.9	102.7	103.8	96.4	102.3	91.4	101.5
12845108CCB	19:37	94.2	98.3	96.6	100.2	100.5	95.1	97.2
12845109CRDL	19:44	94.5	99.5	98.1	101.5	101.7	95.1	98.0
12845110CRDL	19:51	96.1	99.5	98.5	100.8	100.1	92.1	97.7
12845111ICSA	19:58	87.6	83.3	90.8	89.1	87.5	86.8	87.1
12845112ICSAB	20:06	91.8	87.8	95.4	86.7	89.2	87.3	90.3
12845113CCV	20:13	100.9	101.5	103.3	93.5	101.1	90.8	100.4
12845114CCB	20:20	94.2	99.1	96.4	101.4	99.9	95.2	97.0

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01301 C.tet
Created By User	metals
Analyte Database	Pace.tea
Creation Timestamp	7/10/2008 4:47:18 PM
Last Edited By	ICM2
Last Edit Timestamp	10/18/2019 1:11:22 PM
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	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
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	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

Sweeps	10
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	13345

Main Run Setup

Main Run	Peak Jumping
Sweeps	45
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	32128
Channel Spacing	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
237880_10175_Cal0	3	7	7	7	8	8	8	8	8	8	8
237881_10175_Cal1	3	7	7	7	8	8	8	8	8	8	8
237882_10175_Cal2	3	7	7	7	8	8	8	8	8	8	8
237883_10175_Cal3	3	7	7	7	8	8	8	8	8	8	8
237884_10175_Cal4	3	7	7	7	8	8	8	8	8	8	8
237885_10175_Cal5	3	7	7	7	8	8	8	8	8	8	8
237751_10175_ICV	3	7	7	7	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	7	7	7	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	7	7	7	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	7	7	7	8	8	8	8	8	8	8
237752_10175_ICSA1	3	7	7	7	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV1	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	7	7	7	8	8	8	8	8	8	8
1951520_10135	3	7	7	7	8	8	8	8	8	8	8
40193826021_10135	3	7	7	7	8	8	8	8	8	8	8
40193833021_10135	3	7	7	7	8	8	8	8	8	8	8
40193836019_10135	3	7	7	7	8	8	8	8	8	8	8
40194793021_10135	3	7	7	7	8	8	8	8	8	8	8
40194797021_10135	3	7	7	7	8	8	8	8	8	8	8
40194812021_10135	3	7	7	7	8	8	8	8	8	8	8
40195132011_10135	3	7	7	7	8	8	8	8	8	8	8
40194809021_10135	3	7	7	7	8	8	8	8	8	8	8
40194816005_10135	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV2	3	7	7	7	8	8	8	8	8	8	8

237880_10175_CCBTVA2	3	7	7	7	8	8	8	8	8	8	8
1951521_10135	3	7	7	7	8	8	8	8	8	8	8
1951522_10135	3	7	7	7	8	8	8	8	8	8	8
1951523_10135x2	3	7	7	7	8	8	8	8	8	8	8
1951523_10135	3	7	7	7	8	8	8	8	8	8	8
40194816001_10135	3	7	7	7	8	8	8	8	8	8	8
1951524_10135	3	7	7	7	8	8	8	8	8	8	8
1951525_10135	3	7	7	7	8	8	8	8	8	8	8
1952936_10135	3	7	7	7	8	8	8	8	8	8	8
40194816002_10135	3	7	7	7	8	8	8	8	8	8	8
1952937_10135x5	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV3	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	7	7	7	8	8	8	8	8	8	8
40194816003_10135	3	7	7	7	8	8	8	8	8	8	8
40194816004_10135	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV4	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	7	7	7	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	7	7	7	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	7	7	7	8	8	8	8	8	8	8
237752_10175_ICSA2	3	7	7	7	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV5	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	7	7	7	8	8	8	8	8	8	8
1959935_10158	3	7	7	7	8	8	8	8	8	8	8
1959936_10158	3	7	7	7	8	8	8	8	8	8	8
40197108001_10158x10	3	7	7	7	8	8	8	8	8	8	8
1959939_10158x10	3	7	7	7	8	8	8	8	8	8	8
1959940_10158x10	3	7	7	7	8	8	8	8	8	8	8
1960256_10158x10	3	7	7	7	8	8	8	8	8	8	8
40197108001_10158	3	7	7	7	8	8	8	8	8	8	8
1959939_10158	3	7	7	7	8	8	8	8	8	8	8
1959940_10158	3	7	7	7	8	8	8	8	8	8	8
1960256_10158	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV6	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCB6	3	7	7	7	8	8	8	8	8	8	8
40196822001_10158	3	7	7	7	8	8	8	8	8	8	8
1960254_10158	3	7	7	7	8	8	8	8	8	8	8
40196990001_10158x10	3	7	7	7	8	8	8	8	8	8	8
1959937_10158x10	3	7	7	7	8	8	8	8	8	8	8
1959938_10158x10	3	7	7	7	8	8	8	8	8	8	8
1960255_10158x10	3	7	7	7	8	8	8	8	8	8	8
40196990001_10158	3	7	7	7	8	8	8	8	8	8	8
1959937_10158	3	7	7	7	8	8	8	8	8	8	8
1959938_10158	3	7	7	7	8	8	8	8	8	8	8
1960255_10158	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV7	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCB7	3	7	7	7	8	8	8	8	8	8	8
40197048001_10158	3	7	7	7	8	8	8	8	8	8	8
40197121001_10158	3	7	7	7	8	8	8	8	8	8	8
40197121002_10158	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV8	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCB8	3	7	7	7	8	8	8	8	8	8	8
Label	Config	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
237880_10175_Cal0	3	8	8	8	7	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	7	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	7	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	7	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	7	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	7	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	7	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	7	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	7	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	7	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	7	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	7	8	8	8	8	8	8
1951520_10135	3	8	8	8	7	8	8	8	8	8	8
40193826021_10135	3	8	8	8	7	8	8	8	8	8	8

40193833021_10135	3	8	8	8	7	8	8	8	8	8	8
40193836019_10135	3	8	8	8	7	8	8	8	8	8	8
40194793021_10135	3	8	8	8	7	8	8	8	8	8	8
40194797021_10135	3	8	8	8	7	8	8	8	8	8	8
40194812021_10135	3	8	8	8	7	8	8	8	8	8	8
40195132011_10135	3	8	8	8	7	8	8	8	8	8	8
40194809021_10135	3	8	8	8	7	8	8	8	8	8	8
40194816005_10135	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	7	8	8	8	8	8	8
1951521_10135	3	8	8	8	7	8	8	8	8	8	8
1951522_10135	3	8	8	8	7	8	8	8	8	8	8
1951523_10135x2	3	8	8	8	7	8	8	8	8	8	8
1951523_10135	3	8	8	8	7	8	8	8	8	8	8
40194816001_10135	3	8	8	8	7	8	8	8	8	8	8
1951524_10135	3	8	8	8	7	8	8	8	8	8	8
1951525_10135	3	8	8	8	7	8	8	8	8	8	8
1952936_10135	3	8	8	8	7	8	8	8	8	8	8
40194816002_10135	3	8	8	8	7	8	8	8	8	8	8
1952937_10135x5	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	7	8	8	8	8	8	8
40194816003_10135	3	8	8	8	7	8	8	8	8	8	8
40194816004_10135	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	7	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	7	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	7	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	7	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	7	8	8	8	8	8	8
1959935_10158	3	8	8	8	7	8	8	8	8	8	8
1959936_10158	3	8	8	8	7	8	8	8	8	8	8
40197108001_10158x10	3	8	8	8	7	8	8	8	8	8	8
1959939_10158x10	3	8	8	8	7	8	8	8	8	8	8
1959940_10158x10	3	8	8	8	7	8	8	8	8	8	8
1960256_10158x10	3	8	8	8	7	8	8	8	8	8	8
40197108001_10158	3	8	8	8	7	8	8	8	8	8	8
1959939_10158	3	8	8	8	7	8	8	8	8	8	8
1959940_10158	3	8	8	8	7	8	8	8	8	8	8
1960256_10158	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCB6	3	8	8	8	7	8	8	8	8	8	8
40196822001_10158	3	8	8	8	7	8	8	8	8	8	8
1960254_10158	3	8	8	8	7	8	8	8	8	8	8
40196990001_10158x10	3	8	8	8	7	8	8	8	8	8	8
1959937_10158x10	3	8	8	8	7	8	8	8	8	8	8
1959938_10158x10	3	8	8	8	7	8	8	8	8	8	8
1960255_10158x10	3	8	8	8	7	8	8	8	8	8	8
40196990001_10158	3	8	8	8	7	8	8	8	8	8	8
1959937_10158	3	8	8	8	7	8	8	8	8	8	8
1959938_10158	3	8	8	8	7	8	8	8	8	8	8
1960255_10158	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV7	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCB7	3	8	8	8	7	8	8	8	8	8	8
40197048001_10158	3	8	8	8	7	8	8	8	8	8	8
40197121001_10158	3	8	8	8	7	8	8	8	8	8	8
40197121002_10158	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV8	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCB8	3	8	8	8	7	8	8	8	8	8	8
Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8

237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951520_10135	3	8	8	8	8	8	8	8	8	8	8
40193826021_10135	3	8	8	8	8	8	8	8	8	8	8
40193833021_10135	3	8	8	8	8	8	8	8	8	8	8
40193836019_10135	3	8	8	8	8	8	8	8	8	8	8
40194793021_10135	3	8	8	8	8	8	8	8	8	8	8
40194797021_10135	3	8	8	8	8	8	8	8	8	8	8
40194812021_10135	3	8	8	8	8	8	8	8	8	8	8
40195132011_10135	3	8	8	8	8	8	8	8	8	8	8
40194809021_10135	3	8	8	8	8	8	8	8	8	8	8
40194816005_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1951521_10135	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
1951523_10135x2	3	8	8	8	8	8	8	8	8	8	8
1951523_10135	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135	3	8	8	8	8	8	8	8	8	8	8
1951524_10135	3	8	8	8	8	8	8	8	8	8	8
1951525_10135	3	8	8	8	8	8	8	8	8	8	8
1952936_10135	3	8	8	8	8	8	8	8	8	8	8
40194816002_10135	3	8	8	8	8	8	8	8	8	8	8
1952937_10135x5	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
40194816004_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	8	8	8	8	8	8	8
1959935_10158	3	8	8	8	8	8	8	8	8	8	8
1959936_10158	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959939_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959940_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960256_10158x10	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158	3	8	8	8	8	8	8	8	8	8	8
1959939_10158	3	8	8	8	8	8	8	8	8	8	8
1959940_10158	3	8	8	8	8	8	8	8	8	8	8
1960256_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB6	3	8	8	8	8	8	8	8	8	8	8
40196822001_10158	3	8	8	8	8	8	8	8	8	8	8
1960254_10158	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959937_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959938_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960255_10158x10	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158	3	8	8	8	8	8	8	8	8	8	8
1959937_10158	3	8	8	8	8	8	8	8	8	8	8
1959938_10158	3	8	8	8	8	8	8	8	8	8	8
1960255_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV7	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB7	3	8	8	8	8	8	8	8	8	8	8
40197048001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121002_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV8	3	8	8	8	8	8	8	8	8	8	8

237880_10175_CCB8	3	8	8	8	8	8	8	8	8	8	8
Label	Config	89Y	90Zr	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951520_10135	3	8	8	8	8	8	8	8	8	8	8
40193826021_10135	3	8	8	8	8	8	8	8	8	8	8
40193833021_10135	3	8	8	8	8	8	8	8	8	8	8
40193836019_10135	3	8	8	8	8	8	8	8	8	8	8
40194793021_10135	3	8	8	8	8	8	8	8	8	8	8
40194797021_10135	3	8	8	8	8	8	8	8	8	8	8
40194812021_10135	3	8	8	8	8	8	8	8	8	8	8
40195132011_10135	3	8	8	8	8	8	8	8	8	8	8
40194809021_10135	3	8	8	8	8	8	8	8	8	8	8
40194816005_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1951521_10135	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
1951523_10135x2	3	8	8	8	8	8	8	8	8	8	8
1951523_10135	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135	3	8	8	8	8	8	8	8	8	8	8
1951524_10135	3	8	8	8	8	8	8	8	8	8	8
1951525_10135	3	8	8	8	8	8	8	8	8	8	8
1952936_10135	3	8	8	8	8	8	8	8	8	8	8
40194816002_10135	3	8	8	8	8	8	8	8	8	8	8
1952937_10135x5	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
40194816004_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	8	8	8	8	8	8	8
1959935_10158	3	8	8	8	8	8	8	8	8	8	8
1959936_10158	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959939_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959940_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960256_10158x10	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158	3	8	8	8	8	8	8	8	8	8	8
1959939_10158	3	8	8	8	8	8	8	8	8	8	8
1959940_10158	3	8	8	8	8	8	8	8	8	8	8
1960256_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB6	3	8	8	8	8	8	8	8	8	8	8
40196822001_10158	3	8	8	8	8	8	8	8	8	8	8
1960254_10158	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959937_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959938_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960255_10158x10	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158	3	8	8	8	8	8	8	8	8	8	8

1959937_10158	3	8	8	8	8	8	8	8	8	8	8
1959938_10158	3	8	8	8	8	8	8	8	8	8	8
1960255_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV7	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB7	3	8	8	8	8	8	8	8	8	8	8
40197048001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121002_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV8	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB8	3	8	8	8	8	8	8	8	8	8	8
Label	Config	159Tb	184W	195Pt	201Hg	205Ti	206Pb	207Pb	208Pb	209Bi	238U
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951520_10135	3	8	8	8	8	8	8	8	8	8	8
40193826021_10135	3	8	8	8	8	8	8	8	8	8	8
40193833021_10135	3	8	8	8	8	8	8	8	8	8	8
40193836019_10135	3	8	8	8	8	8	8	8	8	8	8
40194793021_10135	3	8	8	8	8	8	8	8	8	8	8
40194797021_10135	3	8	8	8	8	8	8	8	8	8	8
40194812021_10135	3	8	8	8	8	8	8	8	8	8	8
40195132011_10135	3	8	8	8	8	8	8	8	8	8	8
40194809021_10135	3	8	8	8	8	8	8	8	8	8	8
40194816005_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1951521_10135	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
1951523_10135x2	3	8	8	8	8	8	8	8	8	8	8
1951523_10135	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135	3	8	8	8	8	8	8	8	8	8	8
1951524_10135	3	8	8	8	8	8	8	8	8	8	8
1951525_10135	3	8	8	8	8	8	8	8	8	8	8
1952936_10135	3	8	8	8	8	8	8	8	8	8	8
40194816002_10135	3	8	8	8	8	8	8	8	8	8	8
1952937_10135x5	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
40194816004_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	8	8	8	8	8	8	8
1959935_10158	3	8	8	8	8	8	8	8	8	8	8
1959936_10158	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959939_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959940_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960256_10158x10	3	8	8	8	8	8	8	8	8	8	8
40197108001_10158	3	8	8	8	8	8	8	8	8	8	8
1959939_10158	3	8	8	8	8	8	8	8	8	8	8
1959940_10158	3	8	8	8	8	8	8	8	8	8	8
1960256_10158	3	8	8	8	8	8	8	8	8	8	8

237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB6	3	8	8	8	8	8	8	8	8	8	8
40196822001_10158	3	8	8	8	8	8	8	8	8	8	8
1960254_10158	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959937_10158x10	3	8	8	8	8	8	8	8	8	8	8
1959938_10158x10	3	8	8	8	8	8	8	8	8	8	8
1960255_10158x10	3	8	8	8	8	8	8	8	8	8	8
40196990001_10158	3	8	8	8	8	8	8	8	8	8	8
1959937_10158	3	8	8	8	8	8	8	8	8	8	8
1959938_10158	3	8	8	8	8	8	8	8	8	8	8
1960255_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV7	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB7	3	8	8	8	8	8	8	8	8	8	8
40197048001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121001_10158	3	8	8	8	8	8	8	8	8	8	8
40197121002_10158	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV8	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCB8	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 10172019	-141.00	-1240.00	-80.00	-195.30	-9.00	145.00	51.00	259.00	13.00	0.70
8	CCTKED Mode 10172019	-141.00	-1240.00	-80.00	-195.30	-17.00	145.00	51.00	259.00	13.00	0.70
Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias	
7	CCT Mode 10172019	0.86	1400.00	-50.20	8.60	0.00	0.30	-143.00	-23.50	-4.00	
8	CCTKED Mode 10172019	0.86	1400.00	-58.80	-9.40	0.00	3.85	-143.00	-23.50	-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	237880_10175_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_Cal1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	237882_10175_Cal2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	237883_10175_Cal3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	237884_10175_Cal4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	237885_10175_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	237880_10175_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_Cal1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	237882_10175_Cal2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	237883_10175_Cal3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	237884_10175_Cal4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	237885_10175_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	237880_10175_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_Cal1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	237882_10175_Cal2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000

4	237883_10175_Cal3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000
5	237884_10175_Cal4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	237885_10175_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	237880_10175_Cal0	0.000	0.000	0.000	0.000	0.000					
2	237881_10175_Cal1	1.000	0.200	1.000	1.000	1.000					
3	237882_10175_Cal2	5.000	0.500	5.000	5.000	5.000					
4	237883_10175_Cal3	50.000	1.000	50.000	50.000	50.000					
5	237884_10175_Cal4	250.000	10.000	250.000	250.000	250.000					
6	237885_10175_Cal5	500.000	25.000	500.000	500.000	500.000					

Calibration Technique

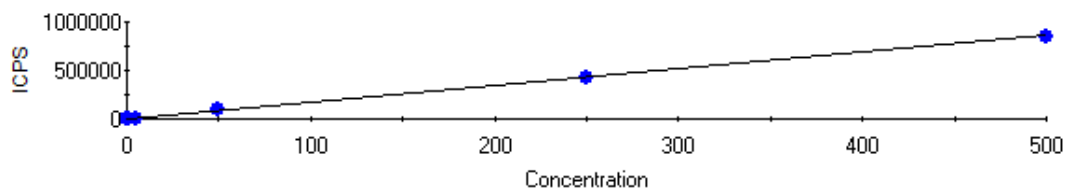
Use External Drift Correction - No
Calibrate by - Isotope

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		

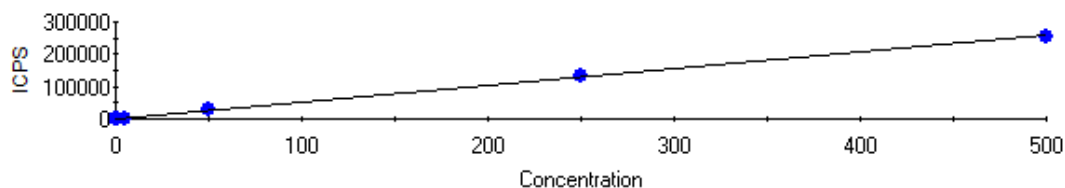
Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	237880_10175_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	237881_10175_Cal1	Fully Quant Standard	1.000	0	1	2	144

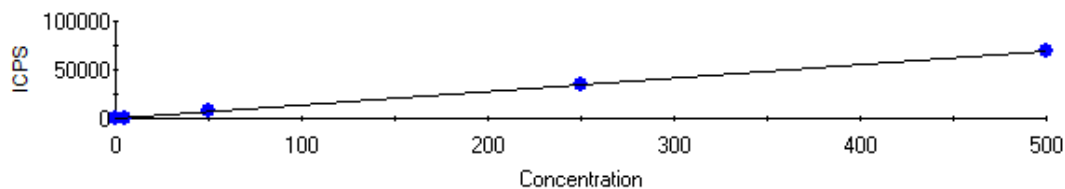
3	237882_10175_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	237883_10175_Cal3	Fully Quant Standard	1.000	0	1	4	144
5	237884_10175_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	237885_10175_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	237751_10175_ICV	Unknown	1.000	1	1	1	144
8	237880_10175_ICBTVA	Unknown	1.000	0	1	8	144
9	237881_10175_CRDL_A1	Unknown	1.000	0	1	2	144
10	237882_10175_CRDL_B1	Unknown	1.000	0	1	3	144
11	237752_10175_ICSA1	Unknown	1.000	1	1	2	144
12	237753_10175_ICSAB1	Unknown	1.000	1	1	3	144
13	237886_10175_CCV1	Unknown	1.000	0	1	7	144
14	237880_10175_CCBTVA1	Unknown	1.000	0	1	1	144
15	1951520_10135	Unknown	1.000	2	3	1	144
16	40193826021_10135	Unknown	1.000	2	4	2	144
17	40193833021_10135	Unknown	1.000	2	4	3	144
18	40193836019_10135	Unknown	1.000	2	4	4	144
19	40194793021_10135	Unknown	1.000	2	4	5	144
20	40194797021_10135	Unknown	1.000	2	4	6	144
21	40194812021_10135	Unknown	1.000	2	4	7	144
22	40195132011_10135	Unknown	1.000	2	4	8	144
23	40194809021_10135	Unknown	1.000	2	4	9	144
24	40194816005_10135	Unknown	1.000	2	4	10	144
25	237886_10175_CCV2	Unknown	1.000	0	1	7	144
26	237880_10175_CCBTVA2	Unknown	1.000	0	1	1	144
27	1951521_10135	Unknown	1.000	2	3	2	144
28	1951522_10135	Unknown	1.000	2	3	3	144
29	1951523_10135x2	Unknown	1.000	2	3	4	144
30	1951523_10135	Unknown	1.000	2	3	5	144
31	40194816001_10135	Unknown	1.000	2	3	6	144
32	1951524_10135	Unknown	1.000	2	3	7	144
33	1951525_10135	Unknown	1.000	2	3	8	144
34	1952936_10135	Unknown	1.000	2	3	9	144
35	40194816002_10135	Unknown	1.000	2	3	10	144
36	1952937_10135x5	Unknown	1.000	2	3	11	144
37	237886_10175_CCV3	Unknown	1.000	0	1	7	144
38	237880_10175_CCBTVA3	Unknown	1.000	0	1	1	144
39	40194816003_10135	Unknown	1.000	2	3	12	144
40	40194816004_10135	Unknown	1.000	2	4	1	144
41	237886_10175_CCV4	Unknown	1.000	0	1	7	144
42	237880_10175_CCBTVA4	Unknown	1.000	0	1	1	144
43	237881_10175_CRDL_A2	Unknown	1.000	0	1	2	144
44	237882_10175_CRDL_B2	Unknown	1.000	0	1	3	144
45	237752_10175_ICSA2	Unknown	1.000	1	1	2	144
46	237753_10175_ICSAB2	Unknown	1.000	1	1	3	144
47	237886_10175_CCV5	Unknown	1.000	0	1	7	144
48	237880_10175_CCBTVA5	Unknown	1.000	0	1	1	144
49	1959935_10158	Unknown	1.000	4	1	1	144
50	1959936_10158	Unknown	1.000	4	1	2	144
51	40197108001_10158x10	Unknown	1.000	4	1	3	144
52	1959939_10158x10	Unknown	1.000	4	1	4	144
53	1959940_10158x10	Unknown	1.000	4	1	5	144
54	1960256_10158x10	Unknown	1.000	4	1	6	144
55	40197108001_10158	Unknown	1.000	4	1	7	144
56	1959939_10158	Unknown	1.000	4	1	8	144
57	1959940_10158	Unknown	1.000	4	1	9	144
58	1960256_10158	Unknown	1.000	4	1	10	144
59	237886_10175_CCV6	Unknown	1.000	0	1	7	144
60	237880_10175_CCB6	Unknown	1.000	0	1	1	144
61	40196822001_10158	Unknown	1.000	4	1	11	144
62	1960254_10158	Unknown	1.000	4	1	12	144
63	40196990001_10158x10	Unknown	1.000	4	2	1	144
64	1959937_10158x10	Unknown	1.000	4	2	2	144
65	1959938_10158x10	Unknown	1.000	4	2	3	144
66	1960255_10158x10	Unknown	1.000	4	2	4	144
67	40196990001_10158	Unknown	1.000	4	2	5	144
68	1959937_10158	Unknown	1.000	4	2	6	144
69	1959938_10158	Unknown	1.000	4	2	7	144
70	1960255_10158	Unknown	1.000	4	2	8	144
71	237886_10175_CCV7	Unknown	1.000	0	1	7	144
72	237880_10175_CCB7	Unknown	1.000	0	1	1	144
73	40197048001_10158	Unknown	1.000	4	2	9	144
74	40197121001_10158	Unknown	1.000	4	2	10	144
75	40197121002_10158	Unknown	1.000	4	2	11	144
76	237886_10175_CCV8	Unknown	1.000	0	1	7	144
77	237880_10175_CCB8	Unknown	1.000	0	1	1	144

Fully Quant Calibration**7Li FQ Block 1**

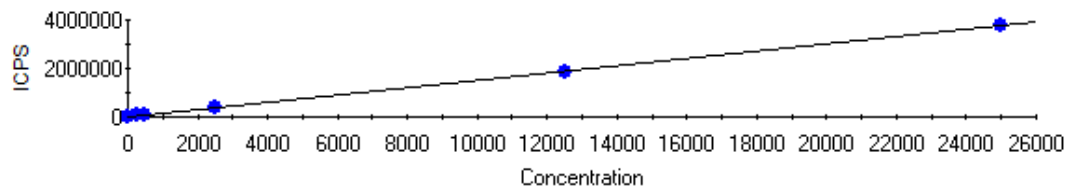
Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.014	0.014	197.09	0.00
237881_10175_Cal1	1.000	0.960	0.040	1824.26	4.00
237882_10175_Cal2	5.000	5.034	0.034	8832.11	0.68
237883_10175_Cal3	50.000	50.843	0.843	87634.57	1.69
237884_10175_Cal4	250.000	249.947	0.053	430140.06	0.02
237885_10175_Cal5	500.000	495.549	4.451	852631.02	0.89

9Be FQ Block 1

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.019	0.019	47.40	0.00
237881_10175_Cal1	1.000	0.995	0.005	576.85	0.50
237882_10175_Cal2	5.000	4.923	0.077	2627.96	1.53
237883_10175_Cal3	50.000	52.746	2.746	27597.25	5.49
237884_10175_Cal4	250.000	252.652	2.652	131971.86	1.06
237885_10175_Cal5	500.000	489.826	10.174	255805.57	2.03

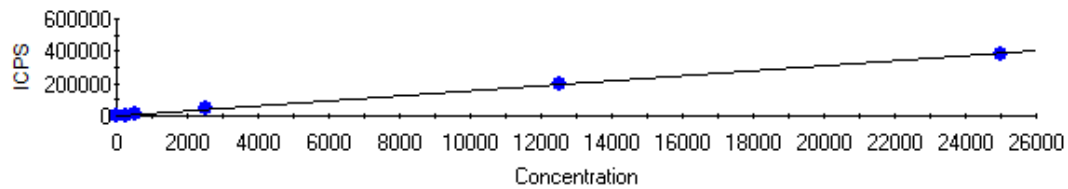
10B FQ Block 1

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.054	0.054	188.88	0.00
237882_10175_Cal2	5.000	5.059	0.059	890.60	1.17
237883_10175_Cal3	50.000	50.824	0.824	7171.39	1.65
237884_10175_Cal4	250.000	250.236	0.236	34538.29	0.09
237885_10175_Cal5	500.000	496.736	3.264	68367.46	0.65

23Na FQ Block 1

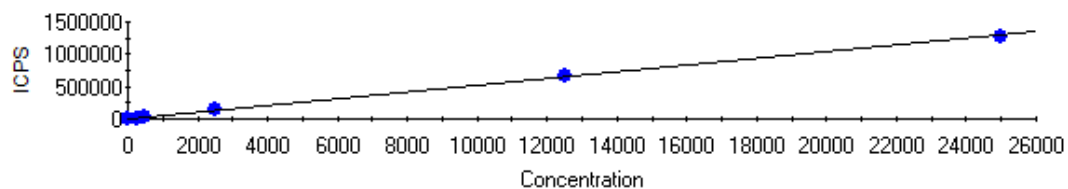
Intercept CPS=1717.501904 Intercept Conc=11.407250
Sensitivity=150.562313 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.113	0.113	1700.43	0.00
237881_10175_Cal1	250.000	254.040	4.040	39966.30	1.62
237882_10175_Cal2	500.000	506.840	6.840	78028.51	1.37
237883_10175_Cal3	2500.000	2549.727	49.727	385610.36	1.99
237884_10175_Cal4	12500.000	12286.004	213.996	1851526.75	1.71
237885_10175_Cal5	25000.000	24768.980	231.020	3730992.47	0.92

25Mg FQ Block 1

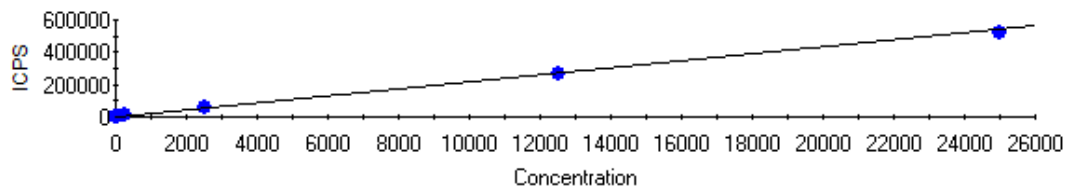
Intercept CPS=139.424433 Intercept Conc=8.904163
Sensitivity=15.658343 Correlation Coeff=0.999900

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.951	0.951	124.54	0.00
237881_10175_Cal1	250.000	256.832	6.832	4160.99	2.73
237882_10175_Cal2	500.000	511.407	11.407	8147.21	2.28
237883_10175_Cal3	2500.000	2587.279	87.279	40651.93	3.49
237884_10175_Cal4	12500.000	12638.436	138.436	198036.39	1.11
237885_10175_Cal5	25000.000	24555.654	444.346	384640.28	1.78

27Al FQ Block 1

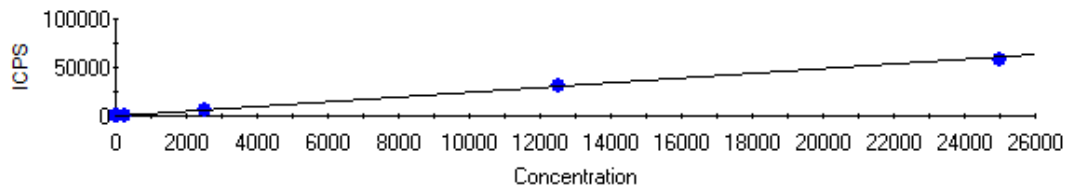
Intercept CPS=543.413024 Intercept Conc=10.479609
Sensitivity=51.854322 Correlation Coeff=0.999938

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.009	0.009	542.95	0.00
237881_10175_Cal1	250.000	259.739	9.739	14012.01	3.90
237882_10175_Cal2	500.000	509.413	9.413	26958.66	1.88
237883_10175_Cal3	2500.000	2594.628	94.628	135086.11	3.79
237884_10175_Cal4	12500.000	12572.151	72.151	652463.77	0.58
237885_10175_Cal5	25000.000	24588.690	411.310	1275573.25	1.65

28Si FQ Block 1

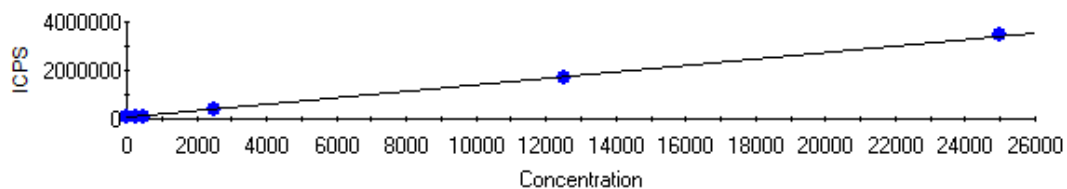
Intercept CPS=419.230673 Intercept Conc=19.307515
Sensitivity=21.713342 Correlation Coeff=0.999845

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.442	0.442	409.62	0.00
237881_10175_Cal1	50.000	55.282	5.282	1619.59	10.56
237882_10175_Cal2	250.000	259.494	9.494	6053.71	3.80
237883_10175_Cal3	2500.000	2566.902	66.902	56155.25	2.68
237884_10175_Cal4	12500.000	12345.365	154.635	268478.37	1.24
237885_10175_Cal5	25000.000	23828.844	1171.156	517823.07	4.68

31P FQ Block 1

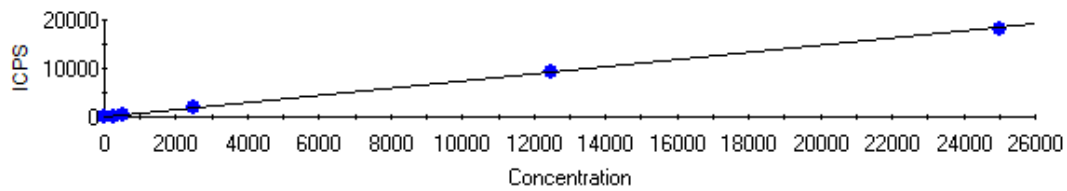
Intercept CPS=113.422454 Intercept Conc=46.640624
Sensitivity=2.431838 Correlation Coeff=0.999685

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-1.855	1.855	108.91	0.00
237881_10175_Cal1	50.000	47.445	2.555	228.80	5.11
237882_10175_Cal2	250.000	271.523	21.523	773.72	8.61
237883_10175_Cal3	2500.000	2524.238	24.238	6251.96	0.97
237884_10175_Cal4	12500.000	12403.341	96.659	30276.34	0.77
237885_10175_Cal5	25000.000	23555.820	1444.180	57397.37	5.78

39K FQ Block 1

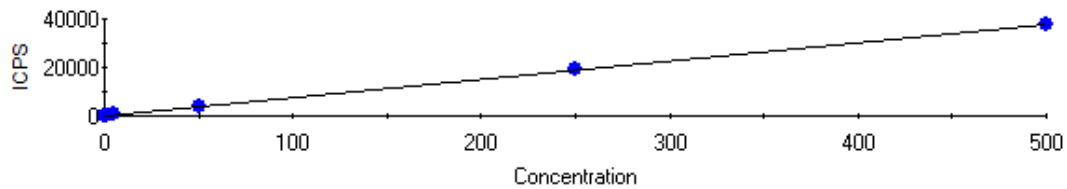
Intercept CPS=45138.385117 Intercept Conc=333.340534
Sensitivity=135.412230 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-3.841	3.841	44618.31	0.00
237881_10175_Cal1	250.000	251.749	1.749	79228.33	0.70
237882_10175_Cal2	500.000	496.409	3.591	112358.20	0.72
237883_10175_Cal3	2500.000	2552.149	52.149	390730.61	2.09
237884_10175_Cal4	12500.000	12331.917	168.083	1715030.78	1.34
237885_10175_Cal5	25000.000	25055.531	55.531	3437963.74	0.22

43Ca FQ Block 1

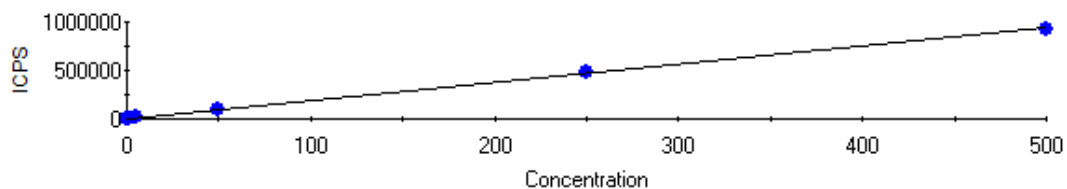
Intercept CPS=6.040503 Intercept Conc=8.232024
Sensitivity=0.733781 Correlation Coeff=0.999916

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	3.026	3.026	8.26	0.00
237881_10175_Cal1	250.000	248.631	1.369	188.48	0.55
237882_10175_Cal2	500.000	472.962	27.038	353.09	5.41
237883_10175_Cal3	2500.000	2552.058	52.058	1878.69	2.08
237884_10175_Cal4	12500.000	12728.569	228.569	9346.02	1.83
237885_10175_Cal5	25000.000	24795.531	204.469	18200.53	0.82

47Ti FQ Block 1

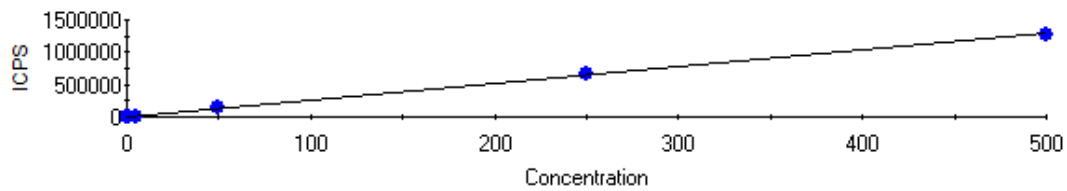
Intercept CPS=15.888852 Intercept Conc=0.211260
Sensitivity=75.209999 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	15.97	0.00
237881_10175_Cal1	1.000	0.960	0.040	88.12	3.96
237882_10175_Cal2	5.000	5.076	0.076	397.67	1.52
237883_10175_Cal3	50.000	49.798	0.202	3761.16	0.40
237884_10175_Cal4	250.000	251.128	1.128	18903.24	0.45
237885_10175_Cal5	500.000	499.109	0.891	37553.90	0.18

51V FQ Block 1

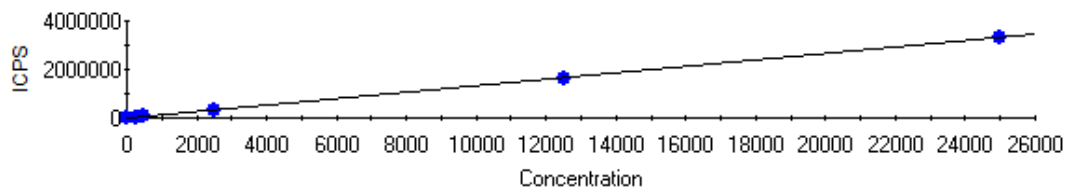
Intercept CPS=349.397096 Intercept Conc=0.185617
Sensitivity=1882.352720 Correlation Coeff=0.999957

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.044	0.044	432.65	0.00
237881_10175_Cal1	1.000	0.870	0.130	1987.53	12.97
237882_10175_Cal2	5.000	5.003	0.003	9766.03	0.05
237883_10175_Cal3	50.000	51.023	1.023	96392.19	2.05
237884_10175_Cal4	250.000	252.082	2.082	474855.85	0.83
237885_10175_Cal5	500.000	494.674	5.326	931499.69	1.07

52Cr FQ Block 1

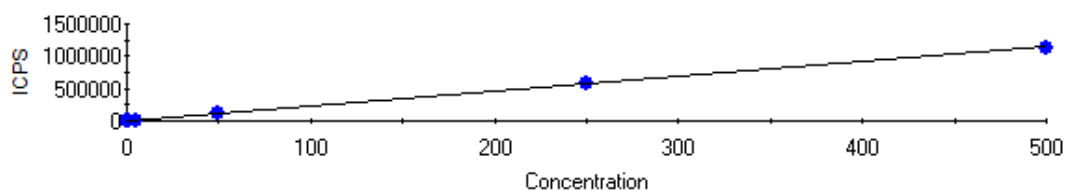
Intercept CPS=343.435592 Intercept Conc=0.132742
Sensitivity=2587.234074 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	345.65	0.00
237881_10175_Cal1	1.000	0.858	0.142	2564.22	14.16
237882_10175_Cal2	5.000	5.053	0.053	13417.03	1.06
237883_10175_Cal3	50.000	51.056	1.056	132437.27	2.11
237884_10175_Cal4	250.000	251.111	1.111	650026.47	0.44
237885_10175_Cal5	500.000	491.586	8.414	1272191.68	1.68

54Fe FQ Block 1

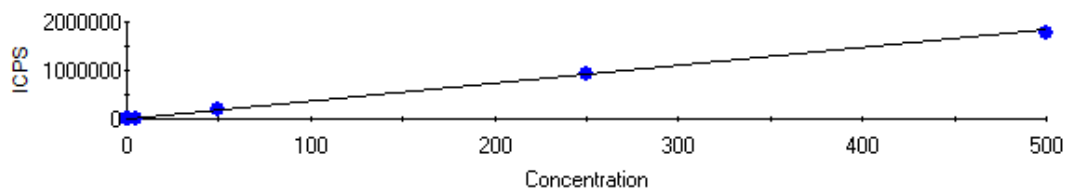
Intercept CPS=1366.367999 Intercept Conc=10.218304
Sensitivity=133.717684 Correlation Coeff=0.999957

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.336	0.336	1321.48	0.00
237881_10175_Cal1	250.000	250.858	0.858	34910.48	0.34
237882_10175_Cal2	500.000	496.352	3.648	67737.39	0.73
237883_10175_Cal3	2500.000	2513.462	13.462	337460.66	0.54
237884_10175_Cal4	12500.000	12056.321	443.679	1613509.69	3.55
237885_10175_Cal5	25000.000	24542.908	457.092	3283187.15	1.83

55Mn FQ Block 1

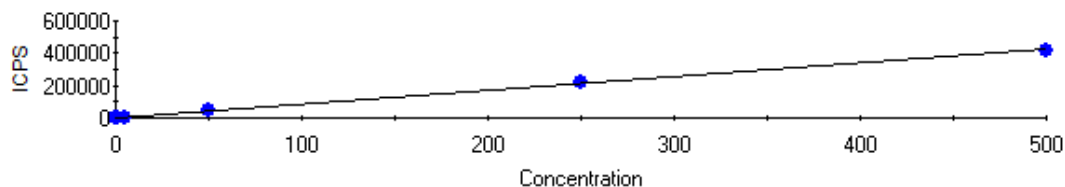
Intercept CPS=274.889587 Intercept Conc=0.119978
Sensitivity=2291.170930 Correlation Coeff=0.999930

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.000	0.000	275.14	0.00
237881_10175_Cal1	1.000	0.966	0.034	2488.98	3.36
237882_10175_Cal2	5.000	4.923	0.077	11555.38	1.53
237883_10175_Cal3	50.000	50.848	0.848	116777.02	1.70
237884_10175_Cal4	250.000	251.248	1.248	575928.14	0.50
237885_10175_Cal5	500.000	490.406	9.594	1123879.59	1.92

59Co FQ Block 1

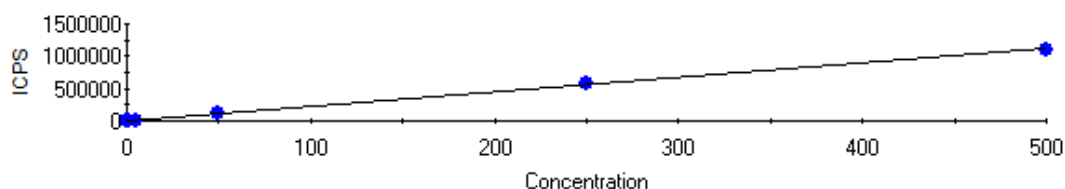
Intercept CPS=300.055578 Intercept Conc=0.081942
Sensitivity=3661.825938 Correlation Coeff=0.999891

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	303.69	0.00
237881_10175_Cal1	1.000	0.977	0.023	3877.85	2.29
237882_10175_Cal2	5.000	4.982	0.018	18543.60	0.36
237883_10175_Cal3	50.000	51.125	1.125	187511.75	2.25
237884_10175_Cal4	250.000	250.960	0.960	919270.55	0.38
237885_10175_Cal5	500.000	486.961	13.039	1783465.76	2.61

60Ni FQ Block 1

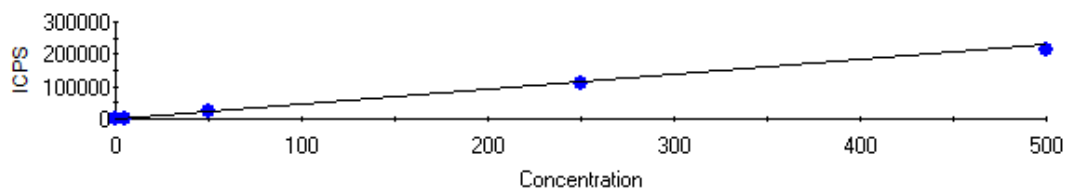
Intercept CPS=121.583565 Intercept Conc=0.143112
Sensitivity=849.569419 Correlation Coeff=0.999946

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.085	0.085	193.90	0.00
237881_10175_Cal1	1.000	0.993	0.007	965.39	0.68
237882_10175_Cal2	5.000	5.042	0.042	4404.89	0.83
237883_10175_Cal3	50.000	51.461	1.461	43841.25	2.92
237884_10175_Cal4	250.000	253.069	3.069	215121.11	1.23
237885_10175_Cal5	500.000	495.498	4.502	421081.44	0.90

63Cu FQ Block 1

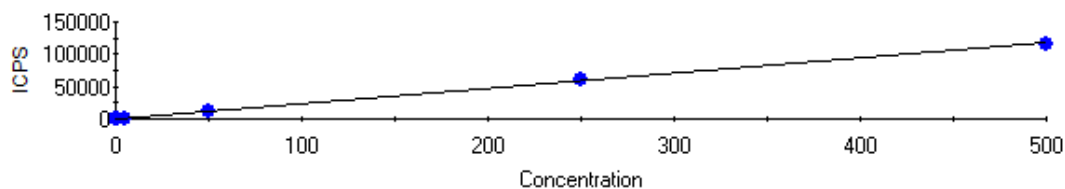
Intercept CPS=950.319179 Intercept Conc=0.421263
Sensitivity=2255.879586 Correlation Coeff=0.999869

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.008	0.008	969.20	0.00
237881_10175_Cal1	1.000	0.856	0.144	2881.01	14.42
237882_10175_Cal2	5.000	4.921	0.079	12051.72	1.58
237883_10175_Cal3	50.000	51.186	1.186	116418.72	2.37
237884_10175_Cal4	250.000	250.071	0.071	565081.22	0.03
237885_10175_Cal5	500.000	484.006	15.994	1092809.90	3.20

66Zn FQ Block 1

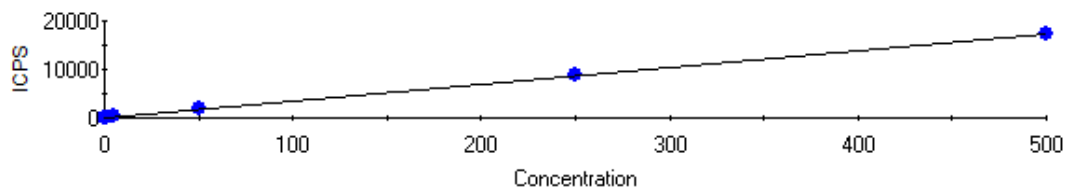
Intercept CPS=349.672141 Intercept Conc=0.766357
Sensitivity=456.278403 Correlation Coeff=0.999873

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.002	0.002	350.73	0.00
237882_10175_Cal2	5.000	4.805	0.195	2541.97	3.91
237883_10175_Cal3	50.000	50.377	0.377	23335.48	0.75
237884_10175_Cal4	250.000	244.127	5.873	111739.58	2.35
237885_10175_Cal5	500.000	473.282	26.718	216297.97	5.34

75As FQ Block 1

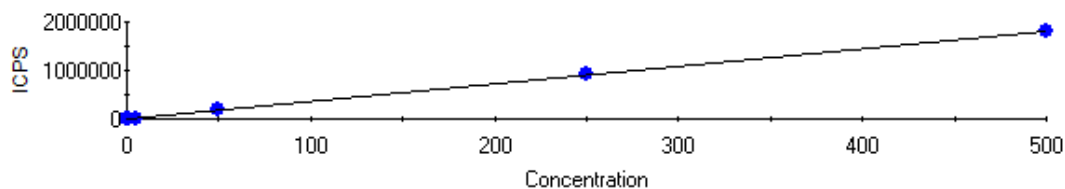
Intercept CPS=170.101817 Intercept Conc=0.712967
Sensitivity=238.583053 Correlation Coeff=0.999916

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.058	0.058	156.25	0.00
237881_10175_Cal1	1.000	0.947	0.053	396.00	5.32
237882_10175_Cal2	5.000	5.041	0.041	1372.77	0.82
237883_10175_Cal3	50.000	50.995	0.995	12336.57	1.99
237884_10175_Cal4	250.000	249.171	0.829	59618.12	0.33
237885_10175_Cal5	500.000	485.428	14.572	115985.10	2.91

78Se FQ Block 1

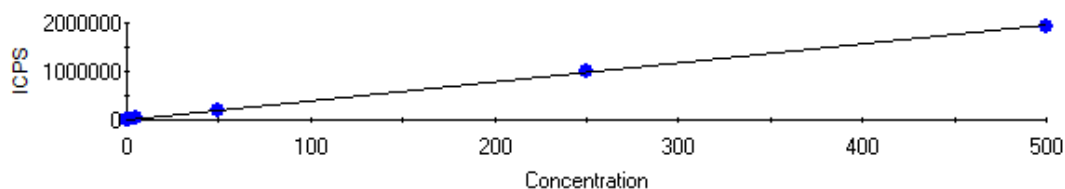
Intercept CPS=13.282245 Intercept Conc=0.379928
Sensitivity=34.959881 Correlation Coeff=0.999841

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.005	0.005	13.10	0.00
237881_10175_Cal1	1.000	0.903	0.097	44.84	9.72
237882_10175_Cal2	5.000	5.367	0.367	200.91	7.34
237883_10175_Cal3	50.000	53.341	3.341	1878.09	6.68
237884_10175_Cal4	250.000	257.703	7.703	9022.56	3.08
237885_10175_Cal5	500.000	497.170	2.830	17394.30	0.57

88Sr FQ Block 1

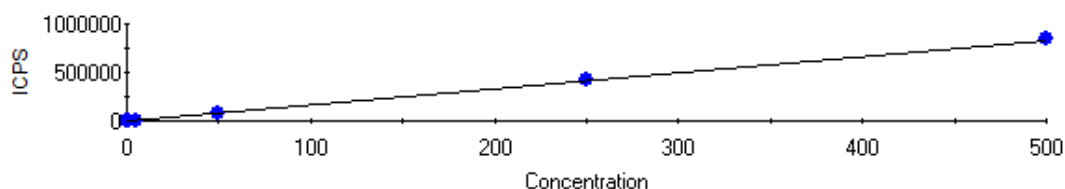
Intercept CPS=454.314138 Intercept Conc=0.126391
Sensitivity=3594.526214 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.004	0.004	441.72	0.00
237881_10175_Cal1	1.000	0.986	0.014	3999.02	1.39
237882_10175_Cal2	5.000	5.055	0.055	18625.88	1.11
237883_10175_Cal3	50.000	50.621	0.621	182412.44	1.24
237884_10175_Cal4	250.000	251.615	1.615	904889.43	0.65
237885_10175_Cal5	500.000	498.020	1.980	1790601.48	0.40

90Zr FQ Block 1

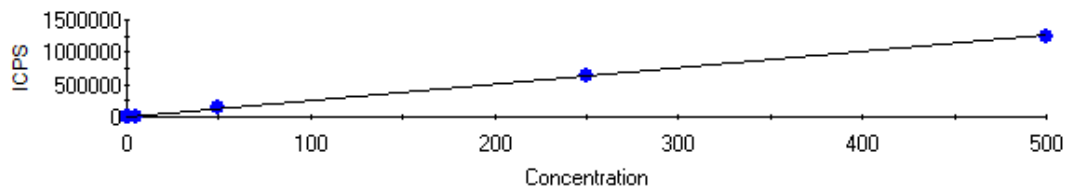
Intercept CPS=590.947875 Intercept Conc=0.151141
Sensitivity=3909.908003 Correlation Coeff=0.999944

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.002	0.002	581.39	0.00
237881_10175_Cal1	1.000	0.939	0.061	4261.37	6.13
237882_10175_Cal2	5.000	5.015	0.015	20198.27	0.30
237883_10175_Cal3	50.000	51.206	1.206	200802.32	2.41
237884_10175_Cal4	250.000	253.205	3.205	990600.19	1.28
237885_10175_Cal5	500.000	495.467	4.533	1937819.60	0.91

95Mo FQ Block 1

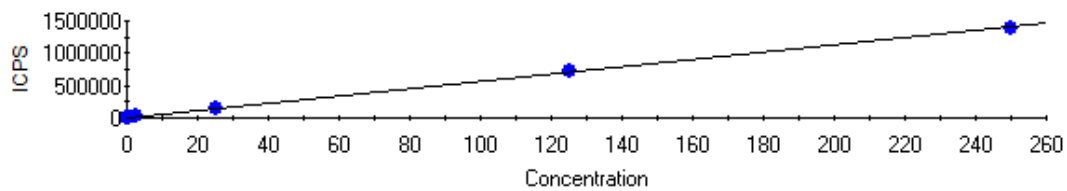
Intercept CPS=166.343042 Intercept Conc=0.099558
Sensitivity=1670.820399 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.012	0.012	186.32	0.00
237881_10175_Cal1	1.000	0.951	0.049	1755.76	4.87
237882_10175_Cal2	5.000	4.928	0.072	8399.75	1.44
237883_10175_Cal3	50.000	49.733	0.267	83260.94	0.53
237884_10175_Cal4	250.000	250.307	0.307	418383.77	0.12
237885_10175_Cal5	500.000	500.836	0.836	836973.90	0.17

105Pd FQ Block 1

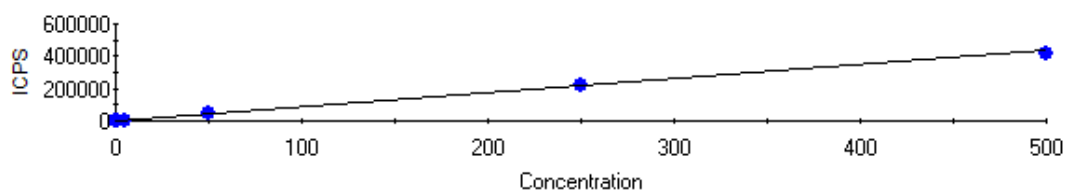
Intercept CPS=970.792370 Intercept Conc=0.385902
Sensitivity=2515.646533 Correlation Coeff=0.999913

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.038	0.038	874.33	0.00
237881_10175_Cal1	1.000	0.980	0.020	3436.84	1.97
237882_10175_Cal2	5.000	5.091	0.091	13778.26	1.82
237883_10175_Cal3	50.000	51.261	1.261	129925.48	2.52
237884_10175_Cal4	250.000	251.761	1.761	634313.25	0.70
237885_10175_Cal5	500.000	490.126	9.874	1233954.92	1.97

107Ag FQ Block 1

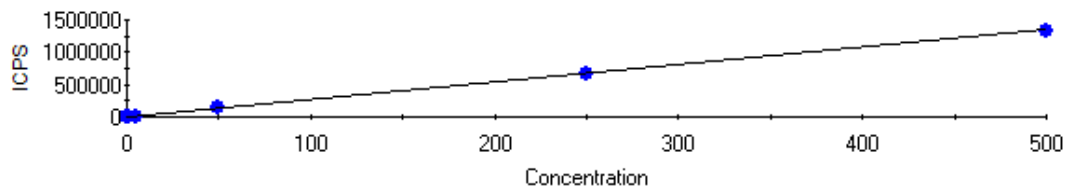
Intercept CPS=654.562485 Intercept Conc=0.115141
Sensitivity=5684.896265 Correlation Coeff=0.999867

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.004	0.004	629.10	0.00
237881_10175_Cal1	0.500	0.473	0.027	3344.48	5.37
237882_10175_Cal2	2.500	2.564	0.064	15232.23	2.57
237883_10175_Cal3	25.000	25.938	0.938	148109.37	3.75
237884_10175_Cal4	125.000	126.043	1.043	717196.96	0.83
237885_10175_Cal5	250.000	243.878	6.122	1387073.45	2.45

111Cd FQ Block 1

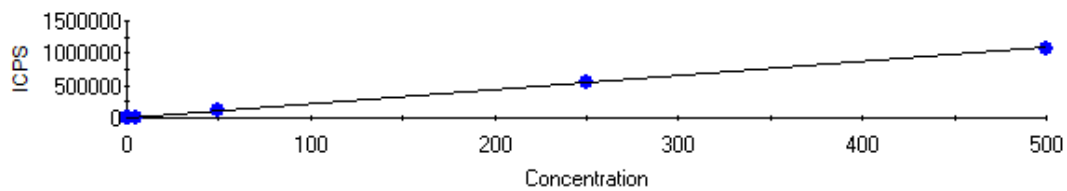
Intercept CPS=57.925522 Intercept Conc=0.066724
Sensitivity=868.135862 Correlation Coeff=0.999896

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.006	0.006	52.99	0.00
237881_10175_Cal1	1.000	0.963	0.037	894.24	3.67
237882_10175_Cal2	5.000	5.160	0.160	4537.46	3.20
237883_10175_Cal3	50.000	50.880	0.880	44228.91	1.76
237884_10175_Cal4	250.000	249.390	0.610	216562.49	0.24
237885_10175_Cal5	500.000	484.223	15.777	420428.86	3.16

118Sn FQ Block 1

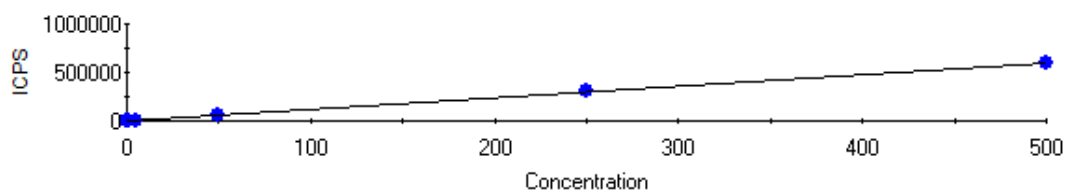
Intercept CPS=388.877946 Intercept Conc=0.143316
Sensitivity=2713.433580 Correlation Coeff=0.999953

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.010	0.010	415.44	0.00
237881_10175_Cal1	1.000	0.924	0.076	2897.12	7.56
237882_10175_Cal2	5.000	5.006	0.006	13973.56	0.13
237883_10175_Cal3	50.000	50.176	0.176	136536.93	0.35
237884_10175_Cal4	250.000	249.460	0.540	677282.01	0.22
237885_10175_Cal5	500.000	489.003	10.997	1327265.97	2.20

121Sb FQ Block 1

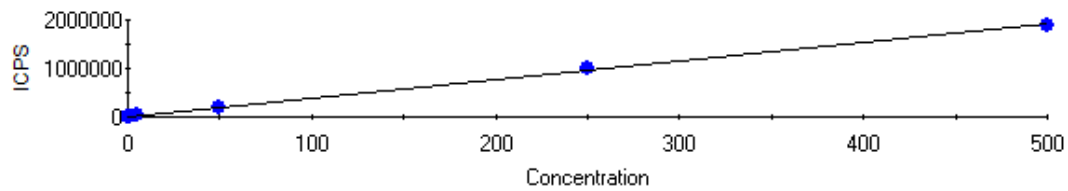
Intercept CPS=210.116291 Intercept Conc=0.094784
Sensitivity=2216.802370 Correlation Coeff=0.999883

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.008	0.008	192.95	0.00
237881_10175_Cal1	1.000	0.979	0.021	2380.73	2.08
237882_10175_Cal2	5.000	5.076	0.076	11463.27	1.53
237883_10175_Cal3	50.000	51.312	1.312	113958.26	2.62
237884_10175_Cal4	250.000	250.227	0.227	554914.24	0.09
237885_10175_Cal5	500.000	485.116	14.884	1075615.81	2.98

137Ba FQ Block 1

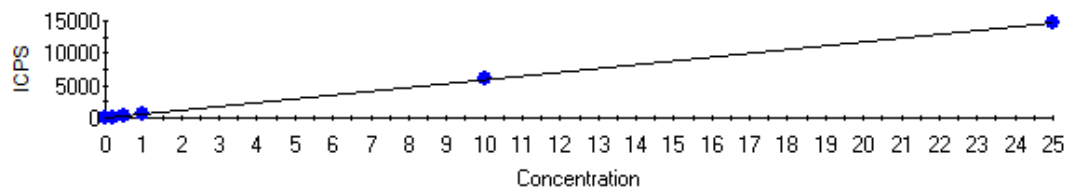
Intercept CPS=98.369372 Intercept Conc=0.081765
Sensitivity=1203.070696 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.009	0.009	108.76	0.00
237881_10175_Cal1	1.000	0.949	0.051	1240.02	5.11
237882_10175_Cal2	5.000	4.928	0.072	6026.72	1.45
237883_10175_Cal3	50.000	49.931	0.069	60168.84	0.14
237884_10175_Cal4	250.000	250.859	0.859	301900.03	0.34
237885_10175_Cal5	500.000	498.718	1.282	600091.52	0.26

195Pt FQ Block 1

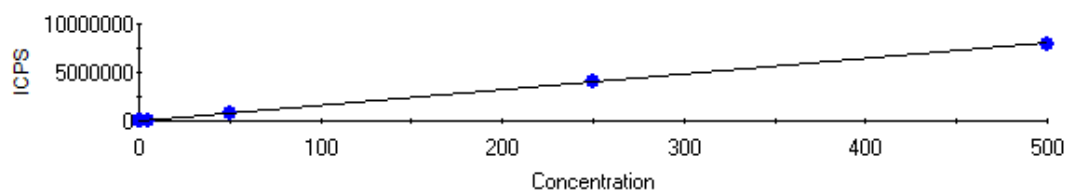
Intercept CPS=251.380234 Intercept Conc=0.065813
Sensitivity=3819.636789 Correlation Coeff=0.999471

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.024	0.024	341.18	0.00
237881_10175_Cal1	1.000	0.994	0.006	4049.90	0.55
237882_10175_Cal2	5.000	5.039	0.039	19499.17	0.78
237883_10175_Cal3	50.000	50.431	0.431	192881.31	0.86
237884_10175_Cal4	250.000	263.609	13.609	1007141.44	5.44
237885_10175_Cal5	500.000	493.295	6.705	1884460.65	1.34

201Hg FQ Block 1

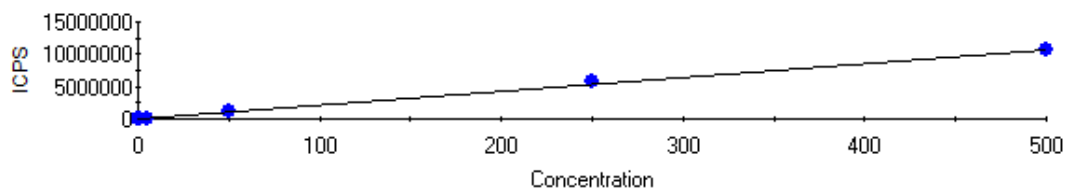
Intercept CPS=19.747494 Intercept Conc=0.033566
Sensitivity=588.310656 Correlation Coeff=0.999818

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.003	0.003	17.79	0.00
237881_10175_Cal1	0.200	0.192	0.008	132.67	4.03
237882_10175_Cal2	0.500	0.536	0.036	335.08	7.20
237883_10175_Cal3	1.000	1.065	0.065	646.01	6.45
237884_10175_Cal4	10.000	10.459	0.459	6172.69	4.59
237885_10175_Cal5	25.000	24.929	0.071	14685.72	0.28

205Tl FQ Block 1

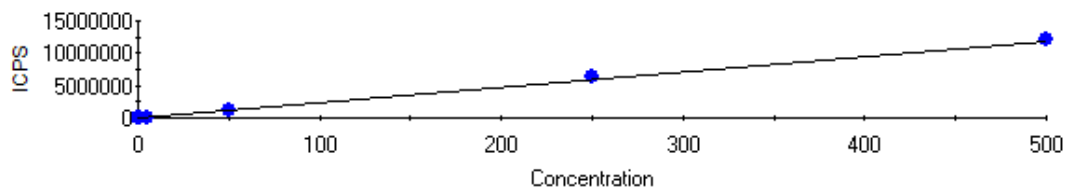
Intercept CPS=1546.460287 Intercept Conc=0.096477
Sensitivity=16029.243349 Correlation Coeff=0.999606

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	1566.51	0.00
237881_10175_Cal1	1.000	0.932	0.068	16491.43	6.76
237882_10175_Cal2	5.000	4.860	0.140	79449.46	2.80
237883_10175_Cal3	50.000	48.924	1.076	785763.34	2.15
237884_10175_Cal4	250.000	257.468	7.468	4128571.62	2.99
237885_10175_Cal5	500.000	486.319	13.681	7796869.99	2.74

208Pb FQ Block 1

Intercept CPS=1596.375537 Intercept Conc=0.075109
Sensitivity=21254.191260 Correlation Coeff=0.999545

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.022	0.022	2060.63	0.00
237881_10175_Cal1	1.000	0.994	0.006	22713.54	0.64
237882_10175_Cal2	5.000	4.991	0.009	107681.46	0.17
237883_10175_Cal3	50.000	50.266	0.266	1069967.81	0.53
237884_10175_Cal4	250.000	264.643	14.643	5626367.56	5.86
237885_10175_Cal5	500.000	497.728	2.272	10580398.20	0.45

238U FQ Block 1

Intercept CPS=1467.897392 Intercept Conc=0.061405
Sensitivity=23905.201085 Correlation Coeff=0.999737

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.000	0.000	1471.84	0.00
237881_10175_Cal1	1.000	0.980	0.020	24886.57	2.04
237882_10175_Cal2	5.000	5.019	0.019	121448.26	0.38
237883_10175_Cal3	50.000	49.500	0.500	1184766.50	1.00
237884_10175_Cal4	250.000	264.668	14.668	6328403.86	5.87
237885_10175_Cal5	500.000	505.520	5.520	12086026.16	1.10

Dilution Corrected Concentrations

237880_10175_Cal0 10/18/2019 2:15:23 AM

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	02:15:26	0.027	-0.046	0.031	-0.492	0.390	-0.031	-0.953	-1.528	109.400	1477000.000
2	02:15:30	0.015	0.014	-0.281	-0.225	-1.367	-0.087	0.179	0.061	136.000	1484000.000
3	02:15:34	0.001	-0.025	0.086	0.377	-1.875	0.091	-0.553	-4.098	107.100	1478000.000
x		0.014	-0.019	-0.054	-0.113	-0.951	-0.009	-0.442	-1.855	117.500	1479000.000
σ		0.013	0.030	0.198	0.445	1.189	0.091	0.574	2.098	16.070	3542.000
%RSD		89.890	158.500	363.100	392.700	125.000	1014.000	129.700	113.100	13.680	0.239
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	02:15:26	-5.595	9.119	99.254%	99.675%	0.082	0.133	0.008	4.693	-0.635	0.001
2	02:15:30	-4.755	6.113	99.792%	99.965%	-0.039	-0.042	-0.003	4.899	-0.288	-0.002
3	02:15:34	-1.172	-6.155	100.954%	100.360%	-0.040	0.041	-0.002	4.842	-0.084	0.001
x		-3.841	3.026	100.000%	100.000%	0.001	0.044	0.001	4.811	-0.336	0.000
σ		2.349	8.091	0.869%	0.344%	0.070	0.087	0.006	0.106	0.278	0.002
%RSD		61.170	267.400	0.869	0.344	6659.000	197.700	690.600	2.209	82.940	1905.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:26	0.003	0.089	0.026	-0.086	98.638%	-0.091	-0.003	0.005	98.296%	-0.006
2	02:15:30	-0.004	0.057	-0.009	0.082	101.438%	-0.049	0.011	-0.015	100.647%	-0.008
3	02:15:34	0.004	0.109	0.008	0.012	99.924%	-0.034	-0.023	-0.001	101.057%	0.007
x		0.001	0.085	0.008	0.002	100.000%	-0.058	-0.005	-0.004	100.000%	-0.002
σ		0.004	0.027	0.018	0.084	1.402%	0.030	0.017	0.010	1.490%	0.008
%RSD		451.300	31.270	211.600	3637.000	1.402	51.190	330.700	288.200	1.490	344.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:15:26	-0.001	-0.024	-0.013	-0.017	98.107%	0.006	-0.022	-0.005	98.531%	0.015
2	02:15:30	0.015	-0.066	-0.001	-0.006	100.642%	0.006	0.004	0.025	100.520%	0.021
3	02:15:34	0.021	-0.025	0.001	0.006	101.251%	0.017	-0.005	0.006	100.949%	0.034
x		0.012	-0.038	-0.004	-0.006	100.000%	0.010	-0.008	0.009	100.000%	0.024
σ		0.011	0.024	0.007	0.012	1.667%	0.006	0.013	0.015	1.291%	0.010
%RSD		96.010	61.420	164.800	209.100	1.667	62.690	172.100	172.900	1.291	42.770
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:15:26	0.001	-0.000	0.026	98.313%	0.000					
2	02:15:30	-0.011	0.001	0.016	100.673%	-0.001					
3	02:15:34	0.000	0.003	0.024	101.014%	0.002					
x		-0.003	0.001	0.022	100.000%	0.000					
σ		0.007	0.002	0.005	1.471%	0.002					
%RSD		202.100	123.100	22.470	1.471	1027.000					

237881_10175_Cal1

10/18/2019 2:22:36 AM

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	02:22:40	0.975	0.991	1.587	254.000	257.600	255.600	53.330	37.870	124.400	1501000.000
2	02:22:43	0.964	0.989	1.419	257.900	260.200	261.100	57.770	50.760	112.900	1488000.000
3	02:22:47	0.941	1.006	1.110	250.200	252.700	262.600	54.750	53.700	106.400	1468000.000
x		0.960	0.995	1.372	254.000	256.800	259.700	55.280	47.440	114.600	1486000.000
σ		0.017	0.009	0.242	3.854	3.789	3.665	2.269	8.420	9.126	16850.000
%RSD		1.812	0.948	17.670	1.517	1.475	1.411	4.104	17.750	7.964	1.134
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	02:22:40	250.600	254.800	99.478%	99.793%	1.162	0.753	0.796	5.742	250.400	0.920
2	02:22:43	252.700	275.800	100.386%	101.132%	1.057	0.904	0.911	5.381	251.000	0.992
3	02:22:47	252.000	215.400	101.998%	100.716%	0.662	0.953	0.868	4.981	251.200	0.988
x		251.700	248.600	100.620%	100.547%	0.960	0.870	0.858	5.368	250.900	0.966
σ		1.062	30.660	1.276%	0.685%	0.263	0.104	0.058	0.381	0.403	0.040
%RSD		0.422	12.330	1.268	0.681	27.420	12.000	6.782	7.095	0.161	4.190
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:40	0.970	0.993	0.859	1.327	101.415%	0.902	0.985	0.957	99.173%	0.887
2	02:22:43	0.957	1.000	0.923	1.095	105.309%	0.891	0.809	1.040	101.073%	0.954
3	02:22:47	1.004	0.987	0.786	1.212	104.112%	1.047	0.914	0.962	101.822%	0.976
x		0.977	0.993	0.856	1.211	103.612%	0.947	0.903	0.986	100.689%	0.939
σ		0.024	0.007	0.069	0.116	1.995%	0.087	0.088	0.047	1.366%	0.046
%RSD		2.467	0.702	8.023	9.602	1.925	9.214	9.768	4.723	1.357	4.933
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:40	0.967	0.975	0.489	0.934	100.057%	0.941	0.990	0.932	97.787%	0.990
2	02:22:43	0.921	0.982	0.471	0.961	102.183%	0.923	0.948	0.921	100.073%	0.994
3	02:22:47	0.966	0.984	0.460	0.996	102.633%	0.909	0.999	0.994	101.731%	1.000
x		0.951	0.980	0.473	0.963	101.624%	0.924	0.979	0.949	99.864%	0.995
σ		0.026	0.005	0.015	0.031	1.376%	0.016	0.027	0.039	1.980%	0.005
%RSD		2.757	0.474	3.064	3.232	1.354	1.752	2.807	4.127	1.983	0.481
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:22:40	0.209	0.948	0.995	98.345%	0.969					
2	02:22:43	0.192	0.920	0.995	100.371%	0.996					
3	02:22:47	0.175	0.929	0.991	101.443%	0.974					
x		0.192	0.932	0.994	100.053%	0.980					
σ		0.017	0.014	0.003	1.573%	0.014					
%RSD		8.799	1.518	0.268	1.573	1.471					

237882_10175_Cal2

10/18/2019 2:29:49 AM

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	02:29:52	5.071	4.976	4.772	512.700	505.200	509.100	245.400	261.500	122.500	1479000.000
2	02:29:56	4.987	4.802	4.856	505.100	520.500	515.500	265.500	275.500	109.200	1462000.000
3	02:29:59	5.043	4.992	5.548	502.800	508.500	503.700	267.600	277.600	123.900	1461000.000
x		5.034	4.923	5.059	506.800	511.400	509.400	259.500	271.500	118.500	1467000.000
σ		0.043	0.106	0.426	5.184	8.028	5.897	12.260	8.704	8.103	10010.000
%RSD		0.859	2.146	8.415	1.023	1.570	1.158	4.726	3.206	6.837	0.682
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	02:29:52	494.400	465.000	99.926%	100.509%	5.272	5.021	5.152	6.420	497.200	4.817
2	02:29:56	496.400	465.500	100.717%	101.220%	4.635	4.958	5.038	6.059	497.800	4.953
3	02:29:59	498.400	488.400	102.599%	101.865%	5.321	5.029	4.969	6.032	494.100	5.000
x		496.400	473.000	101.081%	101.198%	5.076	5.003	5.053	6.170	496.400	4.923
σ		2.014	13.360	1.373%	0.678%	0.383	0.039	0.092	0.216	2.004	0.095
%RSD		0.406	2.824	1.359	0.670	7.536	0.774	1.825	3.507	0.404	1.935
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:52	5.007	5.006	4.971	4.778	101.869%	5.067	4.964	5.211	99.216%	5.048
2	02:29:56	4.993	5.104	4.960	4.749	104.616%	5.011	5.606	4.951	100.738%	4.966
3	02:29:59	4.946	5.014	4.832	4.886	106.044%	5.045	5.532	5.003	102.283%	5.030
x		4.982	5.042	4.921	4.805	104.176%	5.041	5.367	5.055	100.746%	5.015
σ		0.032	0.054	0.077	0.072	2.122%	0.028	0.351	0.138	1.533%	0.043
%RSD		0.646	1.078	1.569	1.502	2.037	0.559	6.546	2.722	1.522	0.856
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:29:52	4.905	5.095	2.589	5.136	100.046%	4.989	5.092	4.799	97.907%	4.913
2	02:29:56	5.003	5.100	2.559	5.264	102.509%	5.056	5.026	4.985	100.273%	5.152
3	02:29:59	4.875	5.078	2.545	5.080	103.193%	4.975	5.111	4.999	101.088%	5.053
x		4.928	5.091	2.564	5.160	101.916%	5.006	5.076	4.928	99.756%	5.039
σ		0.067	0.011	0.022	0.094	1.655%	0.043	0.045	0.112	1.652%	0.120
%RSD		1.362	0.223	0.873	1.827	1.624	0.864	0.888	2.266	1.656	2.373
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:29:52	0.525	4.886	4.976	98.004%	5.036					
2	02:29:56	0.505	4.867	5.022	99.543%	5.020					
3	02:29:59	0.578	4.827	4.976	100.609%	5.001					
x		0.536	4.860	4.991	99.385%	5.019					
σ		0.038	0.030	0.026	1.310%	0.018					
%RSD		7.049	0.622	0.529	1.318	0.355					

237883_10175_Cal3

10/18/2019 2:37:02 AM

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	02:37:06	50.700	52.870	50.400	2558.000	2618.000	2607.000	2576.000	2535.000	91.650	1546000.000
2	02:37:09	51.030	52.550	51.800	2518.000	2523.000	2562.000	2550.000	2525.000	110.600	1515000.000
3	02:37:13	50.790	52.820	50.280	2573.000	2620.000	2615.000	2575.000	2513.000	105.600	1536000.000
x		50.840	52.750	50.820	2550.000	2587.000	2595.000	2567.000	2524.000	102.600	1532000.000
σ		0.170	0.172	0.847	28.380	55.310	28.930	15.030	11.030	9.834	15630.000
%RSD		0.334	0.327	1.666	1.113	2.138	1.115	0.586	0.437	9.582	1.020
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:06	2549.000	2531.000	108.577%	106.906%	49.440	51.350	50.740	14.360	2506.000	50.620
2	02:37:09	2520.000	2552.000	112.754%	108.501%	50.820	50.470	51.050	14.530	2497.000	50.470
3	02:37:13	2588.000	2573.000	111.834%	108.812%	49.140	51.250	51.380	14.490	2537.000	51.450
x		2552.000	2552.000	111.055%	108.073%	49.800	51.020	51.060	14.460	2513.000	50.850
σ		34.240	21.440	2.194%	1.022%	0.894	0.484	0.317	0.091	21.020	0.526
%RSD		1.342	0.840	1.976	0.946	1.796	0.948	0.622	0.630	0.836	1.035
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:06	51.400	51.690	50.950	50.430	110.668%	51.000	52.990	50.770	105.683%	51.370
2	02:37:09	50.670	51.860	51.160	50.270	114.252%	50.790	53.380	50.620	109.161%	51.170
3	02:37:13	51.300	50.840	51.450	50.430	114.361%	51.190	53.650	50.470	110.348%	51.090
x		51.130	51.460	51.190	50.380	113.094%	50.990	53.340	50.620	108.397%	51.210
σ		0.394	0.548	0.255	0.095	2.101%	0.201	0.334	0.155	2.424%	0.143
%RSD		0.770	1.065	0.497	0.190	1.858	0.394	0.625	0.305	2.236	0.280
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:37:06	49.830	51.330	25.830	50.750	106.007%	50.090	51.410	49.790	104.135%	50.670
2	02:37:09	49.900	51.250	25.960	50.960	110.081%	50.180	51.440	50.270	107.260%	50.470
3	02:37:13	49.470	51.200	26.030	50.930	110.670%	50.250	51.090	49.730	108.156%	50.150
x		49.730	51.260	25.940	50.880	108.919%	50.180	51.310	49.930	106.517%	50.430
σ		0.233	0.064	0.102	0.114	2.539%	0.079	0.192	0.300	2.111%	0.262
%RSD		0.469	0.125	0.394	0.224	2.331	0.158	0.373	0.600	1.982	0.519
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:37:06	1.069	49.040	50.400	102.487%	49.380					
2	02:37:09	1.091	48.970	50.120	106.357%	49.460					
3	02:37:13	1.033	48.760	50.280	107.103%	49.660					
x		1.065	48.920	50.270	105.315%	49.500					
σ		0.029	0.143	0.144	2.478%	0.148					
%RSD		2.723	0.293	0.286	2.353	0.299					

237884_10175_Cal4

10/18/2019 2:44:17 AM

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	02:44:20	250.100	254.600	252.000	12220.000	12590.000	12540.000	12380.000	12350.000	100.600	1722000.000
2	02:44:24	250.400	252.600	250.400	12110.000	12510.000	12440.000	12250.000	12320.000	90.060	1678000.000
3	02:44:28	249.400	250.700	248.400	12530.000	12810.000	12730.000	12410.000	12540.000	87.110	1698000.000
x		249.900	252.700	250.200	12290.000	12640.000	12570.000	12350.000	12400.000	92.590	1699000.000
σ		0.492	1.952	1.806	219.900	155.200	146.300	87.380	122.400	7.094	22150.000
%RSD		0.197	0.773	0.722	1.790	1.228	1.164	0.708	0.987	7.661	1.304
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	02:44:20	12330.000	12680.000	118.321%	115.115%	254.400	252.800	251.500	52.650	12050.000	251.100
2	02:44:24	12250.000	12500.000	123.189%	116.068%	249.300	250.300	250.400	48.090	11960.000	250.500
3	02:44:28	12420.000	13000.000	122.436%	115.417%	249.700	253.100	251.500	51.140	12150.000	252.100
x		12330.000	12730.000	121.315%	115.533%	251.100	252.100	251.100	50.620	12060.000	251.200
σ		88.900	251.600	2.620%	0.487%	2.871	1.539	0.600	2.321	95.310	0.798
%RSD		0.721	1.977	2.160	0.422	1.143	0.610	0.239	4.585	0.790	0.318
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:20	252.000	253.600	249.900	243.200	117.638%	248.400	254.500	251.500	113.498%	252.800
2	02:44:24	250.200	251.600	249.900	241.900	121.805%	250.200	258.000	251.500	117.089%	254.200
3	02:44:28	250.700	254.000	250.400	247.200	122.719%	248.900	260.600	251.900	117.966%	252.700
x		251.000	253.100	250.100	244.100	120.721%	249.200	257.700	251.600	116.184%	253.200
σ		0.916	1.299	0.282	2.759	2.709%	0.951	3.096	0.236	2.367%	0.848
%RSD		0.365	0.513	0.113	1.130	2.244	0.382	1.201	0.094	2.038	0.335
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:44:20	250.900	250.800	125.400	249.700	113.009%	249.400	250.100	250.700	111.007%	259.800
2	02:44:24	250.600	253.000	126.400	249.700	117.504%	250.000	250.100	251.600	115.412%	265.500
3	02:44:28	249.400	251.400	126.300	248.800	118.815%	248.900	250.500	250.200	115.792%	265.500
x		250.300	251.800	126.000	249.400	116.443%	249.500	250.200	250.900	114.070%	263.600
σ		0.819	1.153	0.553	0.535	3.045%	0.584	0.254	0.687	2.660%	3.276
%RSD		0.327	0.458	0.439	0.214	2.615	0.234	0.102	0.274	2.332	1.243
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:44:20	10.180	257.900	261.300	102.422%	264.600					
2	02:44:24	10.450	256.700	265.000	103.348%	262.600					
3	02:44:28	10.750	257.800	267.600	103.725%	266.800					
x		10.460	257.500	264.600	103.165%	264.700					
σ		0.285	0.690	3.197	0.670%	2.093					
%RSD		2.722	0.268	1.208	0.650	0.791					

237885_10175_Cal5

10/18/2019 2:51:31 AM

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	02:51:35	496.800	490.100	<u>M 501.800</u>	<u>T 24900.000</u>	24350.000	24450.000	23570.000	23240.000	91.250	<u>T 1914000.000</u>
2	02:51:39	495.500	490.700	495.500	<u>T 24790.000</u>	24690.000	24630.000	23900.000	23710.000	92.940	<u>T 1893000.000</u>
3	02:51:42	494.300	488.700	492.900	<u>T 24620.000</u>	24630.000	24690.000	24010.000	23720.000	93.870	<u>T 1912000.000</u>
X		495.500	489.800	<u>M 496.700</u>	<u>T 24770.000</u>	24560.000	24590.000	23830.000	23560.000	92.690	<u>T 1907000.000</u>
σ		1.278	1.039	<u>M 4.596</u>	<u>T 140.100</u>	178.000	126.600	229.800	272.400	1.329	<u>T 11790.000</u>
%RSD		0.258	0.212	<u>M 0.925</u>	<u>T 0.566</u>	0.725	0.515	0.965	1.157	1.434	<u>T 0.619</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	02:51:35	<u>TM 25100.000</u>	24800.000	122.625%	115.270%	<u>M 502.100</u>	491.800	489.800	93.590	<u>T 24710.000</u>	487.300
2	02:51:39	<u>T 24960.000</u>	24930.000	123.976%	117.610%	<u>M 501.100</u>	496.000	493.400	96.270	<u>T 24570.000</u>	492.900
3	02:51:42	<u>TM 25100.000</u>	24650.000	124.780%	117.767%	494.100	496.200	491.600	97.690	<u>T 24340.000</u>	491.000
X		<u>TM 25060.000</u>	24800.000	123.794%	116.882%	<u>M 499.100</u>	494.700	491.600	95.850	<u>T 24540.000</u>	490.400
σ		<u>TM 81.310</u>	142.400	1.089%	1.399%	<u>M 4.344</u>	2.474	1.810	2.082	<u>T 186.400</u>	2.876
%RSD		<u>TM 0.325</u>	0.574	0.880	1.197	<u>M 0.870</u>	0.500	0.368	2.172	<u>T 0.759</u>	0.586
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:51:35	483.500	493.500	481.200	470.600	116.604%	484.800	497.700	498.100	113.756%	496.100
2	02:51:39	490.600	497.300	486.700	476.200	118.783%	488.100	497.700	498.300	117.080%	494.600
3	02:51:42	486.800	495.700	484.100	473.100	120.381%	483.400	496.100	497.600	117.668%	495.700
X		487.000	495.500	484.000	473.300	118.589%	485.400	497.200	498.000	116.168%	495.500
σ		3.531	1.892	2.769	2.815	1.896%	2.410	0.911	0.341	2.109%	0.747
%RSD		0.725	0.382	0.572	0.595	1.599	0.497	0.183	0.068	1.816	0.151
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:51:35	499.500	489.600	243.300	483.500	114.838%	486.500	483.400	498.200	113.320%	491.100
2	02:51:39	<u>M 501.800</u>	490.200	243.600	483.100	117.722%	488.700	486.600	<u>M 500.300</u>	116.416%	492.200
3	02:51:42	<u>M 501.300</u>	490.600	244.700	486.100	117.632%	491.900	485.400	497.700	116.665%	496.600
X		<u>M 500.800</u>	490.100	243.900	484.200	116.731%	489.000	485.100	<u>M 498.700</u>	115.467%	493.300
σ		<u>M 1.217</u>	0.518	0.722	1.644	1.640%	2.739	1.623	<u>M 1.343</u>	1.863%	2.884
%RSD		<u>M 0.243</u>	0.106	0.296	0.339	1.405	0.560	0.335	<u>M 0.269</u>	1.614	0.585
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:51:35	24.860	<u>T 492.900</u>	<u>TM 504.300</u>	106.932%	<u>TM 511.200</u>					
2	02:51:39	24.870	<u>T 482.300</u>	<u>T 492.300</u>	110.035%	<u>TM 500.900</u>					
3	02:51:42	<u>M 25.060</u>	<u>T 483.700</u>	<u>T 496.500</u>	109.924%	<u>TM 504.500</u>					
X		<u>M 24.930</u>	<u>T 486.300</u>	<u>TM 497.700</u>	108.964%	<u>TM 505.500</u>					
σ		<u>M 0.113</u>	<u>T 5.770</u>	<u>TM 6.099</u>	1.761%	<u>TM 5.253</u>					
%RSD		<u>M 0.451</u>	<u>T 1.186</u>	<u>TM 1.225</u>	1.616	<u>TM 1.039</u>					

237751_10175_ICV

10/18/2019 2:58:44 AM

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	02:58:48	109.200	112.700	111.100	5503.000	5655.000	5602.000	5764.000	5620.000	89.670	1477000.000
2	02:58:52	108.600	112.700	110.900	5537.000	5617.000	5619.000	5852.000	5664.000	100.800	1470000.000
3	02:58:55	109.500	112.500	110.800	5522.000	5651.000	5643.000	5858.000	5611.000	72.400	1466000.000
x		109.100	112.600	110.900	5521.000	5641.000	5621.000	5825.000	5632.000	87.630	1471000.000
σ		0.437	0.137	0.132	17.120	20.940	20.740	52.800	28.170	14.320	5917.000
%RSD		0.401	0.122	0.119	0.310	0.371	0.369	0.906	0.500	16.340	0.402
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:58:48	5375.000	5624.000	118.944%	119.031%	110.100	109.900	109.300	21.590	5296.000	107.700
2	02:58:52	5465.000	5431.000	120.423%	118.577%	112.000	111.100	111.400	26.260	5372.000	108.900
3	02:58:55	5483.000	5482.000	120.348%	119.186%	110.600	112.100	112.200	20.710	5367.000	109.500
x		5441.000	5512.000	119.905%	118.931%	110.900	111.000	111.000	22.850	5345.000	108.700
σ		57.920	100.400	0.833%	0.316%	1.016	1.087	1.518	2.984	42.270	0.899
%RSD		1.064	1.821	0.695	0.266	0.916	0.979	1.368	13.060	0.791	0.827
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:58:48	108.200	109.200	109.300	108.600	120.597%	106.000	115.300	109.200	114.676%	111.300
2	02:58:52	109.400	110.400	110.000	110.100	122.820%	106.300	116.000	109.900	117.172%	111.800
3	02:58:55	110.000	111.900	111.800	108.600	122.237%	107.100	118.000	110.200	117.615%	112.200
x		109.200	110.500	110.300	109.100	121.885%	106.400	116.400	109.800	116.488%	111.800
σ		0.921	1.339	1.266	0.874	1.153%	0.555	1.434	0.507	1.584%	0.445
%RSD		0.844	1.212	1.148	0.801	0.946	0.521	1.232	0.462	1.360	0.398
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:58:48	101.000	106.600	55.550	110.500	114.593%	111.600	112.200	108.200	111.152%	106.100
2	02:58:52	102.200	107.200	55.460	110.900	117.148%	111.400	113.100	108.800	114.794%	106.700
3	02:58:55	102.400	107.200	55.890	110.900	117.215%	112.000	113.900	108.400	114.718%	107.100
x		101.900	107.000	55.640	110.800	116.319%	111.700	113.000	108.500	113.555%	106.600
σ		0.778	0.366	0.226	0.226	1.495%	0.330	0.840	0.290	2.081%	0.539
%RSD		0.764	0.342	0.407	0.204	1.286	0.295	0.743	0.267	1.833	0.506
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	02:58:48	3.990	102.800	107.600	108.817%	106.400					
2	02:58:52	4.251	102.800	107.800	111.868%	106.300					
3	02:58:55	4.139	103.000	107.900	112.753%	106.600					
x		4.127	102.900	107.800	111.146%	106.400					
σ		0.131	0.123	0.187	2.065%	0.153					
%RSD		3.171	0.119	0.173	1.858	0.143					

237880_10175_ICBTVA

10/18/2019 3:05:59 AM

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	03:06:02	0.017	-0.007	1.147	1.480	-2.090	2.056	0.893	-5.205	82.130	1516000.000
2	03:06:06	0.036	0.045	1.202	1.382	-1.482	0.615	0.854	-6.017	80.930	1486000.000
3	03:06:10	0.036	0.008	1.050	1.673	-2.233	1.794	4.034	-2.095	89.940	1495000.000
x		0.030	0.015	1.133	1.512	-1.935	1.489	1.927	-4.439	84.330	1499000.000
σ		0.011	0.026	0.077	0.148	0.399	0.768	1.825	2.070	4.893	15530.000
%RSD		37.140	172.300	6.766	9.793	20.620	51.570	94.670	46.640	5.802	1.036
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	03:06:02	3.172	-6.590	112.472%	115.589%	0.073	-0.051	0.074	5.442	0.507	0.010
2	03:06:06	-1.947	1.286	114.721%	115.650%	0.042	-0.023	0.070	5.828	-0.179	0.002
3	03:06:10	1.055	1.423	114.877%	115.527%	-0.087	-0.047	0.075	5.420	0.358	0.007
x		0.760	-1.293	114.024%	115.588%	0.009	-0.040	0.073	5.564	0.229	0.006
σ		2.572	4.587	1.346%	0.062%	0.085	0.015	0.002	0.230	0.361	0.004
%RSD		338.600	354.600	1.180	0.053	929.400	38.070	3.136	4.124	157.800	66.550
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:06:02	0.012	0.141	-0.029	0.130	110.375%	0.086	0.031	0.020	109.767%	0.029
2	03:06:06	0.014	0.080	-0.054	0.080	114.336%	0.006	-0.044	0.020	110.815%	0.013
3	03:06:10	0.027	0.082	-0.078	0.000	112.527%	0.023	0.048	-0.002	111.715%	0.021
x		0.018	0.101	-0.054	0.070	112.412%	0.038	0.011	0.013	110.766%	0.021
σ		0.008	0.034	0.024	0.065	1.983%	0.042	0.049	0.013	0.975%	0.008
%RSD		46.840	34.000	45.320	93.110	1.764	109.400	430.400	99.740	0.880	39.120
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:06:02	0.040	-0.068	0.002	0.011	107.644%	0.065	0.019	0.047	105.410%	0.061
2	03:06:06	0.040	-0.063	0.004	0.029	109.648%	0.038	0.027	0.043	106.607%	0.049
3	03:06:10	0.045	-0.039	-0.001	0.050	109.445%	0.049	0.022	0.036	107.410%	0.030
x		0.042	-0.057	0.002	0.030	108.912%	0.051	0.023	0.042	106.475%	0.047
σ		0.003	0.016	0.003	0.019	1.103%	0.014	0.004	0.005	1.006%	0.016
%RSD		6.893	27.380	161.400	64.420	1.013	27.340	18.250	13.130	0.945	33.770
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:06:02	0.007	0.103	0.045	102.948%	0.023					
2	03:06:06	0.002	0.096	0.037	104.634%	0.022					
3	03:06:10	0.002	0.091	0.042	105.203%	0.023					
x		0.004	0.097	0.041	104.262%	0.023					
σ		0.002	0.006	0.004	1.173%	0.000					
%RSD		66.350	6.418	10.250	1.125	1.505					

237881_10175_CRDL_A1

10/18/2019 3:13:12 AM

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	03:13:15	0.924	1.007	1.859	258.400	254.300	261.700	59.970	49.480	91.470	1540000.000
2	03:13:19	1.007	0.962	1.975	254.500	258.100	255.600	54.450	63.630	88.790	1502000.000
3	03:13:23	0.993	0.907	1.803	252.000	261.900	259.600	55.710	62.550	86.540	1499000.000
x		0.975	0.958	1.879	255.000	258.100	259.000	56.710	58.550	88.940	1513000.000
σ		0.045	0.050	0.088	3.220	3.794	3.116	2.892	7.876	2.468	22640.000
%RSD		4.574	5.226	4.660	1.263	1.470	1.203	5.100	13.450	2.775	1.496
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	03:13:15	256.700	231.600	115.034%	116.664%	0.768	0.901	0.961	6.434	250.200	0.950
2	03:13:19	248.500	226.600	118.507%	117.922%	0.840	1.062	0.954	5.838	252.500	0.965
3	03:13:23	257.500	220.800	118.836%	117.670%	1.134	0.887	0.937	6.422	253.900	0.974
x		254.200	226.300	117.459%	117.419%	0.914	0.950	0.951	6.231	252.200	0.963
σ		4.964	5.418	2.106%	0.666%	0.194	0.097	0.013	0.340	1.852	0.012
%RSD		1.952	2.394	1.793	0.567	21.250	10.220	1.343	5.462	0.734	1.271
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:15	1.000	0.954	0.830	0.960	115.441%	1.033	0.923	0.943	111.305%	0.979
2	03:13:19	0.986	1.082	0.866	1.043	116.665%	0.947	1.115	1.003	113.842%	0.947
3	03:13:23	1.005	0.918	0.745	0.996	118.095%	1.065	1.038	1.008	113.498%	0.960
x		0.997	0.985	0.814	1.000	116.734%	1.015	1.026	0.985	112.882%	0.962
σ		0.010	0.086	0.062	0.041	1.328%	0.061	0.096	0.036	1.376%	0.016
%RSD		0.987	8.781	7.625	4.149	1.138	6.012	9.407	3.689	1.219	1.670
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:13:15	0.949	0.920	0.515	1.000	110.113%	0.996	1.047	1.000	104.853%	1.021
2	03:13:19	0.967	0.974	0.503	0.937	112.701%	0.985	0.976	0.978	107.074%	1.044
3	03:13:23	0.975	0.935	0.479	0.956	113.139%	0.956	1.000	0.892	107.048%	1.031
x		0.964	0.943	0.499	0.964	111.984%	0.979	1.008	0.957	106.325%	1.032
σ		0.013	0.028	0.018	0.032	1.636%	0.021	0.036	0.057	1.275%	0.012
%RSD		1.375	2.965	3.647	3.341	1.461	2.113	3.574	5.954	1.199	1.116
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:13:15	0.151	1.003	1.013	101.854%	0.997					
2	03:13:19	0.214	0.992	1.005	104.869%	0.985					
3	03:13:23	0.191	1.010	1.000	105.706%	1.007					
x		0.185	1.001	1.006	104.143%	0.997					
σ		0.032	0.009	0.007	2.026%	0.011					
%RSD		17.230	0.914	0.668	1.945	1.114					

237882_10175_CRDL_B1

10/18/2019 3:20:26 AM

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	03:20:30	5.011	4.955	6.291	505.600	538.100	513.700	270.400	283.100	100.000	<u>1530000.000</u>
2	03:20:33	5.029	5.240	5.313	497.000	516.700	509.700	261.700	259.600	93.510	<u>1492000.000</u>
3	03:20:37	4.952	4.868	6.046	516.700	525.300	516.100	266.300	261.300	90.470	<u>1503000.000</u>
x		4.997	5.021	5.883	506.400	526.700	513.200	266.100	268.000	94.680	<u>1508000.000</u>
σ		0.041	0.195	0.509	9.874	10.810	3.254	4.317	13.100	4.891	<u>19930.000</u>
%RSD		0.812	3.875	8.651	1.950	2.052	0.634	1.622	4.887	5.166	<u>1.321</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	03:20:30	492.500	502.800	116.125%	117.650%	5.719	4.842	5.185	7.124	491.900	5.039
2	03:20:33	499.600	421.500	119.654%	119.583%	5.229	5.143	5.030	6.658	492.600	5.016
3	03:20:37	509.100	530.100	118.412%	119.114%	5.350	4.984	4.964	7.281	495.100	4.955
x		500.400	484.800	118.064%	118.782%	5.433	4.990	5.060	7.021	493.200	5.003
σ		8.338	56.510	1.790%	1.009%	0.255	0.150	0.113	0.324	1.681	0.043
%RSD		1.666	11.660	1.516	0.849	4.699	3.010	2.240	4.617	0.341	0.867
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:20:30	5.028	4.987	4.870	4.778	117.306%	5.020	4.791	5.064	111.106%	5.028
2	03:20:33	5.041	5.163	4.934	4.904	118.592%	4.996	5.706	5.006	113.950%	5.078
3	03:20:37	5.016	5.281	4.833	4.929	120.597%	5.004	4.977	5.081	114.554%	5.068
x		5.028	5.144	4.879	4.870	118.832%	5.007	5.158	5.050	113.203%	5.058
σ		0.012	0.148	0.051	0.081	1.658%	0.012	0.484	0.039	1.842%	0.027
%RSD		0.246	2.872	1.046	1.656	1.396	0.238	9.384	0.777	1.627	0.526
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:20:30	4.960	5.089	2.552	4.845	110.480%	4.928	5.143	5.087	105.345%	5.059
2	03:20:33	4.841	5.067	2.551	5.277	113.201%	4.828	5.021	5.079	107.829%	4.977
3	03:20:37	4.962	5.041	2.530	5.012	114.184%	5.140	5.054	4.913	108.147%	5.068
x		4.921	5.065	2.545	5.045	112.621%	4.966	5.073	5.027	107.107%	5.035
σ		0.070	0.024	0.013	0.218	1.919%	0.159	0.063	0.098	1.534%	0.050
%RSD		1.412	0.476	0.496	4.323	1.704	3.204	1.241	1.952	1.432	0.999
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:20:30	0.465	4.913	5.062	102.512%	4.965					
2	03:20:33	0.526	4.881	5.040	105.662%	4.971					
3	03:20:37	0.589	4.931	5.070	106.614%	4.993					
x		0.527	4.908	5.057	104.929%	4.976					
σ		0.062	0.025	0.016	2.147%	0.015					
%RSD		11.700	0.510	0.309	2.046	0.298					

237752_10175_ICSA1

10/18/2019 3:27:39 AM

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	03:27:43	0.215	-0.074	0.478	<u>TM 52360.000</u>	<u>M 48790.000</u>	<u>M 47750.000</u>	7.854	<u>M 50600.000</u>	3244.000	<u>T 1538000.000</u>
2	03:27:47	0.205	-0.070	0.566	<u>TM 52080.000</u>	<u>M 49110.000</u>	<u>M 48580.000</u>	10.400	<u>M 51540.000</u>	3256.000	<u>T 1526000.000</u>
3	03:27:51	0.189	-0.062	0.690	<u>TM 51920.000</u>	<u>M 49290.000</u>	<u>M 48760.000</u>	11.740	<u>M 51450.000</u>	3249.000	<u>T 1521000.000</u>
X		0.203	-0.068	0.578	<u>TM 52120.000</u>	<u>M 49060.000</u>	<u>M 48370.000</u>	9.998	<u>M 51200.000</u>	3250.000	<u>T 1528000.000</u>
σ		0.013	0.006	0.106	<u>TM 224.000</u>	<u>M 253.500</u>	<u>M 539.500</u>	1.974	<u>M 518.200</u>	6.072	<u>T 8940.000</u>
%RSD		6.410	8.945	18.420	<u>TM 0.430</u>	<u>M 0.517</u>	<u>M 1.116</u>	19.740	<u>M 1.012</u>	0.187	<u>T 0.585</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	03:27:43	<u>TM 53430.000</u>	<u>M 50470.000</u>	103.997%	106.042%	<u>M 1006.000</u>	-0.168	0.121	5.649	<u>TM 52940.000</u>	0.034
2	03:27:47	<u>TM 53060.000</u>	<u>M 50890.000</u>	104.738%	106.258%	<u>M 1011.000</u>	-0.213	0.154	5.872	<u>TM 52520.000</u>	0.031
3	03:27:51	<u>TM 53220.000</u>	<u>M 50810.000</u>	104.165%	106.140%	<u>M 1030.000</u>	-0.060	0.200	4.834	<u>TM 52150.000</u>	0.057
X		<u>TM 53240.000</u>	<u>M 50720.000</u>	104.300%	106.147%	<u>M 1015.000</u>	-0.147	0.158	5.452	<u>TM 52530.000</u>	0.041
σ		<u>TM 184.600</u>	<u>M 221.800</u>	0.389%	0.108%	<u>M 12.490</u>	0.078	0.040	0.546	<u>TM 392.100</u>	0.014
%RSD		<u>TM 0.347</u>	<u>M 0.437</u>	0.373	0.102	<u>M 1.230</u>	53.360	25.120	10.020	<u>TM 0.746</u>	35.040
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:43	0.021	0.032	-0.057	-0.488	99.784%	0.016	0.080	0.418	97.994%	0.095
2	03:27:47	0.001	0.006	-0.063	-0.491	101.939%	0.017	-0.064	0.398	100.957%	0.033
3	03:27:51	0.008	0.065	-0.051	-0.671	102.866%	0.042	-0.083	0.394	100.363%	0.045
X		0.010	0.034	-0.057	-0.550	101.530%	0.025	-0.022	0.403	99.771%	0.058
σ		0.010	0.030	0.006	0.105	1.581%	0.015	0.089	0.013	1.568%	0.033
%RSD		101.000	86.190	10.350	19.080	1.557	58.820	396.000	3.199	1.571	56.580
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:27:43	<u>M 1015.000</u>	-0.099	-0.046	-0.006	100.338%	0.122	0.010	0.085	99.267%	-0.004
2	03:27:47	<u>M 1003.000</u>	-0.094	-0.034	-0.035	103.158%	0.101	0.012	0.070	101.962%	-0.012
3	03:27:51	<u>M 1011.000</u>	-0.093	-0.035	0.033	103.645%	0.127	0.012	0.095	102.931%	-0.001
X		<u>M 1010.000</u>	-0.095	-0.038	-0.003	102.380%	0.117	0.011	0.083	101.387%	-0.006
σ		<u>M 5.806</u>	0.003	0.007	0.034	1.785%	0.014	0.001	0.013	1.899%	0.006
%RSD		<u>M 0.575</u>	3.186	17.300	1271.000	1.744	11.650	9.140	15.570	1.873	99.830
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:27:43	0.007	-0.044	0.001	93.073%	-0.049					
2	03:27:47	-0.003	-0.047	-0.001	96.581%	-0.046					
3	03:27:51	-0.007	-0.044	0.005	96.634%	-0.047					
X		-0.001	-0.045	0.002	95.429%	-0.047					
σ		0.007	0.002	0.003	2.041%	0.002					
%RSD		772.200	3.744	191.200	2.139	3.593					

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10/18/2019 3:34:53 AM

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	03:34:56	94.770	94.440	94.700	<u>TM 51780.000</u>	<u>M 49570.000</u>	<u>M 48540.000</u>	5012.000	<u>M 55620.000</u>	3170.000	<u>T 1614000.000</u>
2	03:35:00	94.820	95.670	93.820	<u>TM 50800.000</u>	<u>M 49120.000</u>	<u>M 48450.000</u>	5036.000	<u>M 55300.000</u>	3273.000	<u>T 1579000.000</u>
3	03:35:04	94.670	94.940	92.280	<u>TM 51750.000</u>	<u>M 49940.000</u>	<u>M 49210.000</u>	5065.000	<u>M 56000.000</u>	3289.000	<u>T 1601000.000</u>
X		94.750	95.020	93.600	<u>TM 51450.000</u>	<u>M 49540.000</u>	<u>M 48730.000</u>	5038.000	<u>M 55640.000</u>	3244.000	<u>T 1598000.000</u>
σ		0.077	0.617	1.228	<u>TM 556.700</u>	<u>M 411.600</u>	<u>M 417.000</u>	26.170	<u>M 351.500</u>	64.590	<u>T 17610.000</u>
%RSD		0.081	0.650	1.312	<u>TM 1.082</u>	<u>M 0.831</u>	<u>M 0.856</u>	0.519	<u>M 0.632</u>	1.991	<u>T 1.102</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	03:34:56	<u>TM 52780.000</u>	<u>M 50970.000</u>	102.058%	104.841%	<u>M 1117.000</u>	104.100	102.800	23.350	<u>TM 51860.000</u>	102.600
2	03:35:00	<u>TM 52110.000</u>	<u>M 51560.000</u>	104.736%	105.049%	<u>M 1121.000</u>	105.100	102.600	18.560	<u>TM 50770.000</u>	101.800
3	03:35:04	<u>TM 52570.000</u>	<u>M 51670.000</u>	103.186%	105.188%	<u>M 1135.000</u>	104.400	103.200	21.170	<u>TM 51170.000</u>	102.800
X		<u>TM 52490.000</u>	<u>M 51400.000</u>	103.327%	105.026%	<u>M 1124.000</u>	104.500	102.900	21.030	<u>TM 51270.000</u>	102.400
σ		<u>TM 343.600</u>	<u>M 377.200</u>	1.344%	0.174%	<u>M 9.388</u>	0.495	0.345	2.403	<u>TM 551.700</u>	0.545
%RSD		<u>TM 0.655</u>	<u>M 0.734</u>	1.301	0.166	<u>M 0.835</u>	0.473	0.336	11.430	<u>TM 1.076</u>	0.532
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:34:56	101.700	100.700	98.380	99.140	101.555%	102.900	108.800	103.400	99.722%	103.100
2	03:35:00	101.400	100.700	98.690	100.700	103.794%	103.700	110.900	104.500	101.430%	103.200
3	03:35:04	101.700	101.200	99.160	103.000	103.114%	104.300	111.100	104.800	101.868%	102.800
X		101.600	100.900	98.740	100.900	102.821%	103.600	110.300	104.200	101.007%	103.000
σ		0.195	0.296	0.393	1.915	1.148%	0.728	1.280	0.742	1.134%	0.210
%RSD		0.192	0.293	0.398	1.897	1.116	0.702	1.161	0.712	1.123	0.204
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:34:56	<u>M 1107.000</u>	99.340	49.330	100.500	102.076%	102.100	103.100	101.200	102.197%	105.100
2	03:35:00	<u>M 1111.000</u>	99.710	49.560	100.400	104.156%	102.500	104.900	100.800	104.753%	104.800
3	03:35:04	<u>M 1114.000</u>	99.440	49.330	102.300	104.689%	102.400	103.800	101.700	105.048%	105.100
X		<u>M 1111.000</u>	99.500	49.400	101.100	103.640%	102.300	103.900	101.200	104.000%	105.000
σ		<u>M 3.657</u>	0.191	0.132	1.088	1.381%	0.235	0.865	0.452	1.568%	0.195
%RSD		<u>M 0.329</u>	0.192	0.267	1.076	1.332	0.229	0.832	0.446	1.508	0.186
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:34:56	5.168	100.000	101.900	97.291%	103.500					
2	03:35:00	5.607	99.910	101.800	100.225%	104.300					
3	03:35:04	5.483	100.400	102.000	100.821%	105.000					
X		5.420	100.100	101.900	99.446%	104.300					
σ		0.227	0.273	0.115	1.890%	0.750					
%RSD		4.180	0.272	0.113	1.900	0.719					

237886_10175_CCV1

10/18/2019 3:42:06 AM

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	03:42:09	100.100	101.700	99.470	5066.000	5141.000	5116.000	5080.000	5019.000	86.530	1565000.000
2	03:42:13	99.680	101.000	100.200	5056.000	5133.000	5097.000	5028.000	5019.000	87.120	1543000.000
3	03:42:17	98.720	99.550	98.490	5094.000	5158.000	5165.000	5095.000	5129.000	93.940	1543000.000
x		99.490	100.700	99.380	5072.000	5144.000	5126.000	5068.000	5056.000	89.200	1550000.000
σ		0.696	1.085	0.846	19.350	12.870	35.040	35.200	63.810	4.120	12870.000
%RSD		0.700	1.078	0.852	0.382	0.250	0.684	0.695	1.262	4.619	0.830
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:09	5025.000	5009.000	113.898%	112.753%	101.100	103.400	103.600	22.220	5008.000	102.800
2	03:42:13	5045.000	5273.000	118.602%	113.146%	100.200	102.800	103.500	21.820	4987.000	103.200
3	03:42:17	5068.000	5135.000	118.600%	113.740%	98.730	103.600	103.600	19.740	4975.000	102.300
x		5046.000	5139.000	117.033%	113.213%	100.000	103.300	103.600	21.260	4990.000	102.800
σ		21.770	131.800	2.716%	0.497%	1.184	0.411	0.056	1.333	16.910	0.438
%RSD		0.431	2.564	2.320	0.439	1.184	0.398	0.054	6.268	0.339	0.426
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:09	104.000	105.500	104.600	101.500	113.950%	102.600	108.600	102.100	111.196%	102.700
2	03:42:13	102.800	103.900	103.500	102.300	118.099%	103.600	108.900	101.400	115.204%	103.300
3	03:42:17	102.900	103.900	102.900	101.100	121.335%	100.900	107.000	101.900	116.069%	103.000
x		103.200	104.500	103.700	101.600	117.794%	102.400	108.200	101.800	114.156%	103.000
σ		0.646	0.922	0.884	0.619	3.702%	1.415	1.028	0.372	2.600%	0.303
%RSD		0.625	0.883	0.853	0.609	3.143	1.382	0.951	0.365	2.277	0.294
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:42:09	101.400	104.400	52.270	102.100	110.609%	102.300	104.900	101.100	109.787%	102.100
2	03:42:13	101.000	103.800	52.350	102.500	115.274%	102.700	103.300	101.200	113.049%	102.300
3	03:42:17	100.900	104.000	52.350	102.400	116.815%	101.600	103.300	100.300	113.851%	102.500
x		101.100	104.100	52.320	102.300	114.233%	102.200	103.800	100.900	112.229%	102.300
σ		0.278	0.273	0.045	0.201	3.232%	0.566	0.939	0.471	2.152%	0.197
%RSD		0.275	0.262	0.086	0.196	2.829	0.553	0.904	0.467	1.918	0.193
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:42:09	4.891	97.950	101.600	107.231%	98.280					
2	03:42:13	4.905	98.440	101.200	111.684%	98.910					
3	03:42:17	5.026	97.960	101.300	112.007%	98.790					
x		4.941	98.120	101.300	110.307%	98.660					
σ		0.074	0.281	0.193	2.669%	0.334					
%RSD		1.501	0.286	0.190	2.420	0.339					

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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	03:49:24	-0.069	-0.085	0.647	-4.871	-6.720	-7.512	-3.907	2.579	81.010	1591000.000
2	03:49:27	-0.072	-0.081	0.610	-4.628	-4.920	-8.183	-4.073	7.770	93.560	1594000.000
3	03:49:31	-0.063	-0.089	0.303	-5.152	-5.838	-8.236	-2.129	-7.157	89.020	1554000.000
x		-0.068	-0.085	0.520	-4.884	-5.826	-7.977	-3.370	1.064	87.860	1580000.000
σ		0.005	0.004	0.189	0.263	0.900	0.404	1.078	7.578	6.353	22040.000
%RSD		7.055	4.256	36.340	5.378	15.450	5.062	31.980	712.300	7.231	1.395
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	03:49:24	12.300	-0.752	116.965%	119.246%	-0.114	-0.012	-0.141	6.606	-3.621	-0.101
2	03:49:27	14.020	-3.389	117.564%	119.803%	-0.090	-0.063	-0.134	7.163	-3.967	-0.099
3	03:49:31	5.931	-3.531	120.348%	120.497%	-0.017	0.008	-0.147	6.623	-4.360	-0.100
x		10.750	-2.557	118.292%	119.849%	-0.074	-0.022	-0.141	6.797	-3.983	-0.100
σ		4.262	1.565	1.806%	0.627%	0.050	0.037	0.007	0.317	0.370	0.001
%RSD		39.640	61.210	1.526	0.523	68.030	164.200	4.740	4.663	9.289	1.065
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:24	-0.078	-0.097	-0.286	-0.209	112.600%	-0.044	-0.088	-0.086	112.320%	-0.073
2	03:49:27	-0.078	-0.101	-0.306	-0.373	117.456%	-0.088	-0.138	-0.083	114.411%	-0.070
3	03:49:31	-0.077	-0.085	-0.302	-0.301	114.977%	-0.018	-0.094	-0.079	114.654%	-0.069
x		-0.078	-0.095	-0.298	-0.294	115.011%	-0.050	-0.107	-0.083	113.795%	-0.071
σ		0.000	0.008	0.010	0.082	2.428%	0.036	0.028	0.003	1.283%	0.002
%RSD		0.608	8.729	3.420	27.910	2.111	71.390	25.770	4.117	1.127	3.124
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:24	-0.039	-0.128	-0.047	-0.051	109.871%	-0.084	-0.076	-0.056	106.699%	-0.023
2	03:49:27	-0.028	-0.137	-0.044	-0.062	111.908%	-0.083	-0.071	-0.055	108.217%	-0.029
3	03:49:31	-0.052	-0.154	-0.041	-0.065	112.337%	-0.070	-0.076	-0.048	109.410%	-0.025
x		-0.040	-0.140	-0.044	-0.059	111.372%	-0.079	-0.074	-0.053	108.109%	-0.026
σ		0.012	0.013	0.003	0.007	1.318%	0.008	0.003	0.004	1.359%	0.003
%RSD		29.650	9.657	6.213	12.650	1.183	9.831	3.413	7.800	1.257	12.370
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:49:24	-0.005	-0.017	-0.042	104.327%	-0.056					
2	03:49:27	-0.012	-0.017	-0.044	106.172%	-0.057					
3	03:49:31	-0.002	-0.023	-0.050	107.162%	-0.057					
x		-0.006	-0.019	-0.045	105.887%	-0.057					
σ		0.005	0.004	0.004	1.439%	0.001					
%RSD		84.800	18.400	8.745	1.359	0.911					

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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	03:56:37	-0.066	-0.059	0.136	15.150	-0.009	8.285	8.610	34.830	87.010	<u>1424000.000</u>
2	03:56:40	-0.050	-0.095	0.383	17.730	1.584	8.858	5.962	39.960	109.300	<u>1413000.000</u>
3	03:56:44	-0.047	-0.040	0.322	16.930	1.422	9.641	10.660	38.850	102.700	<u>1395000.000</u>
x		-0.055	-0.065	0.280	16.600	0.999	8.928	8.410	37.880	99.660	<u>1411000.000</u>
σ		0.010	0.028	0.129	1.318	0.877	0.680	2.354	2.694	11.440	<u>14970.000</u>
%RSD		18.610	43.050	45.930	7.942	87.760	7.622	27.990	7.113	11.480	<u>1.061</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	03:56:37	8.473	7.159	113.280%	116.808%	0.200	-0.062	0.260	6.143	12.260	0.114
2	03:56:40	10.680	17.500	115.023%	116.088%	0.117	0.060	0.211	6.058	13.220	0.101
3	03:56:44	6.036	4.247	115.446%	116.427%	0.090	-0.159	0.207	6.874	11.390	0.096
x		8.396	9.634	114.583%	116.441%	0.135	-0.053	0.226	6.359	12.290	0.104
σ		2.322	6.963	1.148%	0.360%	0.057	0.110	0.030	0.449	0.913	0.009
%RSD		27.660	72.280	1.002	0.309	42.440	205.100	13.100	7.058	7.428	9.015
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:37	-0.055	0.126	-0.063	2.149	115.392%	-0.064	-0.096	-0.035	108.971%	-0.061
2	03:56:40	-0.043	0.134	-0.044	2.098	116.438%	-0.047	-0.137	-0.042	111.089%	-0.067
3	03:56:44	-0.062	0.133	-0.076	2.073	116.952%	-0.085	-0.072	-0.037	111.998%	-0.060
x		-0.053	0.131	-0.061	2.107	116.261%	-0.065	-0.102	-0.038	110.686%	-0.062
σ		0.010	0.004	0.016	0.039	0.795%	0.019	0.033	0.004	1.553%	0.004
%RSD		18.520	3.315	26.360	1.837	0.684	29.730	31.990	9.710	1.403	5.955
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:56:37	0.096	-0.107	-0.032	-0.048	108.649%	33.770	-0.058	-0.002	104.125%	0.006
2	03:56:40	0.067	-0.128	-0.041	-0.039	110.936%	33.660	-0.058	-0.027	106.178%	0.011
3	03:56:44	0.068	-0.134	-0.044	-0.053	111.025%	33.840	-0.059	-0.015	106.419%	0.004
x		0.077	-0.123	-0.039	-0.047	110.203%	33.760	-0.058	-0.015	105.574%	0.007
σ		0.016	0.014	0.006	0.007	1.347%	0.093	0.001	0.013	1.260%	0.004
%RSD		21.240	11.690	16.030	14.990	1.222	0.276	1.015	85.500	1.194	53.840
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	03:56:37	-0.012	-0.031	0.012	103.109%	-0.043					
2	03:56:40	0.016	-0.043	0.003	105.711%	-0.043					
3	03:56:44	-0.009	-0.048	-0.007	106.221%	-0.046					
x		-0.001	-0.041	0.002	105.014%	-0.044					
σ		0.015	0.008	0.010	1.669%	0.002					
%RSD		1190.000	20.790	393.400	1.589	3.702					

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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	04:03:49	-0.067	-0.091	0.018	14.600	-0.831	6.744	0.695	19.600	85.630	927100.000
2	04:03:52	-0.056	-0.083	0.026	15.780	-1.467	7.139	0.575	31.800	110.600	913400.000
3	04:03:56	-0.060	-0.091	0.147	16.470	-2.553	6.972	1.210	49.050	104.800	903200.000
x		-0.061	-0.088	0.064	15.610	-1.617	6.952	0.827	33.480	100.300	914600.000
σ		0.005	0.004	0.072	0.946	0.871	0.199	0.338	14.800	13.060	11980.000
%RSD		8.649	4.981	113.400	6.057	53.880	2.855	40.860	44.190	13.020	1.310
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	04:03:49	-319.600	5.128	108.984%	110.673%	0.379	-0.063	0.134	4.151	-3.357	-0.035
2	04:03:52	-359.900	2.258	110.674%	111.121%	0.076	-0.097	0.109	3.897	-3.724	-0.048
3	04:03:56	-359.800	18.380	111.733%	110.833%	0.178	-0.135	0.146	4.216	-3.679	-0.039
x		-346.400	8.588	110.464%	110.876%	0.211	-0.098	0.130	4.088	-3.587	-0.041
σ		23.260	8.598	1.386%	0.227%	0.154	0.036	0.019	0.169	0.200	0.007
%RSD		6.714	100.100	1.255	0.205	73.070	36.740	14.590	4.121	5.577	17.300
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:49	-0.071	0.112	-0.186	6.530	111.784%	-0.173	-0.186	-0.052	106.596%	-0.071
2	04:03:52	-0.069	0.130	-0.185	6.860	114.740%	-0.219	-0.221	-0.064	109.604%	-0.065
3	04:03:56	-0.072	0.064	-0.197	6.761	116.553%	-0.144	-0.036	-0.058	109.892%	-0.068
x		-0.071	0.102	-0.189	6.717	114.359%	-0.179	-0.148	-0.058	108.697%	-0.068
σ		0.002	0.034	0.007	0.169	2.408%	0.037	0.098	0.006	1.826%	0.003
%RSD		2.787	33.120	3.467	2.521	2.105	20.930	66.570	9.975	1.680	3.975
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:03:49	-0.004	-0.150	-0.049	-0.065	106.529%	33.700	-0.066	-0.057	101.999%	-0.032
2	04:03:52	-0.025	-0.131	-0.040	-0.062	108.888%	33.920	-0.070	-0.063	104.238%	-0.034
3	04:03:56	-0.023	-0.135	-0.049	-0.060	109.776%	33.990	-0.077	-0.063	105.299%	-0.039
x		-0.017	-0.139	-0.046	-0.062	108.398%	33.870	-0.071	-0.061	103.845%	-0.035
σ		0.012	0.010	0.005	0.002	1.678%	0.150	0.005	0.003	1.685%	0.004
%RSD		69.400	7.090	11.230	3.689	1.548	0.442	7.442	5.528	1.622	10.220
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:03:49	0.018	-0.064	-0.038	102.867%	-0.056					
2	04:03:52	0.017	-0.069	-0.046	105.512%	-0.057					
3	04:03:56	0.016	-0.071	-0.048	105.874%	-0.058					
x		0.017	-0.068	-0.044	104.751%	-0.057					
σ		0.001	0.004	0.005	1.642%	0.001					
%RSD		4.719	5.535	12.090	1.567	1.343					

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10/18/2019 4:10:57 AM

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	04:11:01	-0.074	-0.082	-0.054	6.754	-3.674	3.209	2.260	17.260	110.700	805700.000
2	04:11:04	-0.063	-0.094	-0.153	8.010	-2.431	1.601	-0.822	32.550	96.430	718300.000
3	04:11:08	-0.056	-0.098	0.063	6.887	-2.289	2.603	1.552	23.520	113.100	786100.000
x		-0.065	-0.091	-0.048	7.217	-2.798	2.471	0.997	24.440	106.800	770000.000
σ		0.009	0.008	0.108	0.690	0.762	0.812	1.614	7.688	9.028	45900.000
%RSD		13.680	9.154	225.100	9.562	27.230	32.870	161.900	31.450	8.457	5.961
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	04:11:01	-113.400	-0.119	105.822%	106.998%	0.258	-0.017	0.121	3.198	-0.214	0.017
2	04:11:04	-116.500	2.255	109.620%	107.716%	0.268	-0.008	0.118	3.647	0.669	0.013
3	04:11:08	-117.900	21.780	109.410%	108.424%	0.080	-0.189	0.096	4.028	0.638	0.004
x		-115.900	7.972	108.284%	107.713%	0.202	-0.071	0.111	3.625	0.364	0.011
σ		2.339	12.020	2.134%	0.713%	0.106	0.102	0.013	0.416	0.501	0.007
%RSD		2.017	150.700	1.971	0.662	52.260	143.500	11.980	11.470	137.600	60.130
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:01	-0.070	0.090	-0.200	6.740	109.203%	-0.239	-0.226	-0.062	105.309%	-0.065
2	04:11:04	-0.076	0.072	-0.231	6.429	111.155%	-0.229	-0.227	-0.049	107.832%	-0.080
3	04:11:08	-0.073	0.078	-0.198	7.007	112.069%	-0.185	-0.154	-0.067	108.454%	-0.064
x		-0.073	0.080	-0.209	6.725	110.809%	-0.218	-0.202	-0.059	107.198%	-0.070
σ		0.003	0.009	0.018	0.289	1.464%	0.029	0.042	0.009	1.666%	0.009
%RSD		3.993	11.430	8.797	4.302	1.321	13.350	20.710	15.900	1.554	12.740
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:11:01	-0.029	-0.141	-0.051	-0.067	104.918%	34.580	-0.071	-0.058	100.682%	-0.013
2	04:11:04	-0.040	-0.153	-0.046	-0.067	107.762%	35.220	-0.082	-0.054	103.577%	-0.013
3	04:11:08	-0.033	-0.136	-0.050	-0.060	108.492%	34.710	-0.075	-0.063	104.465%	-0.018
x		-0.034	-0.143	-0.049	-0.065	107.057%	34.830	-0.076	-0.058	102.908%	-0.015
σ		0.006	0.009	0.003	0.004	1.888%	0.341	0.006	0.004	1.978%	0.003
%RSD		17.030	6.159	5.953	6.324	1.764	0.978	7.620	7.629	1.922	18.550
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:11:01	-0.011	-0.077	-0.047	101.503%	-0.059					
2	04:11:04	-0.008	-0.075	-0.050	104.053%	-0.059					
3	04:11:08	-0.019	-0.079	-0.054	105.720%	-0.059					
x		-0.013	-0.077	-0.050	103.759%	-0.059					
σ		0.006	0.002	0.004	2.124%	0.000					
%RSD		44.590	2.846	6.967	2.047	0.696					

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10/18/2019 4:18:10 AM

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	04:18:13	-0.070	-0.102	0.068	4.290	-3.618	-1.620	0.611	22.290	107.300	971100.000
2	04:18:17	-0.069	-0.094	0.276	3.953	-2.882	-0.912	0.426	30.070	107.200	971500.000
3	04:18:21	-0.075	-0.098	0.122	3.137	-3.864	-2.596	1.849	35.740	104.500	950700.000
x		-0.071	-0.098	0.155	3.793	-3.454	-1.709	0.962	29.370	106.300	964400.000
σ		0.003	0.004	0.108	0.593	0.511	0.846	0.774	6.757	1.584	11900.000
%RSD		4.492	3.975	69.540	15.630	14.800	49.470	80.450	23.010	1.489	1.234
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	04:18:13	-84.930	8.270	107.387%	109.128%	0.388	-0.136	0.081	4.727	-0.898	-0.012
2	04:18:17	-79.840	16.460	108.396%	109.124%	0.381	-0.035	0.082	4.153	-1.603	-0.028
3	04:18:21	-83.460	-0.380	109.810%	109.521%	0.266	-0.090	0.114	4.385	-0.996	-0.027
x		-82.740	8.115	108.531%	109.258%	0.345	-0.087	0.092	4.422	-1.166	-0.022
σ		2.621	8.419	1.217%	0.228%	0.069	0.051	0.019	0.289	0.382	0.009
%RSD		3.167	103.700	1.121	0.209	19.860	58.440	20.280	6.527	32.750	41.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:13	-0.074	0.112	-0.259	6.738	109.611%	-0.200	-0.164	-0.068	105.355%	-0.066
2	04:18:17	-0.074	0.111	-0.249	6.325	112.666%	-0.218	-0.092	-0.064	107.367%	-0.040
3	04:18:21	-0.076	0.136	-0.278	6.652	112.649%	-0.220	-0.185	-0.068	107.918%	-0.036
x		-0.074	0.119	-0.262	6.572	111.642%	-0.212	-0.147	-0.067	106.880%	-0.047
σ		0.001	0.014	0.014	0.218	1.759%	0.011	0.049	0.003	1.349%	0.016
%RSD		1.796	11.730	5.436	3.319	1.575	5.239	33.050	3.868	1.262	34.120
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:18:13	-0.039	-0.151	-0.054	-0.062	104.885%	35.480	-0.073	-0.058	100.880%	-0.026
2	04:18:17	-0.031	-0.137	-0.043	-0.067	107.183%	35.840	-0.088	-0.050	102.918%	-0.028
3	04:18:21	-0.029	-0.141	-0.044	-0.065	107.540%	35.550	-0.075	-0.061	103.597%	-0.036
x		-0.033	-0.143	-0.047	-0.064	106.536%	35.620	-0.079	-0.056	102.465%	-0.030
σ		0.005	0.007	0.006	0.002	1.441%	0.195	0.008	0.006	1.414%	0.005
%RSD		15.200	5.160	12.550	3.794	1.352	0.548	10.370	9.928	1.380	16.980
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:18:13	0.004	-0.078	-0.045	101.156%	-0.060					
2	04:18:17	-0.015	-0.082	-0.048	104.432%	-0.061					
3	04:18:21	0.006	-0.081	-0.049	104.071%	-0.060					
x		-0.002	-0.080	-0.047	103.220%	-0.060					
σ		0.012	0.002	0.002	1.796%	0.001					
%RSD		679.100	2.100	4.786	1.740	0.941					

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10/18/2019 4:25:24 AM

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	04:25:28	-0.064	-0.106	0.017	11.780	-2.822	2.656	1.668	22.310	114.400	979500.000
2	04:25:32	-0.072	-0.106	-0.005	12.090	-3.322	3.045	2.131	30.260	109.800	966200.000
3	04:25:36	-0.077	-0.086	0.141	15.470	-3.592	2.041	-0.899	19.270	113.000	971000.000
x		-0.071	-0.099	0.051	13.110	-3.245	2.581	0.967	23.950	112.400	972200.000
σ		0.007	0.011	0.079	2.046	0.390	0.506	1.633	5.675	2.403	6715.000
%RSD		9.465	11.310	155.700	15.610	12.030	19.610	168.900	23.700	2.137	0.691
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	04:25:28	322.400	5.443	107.342%	108.529%	0.306	-0.026	0.104	3.975	1.576	-0.013
2	04:25:32	-86.010	7.899	109.320%	109.055%	0.296	-0.154	0.133	4.404	2.325	-0.004
3	04:25:36	309.500	2.413	109.527%	109.167%	0.054	-0.124	0.107	4.450	1.310	-0.010
x		239.300	5.252	108.730%	108.917%	0.219	-0.101	0.115	4.276	1.737	-0.009
σ		132.900	2.748	1.206%	0.341%	0.143	0.067	0.016	0.262	0.526	0.005
%RSD		55.540	52.320	1.109	0.313	65.440	65.740	14.020	6.127	30.300	51.490
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:25:28	-0.071	0.175	-0.205	5.778	108.844%	-0.218	-0.182	-0.066	104.729%	-0.065
2	04:25:32	-0.069	0.119	-0.190	5.671	111.583%	-0.190	-0.139	-0.058	106.746%	-0.067
3	04:25:36	-0.073	0.116	-0.189	5.756	111.783%	-0.203	-0.193	-0.069	107.552%	-0.079
x		-0.071	0.137	-0.195	5.735	110.737%	-0.204	-0.171	-0.065	106.342%	-0.070
σ		0.002	0.034	0.009	0.057	1.643%	0.014	0.029	0.006	1.454%	0.007
%RSD		2.747	24.610	4.580	0.987	1.483	7.069	16.740	8.716	1.367	10.020
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:25:28	-0.058	-0.112	-0.047	-0.067	104.575%	34.680	-0.074	-0.067	100.671%	-0.014
2	04:25:32	-0.040	-0.112	-0.047	-0.067	106.929%	35.220	-0.089	-0.061	102.184%	-0.012
3	04:25:36	-0.032	-0.139	-0.049	-0.065	107.444%	35.210	-0.068	-0.050	103.645%	-0.018
x		-0.043	-0.121	-0.048	-0.066	106.316%	35.040	-0.077	-0.059	102.167%	-0.015
σ		0.013	0.016	0.002	0.001	1.529%	0.310	0.011	0.009	1.487%	0.003
%RSD		31.020	13.100	3.173	2.090	1.439	0.884	13.830	14.500	1.456	19.720
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:25:28	-0.015	-0.077	-0.044	100.402%	-0.061					
2	04:25:32	-0.001	-0.081	-0.045	103.096%	-0.060					
3	04:25:36	-0.009	-0.081	-0.045	104.504%	-0.061					
x		-0.008	-0.079	-0.045	102.667%	-0.061					
σ		0.007	0.002	0.001	2.085%	0.000					
%RSD		86.960	2.992	1.364	2.030	0.758					

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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	04:32:41	-0.056	-0.098	-0.127	14.210	-2.305	6.340	6.583	23.050	101.400	900600.000
2	04:32:45	-0.048	-0.098	-0.045	15.960	-3.331	6.898	3.499	31.810	102.200	881000.000
3	04:32:48	-0.051	-0.094	0.081	15.560	-2.204	6.174	3.272	28.030	102.000	869900.000
x		-0.052	-0.097	-0.030	15.240	-2.613	6.471	4.451	27.630	101.900	883800.000
σ		0.004	0.002	0.105	0.916	0.624	0.379	1.849	4.392	0.411	15550.000
%RSD		7.934	2.266	346.300	6.011	23.870	5.861	41.550	15.900	0.403	1.759
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	04:32:41	324.300	8.144	107.522%	108.016%	0.277	-0.097	0.107	3.790	-2.979	-0.026
2	04:32:45	358.100	16.140	109.498%	108.675%	0.294	-0.065	0.143	3.782	-2.911	-0.032
3	04:32:48	369.800	18.840	110.141%	109.256%	0.345	-0.072	0.129	3.695	-3.529	-0.016
x		350.700	14.370	109.054%	108.649%	0.306	-0.078	0.127	3.756	-3.139	-0.025
σ		23.620	5.560	1.365%	0.620%	0.035	0.017	0.018	0.053	0.339	0.008
%RSD		6.735	38.690	1.251	0.571	11.540	21.630	14.430	1.409	10.790	32.620
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:32:41	-0.075	0.104	-0.102	6.959	110.105%	-0.155	-0.250	-0.054	105.415%	-0.048
2	04:32:45	-0.069	0.098	-0.136	6.641	112.792%	-0.185	-0.024	-0.054	107.726%	-0.039
3	04:32:48	-0.072	0.110	-0.157	6.698	114.287%	-0.142	-0.165	-0.067	108.460%	-0.052
x		-0.072	0.104	-0.131	6.766	112.395%	-0.161	-0.146	-0.058	107.200%	-0.046
σ		0.003	0.006	0.028	0.169	2.119%	0.022	0.114	0.008	1.589%	0.006
%RSD		3.681	5.585	21.020	2.500	1.885	13.710	77.910	13.070	1.483	14.030
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:32:41	-0.052	-0.131	-0.036	-0.067	105.045%	34.340	-0.073	-0.048	100.117%	-0.031
2	04:32:45	-0.048	-0.122	-0.049	-0.062	107.441%	34.830	-0.086	-0.061	104.219%	-0.019
3	04:32:48	-0.041	-0.154	-0.053	-0.067	108.544%	34.540	-0.081	-0.054	104.241%	-0.023
x		-0.047	-0.136	-0.046	-0.065	107.010%	34.570	-0.080	-0.054	102.859%	-0.024
σ		0.006	0.016	0.009	0.003	1.789%	0.246	0.007	0.007	2.374%	0.006
%RSD		11.790	11.980	19.380	4.198	1.672	0.713	8.337	12.270	2.308	24.170
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:32:41	-0.007	-0.081	-0.043	101.457%	-0.060					
2	04:32:45	-0.005	-0.080	-0.046	104.718%	-0.061					
3	04:32:48	0.006	-0.082	-0.050	105.713%	-0.061					
x		-0.002	-0.081	-0.046	103.963%	-0.061					
σ		0.007	0.001	0.003	2.227%	0.000					
%RSD		332.800	1.065	7.531	2.142	0.462					

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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	04:39:54	-0.034	-0.106	-0.178	14.760	-3.702	3.055	2.145	22.930	113.700	848200.000
2	04:39:58	-0.047	-0.086	0.165	11.940	-3.653	2.642	2.940	19.290	105.700	840900.000
3	04:40:02	-0.032	-0.094	0.003	12.560	-2.710	3.450	3.789	15.310	98.610	846600.000
x		-0.038	-0.095	-0.003	13.090	-3.355	3.049	2.958	19.180	106.000	845200.000
σ		0.008	0.010	0.172	1.483	0.559	0.404	0.822	3.812	7.539	3835.000
%RSD		21.770	10.570	5013.000	11.330	16.670	13.260	27.800	19.880	7.113	0.454
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	04:39:54	-103.600	2.685	106.389%	107.278%	0.421	-0.147	0.250	3.602	-2.586	-0.031
2	04:39:58	-104.400	11.010	108.108%	106.559%	0.248	-0.040	0.303	3.348	-3.373	-0.029
3	04:40:02	-104.400	10.970	107.679%	107.304%	0.386	-0.097	0.261	3.699	-3.375	-0.020
x		-104.100	8.224	107.392%	107.047%	0.352	-0.095	0.271	3.549	-3.111	-0.027
σ		0.487	4.797	0.894%	0.423%	0.092	0.054	0.028	0.181	0.455	0.006
%RSD		0.467	58.330	0.833	0.395	26.110	56.810	10.310	5.101	14.630	21.910
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:39:54	-0.074	0.144	-0.128	6.113	109.816%	-0.212	-0.135	-0.062	104.685%	-0.075
2	04:39:58	-0.075	0.117	-0.115	6.436	112.363%	-0.248	-0.141	-0.076	106.903%	-0.082
3	04:40:02	-0.074	0.119	-0.066	6.153	112.641%	-0.231	-0.104	-0.061	107.439%	-0.070
x		-0.074	0.127	-0.103	6.234	111.607%	-0.230	-0.127	-0.066	106.342%	-0.076
σ		0.001	0.015	0.032	0.176	1.557%	0.018	0.020	0.009	1.460%	0.006
%RSD		0.930	11.850	31.550	2.820	1.395	7.887	15.820	13.020	1.373	7.860
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:39:54	-0.050	-0.168	-0.046	-0.062	104.084%	34.690	-0.082	-0.056	99.624%	-0.029
2	04:39:58	-0.036	-0.158	-0.045	-0.065	106.970%	35.050	-0.085	-0.062	102.098%	-0.025
3	04:40:02	-0.050	-0.142	-0.056	-0.067	106.802%	34.920	-0.079	-0.059	102.834%	-0.035
x		-0.045	-0.156	-0.049	-0.064	105.952%	34.890	-0.082	-0.059	101.519%	-0.030
σ		0.008	0.013	0.006	0.002	1.620%	0.185	0.003	0.003	1.682%	0.005
%RSD		17.610	8.610	12.970	3.826	1.529	0.530	3.486	5.053	1.656	16.870
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:39:54	0.004	-0.085	-0.051	100.510%	-0.061					
2	04:39:58	-0.015	-0.087	-0.053	103.114%	-0.061					
3	04:40:02	-0.001	-0.087	-0.057	103.931%	-0.061					
x		-0.004	-0.086	-0.054	102.518%	-0.061					
σ		0.010	0.001	0.003	1.787%	0.000					
%RSD		251.600	1.210	5.193	1.743	0.016					

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10/18/2019 4:47:05 AM

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	04:47:09	-0.064	-0.086	0.105	5.716	-2.929	-0.456	2.140	8.073	114.900	821300.000
2	04:47:13	-0.061	-0.102	-0.302	4.548	-3.342	-0.597	-0.465	40.810	115.400	802900.000
3	04:47:17	-0.070	-0.098	0.225	6.268	-2.779	-0.208	0.241	25.520	108.400	815100.000
x		-0.065	-0.095	0.009	5.511	-3.017	-0.421	0.639	24.800	112.900	813100.000
σ		0.004	0.008	0.277	0.878	0.291	0.197	1.347	16.380	3.904	9367.000
%RSD		6.709	8.664	2922.000	15.930	9.664	46.820	211.000	66.040	3.457	1.152
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	04:47:09	-111.600	5.378	106.890%	107.534%	0.336	-0.038	0.138	3.478	-3.744	-0.042
2	04:47:13	-111.600	7.650	109.717%	107.606%	0.347	-0.055	0.133	3.382	-4.320	-0.039
3	04:47:17	-343.200	-0.490	108.899%	108.533%	0.271	-0.068	0.147	3.545	-3.549	-0.059
x		-188.800	4.179	108.502%	107.891%	0.318	-0.054	0.139	3.468	-3.871	-0.047
σ		133.700	4.200	1.455%	0.557%	0.041	0.015	0.007	0.082	0.401	0.011
%RSD		70.810	100.500	1.341	0.516	12.970	27.610	5.297	2.368	10.350	23.870
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:47:09	-0.072	0.051	-0.258	6.772	110.297%	-0.187	-0.191	-0.050	105.090%	-0.064
2	04:47:13	-0.072	0.075	-0.268	6.451	112.531%	-0.218	-0.160	-0.033	108.224%	-0.067
3	04:47:17	-0.073	0.089	-0.282	6.634	112.776%	-0.225	-0.092	-0.044	108.003%	-0.077
x		-0.072	0.072	-0.269	6.619	111.868%	-0.210	-0.147	-0.042	107.106%	-0.069
σ		0.001	0.019	0.012	0.161	1.366%	0.021	0.050	0.008	1.749%	0.007
%RSD		1.186	26.910	4.432	2.432	1.221	9.790	34.170	20.100	1.633	9.877
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:47:09	-0.044	-0.111	-0.051	-0.067	104.795%	34.780	-0.080	-0.062	100.461%	-0.026
2	04:47:13	-0.039	-0.110	-0.046	-0.065	107.644%	35.080	-0.076	-0.061	103.011%	-0.034
3	04:47:17	-0.036	-0.133	-0.045	-0.062	108.510%	34.880	-0.082	-0.045	104.072%	-0.029
x		-0.040	-0.118	-0.047	-0.065	106.983%	34.910	-0.079	-0.056	102.515%	-0.030
σ		0.004	0.013	0.003	0.002	1.944%	0.151	0.003	0.009	1.856%	0.004
%RSD		10.440	10.980	6.891	3.666	1.817	0.431	4.248	16.620	1.810	14.330
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:47:09	-0.019	-0.086	-0.046	100.692%	-0.061					
2	04:47:13	-0.012	-0.085	-0.050	103.906%	-0.061					
3	04:47:17	-0.016	-0.085	-0.050	104.909%	-0.061					
x		-0.015	-0.085	-0.049	103.169%	-0.061					
σ		0.003	0.001	0.002	2.203%	0.000					
%RSD		22.410	0.715	4.930	2.135	0.335					

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10/18/2019 4:54:21 AM

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	04:54:25	-0.075	-0.094	-0.007	6.454	-2.640	-1.259	0.831	13.860	106.400	654300.000
2	04:54:28	-0.071	-0.098	-0.215	4.927	-3.507	-1.942	2.101	23.700	116.400	661500.000
3	04:54:32	-0.076	-0.094	0.074	6.018	-3.878	0.223	2.347	32.190	108.500	662600.000
x		-0.074	-0.095	-0.049	5.800	-3.342	-0.993	1.760	23.250	110.400	659500.000
σ		0.003	0.002	0.149	0.787	0.635	1.107	0.814	9.177	5.282	4551.000
%RSD		3.651	2.385	302.300	13.570	19.000	111.500	46.250	39.470	4.782	0.690
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	04:54:25	-133.600	2.505	108.756%	108.047%	0.083	-0.021	0.203	2.871	-3.661	-0.032
2	04:54:28	-130.400	-3.179	110.430%	109.186%	0.238	-0.161	0.182	3.383	-3.476	-0.059
3	04:54:32	-129.600	-0.427	110.120%	109.767%	0.265	-0.042	0.198	2.772	-3.479	-0.054
x		-131.200	-0.367	109.769%	109.000%	0.195	-0.075	0.194	3.009	-3.539	-0.048
σ		2.126	2.843	0.890%	0.875%	0.098	0.075	0.011	0.328	0.106	0.014
%RSD		1.621	774.800	0.811	0.803	50.310	100.800	5.655	10.900	2.999	29.670
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:54:25	-0.075	0.174	-0.262	7.995	109.881%	-0.196	-0.143	-0.071	106.146%	-0.067
2	04:54:28	-0.074	0.150	-0.268	7.305	113.642%	-0.206	-0.140	-0.067	109.260%	-0.085
3	04:54:32	-0.073	0.227	-0.252	7.848	113.899%	-0.241	-0.142	-0.065	108.934%	-0.060
x		-0.074	0.184	-0.261	7.716	112.474%	-0.215	-0.142	-0.068	108.113%	-0.071
σ		0.001	0.039	0.008	0.364	2.249%	0.024	0.001	0.003	1.711%	0.013
%RSD		1.739	21.350	3.211	4.712	2.000	11.100	0.913	4.002	1.583	18.250
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:54:25	-0.029	-0.132	-0.040	-0.067	105.382%	33.560	-0.089	-0.062	101.035%	-0.023
2	04:54:28	-0.031	-0.168	-0.041	-0.067	108.797%	33.310	-0.082	-0.050	103.154%	-0.030
3	04:54:32	-0.025	-0.122	-0.051	-0.067	109.859%	33.750	-0.086	-0.061	104.165%	-0.026
x		-0.029	-0.141	-0.044	-0.067	108.013%	33.540	-0.086	-0.058	102.785%	-0.027
σ		0.003	0.024	0.006	0.000	2.339%	0.222	0.004	0.006	1.598%	0.003
%RSD		10.800	17.150	13.680	0.026	2.166	0.662	4.113	11.200	1.554	12.470
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	04:54:25	-0.011	-0.087	-0.044	101.992%	-0.061					
2	04:54:28	-0.019	-0.084	-0.043	104.826%	-0.061					
3	04:54:32	-0.005	-0.086	-0.046	105.240%	-0.061					
x		-0.012	-0.086	-0.044	104.019%	-0.061					
σ		0.007	0.001	0.002	1.768%	0.000					
%RSD		60.450	1.597	3.970	1.700	0.401					

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10/18/2019 5:01:37 AM

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	05:01:40	-0.059	-0.090	0.275	22.100	-3.394	9.684	4.438	22.620	103.900	<u>1019000.000</u>
2	05:01:44	-0.056	-0.094	-0.019	23.060	-1.683	7.743	3.474	33.890	108.600	<u>1004000.000</u>
3	05:01:48	-0.062	-0.106	0.054	21.180	-1.328	9.567	3.379	36.040	106.400	<u>997300.000</u>
x		-0.059	-0.097	0.103	22.120	-2.135	8.998	3.764	30.850	106.300	<u>1007000.000</u>
σ		0.003	0.008	0.153	0.940	1.105	1.088	0.586	7.206	2.360	<u>10980.000</u>
%RSD		4.984	8.376	147.900	4.251	51.740	12.100	15.560	23.360	2.220	<u>1.090</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	05:01:40	-75.840	2.415	108.184%	109.163%	0.247	-0.213	0.203	4.689	3.925	0.040
2	05:01:44	-74.550	27.050	110.064%	110.118%	0.105	-0.107	0.225	4.624	5.440	0.035
3	05:01:48	-75.580	4.971	110.525%	110.117%	0.317	-0.117	0.237	4.395	3.554	0.022
x		-75.330	11.480	109.591%	109.799%	0.223	-0.145	0.222	4.569	4.306	0.032
σ		0.685	13.540	1.240%	0.551%	0.108	0.059	0.017	0.155	0.999	0.009
%RSD		0.909	118.000	1.132	0.502	48.390	40.270	7.649	3.384	23.200	28.940
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:01:40	-0.079	0.176	-0.035	6.430	110.685%	-0.207	-0.251	-0.050	105.570%	-0.069
2	05:01:44	-0.069	0.090	-0.077	6.901	111.489%	-0.217	-0.184	-0.058	107.890%	-0.077
3	05:01:48	-0.075	0.123	-0.065	6.206	112.669%	-0.169	-0.038	-0.058	108.546%	-0.084
x		-0.074	0.130	-0.059	6.512	111.614%	-0.198	-0.158	-0.055	107.336%	-0.077
σ		0.005	0.044	0.022	0.355	0.998%	0.026	0.109	0.005	1.564%	0.007
%RSD		6.737	33.650	36.960	5.445	0.894	12.940	68.960	8.477	1.457	9.468
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:01:40	-0.034	-0.125	-0.041	-0.067	104.785%	35.130	-0.072	-0.024	100.649%	-0.025
2	05:01:44	-0.049	-0.164	-0.041	-0.067	106.585%	35.430	-0.087	-0.032	101.779%	-0.028
3	05:01:48	-0.035	-0.128	-0.045	-0.067	107.697%	35.490	-0.080	-0.031	103.039%	-0.024
x		-0.039	-0.139	-0.042	-0.067	106.356%	35.350	-0.079	-0.029	101.823%	-0.025
σ		0.008	0.022	0.002	0.000	1.469%	0.191	0.007	0.004	1.196%	0.002
%RSD		21.630	15.460	5.092	0.024	1.381	0.539	9.342	14.640	1.174	8.646
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:01:40	-0.011	-0.086	-0.035	100.902%	-0.061					
2	05:01:44	-0.026	-0.087	-0.038	103.107%	-0.061					
3	05:01:48	-0.015	-0.086	-0.041	103.465%	-0.060					
x		-0.018	-0.086	-0.038	102.491%	-0.061					
σ		0.008	0.000	0.003	1.388%	0.000					
%RSD		44.510	0.134	7.315	1.354	0.725					

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10/18/2019 5:08:50 AM

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	05:08:53	100.600	104.800	99.680	5055.000	5183.000	5284.000	5306.000	5290.000	88.340	1649000.000
2	05:08:57	101.800	105.100	102.100	5078.000	5219.000	5247.000	5227.000	5181.000	93.050	1599000.000
3	05:09:01	102.300	105.200	101.300	4993.000	5158.000	5170.000	5169.000	5198.000	73.150	1574000.000
x		101.600	105.000	101.000	5042.000	5187.000	5234.000	5234.000	5223.000	84.850	1607000.000
σ		0.869	0.160	1.211	43.680	30.860	58.300	68.850	58.610	10.400	38210.000
%RSD		0.855	0.153	1.199	0.866	0.595	1.114	1.316	1.122	12.250	2.377
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:53	5113.000	5138.000	119.116%	117.726%	102.100	104.100	103.300	20.750	4983.000	101.800
2	05:08:57	5054.000	5043.000	122.808%	117.802%	98.430	103.000	103.100	23.160	4946.000	101.900
3	05:09:01	5009.000	5126.000	124.967%	117.426%	101.700	102.400	102.600	23.940	4948.000	102.300
x		5059.000	5102.000	122.297%	117.651%	100.800	103.200	103.000	22.620	4959.000	102.000
σ		51.740	51.480	2.959%	0.199%	2.030	0.843	0.394	1.660	20.710	0.262
%RSD		1.023	1.009	2.420	0.169	2.015	0.817	0.382	7.341	0.418	0.257
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:53	103.400	104.200	103.700	100.300	118.669%	104.000	109.200	101.400	114.346%	103.500
2	05:08:57	102.700	103.700	103.600	101.200	122.361%	103.800	109.000	102.300	117.152%	103.500
3	05:09:01	102.900	104.400	103.400	101.200	123.719%	103.800	106.400	101.400	118.627%	103.400
x		103.000	104.100	103.600	100.900	121.583%	103.900	108.200	101.700	116.708%	103.500
σ		0.362	0.362	0.177	0.505	2.613%	0.133	1.570	0.533	2.175%	0.059
%RSD		0.352	0.348	0.171	0.500	2.150	0.128	1.452	0.524	1.863	0.057
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:53	102.100	103.300	51.560	101.700	113.409%	101.500	102.900	102.100	108.134%	100.600
2	05:08:57	100.900	103.700	51.930	101.700	116.634%	100.900	103.500	102.100	110.871%	100.600
3	05:09:01	101.600	103.700	52.220	102.300	118.232%	101.200	104.000	102.700	112.161%	101.800
x		101.600	103.500	51.900	101.900	116.091%	101.200	103.500	102.300	110.389%	101.000
σ		0.617	0.237	0.332	0.359	2.457%	0.329	0.563	0.319	2.056%	0.682
%RSD		0.607	0.229	0.640	0.352	2.116	0.325	0.544	0.312	1.863	0.675
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:08:53	5.166	95.920	98.840	106.130%	96.220					
2	05:08:57	4.718	96.070	99.720	110.257%	96.110					
3	05:09:01	4.763	97.060	100.100	110.276%	96.810					
x		4.882	96.350	99.560	108.888%	96.380					
σ		0.247	0.616	0.658	2.388%	0.378					
%RSD		5.049	0.639	0.661	2.193	0.393					

237880_10175_CCBTVA2

10/18/2019 5:16:04 AM

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	05:16:08	-0.059	-0.096	0.152	-5.229	-6.691	-7.806	-2.424	4.359	89.490	1595000.000
2	05:16:12	-0.064	-0.096	0.250	-5.560	-5.678	-7.418	-4.436	-5.098	95.090	1595000.000
3	05:16:16	-0.069	-0.082	0.350	-5.132	-4.774	-7.812	-1.603	4.327	86.980	1599000.000
x		-0.064	-0.091	0.250	-5.307	-5.715	-7.679	-2.821	1.196	90.520	1596000.000
σ		0.005	0.008	0.099	0.225	0.959	0.226	1.457	5.451	4.149	2223.000
%RSD		7.390	8.789	39.600	4.232	16.780	2.942	51.660	455.800	4.583	0.139
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	05:16:08	9.904	-3.574	121.843%	122.791%	-0.069	-0.049	-0.143	7.118	-4.098	-0.095
2	05:16:12	9.816	-1.188	123.184%	123.352%	-0.046	-0.096	-0.117	7.002	-3.881	-0.106
3	05:16:16	13.600	-3.626	123.711%	122.753%	-0.144	-0.062	-0.123	6.846	-3.950	-0.095
x		11.110	-2.796	122.912%	122.965%	-0.086	-0.069	-0.128	6.989	-3.976	-0.099
σ		2.158	1.393	0.963%	0.335%	0.051	0.024	0.014	0.137	0.111	0.006
%RSD		19.430	49.800	0.784	0.273	58.990	35.300	10.630	1.958	2.791	6.277
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:08	-0.071	-0.077	-0.279	-0.335	116.169%	-0.094	-0.030	-0.081	114.666%	-0.061
2	05:16:12	-0.073	-0.082	-0.329	-0.404	116.700%	-0.042	-0.177	-0.079	116.629%	-0.064
3	05:16:16	-0.076	-0.086	-0.318	-0.432	122.034%	-0.077	-0.182	-0.085	118.003%	-0.057
x		-0.073	-0.082	-0.309	-0.390	118.301%	-0.071	-0.130	-0.082	116.433%	-0.061
σ		0.002	0.004	0.026	0.050	3.244%	0.026	0.086	0.003	1.677%	0.004
%RSD		2.932	5.299	8.490	12.810	2.742	36.980	66.400	3.954	1.440	5.893
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:08	-0.075	-0.126	-0.035	-0.062	111.150%	-0.077	-0.074	-0.046	105.902%	-0.031
2	05:16:12	-0.070	-0.087	-0.047	-0.065	113.961%	-0.066	-0.078	-0.057	108.657%	-0.031
3	05:16:16	-0.071	-0.126	-0.048	-0.065	114.445%	-0.087	-0.072	-0.050	108.637%	-0.029
x		-0.072	-0.113	-0.044	-0.064	113.185%	-0.077	-0.075	-0.051	107.732%	-0.030
σ		0.003	0.022	0.007	0.001	1.779%	0.010	0.003	0.005	1.585%	0.001
%RSD		3.787	19.850	16.230	2.137	1.572	13.340	4.176	10.710	1.471	3.084
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:16:08	-0.008	-0.042	-0.047	103.117%	-0.057					
2	05:16:12	-0.026	-0.041	-0.051	105.090%	-0.056					
3	05:16:16	-0.023	-0.051	-0.050	106.085%	-0.055					
x		-0.019	-0.045	-0.049	104.764%	-0.056					
σ		0.010	0.006	0.002	1.511%	0.001					
%RSD		51.050	12.800	4.593	1.442	1.695					

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10/18/2019 5:23:18 AM

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	05:23:21	-0.048	-0.085	4.013	4640.000	2941.000	4.445	32.300	23210.000	1375.000	1537000.000
2	05:23:25	-0.040	-0.089	3.980	4659.000	2954.000	4.706	33.900	22940.000	1409.000	1504000.000
3	05:23:29	-0.051	-0.099	3.672	4692.000	2992.000	5.401	32.540	23360.000	1432.000	1517000.000
x		-0.046	-0.091	3.889	4664.000	2962.000	4.850	32.910	23170.000	1405.000	1520000.000
σ		0.006	0.007	0.188	26.210	26.470	0.494	0.865	210.600	28.640	16810.000
%RSD		12.430	7.999	4.833	0.562	0.893	10.190	2.629	0.909	2.038	1.106
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	05:23:21	TM 36480.000	358.900	121.180%	121.953%	-0.017	-0.046	0.115	7.363	32.680	0.946
2	05:23:25	TM 35740.000	403.400	125.024%	120.905%	-0.260	-0.016	0.105	7.067	31.130	0.908
3	05:23:29	TM 36080.000	410.600	124.949%	121.848%	0.027	-0.125	0.124	7.200	31.040	1.017
x		TM 36100.000	391.000	123.718%	121.569%	-0.083	-0.062	0.115	7.210	31.620	0.957
σ		TM 368.100	28.020	2.198%	0.577%	0.154	0.057	0.010	0.148	0.919	0.055
%RSD		TM 1.020	7.166	1.777	0.475	185.200	90.660	8.293	2.056	2.906	5.754
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:21	-0.056	0.160	2.762	66.410	118.691%	-0.049	1.163	0.269	114.379%	-0.013
2	05:23:25	-0.055	0.129	2.790	65.490	122.681%	-0.035	1.056	0.244	118.726%	-0.009
3	05:23:29	-0.059	0.205	2.733	66.330	124.233%	-0.080	1.291	0.279	120.394%	-0.019
x		-0.056	0.164	2.762	66.080	121.868%	-0.055	1.170	0.264	117.833%	-0.013
σ		0.002	0.038	0.028	0.508	2.859%	0.023	0.118	0.018	3.105%	0.005
%RSD		3.624	23.200	1.021	0.768	2.346	41.870	10.070	6.834	2.635	37.400
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:23:21	0.173	-0.156	-0.032	-0.040	112.459%	31.700	-0.037	0.050	106.357%	0.002
2	05:23:25	0.215	-0.119	-0.041	-0.052	117.156%	31.860	-0.045	0.043	110.934%	0.007
3	05:23:29	0.162	-0.111	-0.041	-0.045	117.811%	31.790	-0.045	0.058	112.463%	0.005
x		0.184	-0.128	-0.038	-0.046	115.809%	31.780	-0.043	0.050	109.918%	0.005
σ		0.028	0.024	0.005	0.006	2.919%	0.079	0.005	0.007	3.177%	0.002
%RSD		15.090	18.650	13.210	13.180	2.521	0.248	11.010	14.760	2.890	49.920
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:23:21	-0.008	-0.054	-0.011	103.153%	-0.043					
2	05:23:25	-0.016	-0.056	-0.015	108.517%	-0.048					
3	05:23:29	-0.013	-0.059	-0.021	109.755%	-0.049					
x		-0.012	-0.056	-0.015	107.142%	-0.047					
σ		0.004	0.003	0.005	3.509%	0.003					
%RSD		33.090	4.742	32.220	3.275	6.664					

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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	05:30:36	47.810	50.590	100.100	<u>16660.000</u>	<u>13690.000</u>	2683.000	307.900	<u>M 32690.000</u>	1568.000	<u>1535000.000</u>
2	05:30:39	47.650	50.940	101.900	<u>16160.000</u>	14110.000	2650.000	305.200	<u>M 32310.000</u>	1602.000	<u>1501000.000</u>
3	05:30:43	47.770	49.900	99.250	<u>16170.000</u>	14100.000	2632.000	302.400	<u>M 32660.000</u>	1587.000	<u>1504000.000</u>
X		47.740	50.480	100.400	<u>16330.000</u>	<u>13970.000</u>	2655.000	305.200	<u>M 32550.000</u>	1586.000	<u>1514000.000</u>
σ		0.085	0.529	1.358	<u>1281.700</u>	<u>1241.500</u>	25.810	2.757	<u>M 213.500</u>	17.120	<u>18590.000</u>
%RSD		0.179	1.049	1.352	<u>1.725</u>	<u>1.729</u>	0.972	0.903	<u>M 0.656</u>	1.080	<u>1.228</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	05:30:36	<u>TM 107400.000</u>	3044.000	131.727%	135.722%	52.860	53.260	52.320	16.100	2604.000	52.920
2	05:30:39	<u>TM 105200.000</u>	3141.000	135.401%	136.246%	52.350	52.830	51.840	15.940	2582.000	52.440
3	05:30:43	<u>TM 106200.000</u>	3204.000	134.112%	135.253%	53.270	53.160	52.230	15.240	2577.000	52.870
X		<u>TM 106300.000</u>	3130.000	133.747%	135.740%	52.830	53.080	52.130	15.760	2588.000	52.740
σ		<u>TM 1125.000</u>	80.840	1.864%	0.497%	0.460	0.228	0.254	0.456	14.130	0.265
%RSD		<u>TM 1.059</u>	2.583	1.394	0.366	0.870	0.430	0.487	2.893	0.546	0.502
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:30:36	51.550	51.830	54.750	282.300	129.378%	53.620	61.020	52.220	125.443%	12.690
2	05:30:39	51.820	52.420	54.480	279.600	131.679%	53.770	60.940	52.440	128.324%	12.380
3	05:30:43	52.040	51.940	55.090	283.000	131.211%	54.050	61.750	52.090	128.119%	12.590
X		51.800	52.060	54.770	281.600	130.756%	53.810	61.240	52.250	127.295%	12.550
σ		0.242	0.317	0.302	1.826	1.216%	0.217	0.448	0.179	1.607%	0.157
%RSD		0.467	0.610	0.551	0.648	0.930	0.403	0.731	0.343	1.263	1.250
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:30:36	49.200	-0.145	26.200	52.740	120.764%	74.570	54.950	51.980	115.624%	-0.008
2	05:30:39	49.240	-0.112	26.100	51.790	124.346%	73.990	54.770	51.600	118.375%	-0.021
3	05:30:43	49.510	-0.126	26.170	52.570	124.047%	74.120	54.800	51.790	118.579%	-0.017
X		49.310	-0.128	26.160	52.370	123.052%	74.230	54.840	51.790	117.526%	-0.015
σ		0.172	0.017	0.054	0.509	1.988%	0.302	0.101	0.189	1.650%	0.007
%RSD		0.349	12.980	0.205	0.972	1.615	0.407	0.184	0.365	1.404	43.260
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:30:36	1.013	49.540	50.930	107.416%	51.740					
2	05:30:39	1.017	49.510	51.120	110.223%	52.090					
3	05:30:43	0.994	49.280	51.070	110.943%	51.750					
X		1.008	49.440	51.040	109.527%	51.860					
σ		0.012	0.144	0.100	1.864%	0.195					
%RSD		1.210	0.291	0.195	1.702	0.377					

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10/18/2019 5:37:45 AM

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	05:37:49	1.347	-0.025	14.070	<u>TM 98740.000</u>	5403.000	34.110	137.500	<u>M 54230.000</u>	4425.000	<u>T 1508000.000</u>
2	05:37:53	1.322	-0.043	14.480	<u>TM 96110.000</u>	5274.000	34.760	129.600	<u>M 53820.000</u>	4332.000	<u>T 1475000.000</u>
3	05:37:57	1.259	-0.042	13.530	<u>TM 97680.000</u>	5328.000	37.060	130.400	<u>M 54240.000</u>	4460.000	<u>T 1482000.000</u>
x		1.309	-0.037	14.030	<u>TM 97510.000</u>	5335.000	35.310	132.500	<u>M 54100.000</u>	4406.000	<u>T 1489000.000</u>
σ		0.045	0.010	0.479	<u>TM 1323.000</u>	64.590	1.550	4.364	<u>M 239.200</u>	66.480	<u>T 17440.000</u>
%RSD		3.454	28.300	3.416	<u>TM 1.357</u>	1.211	4.391	3.293	<u>M 0.442</u>	1.509	<u>T 1.171</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	05:37:49	<u>TM 72310.000</u>	12140.000	114.002%	119.945%	2.383	44.220	3.330	5.658	759.800	69.550
2	05:37:53	<u>TM 70640.000</u>	11610.000	117.296%	121.000%	1.877	43.860	3.329	5.452	765.100	68.940
3	05:37:57	<u>TM 71420.000</u>	12080.000	115.223%	119.526%	2.222	44.200	3.421	5.621	773.500	69.780
x		<u>TM 71460.000</u>	11940.000	115.507%	120.157%	2.161	44.090	3.360	5.577	766.100	69.420
σ		<u>TM 836.100</u>	292.900	1.665%	0.760%	0.259	0.202	0.053	0.110	6.894	0.435
%RSD		<u>TM 1.170</u>	2.452	1.442	0.632	11.960	0.458	1.571	1.969	0.900	0.626
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:37:49	4.944	20.820	<u>TM 2363.000</u>	<u>M 631.000</u>	114.168%	326.000	57.490	156.000	116.704%	-0.030
2	05:37:53	5.013	21.060	<u>TM 2314.000</u>	<u>M 633.100</u>	115.281%	328.600	57.660	156.600	118.882%	-0.050
3	05:37:57	4.950	20.880	<u>TM 2308.000</u>	<u>M 632.300</u>	115.551%	329.000	58.280	156.500	118.553%	-0.047
x		4.969	20.920	<u>TM 2329.000</u>	<u>M 632.200</u>	115.000%	327.900	57.810	156.400	118.047%	-0.042
σ		0.038	0.124	<u>TM 30.210</u>	<u>M 1.062</u>	0.733%	1.618	0.416	0.307	1.174%	0.010
%RSD		0.765	0.592	<u>TM 1.297</u>	<u>M 0.168</u>	0.637	0.493	0.720	0.196	0.995	24.440
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:37:49	14.940	-0.102	43.950	194.300	109.945%	15.140	0.237	1.068	108.298%	-0.018
2	05:37:53	15.070	-0.124	44.090	196.000	111.912%	15.320	0.232	1.079	110.324%	-0.011
3	05:37:57	15.150	-0.117	43.990	195.900	111.930%	15.110	0.250	1.032	111.047%	-0.012
x		15.050	-0.114	44.010	195.400	111.263%	15.190	0.240	1.059	109.890%	-0.014
σ		0.106	0.011	0.074	0.973	1.141%	0.115	0.010	0.025	1.425%	0.003
%RSD		0.707	9.539	0.167	0.498	1.025	0.755	4.001	2.321	1.297	24.670
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:37:49	1.360	-0.000	0.947	100.492%	0.475					
2	05:37:53	1.091	0.001	0.953	102.596%	0.488					
3	05:37:57	1.200	0.002	0.954	103.279%	0.486					
x		1.217	0.001	0.951	102.122%	0.483					
σ		0.135	0.001	0.004	1.453%	0.007					
%RSD		11.100	119.400	0.401	1.422	1.417					

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10/18/2019 5:45:00 AM

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	05:45:03	2.508	-0.001	25.980	<u>TM 189900.000</u>	10410.000	77.420	259.700	<u>M 109200.000</u>	8673.000	<u>T 1465000.000</u>
2	05:45:07	2.549	-0.035	25.460	<u>TM 188400.000</u>	10370.000	75.120	255.000	<u>M 110700.000</u>	8746.000	<u>T 1451000.000</u>
3	05:45:11	2.487	0.007	25.060	<u>TM 185800.000</u>	10280.000	73.650	255.000	<u>M 109200.000</u>	8796.000	<u>T 1454000.000</u>
x		2.515	-0.010	25.500	<u>TM 188000.000</u>	10350.000	75.400	256.600	<u>M 109700.000</u>	8738.000	<u>T 1457000.000</u>
σ		0.032	0.023	0.461	<u>TM 2076.000</u>	67.180	1.903	2.735	<u>M 892.600</u>	61.810	<u>T 7484.000</u>
%RSD		1.260	237.000	1.808	<u>TM 1.104</u>	0.649	2.524	1.066	<u>M 0.814</u>	0.707	<u>T 0.514</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	05:45:03	<u>TM 141100.000</u>	23900.000	114.635%	121.044%	5.689	88.330	6.950	4.700	1515.000	137.300
2	05:45:07	<u>TM 141000.000</u>	23900.000	116.974%	120.103%	4.693	87.900	6.958	4.571	1522.000	138.200
3	05:45:11	<u>TM 139600.000</u>	23480.000	119.167%	119.802%	5.446	87.290	6.832	5.216	1513.000	136.900
x		<u>TM 140500.000</u>	23760.000	116.925%	120.316%	5.276	87.840	6.913	4.829	1516.000	137.500
σ		<u>TM 844.800</u>	242.200	2.266%	0.648%	0.519	0.524	0.070	0.341	4.826	0.669
%RSD		<u>TM 0.601</u>	1.019	1.938	0.539	9.838	0.597	1.019	7.060	0.318	0.487
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:45:03	9.820	41.060	<u>TM 4478.000</u>	<u>M 1247.000</u>	113.372%	<u>M 685.000</u>	126.700	293.300	121.720%	-0.047
2	05:45:07	9.866	41.240	<u>TM 4425.000</u>	<u>M 1264.000</u>	115.428%	<u>M 689.500</u>	127.400	295.000	125.419%	-0.060
3	05:45:11	9.963	41.370	<u>TM 4386.000</u>	<u>M 1249.000</u>	117.497%	<u>M 685.300</u>	125.900	296.800	126.081%	-0.048
x		9.883	41.230	<u>TM 4430.000</u>	<u>M 1254.000</u>	115.432%	<u>M 686.600</u>	126.600	295.000	124.407%	-0.051
σ		0.073	0.156	<u>TM 46.440</u>	<u>M 9.539</u>	2.062%	<u>M 2.489</u>	0.752	1.770	2.350%	0.007
%RSD		0.741	0.377	<u>TM 1.048</u>	<u>M 0.761</u>	1.787	<u>M 0.362</u>	0.594	0.600	1.889	14.310
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:45:03	28.810	-0.074	83.430	381.100	109.221%	30.350	0.495	1.904	109.377%	-0.022
2	05:45:07	28.650	-0.089	83.640	382.400	112.405%	30.470	0.533	1.973	112.664%	-0.017
3	05:45:11	28.720	-0.105	83.750	382.200	113.631%	30.410	0.538	1.969	113.557%	-0.024
x		28.730	-0.089	83.610	381.900	111.752%	30.410	0.522	1.949	111.866%	-0.021
σ		0.078	0.015	0.166	0.739	2.276%	0.062	0.024	0.039	2.202%	0.003
%RSD		0.270	16.940	0.198	0.194	2.037	0.205	4.516	1.989	1.968	16.510
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:45:03	2.383	0.024	1.910	98.242%	1.019					
2	05:45:07	2.472	0.029	1.935	100.779%	1.004					
3	05:45:11	2.442	0.037	1.901	102.439%	1.020					
x		2.432	0.030	1.915	100.487%	1.015					
σ		0.045	0.007	0.018	2.114%	0.009					
%RSD		1.856	21.990	0.926	2.104	0.907					

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10/18/2019 5:52:14 AM

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	05:52:18	0.922	-0.054	0.703	10580.000	4050.000	1161.000	1944.000	<u>M 90860.000</u>	1226.000	<u>T 1428000.000</u>
2	05:52:22	0.952	0.010	0.555	10620.000	4105.000	1180.000	1959.000	<u>M 91440.000</u>	1174.000	<u>T 1411000.000</u>
3	05:52:26	0.917	-0.006	0.733	10770.000	4126.000	1173.000	1983.000	<u>M 91750.000</u>	1210.000	<u>T 1415000.000</u>
X		0.930	-0.017	0.664	10660.000	4094.000	1171.000	1962.000	<u>M 91350.000</u>	1203.000	<u>T 1418000.000</u>
σ		0.019	0.033	0.095	101.400	38.860	9.188	19.510	<u>M 450.800</u>	26.360	<u>T 9174.000</u>
%RSD		1.996	197.800	14.350	0.952	0.949	0.784	0.994	<u>M 0.493</u>	2.191	<u>T 0.647</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	05:52:18	<u>TM 29170.000</u>	<u>M 177700.000</u>	92.557%	99.410%	17.690	2.949	4.100	4.979	1700.000	460.300
2	05:52:22	<u>TM 28890.000</u>	<u>M 177500.000</u>	92.975%	99.473%	17.560	2.923	4.300	5.192	1715.000	465.200
3	05:52:26	<u>TM 29090.000</u>	<u>M 177500.000</u>	91.259%	98.778%	18.910	3.046	4.299	4.376	1713.000	466.100
X		<u>TM 29050.000</u>	<u>M 177500.000</u>	92.264%	99.220%	18.050	2.973	4.233	4.849	1709.000	463.900
σ		<u>TM 142.400</u>	<u>M 102.900</u>	0.895%	0.384%	0.747	0.065	0.115	0.423	8.340	3.136
%RSD		<u>TM 0.490</u>	<u>M 0.058</u>	0.970	0.387	4.137	2.183	2.713	8.729	0.488	0.676
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:52:18	1.282	2.388	10.270	191.500	92.836%	2.367	3.866	117.500	95.362%	-0.060
2	05:52:22	1.279	2.216	10.180	191.900	93.043%	2.425	4.353	116.700	97.163%	-0.071
3	05:52:26	1.352	2.307	10.040	192.700	93.052%	2.338	4.325	117.000	95.898%	-0.073
X		1.304	2.304	10.170	192.000	92.977%	2.376	4.181	117.000	96.141%	-0.068
σ		0.042	0.086	0.116	0.618	0.122%	0.044	0.273	0.376	0.925%	0.007
%RSD		3.186	3.726	1.138	0.322	0.132	1.861	6.533	0.321	0.962	9.892
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:52:18	0.509	-0.134	0.018	0.390	95.100%	34.220	-0.021	45.090	97.726%	-0.025
2	05:52:22	0.507	-0.096	0.021	0.348	96.819%	34.190	-0.025	45.240	99.634%	-0.022
3	05:52:26	0.454	-0.073	0.010	0.370	96.007%	34.080	-0.011	45.710	99.232%	-0.029
X		0.490	-0.101	0.016	0.369	95.975%	34.160	-0.019	45.350	98.864%	-0.025
σ		0.031	0.031	0.006	0.021	0.860%	0.074	0.007	0.322	1.006%	0.003
%RSD		6.419	30.700	35.770	5.762	0.896	0.216	39.030	0.710	1.018	12.820
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:52:18	0.118	-0.004	2.242	94.292%	0.194					
2	05:52:22	0.149	-0.004	2.244	96.476%	0.182					
3	05:52:26	0.154	-0.004	2.239	96.464%	0.193					
X		0.140	-0.004	2.242	95.744%	0.190					
σ		0.020	0.000	0.002	1.257%	0.007					
%RSD		13.970	4.790	0.109	1.313	3.461					

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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	05:59:32	51.450	50.420	100.300	<u>21670.000</u>	14840.000	3888.000	2382.000	<u>M90800.000</u>	1291.000	<u>1416000.000</u>
2	05:59:36	51.430	50.460	99.340	<u>21190.000</u>	14660.000	3850.000	2380.000	<u>M90620.000</u>	1308.000	<u>1400000.000</u>
3	05:59:40	51.230	51.080	100.100	<u>21200.000</u>	14940.000	3887.000	2400.000	<u>M90580.000</u>	1283.000	<u>1408000.000</u>
x		51.370	50.650	99.900	<u>21350.000</u>	14810.000	3875.000	2387.000	<u>M90670.000</u>	1294.000	<u>1408000.000</u>
σ		0.120	0.371	0.497	<u>276.700</u>	140.000	21.420	11.210	<u>M118.100</u>	12.720	<u>7655.000</u>
%RSD		0.234	0.732	0.498	<u>1.296</u>	0.945	0.553	0.470	<u>M0.130</u>	0.983	<u>0.544</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	05:59:32	<u>TM93430.000</u>	<u>M139200.000</u>	89.889%	95.260%	72.660	56.260	55.880	12.670	4243.000	471.600
2	05:59:36	<u>TM92080.000</u>	<u>M138300.000</u>	91.451%	93.975%	68.060	56.470	55.860	11.620	4235.000	469.300
3	05:59:40	<u>TM92730.000</u>	<u>M139900.000</u>	90.477%	94.618%	71.940	55.910	56.170	14.500	4239.000	473.300
x		<u>TM92740.000</u>	<u>M139100.000</u>	90.606%	94.618%	70.880	56.210	55.970	12.930	4239.000	471.400
σ		<u>TM676.700</u>	<u>M808.900</u>	0.789%	0.642%	2.472	0.281	0.172	1.458	3.731	2.040
%RSD		<u>TM0.730</u>	<u>M0.581</u>	0.871	0.679	3.487	0.499	0.307	11.280	0.088	0.433
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:59:32	52.970	53.190	59.370	393.400	91.270%	54.970	61.490	134.000	92.908%	7.824
2	05:59:36	52.560	53.280	59.080	395.900	91.977%	54.990	64.780	133.200	95.089%	7.766
3	05:59:40	53.220	52.860	58.940	395.600	91.787%	55.060	62.870	133.900	94.430%	7.918
x		52.920	53.110	59.130	395.000	91.678%	55.010	63.050	133.700	94.142%	7.836
σ		0.331	0.225	0.221	1.407	0.366%	0.045	1.656	0.388	1.118%	0.077
%RSD		0.625	0.423	0.373	0.356	0.399	0.082	2.626	0.290	1.188	0.978
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:59:32	49.580	-0.113	25.620	53.760	92.240%	79.020	54.550	91.030	96.989%	-0.009
2	05:59:36	49.000	-0.109	25.490	52.650	94.215%	78.480	54.440	89.420	98.629%	-0.002
3	05:59:40	49.650	-0.111	25.540	53.610	94.041%	78.340	54.890	90.470	98.149%	-0.003
x		49.410	-0.111	25.550	53.340	93.499%	78.610	54.630	90.310	97.922%	-0.005
σ		0.358	0.002	0.065	0.604	1.094%	0.361	0.233	0.821	0.843%	0.004
%RSD		0.724	1.536	0.254	1.133	1.170	0.459	0.426	0.909	0.861	82.830
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	05:59:32	1.412	50.930	54.230	92.269%	56.070					
2	05:59:36	1.472	51.330	54.620	94.458%	56.080					
3	05:59:40	1.440	51.150	54.410	94.560%	56.240					
x		1.441	51.140	54.420	93.762%	56.130					
σ		0.030	0.201	0.197	1.294%	0.093					
%RSD		2.059	0.393	0.361	1.380	0.166					

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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	06:06:48	48.960	49.830	94.340	<u>T 20720.000</u>	14210.000	3944.000	2556.000	<u>M 79260.000</u>	1213.000	<u>T 1365000.000</u>
2	06:06:52	49.030	48.910	96.140	<u>T 20460.000</u>	14160.000	3952.000	2522.000	<u>M 79880.000</u>	1294.000	<u>T 1348000.000</u>
3	06:06:55	49.750	50.750	98.150	<u>T 20520.000</u>	14260.000	3986.000	2565.000	<u>M 79870.000</u>	1211.000	<u>T 1355000.000</u>
x		49.250	49.830	96.210	<u>T 20570.000</u>	14210.000	3961.000	2547.000	<u>M 79670.000</u>	1240.000	<u>T 1356000.000</u>
σ		0.435	0.921	1.904	<u>T 133.300</u>	51.910	21.920	22.700	<u>M 357.300</u>	47.170	<u>T 8512.000</u>
%RSD		0.884	1.848	1.979	<u>T 0.648</u>	0.365	0.554	0.891	<u>M 0.449</u>	3.806	<u>T 0.628</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	06:06:48	<u>TM 90680.000</u>	<u>M 113500.000</u>	88.618%	92.583%	71.980	55.000	54.100	14.140	4240.000	430.200
2	06:06:52	<u>TM 90260.000</u>	<u>M 114700.000</u>	89.534%	92.952%	77.390	54.910	54.580	15.760	4255.000	434.600
3	06:06:55	<u>TM 90620.000</u>	<u>M 114600.000</u>	89.356%	92.478%	73.580	55.350	54.410	14.060	4273.000	436.600
x		<u>TM 90520.000</u>	<u>M 114300.000</u>	89.169%	92.671%	74.320	55.080	54.360	14.650	4256.000	433.800
σ		<u>TM 227.300</u>	<u>M 658.600</u>	0.486%	0.249%	2.779	0.235	0.243	0.962	16.860	3.303
%RSD		<u>TM 0.251</u>	<u>M 0.576</u>	0.545	0.269	3.739	0.427	0.448	6.565	0.396	0.761
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:06:48	51.050	51.380	57.560	381.900	90.811%	53.200	63.180	118.500	91.734%	17.030
2	06:06:52	51.630	52.390	57.770	381.700	91.710%	54.180	62.420	118.900	93.086%	17.210
3	06:06:55	51.550	52.090	57.250	385.700	92.235%	54.030	61.640	119.600	93.973%	17.360
x		51.410	51.950	57.530	383.100	91.585%	53.800	62.410	119.000	92.931%	17.200
σ		0.318	0.519	0.263	2.292	0.720%	0.528	0.766	0.510	1.128%	0.163
%RSD		0.618	1.000	0.457	0.598	0.786	0.981	1.228	0.428	1.214	0.947
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:06:48	47.790	-0.104	25.180	52.420	90.773%	78.610	54.070	87.330	95.024%	-0.028
2	06:06:52	47.950	-0.123	25.170	51.890	92.687%	78.460	54.020	86.810	96.983%	-0.022
3	06:06:55	47.580	-0.126	25.410	52.890	92.706%	79.130	54.870	87.490	97.037%	-0.022
x		47.770	-0.118	25.260	52.400	92.055%	78.740	54.320	87.210	96.348%	-0.024
σ		0.183	0.012	0.133	0.502	1.111%	0.352	0.477	0.358	1.147%	0.004
%RSD		0.382	10.310	0.526	0.959	1.207	0.447	0.878	0.411	1.190	15.820
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:06:48	1.556	49.330	52.580	91.986%	53.930					
2	06:06:52	1.459	49.590	52.890	93.907%	54.390					
3	06:06:55	1.498	49.620	52.910	94.288%	54.440					
x		1.504	49.510	52.790	93.394%	54.250					
σ		0.049	0.156	0.188	1.234%	0.285					
%RSD		3.228	0.315	0.356	1.321	0.526					

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10/18/2019 6:13:59 AM

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	06:14:02	47.420	46.850	93.490	<u>T 20690.000</u>	13700.000	3546.000	<u>T 1044.000</u>	<u>M 93740.000</u>	1161.000	<u>T 1401000.000</u>
2	06:14:06	46.720	46.110	92.770	<u>T 20210.000</u>	13580.000	3524.000	2363.000	<u>M 93540.000</u>	1172.000	<u>T 1376000.000</u>
3	06:14:10	47.390	46.920	91.070	<u>T 20270.000</u>	13570.000	3525.000	2351.000	<u>M 93470.000</u>	1087.000	<u>T 1363000.000</u>
x		47.180	46.630	92.440	<u>T 20390.000</u>	13620.000	3532.000	<u>T 1919.000</u>	<u>M 93580.000</u>	1140.000	<u>T 1380000.000</u>
σ		0.398	0.447	1.244	<u>T 263.200</u>	72.100	12.480	<u>T 757.800</u>	<u>M 141.000</u>	46.400	<u>T 19550.000</u>
%RSD		0.843	0.959	1.345	<u>T 1.291</u>	0.529	0.353	<u>T 39.480</u>	<u>M 0.151</u>	4.071	<u>T 1.417</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	06:14:02	<u>TM 89050.000</u>	<u>M 179200.000</u>	85.043%	89.130%	69.410	53.270	52.810	11.720	4070.000	<u>M 501.000</u>
2	06:14:06	<u>TM 87410.000</u>	<u>M 177500.000</u>	86.699%	90.154%	72.410	53.030	53.230	11.940	4049.000	<u>M 500.900</u>
3	06:14:10	<u>TM 86700.000</u>	<u>M 176300.000</u>	87.212%	89.274%	74.470	52.530	52.500	13.390	4032.000	<u>M 500.500</u>
x		<u>TM 87720.000</u>	<u>M 177700.000</u>	86.318%	89.519%	72.100	52.940	52.850	12.350	4050.000	<u>M 500.800</u>
σ		<u>TM 1204.000</u>	<u>M 1458.000</u>	1.133%	0.554%	2.544	0.378	0.366	0.904	19.000	<u>M 0.269</u>
%RSD		<u>TM 1.373</u>	<u>M 0.821</u>	1.313	0.619	3.529	0.713	0.693	7.319	0.469	<u>M 0.054</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:14:02	49.540	48.660	55.220	391.200	85.102%	53.250	61.380	162.700	88.443%	33.150
2	06:14:06	49.170	48.990	55.120	387.600	86.817%	52.110	61.140	162.700	90.996%	33.140
3	06:14:10	48.840	48.520	54.350	387.900	87.221%	52.110	59.100	161.500	90.683%	33.360
x		49.180	48.720	54.890	388.900	86.380%	52.490	60.540	162.300	90.041%	33.220
σ		0.351	0.244	0.476	2.015	1.125%	0.658	1.253	0.708	1.392%	0.122
%RSD		0.715	0.500	0.868	0.518	1.302	1.253	2.070	0.436	1.546	0.367
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:14:02	46.220	-0.128	21.860	49.930	87.192%	84.320	51.970	93.180	92.466%	-0.031
2	06:14:06	45.480	-0.111	21.770	49.520	89.342%	84.250	52.600	93.440	95.300%	-0.021
3	06:14:10	46.100	-0.144	21.680	49.920	90.170%	83.970	51.850	92.410	95.386%	-0.022
x		45.930	-0.128	21.770	49.790	88.902%	84.180	52.140	93.010	94.384%	-0.025
σ		0.394	0.017	0.091	0.232	1.537%	0.182	0.401	0.536	1.662%	0.006
%RSD		0.859	13.090	0.416	0.465	1.729	0.217	0.770	0.576	1.761	22.000
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:14:02	1.521	47.830	50.930	88.313%	53.000					
2	06:14:06	1.416	48.100	51.090	90.459%	52.810					
3	06:14:10	1.335	48.100	51.030	90.909%	52.870					
x		1.424	48.010	51.020	89.894%	52.900					
σ		0.093	0.154	0.079	1.387%	0.100					
%RSD		6.518	0.321	0.155	1.543	0.189					

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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	06:21:17	1.790	0.110	2.215	10400.000	3719.000	3006.000	4619.000	<u>M 76920.000</u>	1152.000	<u>T 1342000.000</u>
2	06:21:21	1.717	0.089	1.966	10340.000	3736.000	3023.000	4659.000	<u>M 77000.000</u>	1184.000	<u>T 1355000.000</u>
3	06:21:24	1.776	0.121	1.932	10260.000	3666.000	2985.000	4637.000	<u>M 76900.000</u>	1123.000	<u>T 1333000.000</u>
X		1.761	0.107	2.037	10330.000	3707.000	3005.000	4638.000	<u>M 76940.000</u>	1153.000	<u>T 1343000.000</u>
σ		0.039	0.017	0.154	71.490	36.650	19.160	20.140	<u>M 54.660</u>	30.280	<u>T 10960.000</u>
%RSD		2.213	15.540	7.574	0.692	0.989	0.638	0.434	<u>M 0.071</u>	2.626	<u>T 0.816</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	06:21:17	<u>TM 27890.000</u>	<u>M 123300.000</u>	84.266%	85.287%	68.130	6.377	9.831	6.139	3547.000	<u>M 834.800</u>
2	06:21:21	<u>TM 28060.000</u>	<u>M 125600.000</u>	84.299%	85.815%	66.530	6.894	9.896	5.082	3586.000	<u>M 837.100</u>
3	06:21:24	<u>TM 27760.000</u>	<u>M 124700.000</u>	85.068%	84.749%	70.280	6.543	9.835	5.707	3563.000	<u>M 830.900</u>
X		<u>TM 27900.000</u>	<u>M 124500.000</u>	84.544%	85.284%	68.310	6.604	9.854	5.643	3565.000	<u>M 834.300</u>
σ		<u>TM 145.700</u>	<u>M 1137.000</u>	0.454%	0.533%	1.885	0.264	0.037	0.531	19.710	<u>M 3.145</u>
%RSD		<u>TM 0.522</u>	<u>M 0.913</u>	0.537	0.625	2.759	3.994	0.371	9.417	0.553	<u>M 0.377</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	3.120	4.246	14.550	182.000	84.487%	2.665	4.426	80.380	89.933%	1.542
2	06:21:21	3.020	4.480	14.540	180.500	86.242%	2.839	4.100	80.590	91.332%	1.512
3	06:21:24	3.078	4.290	14.770	179.700	86.674%	2.734	4.984	80.970	91.760%	1.551
X		3.073	4.339	14.620	180.700	85.801%	2.746	4.503	80.640	91.008%	1.535
σ		0.050	0.124	0.134	1.135	1.158%	0.087	0.447	0.298	0.956%	0.021
%RSD		1.633	2.867	0.913	0.628	1.350	3.184	9.923	0.369	1.050	1.335
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:17	0.583	-0.100	-0.006	0.259	87.405%	37.100	0.025	62.310	91.323%	-0.029
2	06:21:21	0.538	-0.083	-0.017	0.316	89.150%	37.550	0.011	62.080	92.784%	-0.025
3	06:21:24	0.578	-0.105	0.008	0.230	89.066%	36.880	0.054	63.390	93.944%	-0.032
X		0.566	-0.096	-0.005	0.268	88.540%	37.180	0.030	62.590	92.684%	-0.029
σ		0.025	0.012	0.012	0.044	0.984%	0.338	0.022	0.699	1.313%	0.003
%RSD		4.352	12.470	246.000	16.260	1.112	0.909	72.520	1.117	1.417	11.480
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:21:17	0.162	0.054	3.576	90.790%	0.331					
2	06:21:21	0.141	0.054	3.577	93.031%	0.335					
3	06:21:24	0.136	0.058	3.593	93.481%	0.336					
X		0.146	0.055	3.582	92.434%	0.334					
σ		0.014	0.002	0.009	1.442%	0.002					
%RSD		9.342	4.015	0.262	1.560	0.724					

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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	06:28:32	0.331	-0.044	1.482	2164.000	770.100	625.600	963.000	15400.000	333.500	1454000.000
2	06:28:35	0.297	-0.039	1.253	2146.000	787.900	631.000	956.000	15820.000	348.100	1450000.000
3	06:28:39	0.334	-0.030	1.414	2167.000	780.600	627.100	985.600	15570.000	339.000	1441000.000
x		0.321	-0.038	1.383	2159.000	779.500	627.900	968.200	15600.000	340.200	1448000.000
σ		0.020	0.007	0.117	11.560	8.962	2.814	15.440	211.200	7.412	7172.000
%RSD		6.331	19.120	8.498	0.535	1.150	0.448	1.595	1.354	2.179	0.495
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	06:28:32	5494.000	M 25410.000	82.246%	84.510%	15.130	1.144	1.737	4.666	736.200	172.600
2	06:28:35	5561.000	M 25200.000	83.293%	84.473%	14.300	1.269	1.845	4.825	734.000	173.000
3	06:28:39	5544.000	24950.000	83.435%	85.382%	13.800	1.230	1.867	4.122	734.200	173.400
x		5533.000	M 25190.000	82.991%	84.788%	14.410	1.215	1.816	4.537	734.800	173.000
σ		34.730	M 227.300	0.649%	0.514%	0.674	0.064	0.069	0.368	1.236	0.366
%RSD		0.628	M 0.902	0.782	0.607	4.678	5.286	3.806	8.122	0.168	0.211
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:28:32	0.587	0.799	2.792	36.020	85.579%	0.384	0.699	16.870	84.733%	0.267
2	06:28:35	0.582	0.724	2.822	36.580	87.059%	0.372	0.539	16.610	87.028%	0.285
3	06:28:39	0.574	0.734	2.837	37.150	86.839%	0.429	0.938	17.000	87.232%	0.286
x		0.581	0.752	2.817	36.580	86.492%	0.395	0.725	16.830	86.331%	0.279
σ		0.007	0.041	0.023	0.564	0.799%	0.030	0.201	0.197	1.388%	0.011
%RSD		1.149	5.455	0.804	1.540	0.924	7.690	27.650	1.172	1.608	3.845
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:28:32	0.050	-0.124	-0.049	-0.005	86.763%	7.565	-0.059	12.370	88.706%	-0.027
2	06:28:35	0.056	-0.105	-0.041	-0.032	88.331%	7.278	-0.057	12.530	90.932%	-0.024
3	06:28:39	0.050	-0.130	-0.040	0.005	89.082%	7.436	-0.061	12.940	91.319%	-0.014
x		0.052	-0.120	-0.043	-0.011	88.058%	7.426	-0.059	12.610	90.319%	-0.022
σ		0.003	0.013	0.005	0.019	1.183%	0.144	0.002	0.293	1.410%	0.007
%RSD		5.894	10.750	11.560	181.400	1.344	1.933	3.150	2.324	1.561	30.610
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:28:32	0.029	-0.063	0.671	91.707%	0.018					
2	06:28:35	-0.009	-0.057	0.672	93.429%	0.016					
3	06:28:39	0.011	-0.059	0.691	94.471%	0.017					
x		0.010	-0.060	0.678	93.202%	0.017					
σ		0.019	0.003	0.011	1.396%	0.001					
%RSD		189.200	5.276	1.583	1.498	6.435					

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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	06:35:46	103.300	103.500	98.480	4948.000	5064.000	4954.000	4907.000	4836.000	137.000	1518000.000
2	06:35:49	103.100	103.700	100.800	4948.000	5053.000	4980.000	4894.000	4743.000	133.900	1507000.000
3	06:35:53	103.100	105.600	102.800	5049.000	5086.000	5097.000	4998.000	5045.000	137.200	1528000.000
x		103.100	104.300	100.700	4982.000	5068.000	5010.000	4933.000	4875.000	136.000	1518000.000
σ		0.111	1.188	2.143	58.480	16.630	76.200	56.760	155.100	1.856	10680.000
%RSD		0.108	1.139	2.128	1.174	0.328	1.521	1.151	3.182	1.365	0.704
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	06:35:46	4977.000	4845.000	82.746%	82.678%	97.580	102.100	102.100	16.190	4966.000	102.200
2	06:35:49	4961.000	5231.000	85.009%	82.651%	100.400	103.200	103.000	16.770	4965.000	102.400
3	06:35:53	5086.000	4983.000	84.333%	82.689%	102.500	103.200	103.900	17.280	5018.000	104.200
x		5008.000	5020.000	84.029%	82.673%	100.200	102.800	103.000	16.750	4983.000	102.900
σ		68.030	195.500	1.162%	0.019%	2.446	0.639	0.912	0.543	30.190	1.096
%RSD		1.358	3.895	1.383	0.024	2.442	0.621	0.886	3.242	0.606	1.065
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:46	99.810	101.400	99.850	100.900	85.411%	101.000	108.600	102.200	84.119%	102.600
2	06:35:49	100.200	100.900	101.200	101.700	87.962%	100.800	110.000	102.600	86.363%	103.100
3	06:35:53	101.100	101.700	100.800	102.200	88.968%	101.900	109.400	103.100	87.456%	103.200
x		100.400	101.300	100.600	101.600	87.447%	101.200	109.300	102.600	85.980%	103.000
σ		0.677	0.392	0.681	0.634	1.833%	0.555	0.708	0.439	1.701%	0.335
%RSD		0.675	0.387	0.677	0.625	2.097	0.548	0.647	0.428	1.979	0.326
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:46	100.500	102.800	51.590	104.000	87.000%	102.900	105.400	99.930	90.014%	99.760
2	06:35:49	100.900	102.000	51.630	103.700	90.149%	102.400	105.400	99.060	93.053%	100.000
3	06:35:53	101.300	102.000	51.430	102.800	90.348%	103.000	106.200	100.900	94.201%	100.100
x		100.900	102.300	51.550	103.500	89.166%	102.800	105.700	99.980	92.423%	99.980
σ		0.421	0.474	0.103	0.633	1.878%	0.347	0.491	0.940	2.164%	0.187
%RSD		0.417	0.463	0.199	0.612	2.106	0.338	0.465	0.940	2.341	0.187
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:35:46	4.966	98.240	101.200	92.599%	102.700					
2	06:35:49	5.130	98.040	101.400	96.043%	102.800					
3	06:35:53	5.060	98.780	101.800	96.660%	102.400					
x		5.052	98.350	101.500	95.101%	102.600					
σ		0.082	0.381	0.327	2.188%	0.224					
%RSD		1.623	0.387	0.323	2.301	0.218					

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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	06:42:59	-0.067	-0.081	0.362	-4.514	-5.623	-7.705	-3.335	-2.272	142.000	1513000.000
2	06:43:03	-0.074	-0.081	0.503	-4.285	-7.102	-8.056	-3.949	-12.880	143.500	1526000.000
3	06:43:07	-0.064	-0.081	0.292	-4.570	-4.999	-7.581	-3.818	-4.732	148.500	1514000.000
x		-0.069	-0.081	0.386	-4.457	-5.908	-7.780	-3.701	-6.630	144.700	1518000.000
σ		0.005	0.000	0.108	0.151	1.080	0.246	0.323	5.555	3.399	7628.000
%RSD		7.541	0.165	27.960	3.389	18.280	3.165	8.736	83.790	2.350	0.503
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	06:42:59	-6.339	-5.093	86.502%	88.513%	-0.044	-0.260	-0.201	5.425	-4.383	-0.107
2	06:43:03	0.519	1.936	86.627%	88.746%	-0.112	-0.226	-0.205	5.327	-4.745	-0.092
3	06:43:07	-0.806	-1.678	87.219%	89.315%	0.056	-0.093	-0.207	4.993	-4.180	-0.087
x		-2.209	-1.612	86.783%	88.858%	-0.033	-0.193	-0.204	5.248	-4.436	-0.095
σ		3.638	3.515	0.383%	0.413%	0.085	0.088	0.003	0.227	0.286	0.010
%RSD		164.700	218.100	0.441	0.465	252.900	45.630	1.480	4.316	6.452	10.710
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:42:59	-0.074	-0.095	-0.284	-0.274	87.147%	-0.074	-0.114	-0.078	87.543%	-0.080
2	06:43:03	-0.075	-0.107	-0.294	-0.349	87.877%	-0.116	-0.205	-0.084	88.295%	-0.069
3	06:43:07	-0.072	-0.102	-0.312	-0.320	88.770%	-0.073	-0.093	-0.074	88.981%	-0.069
x		-0.074	-0.101	-0.297	-0.315	87.931%	-0.088	-0.137	-0.079	88.273%	-0.073
σ		0.002	0.006	0.014	0.038	0.813%	0.024	0.059	0.005	0.719%	0.006
%RSD		2.421	6.048	4.737	12.120	0.925	27.590	43.230	6.059	0.815	8.035
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:42:59	-0.062	-0.098	-0.049	-0.055	88.032%	-0.088	-0.073	-0.046	89.768%	-0.028
2	06:43:03	-0.064	-0.122	-0.040	-0.055	89.154%	-0.083	-0.074	-0.051	91.453%	-0.036
3	06:43:07	-0.076	-0.100	-0.043	-0.064	90.188%	-0.110	-0.075	-0.039	91.937%	-0.026
x		-0.067	-0.107	-0.044	-0.058	89.125%	-0.093	-0.074	-0.046	91.053%	-0.030
σ		0.008	0.013	0.005	0.005	1.078%	0.014	0.001	0.006	1.139%	0.005
%RSD		11.430	12.460	10.950	8.652	1.210	15.410	1.167	13.180	1.251	17.470
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:42:59	-0.013	-0.039	-0.046	91.320%	-0.054					
2	06:43:03	-0.017	-0.040	-0.048	93.630%	-0.055					
3	06:43:07	-0.009	-0.043	-0.051	93.646%	-0.053					
x		-0.013	-0.041	-0.048	92.865%	-0.054					
σ		0.004	0.002	0.002	1.338%	0.001					
%RSD		30.750	5.021	4.213	1.441	1.539					

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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	06:50:15	1.930	0.174	1.963	10300.000	3561.000	3089.000	4799.000	M 63710.000	1231.000	T 1389000.000
2	06:50:19	1.908	0.156	1.816	10240.000	3613.000	3084.000	4822.000	M 64570.000	1241.000	T 1387000.000
3	06:50:22	1.890	0.043	2.185	10310.000	3562.000	3088.000	4754.000	M 63730.000	1213.000	T 1358000.000
X		1.909	0.124	1.988	10280.000	3579.000	3087.000	4792.000	M 64000.000	1228.000	T 1378000.000
σ		0.020	0.071	0.186	35.160	29.800	2.686	34.660	M 492.400	14.590	T 17220.000
%RSD		1.066	57.320	9.351	0.342	0.833	0.087	0.723	M 0.769	1.188	T 1.249
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	06:50:15	TM 30640.000	M 95130.000	82.458%	83.971%	69.920	6.780	9.156	5.642	3673.000	M 532.200
2	06:50:19	TM 30320.000	M 95390.000	83.899%	83.289%	68.530	6.669	9.384	5.271	3697.000	M 534.300
3	06:50:22	TM 30080.000	TM 49270.000	84.474%	83.739%	69.130	6.424	9.115	6.722	3702.000	M 536.300
X		TM 30350.000	TM 79930.000	83.610%	83.667%	69.190	6.625	9.218	5.878	3690.000	M 534.300
σ		TM 282.200	TM 26550.000	1.039%	0.347%	0.698	0.182	0.145	0.754	15.420	M 2.086
%RSD		TM 0.930	TM 33.220	1.242	0.414	1.009	2.746	1.573	12.820	0.418	M 0.391
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:50:15	3.040	4.744	9.823	180.000	83.072%	2.783	5.010	58.770	88.777%	1.569
2	06:50:19	2.907	4.858	9.794	178.500	85.951%	2.847	5.257	59.090	90.356%	1.554
3	06:50:22	3.021	4.866	9.787	180.700	85.926%	2.656	4.707	59.010	91.411%	1.518
X		2.989	4.823	9.801	179.700	84.983%	2.762	4.991	58.960	90.181%	1.547
σ		0.072	0.068	0.019	1.126	1.655%	0.097	0.275	0.168	1.326%	0.027
%RSD		2.405	1.420	0.194	0.627	1.947	3.511	5.513	0.285	1.470	1.720
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:50:15	0.482	-0.096	-0.018	0.423	85.702%	36.030	0.026	52.700	89.124%	-0.024
2	06:50:19	0.569	-0.111	-0.011	0.460	87.933%	36.000	0.035	52.580	91.454%	-0.021
3	06:50:22	0.582	-0.095	0.001	0.456	88.603%	35.960	0.020	51.960	92.263%	-0.018
X		0.545	-0.101	-0.009	0.446	87.413%	36.000	0.027	52.410	90.947%	-0.021
σ		0.054	0.009	0.010	0.020	1.519%	0.031	0.007	0.399	1.630%	0.003
%RSD		9.960	8.527	102.500	4.585	1.738	0.086	27.390	0.762	1.792	14.380
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:50:15	0.141	0.036	3.992	88.398%	0.223					
2	06:50:19	0.128	0.037	3.920	91.410%	0.220					
3	06:50:22	0.126	0.043	3.931	92.085%	0.225					
X		0.132	0.039	3.947	90.631%	0.223					
σ		0.008	0.003	0.039	1.963%	0.003					
%RSD		6.342	9.033	0.986	2.166	1.285					

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10/18/2019 6:57:23 AM

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	06:57:27	1.078	-0.034	0.655	11340.000	3794.000	1156.000	2002.000	<u>M 79870.000</u>	1239.000	<u>T 1345000.000</u>
2	06:57:30	1.005	-0.015	0.446	11330.000	3760.000	1156.000	2023.000	<u>M 80000.000</u>	1193.000	<u>T 1326000.000</u>
3	06:57:35	1.107	-0.010	0.340	11380.000	3831.000	1167.000	1998.000	<u>M 80650.000</u>	1197.000	<u>T 1314000.000</u>
X		1.063	-0.020	0.480	11350.000	3795.000	1160.000	2007.000	<u>M 80170.000</u>	1210.000	<u>T 1328000.000</u>
σ		0.053	0.013	0.160	28.610	35.530	6.479	13.340	<u>M 419.400</u>	25.500	<u>T 15240.000</u>
%RSD		4.942	65.620	33.360	0.252	0.936	0.559	0.664	<u>M 0.523</u>	2.107	<u>T 1.147</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	06:57:27	<u>TM 29230.000</u>	<u>M 126800.000</u>	81.461%	84.635%	20.890	3.139	5.562	4.876	1709.000	363.100
2	06:57:30	<u>TM 29080.000</u>	<u>M 127600.000</u>	83.042%	85.421%	22.320	3.256	5.729	4.786	1709.000	364.400
3	06:57:35	<u>TM 28880.000</u>	<u>M 128600.000</u>	83.052%	85.051%	22.590	3.009	5.677	5.509	1712.000	365.200
X		<u>TM 29060.000</u>	<u>M 127700.000</u>	82.518%	85.036%	21.930	3.135	5.656	5.057	1710.000	364.200
σ		<u>TM 177.700</u>	<u>M 891.200</u>	0.916%	0.393%	0.917	0.123	0.086	0.394	1.832	1.079
%RSD		<u>TM 0.611</u>	<u>M 0.698</u>	1.110	0.462	4.179	3.937	1.518	7.794	0.107	0.296
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:57:27	1.222	2.168	9.013	177.900	82.887%	1.810	5.047	78.660	85.177%	0.296
2	06:57:30	1.300	1.971	8.838	178.900	86.206%	1.862	4.451	78.940	87.171%	0.291
3	06:57:35	1.244	2.157	9.130	178.300	84.892%	1.833	4.620	79.500	87.302%	0.268
X		1.255	2.099	8.994	178.400	84.662%	1.835	4.706	79.030	86.550%	0.285
σ		0.040	0.111	0.147	0.501	1.671%	0.026	0.307	0.425	1.191%	0.015
%RSD		3.183	5.264	1.638	0.281	1.974	1.420	6.524	0.538	1.376	5.228
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:57:27	0.904	-0.114	-0.011	0.288	85.745%	35.560	-0.016	37.470	89.657%	-0.016
2	06:57:30	0.925	-0.093	-0.026	0.269	88.398%	35.650	-0.019	38.000	91.868%	-0.018
3	06:57:35	0.907	-0.136	-0.018	0.297	87.923%	36.130	-0.048	38.740	92.354%	-0.020
X		0.912	-0.114	-0.018	0.285	87.355%	35.780	-0.028	38.070	91.293%	-0.018
σ		0.011	0.022	0.008	0.014	1.415%	0.306	0.018	0.640	1.438%	0.002
%RSD		1.250	19.050	41.750	4.976	1.620	0.854	63.880	1.681	1.575	11.070
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	06:57:27	0.137	-0.008	1.981	88.220%	0.179					
2	06:57:30	0.168	-0.010	1.964	91.633%	0.169					
3	06:57:35	0.089	-0.005	2.003	92.397%	0.174					
X		0.131	-0.008	1.983	90.750%	0.174					
σ		0.040	0.003	0.020	2.224%	0.005					
%RSD		30.380	34.300	0.996	2.451	2.897					

237886_10175_CCV4

10/18/2019 7:04:37 AM

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	07:04:41	103.900	105.200	101.600	5015.000	5093.000	4968.000	4860.000	4800.000	123.200	1538000.000
2	07:04:45	103.600	106.300	100.400	4978.000	5085.000	5025.000	4900.000	4847.000	126.200	1526000.000
3	07:04:49	102.900	106.800	101.500	4999.000	5088.000	5023.000	4921.000	5128.000	115.000	1514000.000
x		103.500	106.100	101.200	4997.000	5089.000	5005.000	4893.000	4925.000	121.500	1526000.000
σ		0.521	0.852	0.670	18.610	4.274	32.100	30.970	177.200	5.779	12190.000
%RSD		0.503	0.803	0.662	0.372	0.084	0.641	0.633	3.599	4.758	0.799
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	07:04:41	5001.000	5028.000	80.741%	80.711%	100.700	102.000	102.800	21.300	4973.000	102.500
2	07:04:45	5030.000	4810.000	82.646%	81.513%	104.900	100.500	102.200	19.560	4977.000	102.500
3	07:04:49	5009.000	5276.000	83.203%	80.590%	104.900	102.600	102.200	18.080	4994.000	103.400
x		5013.000	5038.000	82.197%	80.938%	103.500	101.700	102.400	19.650	4981.000	102.800
σ		15.130	233.000	1.291%	0.501%	2.395	1.069	0.329	1.614	11.050	0.536
%RSD		0.302	4.624	1.571	0.620	2.315	1.051	0.321	8.213	0.222	0.522
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:41	100.600	102.300	100.500	101.700	83.609%	101.400	107.600	102.200	82.278%	103.100
2	07:04:45	100.600	101.700	100.500	102.800	86.246%	100.400	107.300	102.800	85.283%	102.600
3	07:04:49	100.300	101.700	100.300	101.500	87.581%	100.400	108.700	102.700	85.842%	102.400
x		100.500	101.900	100.500	102.000	85.812%	100.700	107.800	102.600	84.468%	102.700
σ		0.168	0.356	0.150	0.702	2.021%	0.584	0.725	0.317	1.917%	0.358
%RSD		0.167	0.349	0.150	0.688	2.355	0.580	0.672	0.309	2.269	0.348
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:04:41	100.800	102.900	51.480	102.600	85.555%	101.300	104.500	99.010	89.037%	99.660
2	07:04:45	100.400	102.300	51.420	103.000	88.624%	101.900	105.200	99.370	92.188%	99.940
3	07:04:49	101.200	102.700	51.360	103.600	89.365%	102.200	105.900	99.880	93.056%	99.820
x		100.800	102.600	51.420	103.100	87.848%	101.800	105.200	99.420	91.427%	99.810
σ		0.395	0.268	0.060	0.497	2.020%	0.434	0.680	0.442	2.115%	0.143
%RSD		0.392	0.261	0.117	0.482	2.300	0.426	0.647	0.444	2.314	0.144
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:04:41	5.109	98.000	101.400	92.028%	102.800					
2	07:04:45	5.175	98.060	101.300	95.050%	102.500					
3	07:04:49	4.961	98.400	101.600	96.006%	102.100					
x		5.081	98.150	101.400	94.361%	102.500					
σ		0.109	0.215	0.191	2.076%	0.347					
%RSD		2.151	0.219	0.188	2.200	0.338					

237880_10175_CCBTV44

10/18/2019 7:11:52 AM

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	07:11:55	-0.073	-0.086	0.022	-4.672	-5.270	-7.237	-4.654	5.481	151.900	1507000.000
2	07:11:59	-0.073	-0.086	0.245	-4.097	-7.123	-6.762	-5.291	-7.010	147.300	1502000.000
3	07:12:02	-0.062	-0.100	0.320	-4.805	-5.632	-7.762	-5.148	-4.498	143.300	1510000.000
x		-0.069	-0.090	0.196	-4.524	-6.008	-7.254	-5.031	-2.009	147.500	1506000.000
σ		0.006	0.008	0.155	0.377	0.982	0.500	0.334	6.607	4.297	3679.000
%RSD		8.621	9.254	79.350	8.321	16.350	6.893	6.644	328.900	2.914	0.244
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	07:11:55	-4.839	-8.602	85.907%	88.081%	-0.146	-0.080	-0.186	4.462	-3.958	-0.093
2	07:11:59	-3.590	-5.273	87.622%	87.910%	-0.046	-0.194	-0.218	5.124	-4.246	-0.089
3	07:12:02	0.102	-5.212	86.735%	87.886%	-0.079	-0.127	-0.212	4.663	-4.022	-0.087
x		-2.776	-6.362	86.755%	87.959%	-0.091	-0.134	-0.205	4.750	-4.075	-0.090
σ		2.569	1.940	0.857%	0.106%	0.051	0.057	0.017	0.339	0.151	0.003
%RSD		92.570	30.490	0.988	0.121	56.340	42.740	8.184	7.138	3.712	3.555
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:55	-0.069	-0.082	-0.307	-0.314	86.188%	-0.119	0.004	-0.077	86.804%	-0.075
2	07:11:59	-0.074	-0.066	-0.298	-0.384	87.856%	-0.056	-0.136	-0.059	88.307%	-0.049
3	07:12:02	-0.068	-0.074	-0.316	-0.400	87.942%	-0.117	-0.060	-0.064	88.909%	-0.051
x		-0.070	-0.074	-0.307	-0.366	87.329%	-0.097	-0.064	-0.066	88.006%	-0.058
σ		0.003	0.008	0.009	0.046	0.989%	0.036	0.070	0.009	1.084%	0.014
%RSD		4.418	11.290	2.880	12.460	1.133	36.630	110.000	13.520	1.232	24.650
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:55	-0.046	-0.147	-0.047	-0.061	87.137%	-0.071	-0.080	-0.048	89.242%	-0.026
2	07:11:59	-0.076	-0.124	-0.038	-0.053	89.658%	-0.100	-0.062	-0.051	91.253%	-0.017
3	07:12:02	-0.055	-0.090	-0.044	-0.056	90.331%	-0.081	-0.075	-0.049	92.109%	-0.017
x		-0.059	-0.120	-0.043	-0.056	89.042%	-0.084	-0.072	-0.050	90.868%	-0.020
σ		0.015	0.029	0.005	0.004	1.684%	0.014	0.009	0.001	1.472%	0.005
%RSD		25.800	24.060	10.840	7.576	1.891	17.250	12.410	2.936	1.620	25.740
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:11:55	-0.009	-0.033	-0.041	91.348%	-0.051					
2	07:11:59	-0.009	-0.039	-0.041	93.398%	-0.050					
3	07:12:02	-0.013	-0.038	-0.043	94.157%	-0.051					
x		-0.010	-0.037	-0.042	92.968%	-0.051					
σ		0.003	0.003	0.001	1.453%	0.000					
%RSD		25.020	8.382	3.265	1.563	0.941					

237881_10175_CRDL_A2

10/18/2019 7:19:05 AM

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	07:19:09	1.037	1.059	1.797	257.000	263.100	249.200	48.300	53.060	131.600	<u>1477000.000</u>
2	07:19:12	1.011	1.087	1.598	257.500	266.800	249.800	56.080	62.660	152.200	<u>1477000.000</u>
3	07:19:16	1.044	1.105	1.410	252.100	260.100	250.300	55.850	49.220	147.600	<u>1457000.000</u>
x		1.031	1.084	1.602	255.500	263.300	249.800	53.410	54.980	143.800	<u>1470000.000</u>
σ		0.017	0.023	0.194	2.982	3.342	0.593	4.426	6.922	10.860	<u>11340.000</u>
%RSD		1.688	2.130	12.110	1.167	1.269	0.237	8.287	12.590	7.548	<u>0.771</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	07:19:09	235.900	235.200	84.321%	86.280%	0.850	0.921	0.932	5.161	252.500	0.941
2	07:19:12	244.700	306.100	84.443%	87.143%	0.952	0.905	0.902	5.080	251.700	0.949
3	07:19:16	233.700	245.500	86.750%	87.227%	1.365	0.929	0.869	4.844	249.400	0.991
x		238.100	262.300	85.171%	86.884%	1.056	0.918	0.901	5.029	251.200	0.960
σ		5.785	38.340	1.368%	0.524%	0.273	0.012	0.032	0.165	1.650	0.027
%RSD		2.430	14.620	1.606	0.603	25.810	1.300	3.510	3.273	0.657	2.799
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:09	0.961	0.949	0.792	1.134	86.358%	0.868	0.825	0.963	84.425%	0.957
2	07:19:12	0.948	0.898	0.786	1.234	88.035%	0.905	1.208	0.993	86.196%	0.919
3	07:19:16	0.970	0.899	0.759	1.042	88.161%	0.955	1.154	0.968	87.189%	0.974
x		0.960	0.915	0.779	1.137	87.518%	0.909	1.062	0.975	85.937%	0.950
σ		0.011	0.029	0.017	0.096	1.007%	0.044	0.207	0.016	1.400%	0.028
%RSD		1.145	3.204	2.221	8.444	1.150	4.813	19.520	1.689	1.629	2.964
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:09	0.966	0.936	0.503	0.981	86.722%	0.940	0.963	0.962	87.342%	1.022
2	07:19:12	0.958	0.931	0.470	0.940	88.170%	0.964	0.991	1.006	89.110%	1.008
3	07:19:16	0.919	0.943	0.495	0.984	89.414%	0.912	0.978	1.028	90.022%	1.038
x		0.948	0.937	0.489	0.968	88.102%	0.939	0.977	0.999	88.825%	1.023
σ		0.025	0.006	0.017	0.025	1.347%	0.026	0.014	0.033	1.362%	0.015
%RSD		2.646	0.641	3.463	2.540	1.529	2.759	1.468	3.339	1.534	1.448
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:19:09	0.196	0.936	1.015	89.292%	1.004					
2	07:19:12	0.224	0.937	0.992	91.476%	1.007					
3	07:19:16	0.176	0.944	0.986	92.203%	1.028					
x		0.199	0.939	0.998	90.990%	1.013					
σ		0.024	0.004	0.015	1.515%	0.013					
%RSD		11.990	0.463	1.522	1.665	1.281					

237882_10175_CRDL_B2

10/18/2019 7:26:18 AM

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	07:26:22	5.174	5.093	6.066	510.400	524.200	507.600	254.500	247.600	151.600	1463000.000
2	07:26:25	5.345	5.536	5.268	500.400	514.900	501.300	249.400	244.200	126.400	1458000.000
3	07:26:29	5.225	5.614	5.449	498.200	523.600	499.200	262.000	245.500	120.700	1437000.000
x		5.248	5.414	5.594	503.000	520.900	502.700	255.300	245.800	132.900	1453000.000
σ		0.087	0.281	0.419	6.504	5.201	4.359	6.346	1.701	16.460	13500.000
%RSD		1.666	5.193	7.482	1.293	0.999	0.867	2.486	0.692	12.390	0.929
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	07:26:22	477.600	464.600	84.173%	86.396%	4.809	4.915	4.989	6.000	492.600	5.004
2	07:26:25	488.800	458.200	85.148%	86.779%	4.636	4.932	4.879	5.603	489.600	5.056
3	07:26:29	482.100	466.900	86.021%	86.856%	5.074	5.123	4.866	4.991	492.400	5.020
x		482.800	463.200	85.114%	86.677%	4.840	4.990	4.911	5.531	491.500	5.027
σ		5.631	4.533	0.925%	0.246%	0.220	0.115	0.067	0.508	1.658	0.027
%RSD		1.166	0.979	1.087	0.284	4.554	2.311	1.366	9.193	0.337	0.533
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:26:22	4.895	5.063	4.654	6.091	86.097%	5.054	5.040	5.044	84.193%	4.968
2	07:26:25	4.862	4.897	4.745	5.138	89.303%	4.866	5.201	5.056	86.250%	5.021
3	07:26:29	5.017	5.023	4.608	5.181	88.630%	4.958	5.170	5.113	86.737%	4.921
x		4.925	4.994	4.669	5.470	88.010%	4.959	5.137	5.071	85.727%	4.970
σ		0.082	0.086	0.069	0.538	1.691%	0.094	0.085	0.037	1.350%	0.050
%RSD		1.659	1.732	1.484	9.838	1.921	1.898	1.661	0.724	1.575	1.014
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:26:22	4.917	4.940	2.539	5.170	86.626%	5.020	5.260	5.049	87.410%	5.000
2	07:26:25	4.775	5.032	2.536	5.019	88.683%	4.935	5.190	4.857	89.575%	4.889
3	07:26:29	4.823	4.954	2.495	5.192	88.954%	4.928	5.069	4.882	89.736%	4.997
x		4.838	4.975	2.524	5.127	88.088%	4.961	5.173	4.929	88.907%	4.962
σ		0.072	0.050	0.025	0.094	1.273%	0.051	0.096	0.104	1.299%	0.063
%RSD		1.495	0.995	0.980	1.839	1.445	1.031	1.865	2.116	1.461	1.278
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:26:22	0.486	4.869	5.042	89.812%	5.051					
2	07:26:25	0.546	4.849	5.022	91.648%	5.113					
3	07:26:29	0.425	4.919	5.061	91.643%	5.132					
x		0.486	4.879	5.042	91.034%	5.099					
σ		0.060	0.036	0.019	1.059%	0.042					
%RSD		12.360	0.744	0.386	1.163	0.832					

237752_10175_ICSA2 10/18/2019 7:33:30 AM

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	07:33:34	0.207	-0.094	0.923	<u>TM 53720.000</u>	<u>M 49490.000</u>	<u>M 47910.000</u>	3.695	<u>M 50410.000</u>	3225.000	<u>T 1515000.000</u>
2	07:33:37	0.170	-0.079	0.127	<u>TM 53100.000</u>	<u>M 49590.000</u>	<u>M 48070.000</u>	6.489	<u>M 50010.000</u>	3250.000	<u>T 1515000.000</u>
3	07:33:41	0.204	-0.073	0.703	<u>TM 53250.000</u>	<u>M 50080.000</u>	<u>M 48560.000</u>	7.900	<u>M 50770.000</u>	3249.000	<u>T 1514000.000</u>
X		0.194	-0.082	0.584	<u>TM 53360.000</u>	<u>M 49720.000</u>	<u>M 48180.000</u>	6.028	<u>M 50400.000</u>	3241.000	<u>T 1515000.000</u>
σ		0.020	0.011	0.411	<u>TM 324.300</u>	<u>M 315.300</u>	<u>M 340.600</u>	2.140	<u>M 379.700</u>	13.860	<u>T 557.700</u>
%RSD		10.500	13.060	70.360	<u>TM 0.608</u>	<u>M 0.634</u>	<u>M 0.707</u>	35.500	<u>M 0.753</u>	0.427	<u>T 0.037</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	07:33:34	<u>TM 53860.000</u>	<u>M 51190.000</u>	80.087%	81.188%	<u>M 1008.000</u>	-0.177	0.149	4.320	<u>TM 53980.000</u>	0.020
2	07:33:37	<u>TM 53530.000</u>	<u>M 50390.000</u>	81.729%	82.127%	<u>M 1008.000</u>	-0.092	0.128	3.904	<u>TM 52940.000</u>	0.065
3	07:33:41	<u>TM 54040.000</u>	<u>M 51610.000</u>	81.251%	81.961%	<u>M 1028.000</u>	-0.160	0.119	4.115	<u>TM 53480.000</u>	-0.024
X		<u>TM 53810.000</u>	<u>M 51060.000</u>	81.022%	81.759%	<u>M 1015.000</u>	-0.143	0.132	4.113	<u>TM 53470.000</u>	0.020
σ		<u>TM 262.500</u>	<u>M 617.000</u>	0.845%	0.501%	<u>M 11.560</u>	0.045	0.015	0.208	<u>TM 521.000</u>	0.045
%RSD		<u>TM 0.488</u>	<u>M 1.208</u>	1.042	0.613	<u>M 1.139</u>	31.410	11.580	5.056	<u>TM 0.975</u>	222.700
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:33:34	0.010	0.086	-0.080	-0.177	78.693%	0.036	-0.155	0.445	79.417%	0.069
2	07:33:37	-0.017	0.051	-0.102	-0.350	82.458%	-0.019	-0.083	0.394	82.034%	0.033
3	07:33:41	0.001	0.004	-0.124	-0.558	81.752%	0.009	-0.129	0.367	81.967%	0.029
X		-0.002	0.047	-0.102	-0.361	80.968%	0.009	-0.122	0.402	81.140%	0.044
σ		0.013	0.041	0.022	0.191	2.001%	0.028	0.036	0.039	1.492%	0.022
%RSD		705.300	88.100	21.480	52.800	2.471	311.700	29.540	9.792	1.839	50.560
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:33:34	<u>M 1004.000</u>	-0.104	-0.026	-0.027	82.958%	0.078	-0.003	0.059	85.571%	-0.010
2	07:33:37	<u>M 1006.000</u>	-0.114	-0.045	-0.011	85.632%	0.092	0.026	0.090	88.184%	-0.002
3	07:33:41	<u>M 1009.000</u>	-0.114	-0.034	0.057	86.110%	0.074	0.014	0.095	89.077%	-0.005
X		<u>M 1006.000</u>	-0.111	-0.035	0.006	84.900%	0.082	0.012	0.081	87.610%	-0.005
σ		<u>M 2.516</u>	0.006	0.009	0.044	1.699%	0.010	0.015	0.020	1.822%	0.004
%RSD		<u>M 0.250</u>	5.110	26.630	704.000	2.001	11.830	121.100	24.550	2.080	72.060
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:33:34	-0.011	-0.070	0.010	83.109%	-0.045					
2	07:33:37	-0.012	-0.070	-0.001	85.876%	-0.048					
3	07:33:41	-0.008	-0.073	-0.001	86.896%	-0.047					
X		-0.010	-0.071	0.003	85.294%	-0.047					
σ		0.002	0.002	0.006	1.960%	0.002					
%RSD		21.460	2.499	235.200	2.298	3.956					

237753_10175_IC SAB2

10/18/2019 7:40:43 AM

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	07:40:47	98.920	98.120	95.230	<u>TM 52580.000</u>	<u>M 49210.000</u>	<u>M 47700.000</u>	4836.000	<u>M 54100.000</u>	3171.000	<u>T 1589000.000</u>
2	07:40:50	100.000	99.170	96.950	<u>TM 51290.000</u>	<u>M 48510.000</u>	<u>M 47040.000</u>	4783.000	<u>M 53570.000</u>	3113.000	<u>T 1558000.000</u>
3	07:40:54	99.150	99.440	97.250	<u>TM 52080.000</u>	<u>M 49690.000</u>	<u>M 48130.000</u>	4910.000	<u>M 54120.000</u>	3299.000	<u>T 1584000.000</u>
X		99.360	98.910	96.480	<u>TM 51980.000</u>	<u>M 49140.000</u>	<u>M 47620.000</u>	4843.000	<u>M 53930.000</u>	3194.000	<u>T 1577000.000</u>
σ		0.579	0.700	1.086	<u>TM 650.800</u>	<u>M 595.000</u>	<u>M 550.700</u>	63.700	<u>M 313.700</u>	94.990	<u>T 16630.000</u>
%RSD		0.583	0.707	1.126	<u>TM 1.252</u>	<u>M 1.211</u>	<u>M 1.156</u>	1.315	<u>M 0.582</u>	2.973	<u>T 1.055</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	07:40:47	<u>TM 53060.000</u>	<u>M 50780.000</u>	84.617%	86.682%	<u>M 1111.000</u>	102.400	101.800	19.730	<u>TM 52630.000</u>	102.100
2	07:40:50	<u>TM 51850.000</u>	<u>M 50520.000</u>	87.716%	85.584%	<u>M 1110.000</u>	101.900	100.700	20.250	<u>TM 51410.000</u>	101.000
3	07:40:54	<u>TM 52680.000</u>	<u>M 51000.000</u>	86.836%	86.670%	<u>M 1133.000</u>	103.000	102.700	20.650	<u>TM 51620.000</u>	102.700
X		<u>TM 52530.000</u>	<u>M 50770.000</u>	86.389%	86.312%	<u>M 1118.000</u>	102.400	101.700	20.210	<u>TM 51890.000</u>	101.900
σ		<u>TM 618.800</u>	<u>M 239.000</u>	1.597%	0.631%	<u>M 12.920</u>	0.519	1.025	0.462	<u>TM 654.400</u>	0.832
%RSD		<u>TM 1.178</u>	<u>M 0.471</u>	1.849	0.730	<u>M 1.156</u>	0.507	1.008	2.287	<u>TM 1.261</u>	0.817
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:40:47	99.820	97.910	96.630	102.700	84.636%	101.800	110.200	104.300	83.728%	102.800
2	07:40:50	99.660	97.560	97.860	101.800	86.702%	102.900	110.800	104.900	86.185%	103.400
3	07:40:54	100.700	98.170	97.890	103.500	88.074%	102.300	111.400	104.700	87.038%	103.500
X		100.100	97.880	97.460	102.700	86.471%	102.300	110.800	104.600	85.650%	103.200
σ		0.574	0.305	0.720	0.852	1.731%	0.545	0.606	0.322	1.719%	0.351
%RSD		0.574	0.311	0.739	0.830	2.001	0.533	0.547	0.307	2.006	0.340
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:40:47	<u>M 1115.000</u>	98.720	48.920	101.400	87.797%	101.500	103.800	99.970	91.203%	103.300
2	07:40:50	<u>M 1116.000</u>	99.840	49.250	102.800	90.368%	103.000	103.700	100.200	94.190%	103.500
3	07:40:54	<u>M 1111.000</u>	98.710	49.420	102.100	91.331%	102.000	104.600	100.900	94.889%	104.300
X		<u>M 1114.000</u>	99.090	49.190	102.100	89.832%	102.200	104.000	100.400	93.427%	103.700
σ		<u>M 2.369</u>	0.650	0.254	0.715	1.827%	0.755	0.527	0.454	1.957%	0.537
%RSD		<u>M 0.213</u>	0.656	0.517	0.700	2.034	0.739	0.506	0.452	2.095	0.518
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:40:47	5.611	100.000	102.000	88.993%	107.500					
2	07:40:50	5.490	100.200	102.200	92.136%	106.900					
3	07:40:54	5.049	100.900	102.300	92.975%	107.600					
X		5.383	100.400	102.200	91.368%	107.300					
σ		0.296	0.437	0.159	2.099%	0.375					
%RSD		5.497	0.435	0.156	2.298	0.350					

237886_10175_CCV5

10/18/2019 7:47:57 AM

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	07:48:01	102.600	102.800	100.600	5029.000	5059.000	4943.000	4830.000	4849.000	128.400	1527000.000
2	07:48:05	102.600	102.400	102.300	4996.000	5049.000	4997.000	4896.000	4931.000	112.900	1522000.000
3	07:48:08	101.300	102.200	98.880	5061.000	5069.000	5040.000	4969.000	4965.000	122.200	1532000.000
x		102.100	102.500	100.600	5029.000	5059.000	4993.000	4898.000	4915.000	121.200	1527000.000
σ		0.759	0.284	1.729	32.670	10.150	48.950	69.370	59.770	7.811	4990.000
%RSD		0.743	0.277	1.719	0.650	0.201	0.980	1.416	1.216	6.447	0.327
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	07:48:01	4962.000	4944.000	89.731%	89.713%	98.930	101.100	101.600	20.870	4956.000	102.400
2	07:48:05	5013.000	4931.000	91.523%	89.117%	101.300	101.700	102.500	18.290	4949.000	102.100
3	07:48:08	5097.000	5047.000	90.786%	89.766%	103.700	103.500	102.900	20.750	5031.000	104.200
x		5024.000	4974.000	90.680%	89.532%	101.300	102.100	102.400	19.970	4979.000	102.900
σ		68.490	63.690	0.901%	0.360%	2.372	1.245	0.663	1.453	45.510	1.113
%RSD		1.363	1.280	0.993	0.402	2.341	1.219	0.648	7.277	0.914	1.082
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:48:01	100.700	101.100	101.600	102.300	91.434%	101.000	109.300	102.600	90.636%	102.300
2	07:48:05	100.300	101.500	101.000	99.840	96.026%	99.770	107.400	102.500	92.706%	102.900
3	07:48:08	101.200	102.400	101.300	101.600	95.627%	101.200	107.900	102.500	93.723%	102.500
x		100.700	101.700	101.300	101.200	94.362%	100.700	108.200	102.500	92.355%	102.600
σ		0.454	0.689	0.303	1.260	2.544%	0.774	0.962	0.035	1.573%	0.289
%RSD		0.451	0.678	0.299	1.245	2.696	0.769	0.889	0.035	1.703	0.282
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:48:01	100.200	102.500	51.570	101.300	93.066%	101.500	104.500	99.350	95.914%	100.500
2	07:48:05	100.400	103.000	52.070	103.600	95.808%	102.200	104.200	100.200	98.413%	100.100
3	07:48:08	101.100	102.500	51.550	103.200	96.972%	102.200	104.400	99.980	99.545%	100.700
x		100.600	102.700	51.730	102.700	95.282%	102.000	104.300	99.850	97.957%	100.400
σ		0.449	0.263	0.300	1.205	2.006%	0.391	0.108	0.446	1.858%	0.331
%RSD		0.447	0.256	0.581	1.174	2.105	0.383	0.104	0.447	1.896	0.329
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:48:01	5.119	97.840	101.400	97.457%	101.800					
2	07:48:05	4.908	98.350	101.200	101.389%	101.400					
3	07:48:08	5.024	98.490	101.400	101.355%	101.500					
x		5.017	98.230	101.300	100.067%	101.600					
σ		0.106	0.344	0.127	2.261%	0.214					
%RSD		2.107	0.350	0.125	2.259	0.211					

237880_10175_CCBTVAS

10/18/2019 7:55:11 AM

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	07:55:14	-0.062	-0.078	0.435	-3.785	-4.593	-7.086	-4.540	-8.968	120.400	<u>1483000.000</u>
2	07:55:18	-0.057	-0.061	0.276	-3.779	-4.830	-6.287	-4.507	-5.829	103.800	<u>1460000.000</u>
3	07:55:22	-0.053	-0.074	0.321	-5.132	-4.963	-7.413	-2.910	-10.530	140.900	<u>1462000.000</u>
x		-0.058	-0.071	0.344	-4.232	-4.795	-6.928	-3.985	-8.441	121.700	<u>1468000.000</u>
σ		0.005	0.009	0.082	0.780	0.187	0.579	0.932	2.392	18.580	<u>12550.000</u>
%RSD		8.046	12.740	23.740	18.420	3.905	8.357	23.380	28.340	15.270	<u>10.855</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	07:55:14	-10.810	11.100	92.175%	94.628%	0.009	-0.149	-0.178	4.759	-4.026	-0.099
2	07:55:18	-10.550	-5.408	94.041%	95.810%	0.068	-0.104	-0.205	4.429	-3.764	-0.084
3	07:55:22	-5.479	-2.083	93.620%	95.234%	-0.025	-0.128	-0.180	4.467	-3.049	-0.092
x		-8.948	1.204	93.278%	95.224%	0.017	-0.127	-0.188	4.552	-3.613	-0.092
σ		3.007	8.732	0.979%	0.591%	0.047	0.023	0.015	0.181	0.505	0.008
%RSD		33.600	725.300	1.049	0.621	273.400	18.020	7.914	3.973	13.990	8.216
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:55:14	-0.064	-0.061	-0.313	-0.295	93.251%	-0.099	-0.173	-0.075	92.965%	-0.041
2	07:55:18	-0.065	-0.096	-0.328	-0.246	94.528%	-0.062	-0.055	-0.073	94.224%	-0.056
3	07:55:22	-0.065	-0.093	-0.310	-0.423	93.626%	-0.131	-0.097	-0.083	94.620%	-0.054
x		-0.065	-0.083	-0.317	-0.321	93.802%	-0.098	-0.109	-0.077	93.936%	-0.050
σ		0.000	0.019	0.010	0.092	0.657%	0.034	0.060	0.006	0.864%	0.008
%RSD		0.642	22.940	3.130	28.530	0.700	35.300	55.070	7.205	0.920	15.890
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:55:14	-0.009	-0.074	-0.040	-0.042	92.603%	-0.073	-0.060	-0.038	93.938%	-0.027
2	07:55:18	-0.029	-0.113	-0.033	-0.042	93.961%	-0.082	-0.067	-0.029	95.391%	-0.024
3	07:55:22	-0.022	-0.118	-0.037	-0.045	95.020%	-0.075	-0.070	-0.024	95.596%	-0.021
x		-0.020	-0.102	-0.037	-0.043	93.861%	-0.077	-0.066	-0.030	94.975%	-0.024
σ		0.010	0.024	0.003	0.002	1.211%	0.005	0.005	0.007	0.904%	0.003
%RSD		49.160	23.290	8.821	4.154	1.291	6.561	7.339	24.290	0.952	11.960
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	07:55:14	-0.006	-0.023	-0.035	95.786%	-0.046					
2	07:55:18	-0.014	-0.030	-0.037	97.796%	-0.045					
3	07:55:22	-0.014	-0.032	-0.045	98.129%	-0.049					
x		-0.011	-0.028	-0.039	97.237%	-0.047					
σ		0.005	0.005	0.005	1.268%	0.002					
%RSD		42.080	18.040	13.880	1.304	3.466					

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10/18/2019 8:02:25 AM

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	08:02:29	-0.046	-0.078	0.181	4.794	1.759	1.140	1.087	5.103	129.600	<u>1330000.000</u>
2	08:02:33	-0.031	-0.074	0.110	5.228	1.474	1.134	4.576	-12.250	130.600	<u>1327000.000</u>
3	08:02:36	-0.058	-0.069	0.701	5.955	0.622	1.986	0.648	6.909	130.900	<u>1312000.000</u>
x		-0.045	-0.074	0.330	5.326	1.285	1.420	2.103	-0.078	130.400	<u>1323000.000</u>
σ		0.014	0.005	0.323	0.587	0.592	0.490	2.152	10.580	0.659	<u>19796.000</u>
%RSD		30.290	6.179	97.610	11.010	46.030	34.500	102.300	13550.000	0.505	<u>10.741</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	08:02:29	-38.570	-2.354	91.834%	94.440%	0.170	-0.130	-0.152	4.124	2.840	0.022
2	08:02:33	-32.500	0.835	92.990%	94.606%	0.039	-0.045	-0.144	3.740	4.523	0.031
3	08:02:36	-39.300	0.683	93.855%	94.212%	0.224	-0.064	-0.166	4.100	2.915	0.039
x		-36.790	-0.279	92.893%	94.419%	0.144	-0.080	-0.154	3.988	3.426	0.031
σ		3.736	1.799	1.014%	0.198%	0.095	0.045	0.011	0.215	0.951	0.008
%RSD		10.160	645.800	1.092	0.210	66.030	56.190	7.265	5.389	27.760	27.560
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:29	-0.060	-0.053	-0.016	3.355	94.250%	-0.130	-0.143	-0.028	90.684%	-0.053
2	08:02:33	-0.054	-0.052	0.012	2.938	96.679%	-0.114	-0.071	-0.031	93.334%	-0.054
3	08:02:36	-0.064	-0.050	0.007	3.081	97.222%	-0.163	-0.178	-0.022	93.520%	-0.045
x		-0.059	-0.052	0.001	3.125	96.050%	-0.136	-0.131	-0.027	92.513%	-0.051
σ		0.005	0.002	0.015	0.212	1.582%	0.025	0.054	0.005	1.587%	0.005
%RSD		7.706	3.039	1393.000	6.781	1.647	18.530	41.550	16.840	1.715	9.255
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:29	0.527	-0.100	-0.047	-0.051	93.025%	0.039	-0.067	-0.038	91.731%	0.218
2	08:02:33	0.606	-0.077	-0.024	-0.046	94.748%	0.022	-0.048	-0.031	93.313%	0.198
3	08:02:36	0.568	-0.068	-0.036	-0.048	95.184%	0.034	-0.055	-0.033	94.504%	0.199
x		0.567	-0.082	-0.036	-0.048	94.319%	0.032	-0.057	-0.034	93.183%	0.205
σ		0.039	0.016	0.012	0.003	1.142%	0.009	0.009	0.004	1.392%	0.011
%RSD		6.949	20.060	31.960	5.246	1.211	27.790	16.650	10.640	1.493	5.592
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:02:29	-0.001	-0.050	-0.000	93.250%	-0.041					
2	08:02:33	0.018	-0.049	0.006	95.708%	-0.037					
3	08:02:36	-0.002	-0.052	-0.002	96.496%	-0.037					
x		0.005	-0.050	0.001	95.151%	-0.039					
σ		0.011	0.001	0.004	1.693%	0.002					
%RSD		230.300	2.299	448.800	1.779	5.475					

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10/18/2019 8:09:42 AM

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	08:09:46	487.900	<u>M 503.400</u>	485.900	4994.000	4997.000	4925.000	2454.000	478.400	150.400	<u>T 1384000.000</u>
2	08:09:49	491.200	<u>M 505.800</u>	480.200	4957.000	4980.000	4941.000	2454.000	477.000	133.600	<u>T 1361000.000</u>
3	08:09:53	490.200	<u>M 508.700</u>	487.400	4879.000	4923.000	4886.000	2443.000	516.500	107.000	<u>T 1338000.000</u>
X		489.800	<u>M 506.000</u>	484.500	4944.000	4967.000	4917.000	2451.000	490.600	130.300	<u>T 1361000.000</u>
σ		1.664	<u>M 2.623</u>	3.797	59.020	39.020	28.230	6.409	22.380	21.890	<u>T 22970.000</u>
%RSD		0.340	<u>M 0.518</u>	0.784	1.194	0.786	0.574	0.262	4.561	16.800	<u>T 1.688</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	08:09:46	4855.000	5172.000	91.199%	90.812%	484.000	482.600	480.600	90.580	4814.000	477.300
2	08:09:49	4881.000	5463.000	93.712%	90.440%	482.500	480.300	481.700	87.530	4817.000	481.900
3	08:09:53	4814.000	5004.000	95.263%	90.764%	484.200	479.400	477.800	85.260	4807.000	477.000
X		4850.000	5213.000	93.391%	90.672%	483.600	480.800	480.000	87.790	4813.000	478.700
σ		33.650	232.100	2.050%	0.202%	0.951	1.617	1.991	2.671	5.396	2.779
%RSD		0.694	4.451	2.196	0.223	0.197	0.336	0.415	3.043	0.112	0.581
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:46	464.100	472.500	468.500	486.900	94.697%	469.000	<u>M 521.500</u>	474.500	91.822%	487.200
2	08:09:49	469.300	478.200	475.700	496.100	96.229%	476.000	<u>M 528.300</u>	478.300	93.816%	490.100
3	08:09:53	465.900	473.800	469.300	489.500	98.604%	472.800	<u>M 524.200</u>	477.400	95.434%	488.700
X		466.400	474.800	471.200	490.800	96.510%	472.600	<u>M 524.700</u>	476.700	93.691%	488.600
σ		2.609	3.019	3.980	4.735	1.968%	3.514	<u>M 3.399</u>	1.946	1.809%	1.461
%RSD		0.559	0.636	0.845	0.965	2.040	0.744	<u>M 0.648</u>	0.408	1.931	0.299
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:09:46	452.200	-0.104	<u>M 250.900</u>	<u>M 507.100</u>	89.738%	<u>M 506.600</u>	<u>M 526.400</u>	482.900	95.461%	0.121
2	08:09:49	456.400	-0.085	<u>M 251.100</u>	<u>M 512.200</u>	92.502%	<u>M 508.800</u>	<u>M 528.700</u>	485.500	98.499%	0.109
3	08:09:53	453.800	-0.088	<u>M 251.600</u>	<u>M 513.000</u>	93.609%	<u>M 507.300</u>	<u>M 527.500</u>	482.900	99.186%	0.112
X		454.100	-0.092	<u>M 251.200</u>	<u>M 510.800</u>	91.950%	<u>M 507.600</u>	<u>M 527.500</u>	483.700	97.715%	0.114
σ		2.122	0.010	<u>M 0.323</u>	<u>M 3.226</u>	1.994%	<u>M 1.115</u>	<u>M 1.166</u>	1.484	1.983%	0.006
%RSD		0.467	11.080	<u>M 0.129</u>	<u>M 0.632</u>	2.168	<u>M 0.220</u>	<u>M 0.221</u>	0.307	2.029	5.536
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:09:46	0.017	<u>T 469.000</u>	<u>T 479.900</u>	96.870%	-0.054					
2	08:09:49	0.001	<u>T 461.500</u>	<u>T 473.600</u>	99.893%	-0.054					
3	08:09:53	-0.007	<u>T 457.200</u>	<u>T 471.700</u>	100.942%	-0.054					
X		0.003	<u>T 462.600</u>	<u>T 475.100</u>	99.235%	-0.054					
σ		0.013	<u>T 5.951</u>	<u>T 4.315</u>	2.114%	0.000					
%RSD		361.600	<u>T 1.287</u>	<u>T 0.908</u>	2.130	0.567					

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10/18/2019 8:16:55 AM

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	08:16:59	0.489	-0.014	7.133	3948.000	820.200	-2.783	316.900	0.247	181.700	1459000.000
2	08:17:03	0.451	-0.019	6.523	4071.000	830.100	-3.178	331.000	3.298	161.200	1501000.000
3	08:17:06	0.446	-0.029	6.566	4058.000	820.600	-2.574	329.700	-6.919	166.100	1485000.000
x		0.462	-0.021	6.740	4026.000	823.600	-2.845	325.900	-1.125	169.700	1482000.000
σ		0.023	0.008	0.340	67.480	5.601	0.307	7.780	5.245	10.700	21030.000
%RSD		5.031	36.510	5.050	1.676	0.680	10.790	2.387	466.400	6.307	1.419
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	08:16:59	941.800	3277.000	93.548%	93.602%	0.003	-0.073	-0.180	4.377	-3.078	0.351
2	08:17:03	999.200	3431.000	93.323%	93.650%	-0.029	-0.108	-0.179	4.719	-2.166	0.361
3	08:17:06	979.500	3447.000	94.321%	94.975%	-0.031	-0.116	-0.154	4.920	-1.790	0.437
x		973.500	3385.000	93.731%	94.076%	-0.019	-0.099	-0.171	4.672	-2.345	0.383
σ		29.170	93.900	0.523%	0.780%	0.019	0.023	0.015	0.275	0.662	0.047
%RSD		2.996	2.774	0.558	0.829	98.450	23.360	8.537	5.876	28.250	12.380
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:59	-0.041	0.175	-0.239	1.179	93.492%	0.064	-0.080	12.880	92.450%	0.144
2	08:17:03	-0.022	0.158	-0.220	1.050	96.932%	0.007	-0.046	13.030	94.235%	0.129
3	08:17:06	0.012	0.163	-0.206	0.945	97.655%	0.059	-0.090	13.190	95.400%	0.165
x		-0.017	0.166	-0.222	1.058	96.026%	0.043	-0.072	13.030	94.029%	0.146
σ		0.027	0.009	0.017	0.117	2.224%	0.031	0.023	0.158	1.486%	0.018
%RSD		155.300	5.245	7.514	11.080	2.316	71.860	31.890	1.214	1.580	12.310
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:59	0.945	-0.126	-0.021	-0.029	94.604%	0.052	0.056	3.151	93.521%	-0.015
2	08:17:03	1.106	-0.095	-0.016	-0.022	96.525%	0.050	0.070	3.178	94.926%	-0.009
3	08:17:06	0.997	-0.098	-0.006	0.009	97.636%	0.053	0.082	3.167	96.407%	-0.005
x		1.016	-0.106	-0.014	-0.014	96.255%	0.052	0.069	3.165	94.951%	-0.009
σ		0.082	0.017	0.008	0.020	1.534%	0.001	0.013	0.014	1.443%	0.005
%RSD		8.088	15.950	53.620	143.600	1.594	2.797	18.940	0.428	1.520	50.460
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:16:59	-0.010	0.129	0.006	94.326%	-0.060					
2	08:17:03	-0.002	0.121	0.021	97.302%	-0.060					
3	08:17:06	-0.022	0.133	0.055	98.285%	-0.060					
x		-0.011	0.128	0.028	96.637%	-0.060					
σ		0.010	0.006	0.025	2.062%	0.000					
%RSD		87.870	4.951	91.560	2.133	0.515					

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10/18/2019 8:24:10 AM

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	08:24:13	49.470	50.670	53.120	4499.000	1305.000	472.700	583.000	49.250	151.500	1490000.000
2	08:24:17	49.120	50.860	53.730	4463.000	1321.000	474.900	574.400	46.850	152.300	1445000.000
3	08:24:20	49.890	50.580	53.430	4457.000	1288.000	476.200	559.200	32.470	157.800	1450000.000
x		49.490	50.710	53.430	4473.000	1305.000	474.600	572.200	42.860	153.800	1462000.000
σ		0.387	0.141	0.305	22.670	16.290	1.781	12.050	9.076	3.415	24940.000
%RSD		0.781	0.277	0.571	0.507	1.249	0.375	2.106	21.180	2.220	1.706
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	08:24:13	1438.000	3987.000	90.534%	91.736%	46.880	48.070	47.760	10.070	464.800	47.730
2	08:24:17	1425.000	3704.000	92.855%	91.750%	47.430	47.700	47.610	10.790	470.100	47.280
3	08:24:20	1429.000	3758.000	93.567%	93.030%	50.990	47.690	47.040	11.060	468.700	47.520
x		1431.000	3817.000	92.319%	92.172%	48.430	47.820	47.470	10.640	467.900	47.510
σ		6.808	150.400	1.586%	0.743%	2.235	0.217	0.376	0.513	2.767	0.226
%RSD		0.476	3.941	1.718	0.806	4.614	0.454	0.791	4.816	0.591	0.476
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:13	46.540	46.680	46.390	48.160	92.845%	46.170	49.470	60.130	90.588%	48.100
2	08:24:17	46.440	46.980	46.560	47.170	95.232%	46.130	52.030	59.940	92.356%	48.770
3	08:24:20	46.880	46.120	46.750	47.950	96.117%	45.990	49.900	60.400	92.748%	48.760
x		46.620	46.590	46.570	47.760	94.731%	46.100	50.460	60.160	91.898%	48.540
σ		0.232	0.437	0.179	0.519	1.692%	0.094	1.375	0.234	1.151%	0.381
%RSD		0.498	0.937	0.385	1.088	1.786	0.204	2.724	0.389	1.252	0.786
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:24:13	44.920	-0.124	24.050	48.240	92.439%	47.240	50.000	49.850	92.491%	-0.013
2	08:24:17	45.260	-0.142	24.340	48.300	94.473%	47.480	50.290	49.600	94.468%	-0.016
3	08:24:20	45.180	-0.122	23.970	47.200	95.640%	47.850	50.180	49.030	95.507%	-0.004
x		45.120	-0.130	24.120	47.910	94.184%	47.520	50.160	49.490	94.156%	-0.011
σ		0.178	0.011	0.196	0.615	1.620%	0.310	0.147	0.419	1.532%	0.006
%RSD		0.394	8.671	0.814	1.283	1.720	0.652	0.293	0.846	1.627	54.480
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:24:13	-0.009	44.460	46.450	93.489%	-0.060					
2	08:24:17	-0.018	44.650	46.710	95.993%	-0.059					
3	08:24:20	-0.030	44.590	46.810	96.888%	-0.060					
x		-0.019	44.560	46.660	95.456%	-0.060					
σ		0.010	0.099	0.184	1.762%	0.000					
%RSD		54.110	0.222	0.394	1.846	0.343					

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10/18/2019 8:31:24 AM

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	08:31:28	50.310	50.800	52.660	4486.000	1308.000	498.100	592.900	38.810	153.400	1471000.000
2	08:31:31	50.030	51.150	54.110	4484.000	1287.000	488.600	584.100	39.560	175.000	1456000.000
3	08:31:35	51.110	52.420	55.450	4556.000	1302.000	502.900	593.000	33.970	173.800	1470000.000
x		50.480	51.460	54.070	4509.000	1299.000	496.500	590.000	37.450	167.400	1466000.000
σ		0.561	0.853	1.394	41.270	10.610	7.318	5.147	3.033	12.110	8590.000
%RSD		1.111	1.658	2.577	0.915	0.817	1.474	0.872	8.098	7.237	0.586
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	08:31:28	1449.000	4083.000	88.760%	90.179%	50.160	49.040	48.550	12.410	482.400	49.090
2	08:31:31	1443.000	3569.000	91.167%	90.803%	49.030	49.130	49.020	10.680	483.300	49.130
3	08:31:35	1479.000	3660.000	90.685%	89.719%	49.370	48.950	49.030	12.980	483.000	49.500
x		1457.000	3771.000	90.204%	90.233%	49.520	49.040	48.870	12.020	482.900	49.240
σ		19.410	274.700	1.273%	0.544%	0.581	0.092	0.272	1.196	0.469	0.230
%RSD		1.332	7.284	1.412	0.603	1.173	0.187	0.557	9.946	0.097	0.467
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:31:28	47.700	47.400	47.210	49.120	90.413%	47.070	50.920	61.450	88.842%	49.880
2	08:31:31	47.340	47.510	48.200	49.310	92.416%	47.350	52.180	61.410	90.559%	49.870
3	08:31:35	47.680	48.730	48.060	48.790	94.603%	47.020	52.310	61.260	91.499%	49.870
x		47.570	47.880	47.820	49.070	92.477%	47.150	51.800	61.370	90.300%	49.870
σ		0.201	0.735	0.534	0.261	2.096%	0.180	0.768	0.103	1.347%	0.005
%RSD		0.423	1.536	1.117	0.531	2.266	0.383	1.482	0.168	1.492	0.010
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:31:28	45.660	-0.113	24.610	48.660	90.823%	48.750	51.170	50.460	91.110%	-0.014
2	08:31:31	46.310	-0.155	24.920	49.620	92.675%	48.570	51.280	50.400	92.846%	-0.001
3	08:31:35	45.770	-0.131	24.660	49.170	92.948%	48.890	51.250	50.110	93.807%	-0.000
x		45.910	-0.133	24.730	49.150	92.149%	48.740	51.230	50.320	92.587%	-0.005
σ		0.351	0.021	0.170	0.483	1.156%	0.158	0.058	0.186	1.367%	0.007
%RSD		0.765	15.830	0.689	0.982	1.255	0.323	0.114	0.369	1.477	143.300
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:31:28	-0.029	45.580	47.680	91.904%	-0.060					
2	08:31:31	-0.018	45.730	47.700	94.530%	-0.060					
3	08:31:35	-0.030	45.950	47.600	95.585%	-0.059					
x		-0.026	45.750	47.660	94.006%	-0.060					
σ		0.007	0.187	0.056	1.896%	0.001					
%RSD		27.100	0.409	0.117	2.017	0.836					

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10/18/2019 8:38:39 AM

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	08:38:42	491.100	<u>M 511.200</u>	497.700	8807.000	5685.000	4835.000	2712.000	513.400	139.900	<u>T 1387000.000</u>
2	08:38:46	490.200	<u>M 508.200</u>	497.100	8836.000	5713.000	4797.000	2733.000	485.700	142.500	<u>T 1370000.000</u>
3	08:38:50	487.100	<u>M 503.400</u>	489.400	8747.000	5632.000	4803.000	2710.000	485.600	150.400	<u>T 1361000.000</u>
X		489.400	<u>M 507.600</u>	494.700	8797.000	5677.000	4812.000	2718.000	494.900	144.300	<u>T 1373000.000</u>
σ		2.103	<u>M 3.933</u>	4.609	45.370	40.830	20.470	12.550	16.030	5.496	<u>T 13230.000</u>
%RSD		0.430	<u>M 0.775</u>	0.932	0.516	0.719	0.425	0.462	3.240	3.809	<u>T 0.964</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	08:38:42	5722.000	8112.000	90.555%	90.407%	472.700	474.800	470.600	81.020	4720.000	473.500
2	08:38:46	5718.000	8224.000	92.528%	91.140%	480.900	472.700	468.700	85.560	4723.000	472.600
3	08:38:50	5710.000	8434.000	93.054%	91.781%	479.900	473.100	470.800	82.470	4741.000	472.700
X		5717.000	8256.000	92.046%	91.109%	477.800	473.500	470.000	83.020	4728.000	472.900
σ		6.275	163.400	1.317%	0.688%	4.490	1.114	1.173	2.320	11.600	0.494
%RSD		0.110	1.979	1.431	0.755	0.940	0.235	0.250	2.794	0.245	0.105
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:38:42	459.400	465.100	463.900	486.700	91.992%	469.600	<u>M 516.000</u>	483.100	90.021%	484.800
2	08:38:46	458.200	466.600	463.800	484.000	95.450%	469.100	<u>M 515.800</u>	484.900	92.417%	483.700
3	08:38:50	461.700	468.400	465.000	484.400	95.594%	469.000	<u>M 515.100</u>	485.900	93.228%	482.600
X		459.800	466.700	464.200	485.100	94.345%	469.300	<u>M 515.600</u>	484.600	91.889%	483.700
σ		1.754	1.695	0.644	1.475	2.039%	0.312	<u>M 0.472</u>	1.419	1.667%	1.094
%RSD		0.381	0.363	0.139	0.304	2.162	0.067	<u>M 0.092</u>	0.293	1.814	0.226
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:38:42	452.000	-0.095	249.900	497.300	89.063%	495.000	500.000	475.700	94.774%	-0.004
2	08:38:46	447.900	-0.101	248.400	<u>M 501.900</u>	92.218%	494.400	<u>M 501.800</u>	475.800	97.436%	-0.005
3	08:38:50	450.600	-0.119	249.200	<u>M 502.800</u>	92.347%	494.400	<u>M 503.400</u>	476.400	98.066%	-0.009
X		450.200	-0.105	249.200	<u>M 500.700</u>	91.209%	494.600	<u>M 501.700</u>	476.000	96.759%	-0.006
σ		2.076	0.013	0.768	<u>M 2.966</u>	1.860%	0.319	<u>M 1.739</u>	0.399	1.748%	0.003
%RSD		0.461	12.180	0.308	<u>M 0.592</u>	2.039	0.065	<u>M 0.347</u>	0.084	1.806	46.160
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:38:42	-0.018	<u>T 466.200</u>	<u>T 471.700</u>	95.884%	-0.060					
2	08:38:46	-0.018	<u>T 450.900</u>	<u>T 463.600</u>	99.249%	-0.061					
3	08:38:50	-0.018	<u>T 447.600</u>	<u>T 461.500</u>	99.892%	-0.061					
X		-0.018	<u>T 454.900</u>	<u>T 465.600</u>	98.342%	-0.060					
σ		0.000	<u>T 9.936</u>	<u>T 5.411</u>	2.152%	0.000					
%RSD		1.815	<u>T 2.184</u>	<u>T 1.162</u>	2.189	0.545					

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10/18/2019 8:45:53 AM

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	08:45:57	4.693	0.147	35.650	<u>TM 43760.000</u>	8175.000	27.510	3289.000	20.780	470.700	<u>T 1433000.000</u>
2	08:46:01	4.693	0.161	35.770	<u>TM 43370.000</u>	8282.000	30.230	3313.000	9.675	489.800	<u>T 1421000.000</u>
3	08:46:05	4.687	0.113	36.830	<u>TM 43150.000</u>	8276.000	31.530	3323.000	17.970	479.500	<u>T 1423000.000</u>
x		4.691	0.140	36.080	<u>TM 43420.000</u>	8244.000	29.760	3308.000	16.140	480.000	<u>T 1426000.000</u>
σ		0.004	0.025	0.651	<u>TM 309.600</u>	60.340	2.051	17.550	5.775	9.552	<u>T 6304.000</u>
%RSD		0.078	17.480	1.803	<u>TM 0.713</u>	0.732	6.892	0.530	35.770	1.990	<u>T 0.442</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	08:45:57	9815.000	<u>M 33660.000</u>	92.163%	92.759%	0.380	0.806	0.293	5.642	16.910	4.679
2	08:46:01	9835.000	<u>M 34530.000</u>	94.114%	92.856%	0.210	0.875	0.374	5.449	17.280	4.526
3	08:46:05	9910.000	<u>M 34780.000</u>	93.344%	93.578%	0.531	0.964	0.327	5.955	18.590	4.621
x		9853.000	<u>M 34320.000</u>	93.207%	93.064%	0.374	0.881	0.331	5.682	17.590	4.609
σ		49.800	<u>M 586.100</u>	0.982%	0.447%	0.160	0.079	0.040	0.256	0.882	0.077
%RSD		0.505	<u>M 1.708</u>	1.054	0.481	42.870	8.942	12.170	4.497	5.014	1.678
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:45:57	0.256	0.954	0.138	3.529	92.185%	1.102	0.481	132.500	91.508%	0.603
2	08:46:01	0.245	0.934	0.144	3.670	95.911%	1.214	0.563	133.400	93.236%	0.628
3	08:46:05	0.282	1.045	0.205	3.483	94.739%	1.241	0.605	132.500	93.859%	0.567
x		0.261	0.978	0.162	3.561	94.278%	1.186	0.550	132.800	92.868%	0.599
σ		0.019	0.059	0.037	0.097	1.905%	0.074	0.063	0.531	1.218%	0.031
%RSD		7.411	6.064	22.800	2.731	2.021	6.206	11.440	0.400	1.312	5.105
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:45:57	10.240	-0.150	0.103	0.267	92.586%	0.499	1.465	32.970	92.814%	0.075
2	08:46:01	10.520	-0.117	0.130	0.268	94.704%	0.502	1.457	33.010	95.059%	0.091
3	08:46:05	10.460	-0.127	0.131	0.280	95.101%	0.494	1.537	33.010	95.257%	0.105
x		10.400	-0.131	0.121	0.271	94.130%	0.498	1.486	33.000	94.376%	0.090
σ		0.149	0.017	0.016	0.007	1.352%	0.004	0.044	0.026	1.357%	0.015
%RSD		1.430	13.050	13.230	2.619	1.436	0.788	2.946	0.080	1.438	16.300
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:45:57	-0.025	0.259	0.285	91.664%	-0.049					
2	08:46:01	0.003	0.303	0.299	93.695%	-0.049					
3	08:46:05	-0.026	0.317	0.324	93.784%	-0.050					
x		-0.016	0.293	0.303	93.048%	-0.049					
σ		0.016	0.031	0.020	1.199%	0.001					
%RSD		100.700	10.460	6.604	1.289	1.603					

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10/18/2019 8:53:09 AM

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	08:53:13	487.400	<u>M 507.700</u>	<u>M 519.600</u>	<u>TM 45970.000</u>	12720.000	4802.000	5686.000	566.900	440.100	<u>T 1403000.000</u>
2	08:53:16	488.000	<u>M 502.900</u>	<u>M 512.300</u>	<u>TM 45770.000</u>	12870.000	4838.000	5681.000	544.700	423.400	<u>T 1382000.000</u>
3	08:53:20	486.700	498.500	<u>M 509.300</u>	<u>TM 44980.000</u>	12780.000	4833.000	5610.000	543.400	452.100	<u>T 1378000.000</u>
X		487.400	<u>M 503.000</u>	<u>M 513.700</u>	<u>TM 45580.000</u>	12790.000	4824.000	5659.000	551.700	438.600	<u>T 1388000.000</u>
σ		0.606	<u>M 4.621</u>	<u>M 5.267</u>	<u>TM 525.700</u>	71.890	19.570	42.760	13.180	14.400	<u>T 13320.000</u>
%RSD		0.124	<u>M 0.919</u>	<u>M 1.025</u>	<u>TM 1.154</u>	0.562	0.406	0.755	2.390	3.283	<u>T 0.960</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	08:53:13	14430.000	<u>M 38630.000</u>	87.735%	87.533%	479.900	484.400	473.000	88.860	4757.000	480.000
2	08:53:16	14450.000	<u>M 38920.000</u>	88.388%	88.109%	491.100	484.000	473.000	75.160	4750.000	478.200
3	08:53:20	14400.000	<u>M 38360.000</u>	89.525%	88.937%	479.800	482.300	472.600	81.430	4745.000	475.000
X		14430.000	<u>M 38640.000</u>	88.549%	88.193%	483.600	483.600	472.900	81.820	4751.000	477.700
σ		26.590	<u>M 284.700</u>	0.906%	0.706%	6.469	1.107	0.227	6.855	6.066	2.547
%RSD		0.184	<u>M 0.737</u>	1.023	0.800	1.338	0.229	0.048	8.378	0.128	0.533
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:53:13	465.000	469.900	464.100	491.900	87.344%	489.300	<u>M 529.800</u>	<u>M 603.400</u>	87.439%	490.900
2	08:53:16	459.600	465.200	460.300	483.500	90.926%	480.200	<u>M 523.000</u>	<u>M 604.800</u>	89.300%	491.400
3	08:53:20	458.600	460.600	457.500	485.900	91.544%	477.500	<u>M 526.000</u>	<u>M 604.900</u>	89.546%	491.000
X		461.100	465.300	460.600	487.100	89.938%	482.300	<u>M 526.200</u>	<u>M 604.400</u>	88.762%	491.100
σ		3.412	4.638	3.344	4.342	2.268%	6.202	<u>M 3.397</u>	<u>M 0.840</u>	1.152%	0.263
%RSD		0.740	0.997	0.726	0.891	2.521	1.286	<u>M 0.646</u>	<u>M 0.139</u>	1.298	0.053
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:53:13	469.400	-0.130	243.100	<u>M 504.800</u>	85.825%	<u>M 505.000</u>	<u>M 528.000</u>	<u>M 514.300</u>	92.889%	0.095
2	08:53:16	469.800	-0.082	244.200	<u>M 510.600</u>	87.528%	<u>M 507.400</u>	<u>M 531.100</u>	<u>M 515.300</u>	94.864%	0.082
3	08:53:20	468.900	-0.086	243.400	<u>M 507.900</u>	87.671%	<u>M 509.500</u>	<u>M 534.800</u>	<u>M 516.300</u>	95.576%	0.086
X		469.400	-0.100	243.500	<u>M 507.800</u>	87.008%	<u>M 507.300</u>	<u>M 531.300</u>	<u>M 515.300</u>	94.443%	0.087
σ		0.494	0.027	0.559	<u>M 2.904</u>	1.027%	<u>M 2.228</u>	<u>M 3.414</u>	<u>M 1.017</u>	1.392%	0.007
%RSD		0.105	26.810	0.230	<u>M 0.572</u>	1.180	<u>M 0.439</u>	<u>M 0.642</u>	<u>M 0.197</u>	1.474	7.878
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	08:53:13	-0.013	<u>T 476.900</u>	<u>T 482.800</u>	90.968%	-0.051					
2	08:53:16	-0.006	<u>T 463.000</u>	<u>T 477.100</u>	94.048%	-0.051					
3	08:53:20	-0.026	<u>T 463.400</u>	<u>T 476.900</u>	94.180%	-0.051					
X		-0.015	<u>T 467.800</u>	<u>T 478.900</u>	93.065%	-0.051					
σ		0.010	<u>T 7.916</u>	<u>T 3.364</u>	1.818%	0.000					
%RSD		69.120	<u>T 1.692</u>	<u>T 0.703</u>	1.953	0.773					

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10/18/2019 9:00:24 AM

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	09:00:27	M 500.800	M 515.400	M 529.300	TM 46570.000	13020.000	4967.000	5698.000	553.600	493.500	T 1406000.000
2	09:00:31	M 504.800	M 520.800	M 533.000	TM 45910.000	12980.000	4983.000	5808.000	563.100	445.400	T 1393000.000
3	09:00:35	M 507.500	M 521.400	M 538.700	TM 46060.000	13070.000	5009.000	5860.000	568.900	486.800	T 1409000.000
X		M 504.400	M 519.200	M 533.700	TM 46180.000	13030.000	4986.000	5789.000	561.900	475.200	T 1403000.000
σ		M 3.398	M 3.275	M 4.725	TM 347.000	44.120	21.540	82.530	7.718	26.080	T 8758.000
%RSD		M 0.674	M 0.631	M 0.885	TM 0.751	0.339	0.432	1.426	1.374	5.488	T 0.624
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	09:00:27	14590.000	M 39240.000	86.930%	86.720%	498.900	492.500	484.600	91.570	4878.000	488.800
2	09:00:31	14660.000	M 38590.000	88.418%	87.043%	M 500.400	496.800	489.600	90.010	4915.000	493.300
3	09:00:35	14740.000	M 40240.000	87.742%	87.126%	M 501.200	M 501.900	492.800	85.560	4968.000	496.900
X		14670.000	M 39360.000	87.697%	86.963%	M 500.200	M 497.100	489.000	89.050	4921.000	493.000
σ		74.840	M 828.800	0.745%	0.215%	M 1.198	M 4.716	4.156	3.120	45.320	4.074
%RSD		0.510	M 2.106	0.850	0.247	M 0.239	M 0.949	0.850	3.503	0.921	0.826
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:27	473.600	476.200	471.400	495.200	87.938%	491.800	M 544.700	M 617.400	87.087%	M 504.200
2	09:00:31	478.300	481.700	476.000	M 503.500	89.071%	497.700	M 544.000	M 624.300	89.064%	M 504.300
3	09:00:35	478.200	483.000	476.000	499.100	90.545%	494.200	M 545.200	M 621.500	88.935%	M 509.300
X		476.700	480.300	474.500	M 499.300	89.185%	494.600	M 544.600	M 621.100	88.362%	M 505.900
σ		2.685	3.636	2.660	M 4.118	1.307%	2.937	M 0.645	M 3.487	1.106%	M 2.905
%RSD		0.563	0.757	0.561	M 0.825	1.465	0.594	M 0.118	M 0.562	1.252	M 0.574
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:27	480.300	-0.131	249.000	M 522.800	84.587%	M 522.300	M 547.900	M 535.700	91.785%	0.118
2	09:00:31	481.800	-0.099	M 250.200	M 520.700	87.261%	M 521.900	M 543.900	M 532.000	95.350%	0.083
3	09:00:35	485.300	-0.102	249.700	M 524.900	87.938%	M 521.900	M 546.000	M 531.300	96.076%	0.090
X		482.500	-0.110	M 249.600	M 522.800	86.595%	M 522.000	M 546.000	M 533.000	94.403%	0.097
σ		2.532	0.018	M 0.608	M 2.066	1.772%	M 0.245	M 1.975	M 2.359	2.297%	0.018
%RSD		0.525	16.050	M 0.244	M 0.395	2.046	M 0.047	M 0.362	M 0.443	2.433	18.830
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:00:27	-0.013	T 487.000	T 496.600	90.608%	-0.048					
2	09:00:31	-0.022	T 472.400	T 488.600	94.059%	-0.048					
3	09:00:35	-0.014	T 472.800	T 486.000	94.308%	-0.050					
X		-0.016	T 477.400	T 490.400	92.991%	-0.049					
σ		0.005	T 8.334	T 5.500	2.068%	0.001					
%RSD		30.140	T 1.746	T 1.121	2.224	2.352					

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10/18/2019 9:07:38 AM

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	09:07:42	481.400	496.500	<u>M 512.700</u>	<u>TM 44500.000</u>	12530.000	4747.000	5474.000	525.100	432.000	<u>T 1296000.000</u>
2	09:07:45	475.100	492.400	<u>M 504.400</u>	<u>TM 44130.000</u>	12620.000	4784.000	5600.000	551.900	457.300	<u>T 1296000.000</u>
3	09:07:49	478.400	496.400	<u>M 510.500</u>	<u>TM 44440.000</u>	12660.000	4835.000	5656.000	540.500	489.800	<u>T 1295000.000</u>
X		478.300	495.100	<u>M 509.200</u>	<u>TM 44360.000</u>	12600.000	4789.000	5577.000	539.100	459.700	<u>T 1295000.000</u>
σ		3.147	2.343	<u>M 4.324</u>	<u>TM 198.500</u>	65.740	44.130	93.240	13.470	29.000	<u>T 630.200</u>
%RSD		0.658	0.473	<u>M 0.849</u>	<u>TM 0.448</u>	0.522	0.922	1.672	2.499	6.308	<u>T 0.049</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	09:07:42	13960.000	<u>M 36700.000</u>	88.075%	87.073%	483.900	475.000	465.500	86.440	4716.000	475.900
2	09:07:45	14180.000	<u>M 37350.000</u>	88.400%	87.370%	486.200	478.600	469.700	85.840	4719.000	473.100
3	09:07:49	14220.000	<u>M 38360.000</u>	88.562%	88.172%	489.900	478.400	471.600	90.240	4749.000	475.400
X		14120.000	<u>M 37470.000</u>	88.346%	87.538%	486.700	477.400	468.900	87.510	4728.000	474.800
σ		138.700	<u>M 832.300</u>	0.248%	0.568%	3.047	2.011	3.124	2.386	18.200	1.490
%RSD		0.983	<u>M 2.221</u>	0.281	0.649	0.626	0.421	0.666	2.726	0.385	0.314
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:07:42	457.300	462.700	452.800	483.500	88.752%	481.500	<u>M 525.900</u>	<u>M 596.300</u>	88.136%	483.400
2	09:07:45	457.200	463.000	456.000	488.700	91.161%	476.600	<u>M 522.900</u>	<u>M 595.500</u>	89.793%	485.300
3	09:07:49	459.900	460.900	456.900	487.400	91.685%	479.300	<u>M 524.400</u>	<u>M 594.600</u>	91.017%	485.500
X		458.100	462.200	455.200	486.600	90.532%	479.100	<u>M 524.400</u>	<u>M 595.400</u>	89.649%	484.700
σ		1.563	1.094	2.174	2.707	1.564%	2.461	<u>M 1.494</u>	<u>M 0.859</u>	1.446%	1.174
%RSD		0.341	0.237	0.477	0.556	1.727	0.514	<u>M 0.285</u>	<u>M 0.144</u>	1.613	0.242
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:07:42	461.100	-0.113	243.800	<u>M 505.100</u>	86.356%	499.200	<u>M 509.900</u>	<u>M 510.200</u>	92.619%	0.075
2	09:07:45	462.500	-0.093	245.100	<u>M 502.600</u>	88.458%	499.400	<u>M 511.000</u>	<u>M 512.200</u>	95.614%	0.090
3	09:07:49	461.300	-0.092	243.300	<u>M 504.400</u>	89.310%	<u>M 502.200</u>	<u>M 510.200</u>	<u>M 508.500</u>	96.582%	0.096
X		461.700	-0.099	244.000	<u>M 504.000</u>	88.042%	<u>M 500.200</u>	<u>M 510.400</u>	<u>M 510.300</u>	94.938%	0.087
σ		0.779	0.012	0.934	<u>M 1.290</u>	1.520%	<u>M 1.676</u>	<u>M 0.568</u>	<u>M 1.841</u>	2.066%	0.011
%RSD		0.169	11.760	0.383	<u>M 0.256</u>	1.727	<u>M 0.335</u>	<u>M 0.111</u>	<u>M 0.361</u>	2.176	12.580
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:07:42	-0.009	<u>T 468.300</u>	<u>T 474.500</u>	92.265%	-0.052					
2	09:07:45	-0.010	<u>T 457.600</u>	<u>T 469.600</u>	94.936%	-0.051					
3	09:07:49	-0.010	<u>T 453.400</u>	<u>T 467.900</u>	95.852%	-0.052					
X		-0.010	<u>T 459.700</u>	<u>T 470.700</u>	94.351%	-0.052					
σ		0.000	<u>T 7.667</u>	<u>T 3.415</u>	1.864%	0.001					
%RSD		5.047	<u>T 1.668</u>	<u>T 0.726</u>	1.975	1.269					

237886_10175_CCV6

10/18/2019 9:14:51 AM

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	09:14:55	104.200	107.000	107.300	4992.000	5091.000	4961.000	4921.000	4861.000	109.800	1531000.000
2	09:14:59	103.600	106.300	107.100	5010.000	5063.000	5031.000	4993.000	4897.000	122.800	1537000.000
3	09:15:02	105.300	106.200	107.000	5005.000	5058.000	5030.000	4942.000	4979.000	116.100	1519000.000
x		104.400	106.500	107.100	5003.000	5070.000	5007.000	4952.000	4913.000	116.200	1529000.000
σ		0.835	0.437	0.149	9.190	17.750	40.350	37.210	60.490	6.511	9193.000
%RSD		0.801	0.410	0.139	0.184	0.350	0.806	0.751	1.231	5.601	0.601
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	09:14:55	4947.000	5117.000	84.124%	83.848%	99.780	100.400	101.000	20.630	4917.000	101.800
2	09:14:59	5013.000	4794.000	85.286%	83.827%	102.200	101.500	102.200	23.680	4971.000	102.800
3	09:15:02	4971.000	4948.000	86.533%	84.670%	100.800	101.500	101.800	22.870	4919.000	102.000
x		4977.000	4953.000	85.314%	84.115%	101.000	101.100	101.700	22.390	4936.000	102.200
σ		33.440	161.500	1.205%	0.481%	1.238	0.639	0.618	1.583	30.600	0.536
%RSD		0.672	3.260	1.412	0.572	1.227	0.632	0.607	7.069	0.620	0.524
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:14:55	99.300	100.700	98.820	100.400	87.216%	100.300	108.900	102.000	84.341%	103.600
2	09:14:59	101.300	100.800	101.400	102.100	88.658%	102.200	107.700	102.000	87.348%	103.200
3	09:15:02	99.340	100.400	100.000	100.600	90.212%	101.700	107.100	102.000	87.864%	103.400
x		99.960	100.600	100.100	101.000	88.696%	101.400	107.900	102.000	86.518%	103.400
σ		1.115	0.226	1.277	0.907	1.498%	0.996	0.942	0.030	1.903%	0.205
%RSD		1.116	0.225	1.276	0.897	1.689	0.982	0.873	0.029	2.199	0.198
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:14:55	101.200	102.300	51.270	102.600	87.336%	101.700	105.600	100.200	89.647%	99.060
2	09:14:59	100.200	102.100	51.230	103.800	90.164%	101.700	106.500	99.740	92.688%	99.560
3	09:15:02	101.900	103.400	51.380	103.900	90.709%	102.200	105.900	100.700	93.169%	99.590
x		101.100	102.600	51.290	103.400	89.403%	101.900	106.000	100.200	91.835%	99.410
σ		0.854	0.731	0.078	0.698	1.811%	0.305	0.465	0.503	1.910%	0.297
%RSD		0.844	0.713	0.153	0.675	2.025	0.300	0.439	0.502	2.080	0.299
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:14:55	5.216	97.140	100.700	92.513%	102.100					
2	09:14:59	4.896	97.900	100.600	95.945%	101.200					
3	09:15:02	5.172	97.910	100.700	96.575%	101.800					
x		5.094	97.650	100.700	95.011%	101.700					
σ		0.173	0.441	0.087	2.186%	0.487					
%RSD		3.403	0.452	0.086	2.301	0.479					

237880_10175_CCB6

10/18/2019 9:22:04 AM

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	09:22:08	-0.030	-0.042	1.977	-3.402	-4.279	-7.337	-4.538	-4.100	124.700	1499000.000
2	09:22:11	-0.030	-0.052	1.849	-3.116	-5.637	-6.780	-0.694	-9.826	155.100	1495000.000
3	09:22:15	0.004	-0.014	1.842	-2.107	-5.353	-5.703	-3.593	6.367	144.600	1492000.000
x		-0.019	-0.036	1.890	-2.875	-5.090	-6.607	-2.942	-2.520	141.500	1495000.000
σ		0.020	0.020	0.076	0.681	0.716	0.831	2.003	8.211	15.450	3150.000
%RSD		105.000	54.280	4.021	23.670	14.070	12.580	68.090	325.900	10.920	0.211
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:08	-13.970	1.845	85.923%	87.895%	-0.077	-0.125	-0.153	4.694	-3.499	-0.078
2	09:22:11	-6.986	-5.206	86.876%	88.362%	-0.045	-0.086	-0.169	4.667	-3.089	-0.091
3	09:22:15	-7.123	-5.366	87.920%	89.047%	0.020	-0.088	-0.174	4.568	-3.580	-0.069
x		-9.361	-2.909	86.906%	88.435%	-0.034	-0.100	-0.166	4.643	-3.389	-0.080
σ		3.994	4.118	0.999%	0.579%	0.049	0.022	0.011	0.066	0.263	0.011
%RSD		42.670	141.500	1.149	0.655	144.300	22.060	6.521	1.423	7.761	13.730
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:08	-0.055	-0.067	-0.299	-0.203	85.445%	-0.071	0.024	-0.059	86.673%	-0.055
2	09:22:11	-0.054	-0.083	-0.311	-0.225	87.334%	-0.080	-0.069	-0.064	87.850%	-0.046
3	09:22:15	-0.055	-0.048	-0.299	-0.308	88.183%	-0.067	0.022	-0.048	88.899%	-0.055
x		-0.055	-0.066	-0.303	-0.245	86.987%	-0.073	-0.008	-0.057	87.808%	-0.052
σ		0.001	0.018	0.006	0.055	1.401%	0.006	0.053	0.008	1.114%	0.006
%RSD		1.021	26.500	2.133	22.560	1.611	8.865	691.400	14.200	1.268	10.610
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:08	-0.043	-0.118	-0.030	-0.040	86.608%	0.054	0.327	-0.035	88.171%	-0.019
2	09:22:11	-0.021	-0.103	-0.030	-0.050	88.352%	0.040	0.339	-0.038	90.236%	-0.017
3	09:22:15	-0.028	-0.072	-0.039	-0.044	89.231%	0.061	0.326	-0.026	90.571%	-0.012
x		-0.031	-0.098	-0.033	-0.045	88.064%	0.052	0.330	-0.033	89.660%	-0.016
σ		0.011	0.024	0.005	0.005	1.335%	0.011	0.007	0.006	1.300%	0.003
%RSD		36.520	24.180	15.770	10.400	1.516	20.860	2.170	18.750	1.450	21.510
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:22:08	-0.012	0.023	-0.019	89.271%	-0.043					
2	09:22:11	-0.021	0.012	-0.029	91.913%	-0.042					
3	09:22:15	-0.001	0.020	-0.026	92.044%	-0.040					
x		-0.011	0.018	-0.025	91.076%	-0.042					
σ		0.010	0.005	0.005	1.565%	0.002					
%RSD		90.370	28.960	21.700	1.718	3.645					

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10/18/2019 9:29:16 AM

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	09:29:19	1.991	0.126	87.020	8914.000	M 38840.000	48.810	4368.000	25.680	930.600	T 1411000.000
2	09:29:23	2.040	0.139	90.000	8809.000	M 38180.000	48.830	4315.000	25.410	948.800	T 1366000.000
3	09:29:27	1.983	0.132	88.280	8862.000	M 38620.000	50.040	4422.000	10.830	999.900	T 1391000.000
x		2.004	0.133	88.440	8861.000	M 38540.000	49.230	4368.000	20.640	959.800	T 1389000.000
σ		0.031	0.006	1.497	52.380	M 337.100	0.703	53.270	8.497	35.930	T 22490.000
%RSD		1.533	4.677	1.693	0.591	M 0.875	1.427	1.219	41.170	3.744	T 1.619
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	09:29:19	914.300	M 80800.000	94.768%	95.555%	1.433	0.648	0.553	7.043	165.800	16.930
2	09:29:23	909.000	M 79370.000	98.923%	95.929%	1.006	0.510	0.553	8.006	165.100	16.970
3	09:29:27	924.400	M 80110.000	98.582%	96.631%	0.860	0.676	0.585	7.538	166.500	16.790
x		915.900	M 80090.000	97.424%	96.039%	1.100	0.612	0.564	7.529	165.800	16.900
σ		7.837	M 719.300	2.307%	0.546%	0.298	0.089	0.018	0.482	0.714	0.093
%RSD		0.856	M 0.898	2.368	0.569	27.080	14.540	3.258	6.400	0.430	0.550
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:29:19	0.221	0.896	0.574	5.310	93.772%	0.922	0.505	105.300	93.127%	0.212
2	09:29:23	0.200	0.983	0.591	5.229	96.583%	0.999	0.505	105.800	96.228%	0.216
3	09:29:27	0.215	1.006	0.627	4.941	97.367%	0.790	0.471	106.200	96.831%	0.210
x		0.212	0.962	0.597	5.160	95.907%	0.904	0.494	105.800	95.395%	0.213
σ		0.011	0.058	0.027	0.194	1.890%	0.106	0.019	0.437	1.988%	0.003
%RSD		5.147	6.024	4.484	3.759	1.971	11.670	3.917	0.413	2.084	1.390
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:29:19	1.096	-0.064	0.040	0.126	92.464%	0.381	0.649	65.920	93.387%	0.111
2	09:29:23	1.126	-0.094	0.032	0.156	96.219%	0.377	0.700	66.330	96.669%	0.109
3	09:29:27	1.095	-0.085	0.038	0.112	96.817%	0.420	0.637	66.150	97.964%	0.108
x		1.106	-0.081	0.037	0.132	95.167%	0.393	0.662	66.130	96.007%	0.109
σ		0.018	0.015	0.004	0.022	2.360%	0.024	0.033	0.203	2.359%	0.002
%RSD		1.594	19.070	12.150	16.980	2.480	6.098	5.018	0.308	2.457	1.466
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:29:19	-0.017	0.159	0.452	89.012%	1.196					
2	09:29:23	0.007	0.156	0.446	91.977%	1.200					
3	09:29:27	-0.013	0.157	0.451	92.788%	1.207					
x		-0.008	0.158	0.450	91.259%	1.201					
σ		0.013	0.002	0.003	1.988%	0.005					
%RSD		169.200	0.953	0.681	2.178	0.437					

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10/18/2019 9:36:29 AM

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	09:36:33	0.310	-0.079	20.180	1805.000	7961.000	7.124	861.500	4.589	313.700	1493000.000
2	09:36:36	0.307	-0.075	19.640	1782.000	7886.000	6.506	874.500	-4.704	311.400	1462000.000
3	09:36:40	0.316	-0.079	19.570	1804.000	7959.000	4.472	861.900	1.372	311.200	1473000.000
x		0.311	-0.078	19.800	1797.000	7935.000	6.034	866.000	0.419	312.100	1476000.000
σ		0.005	0.003	0.336	13.100	42.500	1.388	7.376	4.719	1.360	15610.000
%RSD		1.543	3.287	1.696	0.729	0.535	23.000	0.852	1126.000	0.436	1.058
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	09:36:33	168.200	16000.000	92.754%	96.055%	1.218	0.069	-0.111	8.220	26.770	3.433
2	09:36:36	169.600	15770.000	95.877%	96.690%	0.124	0.105	-0.078	7.808	29.080	3.367
3	09:36:40	177.300	16030.000	95.163%	97.316%	0.343	0.206	-0.102	7.595	28.260	3.383
x		171.700	15930.000	94.598%	96.687%	0.561	0.127	-0.097	7.874	28.040	3.394
σ		4.938	142.100	1.636%	0.631%	0.579	0.071	0.017	0.318	1.175	0.034
%RSD		2.876	0.892	1.730	0.652	103.100	56.010	17.540	4.039	4.190	1.008
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:36:33	-0.060	0.040	-0.117	2.504	92.784%	0.092	-0.086	20.870	91.577%	-0.042
2	09:36:36	-0.060	0.051	-0.104	2.243	95.343%	0.089	0.034	21.030	93.518%	-0.035
3	09:36:40	-0.057	0.079	-0.115	2.130	97.343%	0.084	-0.138	21.020	94.317%	-0.054
x		-0.059	0.057	-0.112	2.292	95.156%	0.088	-0.064	20.970	93.137%	-0.044
σ		0.001	0.020	0.007	0.192	2.285%	0.004	0.088	0.091	1.409%	0.010
%RSD		2.301	35.670	6.377	8.373	2.401	4.693	139.200	0.433	1.513	21.750
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:36:33	0.125	-0.096	-0.039	-0.061	91.686%	0.073	0.203	13.030	91.531%	-0.002
2	09:36:36	0.142	-0.102	-0.055	-0.064	94.054%	0.047	0.222	12.980	93.715%	0.021
3	09:36:40	0.143	-0.131	-0.047	-0.062	94.782%	0.042	0.250	13.260	94.535%	0.012
x		0.137	-0.110	-0.047	-0.062	93.507%	0.054	0.225	13.090	93.260%	0.010
σ		0.010	0.019	0.008	0.002	1.619%	0.017	0.024	0.149	1.552%	0.012
%RSD		7.111	17.240	16.960	2.577	1.731	31.290	10.620	1.135	1.664	114.400
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:36:33	-0.021	-0.051	0.013	91.495%	0.178					
2	09:36:36	-0.025	-0.053	0.014	93.654%	0.184					
3	09:36:40	-0.018	-0.057	0.007	94.121%	0.171					
x		-0.021	-0.054	0.011	93.090%	0.178					
σ		0.004	0.003	0.004	1.401%	0.007					
%RSD		18.650	5.578	32.260	1.505	3.688					

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10/18/2019 9:43:44 AM

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	09:43:47	1.216	-0.050	21.040	12350.000	3170.000	12.570	551.800	215.700	242.500	1470000.000
2	09:43:51	1.337	-0.087	20.990	12190.000	3092.000	12.710	554.200	219.700	253.100	1442000.000
3	09:43:54	1.211	-0.082	21.810	12290.000	3165.000	13.580	565.700	190.200	264.700	1441000.000
x		1.255	-0.073	21.280	12280.000	3142.000	12.950	557.200	208.500	253.400	1451000.000
σ		0.071	0.020	0.458	79.130	43.410	0.545	7.444	16.010	11.130	16390.000
%RSD		5.684	27.370	2.152	0.644	1.382	4.212	1.336	7.676	4.391	1.130
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	09:43:47	1008.000	7717.000	90.923%	92.807%	0.224	0.106	0.437	7.473	352.800	6.090
2	09:43:51	1015.000	7613.000	93.329%	93.095%	0.243	0.135	0.494	7.520	350.800	6.130
3	09:43:54	1024.000	7754.000	92.996%	92.885%	0.532	0.012	0.446	7.604	356.800	6.070
x		1016.000	7695.000	92.416%	92.929%	0.333	0.084	0.459	7.532	353.500	6.097
σ		8.001	73.050	1.303%	0.149%	0.173	0.064	0.031	0.066	3.071	0.030
%RSD		0.788	0.949	1.410	0.161	51.910	76.120	6.757	0.878	0.869	0.500
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:43:47	-0.012	0.456	2.285	5.239	90.877%	-0.009	-0.025	34.050	89.088%	0.237
2	09:43:51	-0.020	0.410	2.278	5.573	94.798%	0.032	-0.164	33.830	91.619%	0.246
3	09:43:54	-0.021	0.451	2.281	5.580	94.467%	0.038	0.017	33.760	91.993%	0.203
x		-0.018	0.439	2.281	5.464	93.380%	0.020	-0.057	33.880	90.900%	0.229
σ		0.005	0.025	0.004	0.195	2.175%	0.026	0.095	0.151	1.580%	0.023
%RSD		28.510	5.723	0.157	3.564	2.329	127.600	165.800	0.447	1.738	10.040
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:43:47	0.547	-0.113	-0.016	-0.059	90.815%	0.166	0.311	8.946	90.347%	-0.007
2	09:43:51	0.600	-0.108	-0.020	-0.064	93.075%	0.152	0.341	9.330	92.635%	-0.016
3	09:43:54	0.527	-0.124	-0.016	-0.062	94.335%	0.142	0.316	9.090	93.786%	-0.007
x		0.558	-0.115	-0.017	-0.062	92.742%	0.153	0.322	9.122	92.256%	-0.010
σ		0.038	0.008	0.003	0.003	1.784%	0.012	0.016	0.194	1.750%	0.005
%RSD		6.796	7.165	15.200	4.667	1.923	8.068	4.983	2.127	1.897	53.230
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:43:47	-0.009	-0.057	0.065	90.548%	0.016					
2	09:43:51	-0.026	-0.062	0.059	93.454%	0.020					
3	09:43:54	-0.018	-0.065	0.068	93.989%	0.019					
x		-0.017	-0.061	0.064	92.664%	0.018					
σ		0.008	0.004	0.005	1.852%	0.002					
%RSD		49.200	6.880	7.221	1.998	9.781					

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10/18/2019 9:50:58 AM

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	09:51:02	54.460	53.610	72.880	13040.000	3719.000	532.800	823.300	297.400	237.400	<u>1459000.000</u>
2	09:51:06	54.310	53.870	71.500	12870.000	3612.000	527.200	827.900	219.300	255.600	<u>1406000.000</u>
3	09:51:09	54.230	54.570	71.200	12840.000	3665.000	519.600	822.800	230.000	234.100	<u>1429000.000</u>
x		54.330	54.020	71.860	12920.000	3665.000	526.500	824.700	248.900	242.400	<u>1431000.000</u>
σ		0.119	0.496	0.897	106.200	53.430	6.650	2.777	42.320	11.570	<u>26640.000</u>
%RSD		0.219	0.918	1.249	0.822	1.458	1.263	0.337	17.000	4.774	<u>1.862</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	09:51:02	1559.000	8703.000	87.656%	89.449%	53.640	49.930	49.860	15.310	851.800	55.840
2	09:51:06	1511.000	8367.000	90.357%	90.033%	49.710	49.200	49.600	12.920	850.000	54.990
3	09:51:09	1537.000	8151.000	90.511%	90.561%	50.890	50.140	49.800	12.040	842.900	55.770
x		1536.000	8407.000	89.508%	90.014%	51.410	49.760	49.750	13.420	848.200	55.530
σ		23.690	278.100	1.606%	0.557%	2.015	0.490	0.137	1.691	4.709	0.472
%RSD		1.542	3.308	1.794	0.618	3.918	0.985	0.276	12.590	0.555	0.851
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:51:02	48.970	49.170	51.190	56.010	88.794%	48.920	52.570	83.490	87.742%	43.600
2	09:51:06	47.610	48.660	50.720	54.130	93.689%	47.700	53.910	82.970	89.873%	43.400
3	09:51:09	48.510	48.360	51.110	54.660	91.649%	47.660	52.090	84.200	90.304%	42.940
x		48.360	48.730	51.010	54.930	91.377%	48.090	52.860	83.560	89.306%	43.310
σ		0.695	0.409	0.254	0.970	2.459%	0.718	0.946	0.618	1.372%	0.337
%RSD		1.437	0.839	0.498	1.766	2.691	1.492	1.790	0.739	1.536	0.777
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:51:02	46.220	-0.098	24.840	49.870	88.737%	50.140	52.330	57.200	90.058%	-0.009
2	09:51:06	46.580	-0.114	25.040	50.210	91.737%	50.370	52.360	57.120	92.656%	-0.000
3	09:51:09	46.830	-0.100	24.780	49.770	92.076%	49.940	52.460	57.370	93.216%	-0.015
x		46.540	-0.104	24.890	49.950	90.850%	50.150	52.380	57.230	91.977%	-0.008
σ		0.305	0.009	0.135	0.230	1.838%	0.216	0.066	0.128	1.685%	0.008
%RSD		0.656	8.524	0.541	0.460	2.023	0.431	0.126	0.224	1.832	92.950
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:51:02	-0.029	46.700	48.830	90.449%	0.024					
2	09:51:06	-0.030	46.530	48.780	93.218%	0.018					
3	09:51:09	-0.022	46.800	48.900	93.576%	0.020					
x		-0.027	46.680	48.840	92.414%	0.020					
σ		0.005	0.140	0.063	1.711%	0.003					
%RSD		17.220	0.300	0.129	1.852	15.680					

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10/18/2019 9:58:13 AM

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	09:58:16	54.660	54.680	72.420	12660.000	3615.000	526.400	814.000	260.800	242.200	1441000.000
2	09:58:20	54.850	55.220	71.330	12730.000	3658.000	525.300	805.500	253.000	258.100	1426000.000
3	09:58:24	54.950	54.880	74.290	12780.000	3634.000	522.400	842.200	236.600	227.000	1434000.000
x		54.820	54.930	72.680	12720.000	3636.000	524.700	820.500	250.100	242.400	1434000.000
σ		0.149	0.278	1.502	57.990	21.610	2.069	19.190	12.320	15.520	7493.000
%RSD		0.271	0.505	2.066	0.456	0.594	0.394	2.339	4.927	6.402	0.522
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	09:58:16	1495.000	8066.000	87.694%	88.362%	52.760	49.720	49.810	14.730	834.800	55.290
2	09:58:20	1518.000	7867.000	88.748%	88.933%	50.910	50.110	49.660	12.530	841.800	55.350
3	09:58:24	1520.000	8291.000	88.716%	89.576%	48.590	50.200	50.090	12.430	847.700	55.870
x		1511.000	8075.000	88.386%	88.957%	50.750	50.010	49.850	13.230	841.500	55.500
σ		13.590	212.400	0.600%	0.607%	2.094	0.254	0.215	1.299	6.474	0.321
%RSD		0.900	2.631	0.678	0.682	4.126	0.508	0.432	9.820	0.769	0.578
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:58:16	48.290	48.810	50.380	55.450	87.599%	48.360	52.590	83.750	85.506%	44.570
2	09:58:20	48.340	49.170	50.230	53.770	90.601%	48.600	54.530	83.240	88.732%	43.940
3	09:58:24	48.340	48.500	50.720	54.700	91.282%	48.400	54.450	83.610	89.054%	44.910
x		48.320	48.830	50.440	54.640	89.828%	48.450	53.860	83.530	87.764%	44.470
σ		0.029	0.335	0.248	0.842	1.960%	0.128	1.097	0.263	1.962%	0.492
%RSD		0.060	0.685	0.492	1.541	2.181	0.263	2.037	0.315	2.236	1.106
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:58:16	47.340	-0.112	25.050	49.960	87.101%	50.160	52.600	57.330	89.334%	-0.007
2	09:58:20	46.240	-0.117	25.130	50.530	90.255%	50.420	52.570	57.440	92.021%	-0.001
3	09:58:24	46.780	-0.137	25.190	49.690	90.817%	50.920	52.870	57.240	93.128%	-0.019
x		46.790	-0.122	25.130	50.060	89.391%	50.500	52.680	57.340	91.495%	-0.009
σ		0.553	0.013	0.070	0.429	2.003%	0.382	0.162	0.101	1.951%	0.010
%RSD		1.182	10.790	0.280	0.857	2.241	0.756	0.308	0.176	2.132	106.200
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	09:58:16	-0.008	46.790	48.730	89.926%	0.024					
2	09:58:20	-0.030	46.730	48.940	93.244%	0.015					
3	09:58:24	-0.002	46.540	48.830	94.186%	0.024					
x		-0.013	46.690	48.830	92.452%	0.021					
σ		0.015	0.129	0.103	2.238%	0.005					
%RSD		110.500	0.276	0.211	2.421	24.470					

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10/18/2019 10:05:27 AM

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	10:05:31	497.900	<u>M 519.300</u>	<u>M 515.500</u>	<u>T 17310.000</u>	7900.000	4781.000	2912.000	660.400	239.000	<u>T 1357000.000</u>
2	10:05:35	496.000	<u>M 514.400</u>	<u>M 513.900</u>	16570.000	7908.000	4830.000	2975.000	716.300	237.200	<u>T 1340000.000</u>
3	10:05:38	495.700	<u>M 512.300</u>	<u>M 512.700</u>	16250.000	7671.000	4717.000	2904.000	678.100	230.600	<u>T 1324000.000</u>
X		496.500	<u>M 515.300</u>	<u>M 514.000</u>	<u>T 16710.000</u>	7826.000	4776.000	2930.000	685.000	235.600	<u>T 1340000.000</u>
σ		1.223	<u>M 3.583</u>	<u>M 1.376</u>	<u>T 544.700</u>	134.600	56.670	39.170	28.570	4.400	<u>T 16790.000</u>
%RSD		0.246	<u>M 0.695</u>	<u>M 0.268</u>	<u>T 3.259</u>	1.720	1.187	1.337	4.171	1.868	<u>T 1.253</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	10:05:31	5730.000	12440.000	83.879%	83.258%	471.800	467.700	468.100	89.670	5063.000	477.000
2	10:05:35	5745.000	12470.000	85.519%	83.980%	477.400	471.300	467.800	82.770	5078.000	480.100
3	10:05:38	5695.000	12260.000	87.126%	84.564%	472.200	466.100	463.000	87.610	5011.000	471.300
X		5724.000	12390.000	85.508%	83.934%	473.800	468.400	466.300	86.690	5051.000	476.200
σ		25.560	113.700	1.624%	0.654%	3.113	2.664	2.882	3.541	34.810	4.474
%RSD		0.447	0.918	1.899	0.779	0.657	0.569	0.618	4.085	0.689	0.940
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:05:31	455.200	464.300	459.200	485.500	85.457%	465.300	<u>M 517.700</u>	497.400	84.768%	480.000
2	10:05:35	458.900	460.800	461.900	487.500	87.238%	466.500	<u>M 520.600</u>	498.000	86.751%	478.900
3	10:05:38	453.600	461.800	463.300	489.800	87.193%	471.200	<u>M 524.400</u>	498.000	87.190%	480.900
X		455.900	462.300	461.500	487.600	86.629%	467.700	<u>M 520.900</u>	497.800	86.236%	479.900
σ		2.742	1.790	2.067	2.163	1.016%	3.132	<u>M 3.355</u>	0.363	1.290%	0.998
%RSD		0.601	0.387	0.448	0.444	1.172	0.670	<u>M 0.644</u>	0.073	1.496	0.208
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:05:31	445.400	-0.105	244.600	498.300	83.749%	491.300	<u>M 504.500</u>	478.600	89.971%	-0.010
2	10:05:35	444.100	-0.082	246.800	499.500	85.905%	494.300	<u>M 503.800</u>	479.600	92.630%	-0.022
3	10:05:38	444.800	-0.132	245.600	<u>M 502.700</u>	86.060%	495.000	<u>M 506.500</u>	481.500	92.343%	-0.009
X		444.700	-0.106	245.600	<u>M 500.200</u>	85.238%	493.500	<u>M 504.900</u>	479.900	91.648%	-0.013
σ		0.648	0.025	1.084	<u>M 2.299</u>	1.292%	1.963	<u>M 1.435</u>	1.475	1.460%	0.007
%RSD		0.146	23.610	0.441	<u>M 0.460</u>	1.516	0.398	<u>M 0.284</u>	0.307	1.593	53.850
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:05:31	-0.013	<u>T 464.000</u>	<u>T 470.500</u>	91.505%	0.020					
2	10:05:35	-0.014	<u>T 452.100</u>	<u>T 464.400</u>	94.320%	0.018					
3	10:05:38	-0.022	<u>T 449.600</u>	<u>T 462.700</u>	94.824%	0.022					
X		-0.016	<u>T 455.200</u>	<u>T 465.900</u>	93.550%	0.020					
σ		0.005	<u>T 7.701</u>	<u>T 4.107</u>	1.789%	0.002					
%RSD		30.170	<u>T 1.692</u>	<u>T 0.882</u>	1.912	10.820					

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10/18/2019 10:12:40 AM

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	10:12:44	12.960	0.272	193.600	<u>TM 132400.000</u>	<u>M 30400.000</u>	267.100	5660.000	2357.000	1268.000	<u>T 1362000.000</u>
2	10:12:48	13.040	0.288	194.200	<u>TM 129800.000</u>	<u>M 30100.000</u>	263.500	5631.000	2308.000	1248.000	<u>T 1329000.000</u>
3	10:12:51	12.860	0.259	190.500	<u>TM 129800.000</u>	<u>M 29960.000</u>	261.900	5517.000	2270.000	1259.000	<u>T 1340000.000</u>
x		12.950	0.273	192.700	<u>TM 130600.000</u>	<u>M 30150.000</u>	264.200	5603.000	2311.000	1258.000	<u>T 1344000.000</u>
σ		0.092	0.015	1.975	<u>TM 1501.000</u>	<u>M 221.800</u>	2.654	75.600	43.430	9.716	<u>T 16660.000</u>
%RSD		0.708	5.474	1.025	<u>TM 1.149</u>	<u>M 0.736</u>	1.005	1.349	1.879	0.772	<u>T 1.239</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	10:12:44	10390.000	<u>M 79980.000</u>	86.555%	90.269%	9.688	1.224	6.790	6.868	3598.000	62.510
2	10:12:48	10360.000	<u>M 78900.000</u>	88.698%	89.776%	7.551	1.402	6.935	6.465	3592.000	61.940
3	10:12:51	10400.000	<u>M 79130.000</u>	89.002%	90.118%	7.820	1.426	6.962	6.259	3574.000	61.840
x		10380.000	<u>M 79340.000</u>	88.085%	90.054%	8.353	1.351	6.896	6.531	3588.000	62.100
σ		20.820	<u>M 572.500</u>	1.334%	0.253%	1.164	0.110	0.093	0.310	12.340	0.358
%RSD		0.201	<u>M 0.722</u>	1.514	0.281	13.940	8.159	1.347	4.747	0.344	0.577
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:44	0.608	5.056	24.280	46.500	85.553%	1.079	1.163	339.300	86.148%	3.240
2	10:12:48	0.748	5.417	24.650	46.080	87.230%	1.241	1.319	339.500	88.284%	3.160
3	10:12:51	0.707	5.342	24.690	46.630	88.294%	1.135	1.349	339.400	88.402%	3.140
x		0.688	5.271	24.540	46.400	87.026%	1.152	1.277	339.400	87.612%	3.180
σ		0.072	0.191	0.226	0.285	1.382%	0.082	0.100	0.087	1.269%	0.053
%RSD		10.490	3.616	0.921	0.615	1.588	7.154	7.810	0.025	1.448	1.678
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:12:44	6.241	-0.091	0.319	0.123	86.605%	2.065	2.967	92.310	89.297%	0.033
2	10:12:48	6.295	-0.092	0.351	0.209	89.038%	2.022	3.066	92.530	91.733%	0.049
3	10:12:51	6.488	-0.107	0.389	0.234	89.513%	2.026	3.058	93.850	91.765%	0.044
x		6.341	-0.097	0.353	0.189	88.385%	2.038	3.030	92.900	90.932%	0.042
σ		0.130	0.009	0.035	0.059	1.560%	0.024	0.055	0.834	1.416%	0.008
%RSD		2.047	9.515	10.000	31.040	1.765	1.162	1.824	0.898	1.557	19.240
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:12:44	0.022	0.117	1.243	85.871%	0.801					
2	10:12:48	0.013	0.210	1.334	87.915%	0.793					
3	10:12:51	0.012	0.271	1.372	88.322%	0.795					
x		0.016	0.199	1.316	87.370%	0.796					
σ		0.006	0.077	0.066	1.314%	0.004					
%RSD		36.370	38.760	5.017	1.504	0.527					

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10/18/2019 10:19:55 AM

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	10:19:59	M 518.800	M 516.400	M 682.600	TM 134500.000	M 35620.000	5298.000	8205.000	2586.000	1304.000	T 1247000.000
2	10:20:02	M 518.700	M 517.900	M 688.500	TM 131000.000	M 35260.000	5185.000	8135.000	2613.000	1238.000	T 1238000.000
3	10:20:06	M 515.600	M 514.300	M 681.900	TM 131800.000	M 35520.000	5217.000	8137.000	2586.000	1215.000	T 1223000.000
X		M 517.700	M 516.200	M 684.300	TM 132400.000	M 35470.000	5233.000	8159.000	2595.000	1253.000	T 1236000.000
σ		M 1.838	M 1.819	M 3.614	TM 1852.000	M 187.900	58.530	40.060	15.730	46.370	T 11760.000
%RSD		M 0.355	M 0.352	M 0.528	TM 1.398	M 0.530	1.118	0.491	0.606	3.702	T 0.951
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	10:19:59	15480.000	M 85070.000	85.825%	88.009%	M 504.000	M 508.600	M 503.600	91.050	8535.000	M 557.800
2	10:20:02	15570.000	M 84240.000	87.479%	88.141%	M 518.700	M 506.800	M 502.000	103.000	8522.000	M 561.700
3	10:20:06	15510.000	M 85430.000	87.540%	88.442%	M 514.600	M 514.900	M 506.000	87.640	8542.000	M 562.000
X		15520.000	M 84910.000	86.948%	88.197%	M 512.400	M 510.100	M 503.900	93.880	8533.000	M 560.500
σ		43.380	M 609.700	0.973%	0.222%	M 7.608	M 4.262	M 1.997	8.045	10.300	M 2.347
%RSD		0.280	M 0.718	1.119	0.252	M 1.485	M 0.836	M 0.396	8.570	0.121	M 0.419
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:19:59	482.800	488.200	M 503.400	M 551.200	84.118%	M 509.100	M 556.000	M 831.100	86.708%	433.200
2	10:20:02	481.200	480.600	498.000	M 548.900	87.893%	M 507.100	M 551.700	M 832.700	88.368%	434.400
3	10:20:06	486.000	489.100	M 505.800	M 554.700	87.024%	M 509.300	M 554.200	M 826.000	89.197%	432.600
X		483.300	486.000	M 502.400	M 551.600	86.345%	M 508.500	M 554.000	M 829.900	88.091%	433.400
σ		2.468	4.707	M 4.022	M 2.956	1.977%	M 1.192	M 2.141	M 3.485	1.267%	0.924
%RSD		0.511	0.969	M 0.800	M 0.536	2.289	M 0.234	M 0.386	M 0.420	1.439	0.213
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:19:59	485.400	-0.083	246.000	M 526.900	83.228%	M 536.700	M 555.800	M 605.200	92.495%	0.052
2	10:20:02	487.800	-0.076	246.100	M 526.000	85.547%	M 534.900	M 557.300	M 603.200	94.838%	0.048
3	10:20:06	486.900	-0.091	246.600	M 527.500	86.558%	M 534.700	M 552.200	M 601.600	95.654%	0.051
X		486.700	-0.083	246.200	M 526.800	85.111%	M 535.400	M 555.100	M 603.300	94.329%	0.050
σ		1.201	0.008	0.358	M 0.759	1.707%	M 1.120	M 2.639	M 1.802	1.640%	0.002
%RSD		0.247	9.285	0.145	M 0.144	2.006	M 0.209	M 0.475	M 0.299	1.739	4.533
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:19:59	0.025	T 490.400	TM 505.900	88.365%	0.806					
2	10:20:02	-0.014	T 472.800	T 496.800	91.384%	0.830					
3	10:20:06	0.019	T 474.500	T 496.900	92.032%	0.820					
X		0.010	T 479.200	TM 499.900	90.594%	0.818					
σ		0.021	T 9.727	TM 5.234	1.957%	0.012					
%RSD		208.300	T 2.030	TM 1.047	2.160	1.489					

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10/18/2019 10:27:09 AM

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	10:27:13	<u>M 513.000</u>	<u>M 513.300</u>	<u>M 680.500</u>	<u>TM 129500.000</u>	<u>M 34740.000</u>	5127.000	7914.000	2572.000	1235.000	<u>T 1379000.000</u>
2	10:27:16	<u>M 510.000</u>	<u>M 512.900</u>	<u>M 675.400</u>	<u>TM 129300.000</u>	<u>M 35010.000</u>	5167.000	8056.000	2585.000	1243.000	<u>T 1380000.000</u>
3	10:27:20	<u>M 506.900</u>	<u>M 510.600</u>	<u>M 671.100</u>	<u>TM 126900.000</u>	<u>M 34270.000</u>	5102.000	7969.000	2571.000	1210.000	<u>T 1348000.000</u>
X		<u>M 510.000</u>	<u>M 512.300</u>	<u>M 675.700</u>	<u>TM 128600.000</u>	<u>M 34670.000</u>	5132.000	7980.000	2576.000	1229.000	<u>T 1369000.000</u>
σ		<u>M 3.079</u>	<u>M 1.437</u>	<u>M 4.738</u>	<u>TM 1436.000</u>	<u>M 373.400</u>	32.790	71.790	7.647	16.840	<u>T 18350.000</u>
%RSD		<u>M 0.604</u>	<u>M 0.281</u>	<u>M 0.701</u>	<u>TM 1.117</u>	<u>M 1.077</u>	0.639	0.900	0.297	1.370	<u>T 1.341</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	10:27:13	15300.000	<u>M 83540.000</u>	85.156%	86.366%	<u>M 512.200</u>	<u>M 503.600</u>	496.900	93.440	8424.000	<u>M 552.600</u>
2	10:27:16	15430.000	<u>M 85690.000</u>	86.207%	87.544%	<u>M 521.900</u>	<u>M 506.500</u>	<u>M 500.100</u>	99.090	8477.000	<u>M 557.800</u>
3	10:27:20	15150.000	<u>M 83700.000</u>	87.883%	87.383%	<u>M 514.000</u>	<u>M 503.500</u>	494.700	87.900	8307.000	<u>M 548.200</u>
X		15290.000	<u>M 84310.000</u>	86.415%	87.097%	<u>M 516.000</u>	<u>M 504.500</u>	<u>M 497.200</u>	93.480	8402.000	<u>M 552.900</u>
σ		143.600	<u>M 1199.000</u>	1.376%	0.639%	<u>M 5.151</u>	<u>M 1.712</u>	<u>M 2.747</u>	5.595	87.170	<u>M 4.818</u>
%RSD		0.939	<u>M 1.422</u>	1.592	0.733	<u>M 0.998</u>	<u>M 0.339</u>	<u>M 0.552</u>	5.985	1.037	<u>M 0.872</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:27:13	481.000	481.200	494.500	<u>M 545.300</u>	83.935%	<u>M 502.500</u>	<u>M 546.000</u>	<u>M 827.600</u>	84.889%	442.600
2	10:27:16	483.200	480.000	496.900	<u>M 546.400</u>	85.729%	<u>M 505.800</u>	<u>M 549.800</u>	<u>M 834.100</u>	87.017%	444.000
3	10:27:20	476.100	475.300	492.200	<u>M 543.600</u>	87.007%	<u>M 502.400</u>	<u>M 543.700</u>	<u>M 832.600</u>	86.841%	<u>T 442.400</u>
X		480.100	478.800	494.500	<u>M 545.100</u>	85.557%	<u>M 503.600</u>	<u>M 546.500</u>	<u>M 831.500</u>	86.249%	<u>T 443.000</u>
σ		3.634	3.087	2.360	<u>M 1.427</u>	1.543%	<u>M 1.945</u>	<u>M 3.092</u>	<u>M 3.404</u>	1.181%	<u>T 0.893</u>
%RSD		0.757	0.645	0.477	<u>M 0.262</u>	1.804	<u>M 0.386</u>	<u>M 0.566</u>	<u>M 0.409</u>	1.369	<u>T 0.202</u>
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:27:13	488.700	-0.088	245.700	<u>M 521.700</u>	82.335%	<u>M 530.700</u>	<u>M 553.700</u>	<u>M 597.900</u>	91.313%	0.029
2	10:27:16	491.500	-0.109	247.900	<u>M 526.100</u>	84.101%	<u>M 537.700</u>	<u>M 557.300</u>	<u>M 604.900</u>	93.629%	0.039
3	10:27:20	490.200	-0.088	247.800	<u>M 528.800</u>	84.907%	<u>M 536.600</u>	<u>M 554.600</u>	<u>M 604.100</u>	94.327%	0.026
X		490.100	-0.095	247.100	<u>M 525.600</u>	83.781%	<u>M 535.000</u>	<u>M 555.200</u>	<u>M 602.300</u>	93.090%	0.032
σ		1.424	0.012	1.263	<u>M 3.570</u>	1.315%	<u>M 3.759</u>	<u>M 1.861</u>	<u>M 3.847</u>	1.578%	0.007
%RSD		0.290	12.900	0.511	<u>M 0.679</u>	1.570	<u>M 0.703</u>	<u>M 0.335</u>	<u>M 0.639</u>	1.695	21.490
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:27:13	0.012	<u>T 483.800</u>	<u>TM 501.200</u>	87.752%	0.801					
2	10:27:16	-0.001	<u>T 470.600</u>	<u>T 494.000</u>	90.394%	0.828					
3	10:27:20	-0.006	<u>T 470.300</u>	<u>T 494.100</u>	90.431%	0.809					
X		0.002	<u>T 474.900</u>	<u>TM 496.400</u>	89.526%	0.812					
σ		0.009	<u>T 7.700</u>	<u>TM 4.139</u>	1.536%	0.014					
%RSD		523.400	<u>T 1.621</u>	<u>TM 0.834</u>	1.716	1.696					

1960255_10158

10/18/2019 10:34:24 AM

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	10:34:27	496.400	<u>M 500.400</u>	<u>M 676.500</u>	<u>TM 129500.000</u>	<u>M 34210.000</u>	5049.000	7897.000	2699.000	1216.000	<u>T 1255000.000</u>
2	10:34:31	494.000	498.200	<u>M 675.100</u>	<u>TM 128200.000</u>	<u>M 34460.000</u>	5075.000	7918.000	2847.000	1239.000	<u>T 1244000.000</u>
3	10:34:35	493.300	499.300	<u>M 665.500</u>	<u>TM 126000.000</u>	<u>M 33890.000</u>	5015.000	7820.000	2715.000	1182.000	<u>T 1225000.000</u>
X		494.600	<u>M 499.300</u>	<u>M 672.400</u>	<u>TM 127900.000</u>	<u>M 34190.000</u>	5046.000	7878.000	2754.000	1212.000	<u>T 1241000.000</u>
σ		1.617	<u>M 1.141</u>	<u>M 5.964</u>	<u>TM 1726.000</u>	<u>M 287.800</u>	30.140	51.770	80.900	28.710	<u>T 15120.000</u>
%RSD		0.327	<u>M 0.229</u>	<u>M 0.887</u>	<u>TM 1.350</u>	<u>M 0.842</u>	0.597	0.657	2.938	2.369	<u>T 1.218</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	10:34:27	15030.000	<u>M 82370.000</u>	85.578%	87.420%	<u>M 509.300</u>	495.800	489.700	95.030	8307.000	<u>M 542.300</u>
2	10:34:31	15070.000	<u>M 82870.000</u>	87.313%	87.482%	<u>M 503.000</u>	491.700	485.400	99.640	8310.000	<u>M 542.700</u>
3	10:34:35	14960.000	<u>M 82690.000</u>	88.620%	87.817%	<u>M 511.400</u>	492.700	484.400	91.200	8283.000	<u>M 540.400</u>
X		15020.000	<u>M 82640.000</u>	87.170%	87.573%	<u>M 507.900</u>	493.400	486.500	95.290	8300.000	<u>M 541.800</u>
σ		56.510	<u>M 253.900</u>	1.526%	0.214%	<u>M 4.395</u>	2.134	2.800	4.222	15.070	<u>M 1.215</u>
%RSD		0.376	<u>M 0.307</u>	1.751	0.244	<u>M 0.865</u>	0.433	0.576	4.430	0.182	<u>M 0.224</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:34:27	468.200	469.200	483.900	<u>M 537.700</u>	85.186%	492.000	<u>M 539.100</u>	<u>M 809.500</u>	85.585%	<u>M 508.800</u>
2	10:34:31	470.100	472.100	483.500	<u>M 533.100</u>	87.506%	494.300	<u>M 531.900</u>	<u>M 809.100</u>	88.116%	<u>M 507.600</u>
3	10:34:35	468.300	471.100	484.700	<u>M 540.100</u>	88.065%	497.500	<u>M 543.600</u>	<u>M 814.500</u>	88.500%	<u>M 511.200</u>
X		468.900	470.800	484.000	<u>M 536.900</u>	86.919%	494.600	<u>M 538.200</u>	<u>M 811.000</u>	87.400%	<u>M 509.200</u>
σ		1.077	1.484	0.624	<u>M 3.551</u>	1.527%	2.794	<u>M 5.872</u>	<u>M 3.037</u>	1.584%	<u>M 1.842</u>
%RSD		0.230	0.315	0.129	<u>M 0.661</u>	1.756	0.565	<u>M 1.091</u>	<u>M 0.374</u>	1.812	<u>M 0.362</u>
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:34:27	484.800	-0.102	214.600	<u>M 514.000</u>	83.017%	<u>M 527.600</u>	<u>M 548.600</u>	<u>M 589.800</u>	92.505%	0.040
2	10:34:31	480.800	-0.081	213.700	<u>M 513.900</u>	85.902%	<u>M 526.200</u>	<u>M 544.500</u>	<u>M 589.200</u>	94.889%	0.045
3	10:34:35	485.000	-0.042	215.600	<u>M 516.300</u>	85.738%	<u>M 530.600</u>	<u>M 549.300</u>	<u>M 587.500</u>	95.497%	0.051
X		483.500	-0.075	214.600	<u>M 514.700</u>	84.886%	<u>M 528.100</u>	<u>M 547.500</u>	<u>M 588.800</u>	94.297%	0.045
σ		2.372	0.031	0.914	<u>M 1.386</u>	1.620%	<u>M 2.245</u>	<u>M 2.620</u>	<u>M 1.217</u>	1.582%	0.006
%RSD		0.490	40.690	0.426	<u>M 0.269</u>	1.909	<u>M 0.425</u>	<u>M 0.478</u>	<u>M 0.207</u>	1.678	12.250
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:34:27	0.021	<u>T 470.500</u>	<u>T 487.800</u>	88.601%	0.798					
2	10:34:31	0.044	<u>T 459.400</u>	<u>T 479.900</u>	91.480%	0.813					
3	10:34:35	0.031	<u>T 456.600</u>	<u>T 480.300</u>	92.201%	0.812					
X		0.032	<u>T 462.200</u>	<u>T 482.700</u>	90.761%	0.808					
σ		0.012	<u>T 7.335</u>	<u>T 4.442</u>	1.905%	0.009					
%RSD		36.300	<u>T 1.587</u>	<u>T 0.920</u>	2.099	1.068					

237886_10175_CCV7

10/18/2019 10:41:37 AM

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	10:41:40	105.200	106.800	106.200	5060.000	5119.000	5024.000	4898.000	4844.000	114.800	1532000.000
2	10:41:44	105.600	107.600	109.100	4968.000	4970.000	5010.000	4848.000	4761.000	128.400	1495000.000
3	10:41:48	106.000	106.600	110.600	5014.000	5049.000	5082.000	4925.000	4949.000	124.800	1506000.000
x		105.600	107.000	108.600	5014.000	5046.000	5038.000	4890.000	4851.000	122.700	1511000.000
σ		0.363	0.511	2.266	45.640	74.790	38.230	38.820	94.380	7.054	19080.000
%RSD		0.344	0.477	2.086	0.910	1.482	0.759	0.794	1.945	5.751	1.263
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	10:41:40	5028.000	4878.000	82.130%	83.236%	102.900	100.000	101.100	22.050	4921.000	101.300
2	10:41:44	4921.000	4654.000	84.907%	83.559%	99.490	99.370	100.500	19.520	4881.000	100.500
3	10:41:48	4935.000	4944.000	84.727%	82.684%	98.250	99.830	100.400	18.730	4896.000	102.000
x		4961.000	4825.000	83.921%	83.159%	100.200	99.740	100.700	20.100	4899.000	101.300
σ		58.400	151.700	1.554%	0.442%	2.389	0.330	0.369	1.730	19.850	0.741
%RSD		1.177	3.144	1.852	0.532	2.384	0.330	0.367	8.608	0.405	0.732
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:41:40	98.600	99.840	98.370	98.320	86.617%	98.860	105.400	101.000	83.819%	102.900
2	10:41:44	98.590	99.500	98.580	100.500	88.692%	99.440	104.900	101.400	86.289%	101.600
3	10:41:48	98.920	100.300	99.360	100.100	88.623%	100.300	106.900	101.400	87.530%	101.100
x		98.700	99.860	98.770	99.630	87.977%	99.540	105.700	101.300	85.879%	101.900
σ		0.187	0.377	0.520	1.161	1.179%	0.730	1.030	0.216	1.889%	0.939
%RSD		0.190	0.377	0.526	1.166	1.340	0.734	0.975	0.214	2.200	0.921
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:41:40	99.340	101.100	50.580	102.200	86.768%	101.200	103.700	98.520	89.704%	97.870
2	10:41:44	99.210	101.100	50.420	102.900	89.208%	101.100	103.800	98.350	92.298%	97.550
3	10:41:48	98.830	101.100	50.680	101.300	90.318%	100.900	104.700	98.950	93.311%	98.360
x		99.130	101.100	50.560	102.100	88.765%	101.000	104.100	98.610	91.771%	97.930
σ		0.269	0.033	0.133	0.812	1.816%	0.148	0.568	0.312	1.860%	0.408
%RSD		0.271	0.032	0.263	0.795	2.046	0.147	0.546	0.316	2.027	0.417
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:41:40	4.963	97.800	99.910	92.727%	100.600					
2	10:41:44	4.995	97.240	99.480	95.480%	99.940					
3	10:41:48	5.066	97.610	99.910	96.356%	100.500					
x		5.008	97.550	99.770	94.854%	100.300					
σ		0.053	0.284	0.247	1.894%	0.353					
%RSD		1.049	0.291	0.248	1.996	0.351					

237880_10175_CCB7

10/18/2019 10:48:50 AM

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	10:48:53	0.009	0.015	1.819	2.758	1.135	4.425	-3.742	2.917	141.500	1442000.000
2	10:48:57	0.014	-0.037	2.259	2.305	-1.983	3.753	-3.977	0.049	123.900	1438000.000
3	10:49:01	0.006	-0.005	1.736	1.570	-0.299	3.263	-5.106	3.440	137.100	1447000.000
x		0.010	-0.009	1.938	2.211	-0.382	3.814	-4.275	2.136	134.100	1442000.000
σ		0.004	0.026	0.281	0.600	1.560	0.584	0.729	1.826	9.177	4314.000
%RSD		39.280	287.100	14.510	27.110	408.300	15.300	17.060	85.490	6.841	0.299
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:48:53	-15.270	8.817	84.820%	88.687%	0.202	-0.072	-0.128	4.423	-0.376	-0.031
2	10:48:57	-15.930	5.075	86.116%	88.199%	0.093	-0.114	-0.116	4.847	-0.766	-0.029
3	10:49:01	-11.980	8.609	85.759%	89.484%	0.025	-0.025	-0.125	4.290	-0.019	-0.029
x		-14.390	7.500	85.565%	88.790%	0.107	-0.070	-0.123	4.520	-0.387	-0.030
σ		2.115	2.103	0.670%	0.649%	0.089	0.044	0.006	0.291	0.374	0.001
%RSD		14.690	28.040	0.782	0.730	83.720	63.040	5.280	6.440	96.490	4.006
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:48:53	-0.013	-0.026	-0.244	-0.303	85.078%	-0.000	-0.061	-0.018	85.698%	-0.003
2	10:48:57	-0.033	-0.013	-0.284	-0.387	85.914%	-0.053	-0.157	-0.024	87.121%	-0.018
3	10:49:01	-0.027	-0.050	-0.248	-0.330	87.460%	-0.019	-0.016	-0.018	87.586%	-0.023
x		-0.024	-0.030	-0.259	-0.340	86.151%	-0.024	-0.078	-0.020	86.802%	-0.014
σ		0.010	0.019	0.022	0.043	1.209%	0.027	0.072	0.004	0.984%	0.011
%RSD		40.600	63.730	8.502	12.650	1.403	112.200	92.240	17.990	1.133	73.190
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:48:53	0.046	-0.038	-0.029	-0.025	85.337%	0.077	0.198	0.015	86.710%	0.010
2	10:48:57	0.050	-0.049	-0.024	-0.014	87.682%	0.064	0.138	-0.007	89.222%	0.007
3	10:49:01	0.031	-0.067	-0.014	-0.020	87.835%	0.076	0.153	0.022	89.429%	0.006
x		0.042	-0.051	-0.022	-0.020	86.951%	0.072	0.163	0.010	88.453%	0.007
σ		0.010	0.015	0.007	0.005	1.400%	0.007	0.031	0.015	1.514%	0.002
%RSD		23.780	28.860	33.480	26.760	1.610	10.110	19.210	147.500	1.711	25.290
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:48:53	-0.021	0.613	0.001	89.685%	-0.011					
2	10:48:57	-0.017	0.582	0.003	90.992%	-0.013					
3	10:49:01	-0.017	0.577	0.004	91.452%	-0.010					
x		-0.018	0.591	0.003	90.709%	-0.012					
σ		0.002	0.020	0.002	0.916%	0.002					
%RSD		12.380	3.309	55.940	1.010	13.200					

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10/18/2019 10:58:57 AM

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	10:59:01	0.004	-0.047	1.629	43.640	10.970	4.782	19.850	1.718	144.900	1407000.000
2	10:59:05	-0.012	0.016	1.449	43.580	13.970	3.706	22.050	17.190	153.000	1379000.000
3	10:59:08	0.008	-0.047	1.551	41.960	12.760	3.658	22.320	-21.280	133.700	1377000.000
x		-0.000	-0.026	1.543	43.060	12.570	4.049	21.410	-0.788	143.900	1387000.000
σ		0.010	0.036	0.090	0.954	1.513	0.635	1.357	19.360	9.695	16740.000
%RSD		9273.000	141.800	5.858	2.215	12.040	15.690	6.342	2455.000	6.739	1.207
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	10:59:01	-25.090	42.950	90.704%	94.204%	0.240	-0.219	1.115	5.221	4.326	0.265
2	10:59:05	-29.530	31.840	93.051%	94.476%	-0.026	-0.353	1.100	5.412	4.283	0.306
3	10:59:08	-23.030	57.520	93.668%	94.486%	0.164	-0.240	1.142	5.115	4.464	0.300
x		-25.880	44.100	92.474%	94.388%	0.126	-0.271	1.119	5.249	4.358	0.291
σ		3.320	12.880	1.564%	0.160%	0.137	0.072	0.021	0.150	0.095	0.022
%RSD		12.830	29.200	1.691	0.169	108.900	26.690	1.877	2.867	2.179	7.586
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:59:01	-0.028	0.545	0.415	3.433	90.247%	-0.023	-0.082	0.182	89.856%	-0.014
2	10:59:05	-0.022	0.644	0.435	3.483	93.663%	-0.108	0.088	0.181	91.911%	-0.020
3	10:59:08	-0.019	0.662	0.446	3.881	93.430%	-0.104	-0.000	0.168	92.762%	-0.024
x		-0.023	0.617	0.432	3.599	92.447%	-0.078	0.002	0.177	91.510%	-0.019
σ		0.005	0.063	0.016	0.246	1.908%	0.048	0.085	0.008	1.494%	0.005
%RSD		20.880	10.210	3.663	6.822	2.064	61.270	3974.000	4.400	1.633	25.840
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:59:01	-0.042	-0.072	0.004	-0.027	90.631%	0.134	0.290	0.249	89.031%	0.024
2	10:59:05	-0.029	-0.099	0.021	-0.026	93.439%	0.136	0.301	0.180	91.164%	0.030
3	10:59:08	-0.057	-0.046	0.002	-0.023	93.744%	0.119	0.306	0.155	91.585%	0.038
x		-0.043	-0.072	0.009	-0.025	92.605%	0.130	0.299	0.195	90.593%	0.031
σ		0.014	0.026	0.010	0.002	1.716%	0.009	0.008	0.049	1.369%	0.007
%RSD		32.570	36.220	115.300	8.241	1.853	7.121	2.820	24.920	1.511	21.840
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	10:59:01	-0.017	0.343	0.006	89.770%	-0.043					
2	10:59:05	-0.009	0.359	0.007	91.998%	-0.043					
3	10:59:08	-0.009	0.335	-0.004	92.239%	-0.046					
x		-0.012	0.345	0.003	91.336%	-0.044					
σ		0.004	0.012	0.006	1.361%	0.002					
%RSD		38.970	3.540	235.800	1.490	3.883					

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10/18/2019 11:06:12 AM

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	11:06:15	9.841	0.269	67.770	7502.000	14170.000	9720.000	22440.000	723.200	814.700	1288000.000
2	11:06:19	9.927	0.287	66.460	7428.000	14150.000	9655.000	22390.000	684.000	770.800	1265000.000
3	11:06:23	9.936	0.247	69.340	7467.000	14250.000	9755.000	22480.000	656.200	831.200	1266000.000
x		9.901	0.268	67.860	7465.000	14190.000	9710.000	22440.000	687.800	805.600	1273000.000
σ		0.052	0.020	1.441	37.070	49.540	50.380	49.110	33.680	31.200	12850.000
%RSD		0.530	7.471	2.124	0.497	0.349	0.519	0.219	4.896	3.873	1.009
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	11:06:15	10410.000	M 92600.000	84.280%	84.353%	115.900	21.920	10.970	5.001	8188.000	154.600
2	11:06:19	10440.000	M 93950.000	86.174%	84.663%	119.700	21.910	10.780	5.641	8101.000	153.400
3	11:06:23	10500.000	M 93580.000	85.817%	84.608%	116.800	22.130	10.970	5.122	8201.000	154.500
x		10450.000	M 93380.000	85.424%	84.541%	117.500	21.980	10.910	5.255	8163.000	154.200
σ		48.010	M 697.400	1.006%	0.166%	2.001	0.123	0.111	0.340	54.330	0.651
%RSD		0.460	M 0.747	1.178	0.196	1.703	0.558	1.013	6.467	0.666	0.422
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:06:15	2.531	8.725	7.721	301.000	83.677%	5.204	1.109	195.000	84.928%	6.806
2	11:06:19	2.635	8.620	7.784	303.200	85.724%	5.404	0.754	196.500	86.919%	6.861
3	11:06:23	2.633	8.869	7.739	302.600	85.492%	5.216	0.896	196.800	87.097%	6.954
x		2.600	8.738	7.748	302.300	84.964%	5.275	0.920	196.100	86.315%	6.873
σ		0.060	0.125	0.033	1.120	1.121%	0.112	0.179	0.963	1.204%	0.075
%RSD		2.294	1.433	0.421	0.371	1.319	2.128	19.440	0.491	1.395	1.088
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:06:15	4.059	-0.102	-0.020	0.097	84.405%	0.534	0.446	138.900	86.140%	0.003
2	11:06:19	4.002	-0.116	-0.034	0.104	87.193%	0.538	0.433	140.800	88.186%	0.004
3	11:06:23	3.967	-0.119	-0.028	0.077	87.621%	0.537	0.479	139.700	88.450%	-0.006
x		4.009	-0.112	-0.027	0.093	86.406%	0.536	0.453	139.800	87.592%	0.000
σ		0.047	0.009	0.007	0.014	1.746%	0.002	0.023	0.977	1.264%	0.006
%RSD		1.161	8.180	25.720	15.230	2.021	0.388	5.177	0.699	1.444	2701.000
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:06:15	0.019	0.319	6.701	85.460%	3.091					
2	11:06:19	0.001	0.314	6.792	87.821%	3.160					
3	11:06:23	0.009	0.295	6.764	88.203%	3.209					
x		0.010	0.309	6.752	87.161%	3.153					
σ		0.009	0.012	0.047	1.486%	0.059					
%RSD		95.380	4.000	0.692	1.705	1.867					

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10/18/2019 11:13:26 AM

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	11:13:30	16.050	0.035	101.500	<u>T20390.000</u>	15130.000	1222.000	7043.000	121.400	4181.000	<u>T1200000.000</u>
2	11:13:34	16.550	0.002	103.500	<u>T20240.000</u>	15350.000	1249.000	7196.000	135.100	4315.000	<u>T1189000.000</u>
3	11:13:37	16.120	-0.013	105.200	<u>T20130.000</u>	15330.000	1221.000	7082.000	116.200	4237.000	<u>T1169000.000</u>
x		16.240	0.008	103.400	<u>T20250.000</u>	15270.000	1230.000	7107.000	124.200	4244.000	<u>T1186000.000</u>
σ		0.274	0.025	1.873	<u>T128.500</u>	117.600	15.810	79.220	9.774	67.650	<u>T15540.000</u>
%RSD		1.689	311.200	1.812	<u>T0.634</u>	0.770	1.285	1.115	7.867	1.594	<u>T1.310</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	11:13:30	<u>T5582.000</u>	<u>M136500.000</u>	87.555%	87.949%	18.600	4.390	1.877	3.194	10650.000	<u>TM1934.000</u>
2	11:13:34	5530.000	<u>M136000.000</u>	88.986%	87.434%	17.720	4.374	1.968	3.161	10680.000	<u>TM1896.000</u>
3	11:13:37	<u>T5479.000</u>	<u>M136000.000</u>	90.344%	88.371%	18.200	4.344	1.929	3.280	10760.000	<u>TM1898.000</u>
x		<u>T5530.000</u>	<u>M136200.000</u>	88.962%	87.918%	18.170	4.369	1.924	3.212	10700.000	<u>TM1910.000</u>
σ		<u>T51.630</u>	<u>M288.700</u>	1.394%	0.469%	0.441	0.023	0.046	0.061	60.260	<u>TM21.270</u>
%RSD		<u>T0.934</u>	<u>M0.212</u>	1.567	0.534	2.424	0.535	2.371	1.902	0.563	<u>TM1.114</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:13:30	<u>T-1.664</u>	6.657	2.117	13.350	84.323%	3.056	0.376	209.900	87.467%	1.560
2	11:13:34	5.842	6.799	2.021	13.430	88.516%	2.860	0.323	210.100	90.328%	1.511
3	11:13:37	5.909	6.662	2.113	13.630	88.428%	3.012	0.343	209.200	91.383%	1.514
x		<u>T3.363</u>	6.706	2.084	13.470	87.089%	2.976	0.347	209.800	89.726%	1.528
σ		<u>T4.353</u>	0.081	0.055	0.144	2.396%	0.103	0.027	0.499	2.026%	0.027
%RSD		<u>T129.500</u>	1.205	2.620	1.071	2.751	3.471	7.818	0.238	2.258	1.775
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:13:30	2.985	-0.091	-0.056	-0.018	86.356%	0.138	0.352	118.800	90.401%	0.002
2	11:13:34	3.036	-0.098	-0.042	-0.031	89.667%	0.217	0.327	120.100	93.287%	0.003
3	11:13:37	2.970	-0.102	-0.045	-0.012	90.861%	0.164	0.334	119.300	93.603%	0.011
x		2.997	-0.097	-0.048	-0.020	88.961%	0.173	0.337	119.400	92.430%	0.005
σ		0.034	0.006	0.008	0.010	2.334%	0.041	0.013	0.656	1.764%	0.005
%RSD		1.139	5.775	16.530	48.180	2.624	23.500	3.829	0.550	1.909	89.480
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:13:30	-0.029	0.115	1.266	85.755%	1.744					
2	11:13:34	-0.017	0.117	1.259	88.562%	1.707					
3	11:13:37	-0.000	0.111	1.316	89.405%	1.725					
x		-0.015	0.114	1.280	87.907%	1.726					
σ		0.015	0.003	0.031	1.911%	0.018					
%RSD		95.630	2.684	2.414	2.174	1.064					

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10/18/2019 11:20:39 AM

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	11:20:43	103.900	104.000	103.400	4994.000	5030.000	5042.000	4869.000	4861.000	113.200	1553000.000
2	11:20:47	104.200	105.000	102.400	4967.000	4995.000	5013.000	4824.000	4889.000	132.700	1519000.000
3	11:20:50	105.200	106.100	104.700	4950.000	5012.000	5005.000	4913.000	4956.000	119.800	1517000.000
x		104.500	105.000	103.500	4970.000	5012.000	5020.000	4869.000	4902.000	121.900	1530000.000
σ		0.689	1.066	1.154	21.770	17.450	19.850	44.410	48.680	9.940	20480.000
%RSD		0.659	1.016	1.115	0.438	0.348	0.395	0.912	0.993	8.154	1.339
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	11:20:43	4909.000	4634.000	87.924%	89.229%	99.680	99.570	99.580	17.260	4841.000	101.000
2	11:20:47	4946.000	4901.000	90.402%	89.405%	96.120	99.630	99.850	21.960	4868.000	100.700
3	11:20:50	4933.000	4939.000	90.612%	89.145%	95.300	99.770	100.300	18.540	4880.000	100.900
x		4929.000	4825.000	89.646%	89.260%	97.040	99.660	99.900	19.250	4863.000	100.900
σ		18.590	166.100	1.495%	0.133%	2.327	0.105	0.353	2.428	20.200	0.155
%RSD		0.377	3.442	1.667	0.149	2.398	0.105	0.353	12.610	0.415	0.154
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:20:43	99.010	99.410	97.370	99.010	88.676%	99.760	108.100	101.400	87.304%	101.500
2	11:20:47	97.910	98.570	97.710	100.200	91.515%	100.000	110.100	101.200	90.061%	100.500
3	11:20:50	98.280	98.680	97.940	98.490	92.448%	98.610	105.800	100.500	90.856%	100.600
x		98.400	98.890	97.670	99.220	90.880%	99.470	108.000	101.000	89.407%	100.900
σ		0.556	0.458	0.286	0.863	1.964%	0.758	2.164	0.495	1.864%	0.564
%RSD		0.565	0.464	0.293	0.870	2.162	0.762	2.004	0.490	2.085	0.559
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:20:43	98.270	100.300	50.260	100.800	89.190%	100.800	102.300	98.840	91.922%	97.800
2	11:20:47	97.560	101.300	50.210	102.100	92.271%	99.980	102.500	98.750	94.565%	97.660
3	11:20:50	98.680	100.200	50.620	101.500	93.144%	100.300	102.500	98.430	95.844%	97.930
x		98.170	100.600	50.360	101.500	91.535%	100.400	102.400	98.670	94.110%	97.790
σ		0.567	0.597	0.221	0.662	2.077%	0.415	0.154	0.213	2.000%	0.137
%RSD		0.577	0.594	0.439	0.652	2.269	0.414	0.150	0.216	2.125	0.140
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:20:43	4.953	96.180	99.180	92.618%	99.320					
2	11:20:47	4.895	95.960	99.210	96.049%	98.790					
3	11:20:50	4.928	96.110	99.550	96.864%	98.340					
x		4.925	96.080	99.310	95.177%	98.820					
σ		0.029	0.109	0.205	2.254%	0.490					
%RSD		0.586	0.113	0.207	2.368	0.496					

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10/18/2019 11:27:53 AM

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	11:27:56	-0.006	-0.029	1.117	3.712	0.474	5.711	-2.286	11.730	148.900	1440000.000
2	11:28:00	0.011	0.007	1.016	1.930	-0.252	5.570	-3.709	9.070	137.900	1435000.000
3	11:28:04	0.030	-0.006	0.922	2.808	0.125	3.811	-2.581	8.487	141.000	1444000.000
x		0.012	-0.009	1.018	2.816	0.116	5.030	-2.859	9.764	142.600	1439000.000
σ		0.018	0.018	0.098	0.891	0.363	1.059	0.751	1.731	5.697	4288.000
%RSD		155.300	197.000	9.603	31.630	314.000	21.050	26.260	17.730	3.995	0.298
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:56	-16.850	-2.552	90.794%	94.694%	0.077	-0.006	-0.115	3.783	0.515	0.062
2	11:28:00	-14.950	-2.503	91.855%	94.633%	0.106	-0.071	-0.097	4.301	1.181	0.035
3	11:28:04	-13.900	7.435	91.169%	94.305%	0.043	-0.086	-0.130	4.603	0.694	0.017
x		-15.230	0.793	91.272%	94.544%	0.075	-0.054	-0.114	4.229	0.797	0.038
σ		1.496	5.752	0.538%	0.209%	0.031	0.043	0.017	0.415	0.345	0.023
%RSD		9.821	725.000	0.589	0.221	41.710	78.300	14.690	9.804	43.270	59.040
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:56	-0.011	-0.019	-0.230	-0.372	89.831%	-0.056	-0.063	0.010	89.824%	-0.010
2	11:28:00	-0.018	-0.000	-0.253	-0.340	91.227%	-0.046	-0.102	-0.007	90.360%	-0.015
3	11:28:04	-0.007	-0.063	-0.246	-0.359	90.847%	-0.001	-0.055	0.002	90.647%	-0.011
x		-0.012	-0.027	-0.243	-0.357	90.635%	-0.034	-0.073	0.002	90.277%	-0.012
σ		0.006	0.032	0.012	0.016	0.722%	0.029	0.025	0.008	0.418%	0.003
%RSD		46.660	117.400	4.868	4.456	0.796	84.790	33.810	441.300	0.463	21.430
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:27:56	0.055	-0.003	-0.009	0.025	88.987%	0.043	0.090	0.013	89.875%	0.026
2	11:28:00	0.063	-0.028	-0.008	0.017	91.069%	0.030	0.083	0.041	92.287%	0.030
3	11:28:04	0.025	-0.032	-0.007	-0.008	91.061%	0.051	0.101	0.003	91.645%	0.015
x		0.048	-0.021	-0.008	0.011	90.372%	0.041	0.091	0.019	91.269%	0.024
σ		0.020	0.016	0.001	0.017	1.199%	0.011	0.009	0.020	1.249%	0.008
%RSD		42.320	74.540	12.020	150.200	1.327	25.380	9.856	102.700	1.369	32.980
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:27:56	-0.021	0.205	0.018	91.231%	0.006					
2	11:28:00	-0.017	0.180	0.011	93.111%	0.004					
3	11:28:04	-0.013	0.165	0.005	93.450%	-0.003					
x		-0.017	0.183	0.012	92.598%	0.002					
σ		0.004	0.021	0.006	1.195%	0.005					
%RSD		22.680	11.220	54.970	1.291	226.900					

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01780 C.tet
Created By User	metals
Analyte Database	Pace.tea
Creation Timestamp	7/10/2008 4:47:18 PM
Last Edited By	ICM3
Last Edit Timestamp	10/4/2019 7:14:54 AM
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	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
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	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

Sweeps	10
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	13345

Main Run Setup

Main Run	Peak Jumping
Sweeps	45
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	32128
Channel Spacing	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
236586_10124_Cal0	4	7	7	7	8	8	8	8	8	8	8
236587_10124_Cal1	4	7	7	7	8	8	8	8	8	8	8
236588_10124_Cal2	4	7	7	7	8	8	8	8	8	8	8
236589_10124_Cal3	4	7	7	7	8	8	8	8	8	8	8
236590_10124_Cal4	4	7	7	7	8	8	8	8	8	8	8
236591_10124_Cal5	4	7	7	7	8	8	8	8	8	8	8
236577_10124_ICV	4	7	7	7	8	8	8	8	8	8	8
236586_10124_ICBTVA	4	7	7	7	8	8	8	8	8	8	8
236587_10124_CRDL_A1	4	7	7	7	8	8	8	8	8	8	8
236588_10124_CRDL_B1	4	7	7	7	8	8	8	8	8	8	8
236404_10124_ICSA1	4	7	7	7	8	8	8	8	8	8	8
236405_10124_ICSAB1	4	7	7	7	8	8	8	8	8	8	8
236592_10124_CCV1	4	7	7	7	8	8	8	8	8	8	8
236586_10124_CCBTVA1	4	7	7	7	8	8	8	8	8	8	8
1946901_10108	4	7	7	7	8	8	8	8	8	8	8
1946902_10108	4	7	7	7	8	8	8	8	8	8	8
1946903_10108	4	7	7	7	8	8	8	8	8	8	8
1946904_10108x2	4	7	7	7	8	8	8	8	8	8	8
1946904_10108	4	7	7	7	8	8	8	8	8	8	8
40194809001_10108	4	7	7	7	8	8	8	8	8	8	8
1946905_10108	4	7	7	7	8	8	8	8	8	8	8
1946906_10108	4	7	7	7	8	8	8	8	8	8	8
1949507_10108	4	7	7	7	8	8	8	8	8	8	8
40194809002_10108	4	7	7	7	8	8	8	8	8	8	8
236592_10124_CCV2	4	7	7	7	8	8	8	8	8	8	8
236586_10124_CCBTVA2	4	7	7	7	8	8	8	8	8	8	8
1949508_10108x5	4	7	7	7	8	8	8	8	8	8	8

40194809003_10108	4	7	7	7	8	8	8	8	8	8	8
40194809004_10108	4	7	7	7	8	8	8	8	8	8	8
40194809005_10108	4	7	7	7	8	8	8	8	8	8	8
40194809006_10108	4	7	7	7	8	8	8	8	8	8	8
40194809007_10108	4	7	7	7	8	8	8	8	8	8	8
40194809008_10108	4	7	7	7	8	8	8	8	8	8	8
40194809009_10108	4	7	7	7	8	8	8	8	8	8	8
40194809010_10108	4	7	7	7	8	8	8	8	8	8	8
40194809011_10108	4	7	7	7	8	8	8	8	8	8	8
236592_10124_CCV3	4	7	7	7	8	8	8	8	8	8	8
236586_10124_CCBTVA3	4	7	7	7	8	8	8	8	8	8	8
40194809012_10108	4	7	7	7	8	8	8	8	8	8	8
40194809013_10108	4	7	7	7	8	8	8	8	8	8	8
40194809014_10108	4	7	7	7	8	8	8	8	8	8	8
40194809015_10108	4	7	7	7	8	8	8	8	8	8	8
40194809016_10108	4	7	7	7	8	8	8	8	8	8	8
40194809017_10108	4	7	7	7	8	8	8	8	8	8	8
40194809018_10108	4	7	7	7	8	8	8	8	8	8	8
40194809019_10108	4	7	7	7	8	8	8	8	8	8	8
40194809020_10108	4	7	7	7	8	8	8	8	8	8	8
236592_10124_CCV4	4	7	7	7	8	8	8	8	8	8	8
236586_10124_CCBTVA4	4	7	7	7	8	8	8	8	8	8	8
236587_10124_CRDL_A2	4	7	7	7	8	8	8	8	8	8	8
236588_10124_CRDL_B2	4	7	7	7	8	8	8	8	8	8	8
236404_10124_ICSA2	4	7	7	7	8	8	8	8	8	8	8
236405_10124_ICSAB2	4	7	7	7	8	8	8	8	8	8	8
236592_10124_CCV5	4	7	7	7	8	8	8	8	8	8	8
236586_10124_CCBTVA5	4	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
236586_10124_Cal0	4	8	8	8	7	8	8	8	8	8	8
236587_10124_Cal1	4	8	8	8	7	8	8	8	8	8	8
236588_10124_Cal2	4	8	8	8	7	8	8	8	8	8	8
236589_10124_Cal3	4	8	8	8	7	8	8	8	8	8	8
236590_10124_Cal4	4	8	8	8	7	8	8	8	8	8	8
236591_10124_Cal5	4	8	8	8	7	8	8	8	8	8	8
236577_10124_ICV	4	8	8	8	7	8	8	8	8	8	8
236586_10124_ICBTVA	4	8	8	8	7	8	8	8	8	8	8
236587_10124_CRDL_A1	4	8	8	8	7	8	8	8	8	8	8
236588_10124_CRDL_B1	4	8	8	8	7	8	8	8	8	8	8
236404_10124_ICSA1	4	8	8	8	7	8	8	8	8	8	8
236405_10124_ICSAB1	4	8	8	8	7	8	8	8	8	8	8
236592_10124_CCV1	4	8	8	8	7	8	8	8	8	8	8
236586_10124_CCBTVA1	4	8	8	8	7	8	8	8	8	8	8
1946901_10108	4	8	8	8	7	8	8	8	8	8	8
1946902_10108	4	8	8	8	7	8	8	8	8	8	8
1946903_10108	4	8	8	8	7	8	8	8	8	8	8
1946904_10108x2	4	8	8	8	7	8	8	8	8	8	8
1946904_10108	4	8	8	8	7	8	8	8	8	8	8
40194809001_10108	4	8	8	8	7	8	8	8	8	8	8
1946905_10108	4	8	8	8	7	8	8	8	8	8	8
1946906_10108	4	8	8	8	7	8	8	8	8	8	8
1949507_10108	4	8	8	8	7	8	8	8	8	8	8
40194809002_10108	4	8	8	8	7	8	8	8	8	8	8
236592_10124_CCV2	4	8	8	8	7	8	8	8	8	8	8
236586_10124_CCBTVA2	4	8	8	8	7	8	8	8	8	8	8
1949508_10108x5	4	8	8	8	7	8	8	8	8	8	8
40194809003_10108	4	8	8	8	7	8	8	8	8	8	8
40194809004_10108	4	8	8	8	7	8	8	8	8	8	8
40194809005_10108	4	8	8	8	7	8	8	8	8	8	8
40194809006_10108	4	8	8	8	7	8	8	8	8	8	8
40194809007_10108	4	8	8	8	7	8	8	8	8	8	8
40194809008_10108	4	8	8	8	7	8	8	8	8	8	8
40194809009_10108	4	8	8	8	7	8	8	8	8	8	8
40194809010_10108	4	8	8	8	7	8	8	8	8	8	8
40194809011_10108	4	8	8	8	7	8	8	8	8	8	8
236592_10124_CCV3	4	8	8	8	7	8	8	8	8	8	8
236586_10124_CCBTVA3	4	8	8	8	7	8	8	8	8	8	8
40194809012_10108	4	8	8	8	7	8	8	8	8	8	8
40194809013_10108	4	8	8	8	7	8	8	8	8	8	8
40194809014_10108	4	8	8	8	7	8	8	8	8	8	8

40194809015_10108	4	8	8	8	7	8	8	8	8	8	8
40194809016_10108	4	8	8	8	7	8	8	8	8	8	8
40194809017_10108	4	8	8	8	7	8	8	8	8	8	8
40194809018_10108	4	8	8	8	7	8	8	8	8	8	8
40194809019_10108	4	8	8	8	7	8	8	8	8	8	8
40194809020_10108	4	8	8	8	7	8	8	8	8	8	8
236592_10124_CCV4	4	8	8	8	7	8	8	8	8	8	8
236586_10124_CCBTVA4	4	8	8	8	7	8	8	8	8	8	8
236587_10124_CRDL_A2	4	8	8	8	7	8	8	8	8	8	8
236588_10124_CRDL_B2	4	8	8	8	7	8	8	8	8	8	8
236404_10124_ICSA2	4	8	8	8	7	8	8	8	8	8	8
236405_10124_ICSAB2	4	8	8	8	7	8	8	8	8	8	8
236592_10124_CCV5	4	8	8	8	7	8	8	8	8	8	8
236586_10124_CCBTVA5	4	8	8	8	7	8	8	8	8	8	8
Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
236586_10124_Cal0	4	8	8	8	8	8	8	8	8	8	8
236587_10124_Cal1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_Cal2	4	8	8	8	8	8	8	8	8	8	8
236589_10124_Cal3	4	8	8	8	8	8	8	8	8	8	8
236590_10124_Cal4	4	8	8	8	8	8	8	8	8	8	8
236591_10124_Cal5	4	8	8	8	8	8	8	8	8	8	8
236577_10124_ICV	4	8	8	8	8	8	8	8	8	8	8
236586_10124_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA1	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV1	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1946901_10108	4	8	8	8	8	8	8	8	8	8	8
1946902_10108	4	8	8	8	8	8	8	8	8	8	8
1946903_10108	4	8	8	8	8	8	8	8	8	8	8
1946904_10108x2	4	8	8	8	8	8	8	8	8	8	8
1946904_10108	4	8	8	8	8	8	8	8	8	8	8
40194809001_10108	4	8	8	8	8	8	8	8	8	8	8
1946905_10108	4	8	8	8	8	8	8	8	8	8	8
1946906_10108	4	8	8	8	8	8	8	8	8	8	8
1949507_10108	4	8	8	8	8	8	8	8	8	8	8
40194809002_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV2	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
1949508_10108x5	4	8	8	8	8	8	8	8	8	8	8
40194809003_10108	4	8	8	8	8	8	8	8	8	8	8
40194809004_10108	4	8	8	8	8	8	8	8	8	8	8
40194809005_10108	4	8	8	8	8	8	8	8	8	8	8
40194809006_10108	4	8	8	8	8	8	8	8	8	8	8
40194809007_10108	4	8	8	8	8	8	8	8	8	8	8
40194809008_10108	4	8	8	8	8	8	8	8	8	8	8
40194809009_10108	4	8	8	8	8	8	8	8	8	8	8
40194809010_10108	4	8	8	8	8	8	8	8	8	8	8
40194809011_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV3	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40194809012_10108	4	8	8	8	8	8	8	8	8	8	8
40194809013_10108	4	8	8	8	8	8	8	8	8	8	8
40194809014_10108	4	8	8	8	8	8	8	8	8	8	8
40194809015_10108	4	8	8	8	8	8	8	8	8	8	8
40194809016_10108	4	8	8	8	8	8	8	8	8	8	8
40194809017_10108	4	8	8	8	8	8	8	8	8	8	8
40194809018_10108	4	8	8	8	8	8	8	8	8	8	8
40194809019_10108	4	8	8	8	8	8	8	8	8	8	8
40194809020_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV4	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA2	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV5	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8

Label	Config	89Y	90Zr	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba
236586_10124_Cal0	4	8	8	8	8	8	8	8	8	8	8
236587_10124_Cal1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_Cal2	4	8	8	8	8	8	8	8	8	8	8
236589_10124_Cal3	4	8	8	8	8	8	8	8	8	8	8
236590_10124_Cal4	4	8	8	8	8	8	8	8	8	8	8
236591_10124_Cal5	4	8	8	8	8	8	8	8	8	8	8
236577_10124_ICV	4	8	8	8	8	8	8	8	8	8	8
236586_10124_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA1	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV1	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1946901_10108	4	8	8	8	8	8	8	8	8	8	8
1946902_10108	4	8	8	8	8	8	8	8	8	8	8
1946903_10108	4	8	8	8	8	8	8	8	8	8	8
1946904_10108x2	4	8	8	8	8	8	8	8	8	8	8
1946904_10108	4	8	8	8	8	8	8	8	8	8	8
40194809001_10108	4	8	8	8	8	8	8	8	8	8	8
1946905_10108	4	8	8	8	8	8	8	8	8	8	8
1946906_10108	4	8	8	8	8	8	8	8	8	8	8
1949507_10108	4	8	8	8	8	8	8	8	8	8	8
40194809002_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV2	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
1949508_10108x5	4	8	8	8	8	8	8	8	8	8	8
40194809003_10108	4	8	8	8	8	8	8	8	8	8	8
40194809004_10108	4	8	8	8	8	8	8	8	8	8	8
40194809005_10108	4	8	8	8	8	8	8	8	8	8	8
40194809006_10108	4	8	8	8	8	8	8	8	8	8	8
40194809007_10108	4	8	8	8	8	8	8	8	8	8	8
40194809008_10108	4	8	8	8	8	8	8	8	8	8	8
40194809009_10108	4	8	8	8	8	8	8	8	8	8	8
40194809010_10108	4	8	8	8	8	8	8	8	8	8	8
40194809011_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV3	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40194809012_10108	4	8	8	8	8	8	8	8	8	8	8
40194809013_10108	4	8	8	8	8	8	8	8	8	8	8
40194809014_10108	4	8	8	8	8	8	8	8	8	8	8
40194809015_10108	4	8	8	8	8	8	8	8	8	8	8
40194809016_10108	4	8	8	8	8	8	8	8	8	8	8
40194809017_10108	4	8	8	8	8	8	8	8	8	8	8
40194809018_10108	4	8	8	8	8	8	8	8	8	8	8
40194809019_10108	4	8	8	8	8	8	8	8	8	8	8
40194809020_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV4	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA2	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV5	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8
Label	Config	159Tb	184W	195Pt	201Hg	205Tl	206Pb	207Pb	208Pb	209Bi	238U
236586_10124_Cal0	4	8	8	8	8	8	8	8	8	8	8
236587_10124_Cal1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_Cal2	4	8	8	8	8	8	8	8	8	8	8
236589_10124_Cal3	4	8	8	8	8	8	8	8	8	8	8
236590_10124_Cal4	4	8	8	8	8	8	8	8	8	8	8
236591_10124_Cal5	4	8	8	8	8	8	8	8	8	8	8
236577_10124_ICV	4	8	8	8	8	8	8	8	8	8	8
236586_10124_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA1	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV1	4	8	8	8	8	8	8	8	8	8	8

236586_10124_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1946901_10108	4	8	8	8	8	8	8	8	8	8	8
1946902_10108	4	8	8	8	8	8	8	8	8	8	8
1946903_10108	4	8	8	8	8	8	8	8	8	8	8
1946904_10108x2	4	8	8	8	8	8	8	8	8	8	8
1946904_10108	4	8	8	8	8	8	8	8	8	8	8
40194809001_10108	4	8	8	8	8	8	8	8	8	8	8
1946905_10108	4	8	8	8	8	8	8	8	8	8	8
1946906_10108	4	8	8	8	8	8	8	8	8	8	8
1949507_10108	4	8	8	8	8	8	8	8	8	8	8
40194809002_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV2	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
1949508_10108x5	4	8	8	8	8	8	8	8	8	8	8
40194809003_10108	4	8	8	8	8	8	8	8	8	8	8
40194809004_10108	4	8	8	8	8	8	8	8	8	8	8
40194809005_10108	4	8	8	8	8	8	8	8	8	8	8
40194809006_10108	4	8	8	8	8	8	8	8	8	8	8
40194809007_10108	4	8	8	8	8	8	8	8	8	8	8
40194809008_10108	4	8	8	8	8	8	8	8	8	8	8
40194809009_10108	4	8	8	8	8	8	8	8	8	8	8
40194809010_10108	4	8	8	8	8	8	8	8	8	8	8
40194809011_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV3	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40194809012_10108	4	8	8	8	8	8	8	8	8	8	8
40194809013_10108	4	8	8	8	8	8	8	8	8	8	8
40194809014_10108	4	8	8	8	8	8	8	8	8	8	8
40194809015_10108	4	8	8	8	8	8	8	8	8	8	8
40194809016_10108	4	8	8	8	8	8	8	8	8	8	8
40194809017_10108	4	8	8	8	8	8	8	8	8	8	8
40194809018_10108	4	8	8	8	8	8	8	8	8	8	8
40194809019_10108	4	8	8	8	8	8	8	8	8	8	8
40194809020_10108	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV4	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
236587_10124_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
236588_10124_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
236404_10124_ICSA2	4	8	8	8	8	8	8	8	8	8	8
236405_10124_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
236592_10124_CCV5	4	8	8	8	8	8	8	8	8	8	8
236586_10124_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8

Configuration 4 - CCT2

Minimum uptake 0
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 10022019	-145.00	-1080.00	-80.00	-195.30	-9.00	145.00	26.00	416.00	13.00	0.70
8	CCTKED Mode 10022019	-145.00	-1080.00	-80.00	-195.30	-17.00	145.00	26.00	416.00	13.00	0.70
Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias	
7	CCT Mode 10022019	0.73	1400.00	-46.30	11.00	0.00	0.30	-143.00	-34.50	-4.00	
8	CCTKED Mode 10022019	0.73	1400.00	-57.30	-5.70	0.00	3.40	-143.00	-34.50	-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	236586_10124_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	236587_10124_CaI1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	236588_10124_CaI2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	236589_10124_CaI3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	236590_10124_CaI4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	236591_10124_CaI5	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	236586_10124_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	236587_10124_CaI1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	236588_10124_CaI2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	236589_10124_CaI3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	236590_10124_CaI4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	236591_10124_CaI5	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	236586_10124_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	236587_10124_CaI1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	236588_10124_CaI2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000
4	236589_10124_CaI3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000
5	236590_10124_CaI4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	236591_10124_CaI5	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	236586_10124_CaI0	0.000	0.000	0.000	0.000	0.000					
2	236587_10124_CaI1	1.000	0.200	1.000	1.000	1.000					
3	236588_10124_CaI2	5.000	0.500	5.000	5.000	5.000					
4	236589_10124_CaI3	50.000	1.000	50.000	50.000	50.000					
5	236590_10124_CaI4	250.000	10.000	250.000	250.000	250.000					
6	236591_10124_CaI5	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

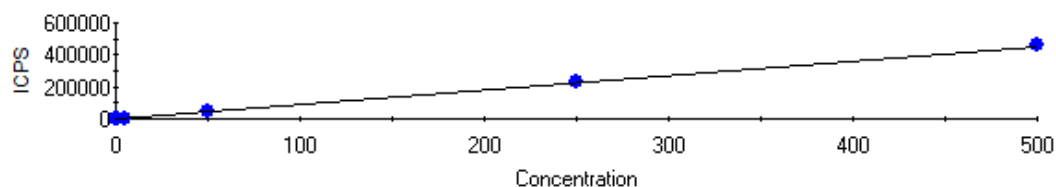
107Ag	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
111Cd	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
115In	Yes	0.77	None				No	
118Sn	Yes	0.69	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
121Sb	Yes	0.34	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
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	236586_10124_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	236587_10124_Cal1	Fully Quant Standard	1.000	0	1	2	144
3	236588_10124_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	236589_10124_Cal3	Fully Quant Standard	1.000	0	1	4	144
5	236590_10124_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	236591_10124_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	236577_10124_ICV	Unknown	1.000	1	1	1	144
8	236586_10124_ICBTVA	Unknown	1.000	0	1	8	144
9	236587_10124_CRDL_A1	Unknown	1.000	0	1	2	144
10	236588_10124_CRDL_B1	Unknown	1.000	0	1	3	144
11	236404_10124_ICSA1	Unknown	1.000	1	1	2	144
12	236405_10124_ICSAB1	Unknown	1.000	1	1	3	144
13	236592_10124_CCV1	Unknown	1.000	0	1	7	144
14	236586_10124_CCBTVA1	Unknown	1.000	0	1	1	144
15	1946901_10108	Unknown	1.000	3	1	1	144
16	1946902_10108	Unknown	1.000	3	1	2	144
17	1946903_10108	Unknown	1.000	3	1	3	144
18	1946904_10108x2	Unknown	1.000	3	1	4	144
19	1946904_10108	Unknown	1.000	3	1	5	144
20	40194809001_10108	Unknown	1.000	3	1	6	144
21	1946905_10108	Unknown	1.000	3	1	7	144
22	1946906_10108	Unknown	1.000	3	1	8	144
23	1949507_10108	Unknown	1.000	3	1	9	144
24	40194809002_10108	Unknown	1.000	3	1	10	144
25	236592_10124_CCV2	Unknown	1.000	0	1	7	144
26	236586_10124_CCBTVA2	Unknown	1.000	0	1	1	144
27	1949508_10108x5	Unknown	1.000	3	1	11	144
28	40194809003_10108	Unknown	1.000	3	1	12	144
29	40194809004_10108	Unknown	1.000	3	2	1	144
30	40194809005_10108	Unknown	1.000	3	2	2	144
31	40194809006_10108	Unknown	1.000	3	2	3	144
32	40194809007_10108	Unknown	1.000	3	2	4	144
33	40194809008_10108	Unknown	1.000	3	2	5	144
34	40194809009_10108	Unknown	1.000	3	2	6	144
35	40194809010_10108	Unknown	1.000	3	2	7	144
36	40194809011_10108	Unknown	1.000	3	2	8	144
37	236592_10124_CCV3	Unknown	1.000	0	1	7	144
38	236586_10124_CCBTVA3	Unknown	1.000	0	1	1	144
39	40194809012_10108	Unknown	1.000	3	2	9	144
40	40194809013_10108	Unknown	1.000	3	2	10	144
41	40194809014_10108	Unknown	1.000	3	2	11	144
42	40194809015_10108	Unknown	1.000	3	2	12	144
43	40194809016_10108	Unknown	1.000	3	3	1	144
44	40194809017_10108	Unknown	1.000	3	3	2	144
45	40194809018_10108	Unknown	1.000	3	3	3	144
46	40194809019_10108	Unknown	1.000	3	3	4	144
47	40194809020_10108	Unknown	1.000	3	3	5	144
48	236592_10124_CCV4	Unknown	1.000	0	1	7	144
49	236586_10124_CCBTVA4	Unknown	1.000	0	1	1	144
50	236587_10124_CRDL_A2	Unknown	1.000	0	1	2	144
51	236588_10124_CRDL_B2	Unknown	1.000	0	1	3	144
52	236404_10124_ICSA2	Unknown	1.000	1	1	2	144
53	236405_10124_ICSAB2	Unknown	1.000	1	1	3	144
54	236592_10124_CCV5	Unknown	1.000	0	1	7	144
55	236586_10124_CCBTVA5	Unknown	1.000	0	1	1	144

Fully Quant Calibration

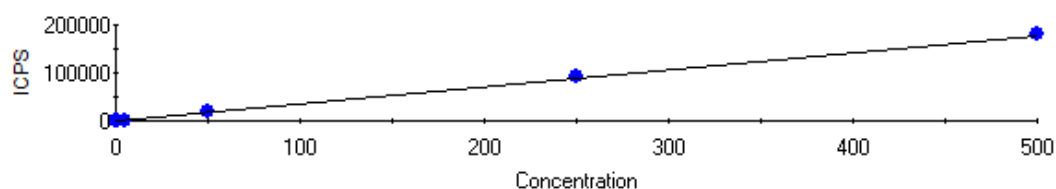
7Li FQ Block 1



Intercept CPS=59.942814 Intercept Conc=0.065975
Sensitivity=908.563639 Correlation Coeff=0.999954

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.023	0.023	80.71	0.00
236587_10124_Cal1	1.000	0.866	0.134	846.45	13.43
236588_10124_Cal2	5.000	4.563	0.437	4205.76	8.74
236589_10124_Cal3	50.000	46.148	3.852	41988.74	7.70
236590_10124_Cal4	250.000	253.872	3.872	230718.75	1.55
236591_10124_Cal5	500.000	512.201	12.201	465426.97	2.44

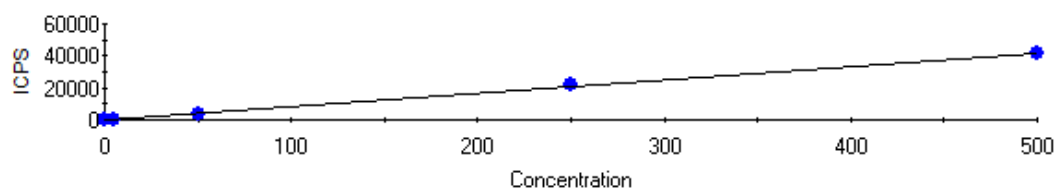
9Be FQ Block 1



Intercept CPS=12.061759 Intercept Conc=0.033803
Sensitivity=356.825080 Correlation Coeff=0.999902

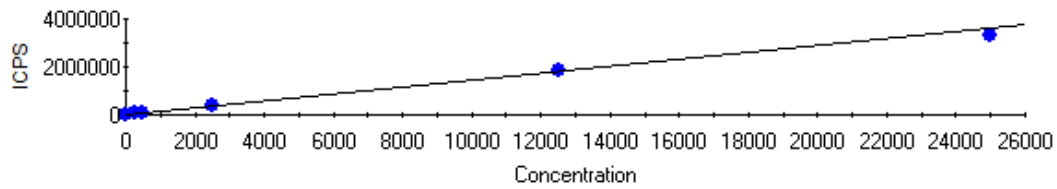
Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.047	0.047	28.91	0.00
236587_10124_Cal1	1.000	1.012	0.012	373.20	1.21
236588_10124_Cal2	5.000	4.765	0.235	1712.50	4.69
236589_10124_Cal3	50.000	48.992	1.008	17493.49	2.02
236590_10124_Cal4	250.000	260.015	10.015	92792.05	4.01
236591_10124_Cal5	500.000	506.186	6.186	180631.80	1.24

10B FQ Block 1



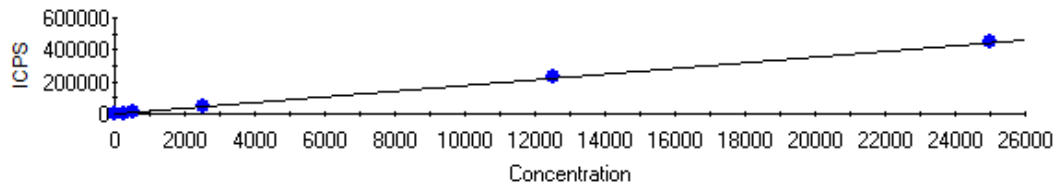
Intercept CPS=118.824546 Intercept Conc=1.439278
Sensitivity=82.558467 Correlation Coeff=0.999777

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.060	0.060	123.77	0.00
236588_10124_Cal2	5.000	4.955	0.045	527.86	0.91
236589_10124_Cal3	50.000	47.152	2.848	4011.61	5.70
236590_10124_Cal4	250.000	263.682	13.682	21888.04	5.47
236591_10124_Cal5	500.000	508.642	8.642	42111.56	1.73

23Na FQ Block 1

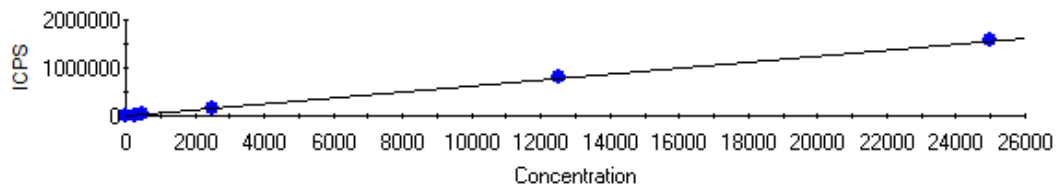
Intercept CPS=2250.019832 Intercept Conc=15.610285
Sensitivity=144.137013 Correlation Coeff=0.998534

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-1.175	1.175	2080.64	0.00
236587_10124_Cal1	250.000	259.053	9.053	39589.11	3.62
236588_10124_Cal2	500.000	514.994	14.994	76479.71	3.00
236589_10124_Cal3	2500.000	2638.611	138.611	382571.52	5.54
236590_10124_Cal4	12500.000	12849.426	349.426	1854327.96	2.80
236591_10124_Cal5	25000.000	23046.536	1953.464	3324108.81	7.81

25Mg FQ Block 1

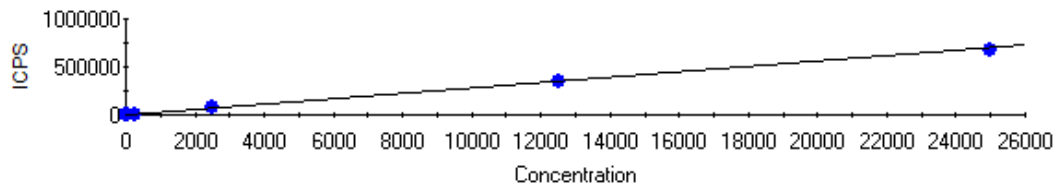
Intercept CPS=155.313139 Intercept Conc=8.769577
Sensitivity=17.710448 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.056	0.056	156.31	0.00
236587_10124_Cal1	250.000	249.742	0.258	4578.36	0.10
236588_10124_Cal2	500.000	490.657	9.343	8845.07	1.87
236589_10124_Cal3	2500.000	2508.337	8.337	44579.08	0.33
236590_10124_Cal4	12500.000	12699.922	199.922	225076.61	1.60
236591_10124_Cal5	25000.000	25300.022	300.022	448230.02	1.20

27Al FQ Block 1

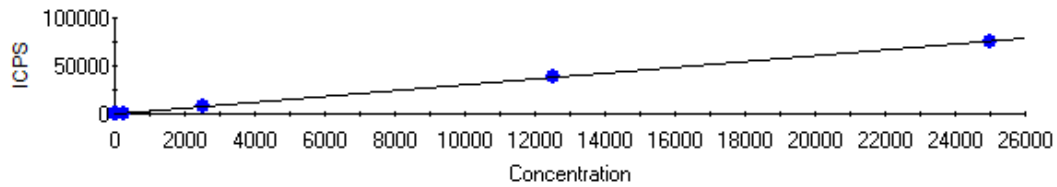
Intercept CPS=403.677682 Intercept Conc=6.532231
Sensitivity=61.797828 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	1.081	1.081	470.49	0.00
236587_10124_Cal1	250.000	253.836	3.836	16090.22	1.53
236588_10124_Cal2	500.000	497.512	2.488	31148.82	0.50
236589_10124_Cal3	2500.000	2535.399	35.399	157085.84	1.42
236590_10124_Cal4	12500.000	12842.599	342.599	794048.38	2.74
236591_10124_Cal5	25000.000	25594.860	594.860	1582110.43	2.38

28Si FQ Block 1

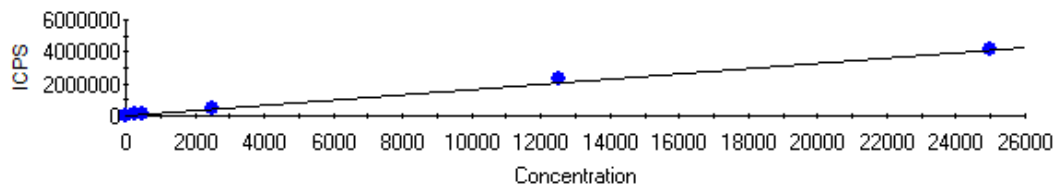
Intercept CPS=508.652093 Intercept Conc=18.146272
Sensitivity=28.030666 Correlation Coeff=0.999865

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.705	0.705	488.90	0.00
236587_10124_Cal1	50.000	54.926	4.926	2048.28	9.85
236588_10124_Cal2	250.000	255.549	5.549	7671.86	2.22
236589_10124_Cal3	2500.000	2494.380	5.620	70427.80	0.22
236590_10124_Cal4	12500.000	12583.842	83.842	353242.13	0.67
236591_10124_Cal5	25000.000	24320.290	679.710	682222.56	2.72

31P FQ Block 1

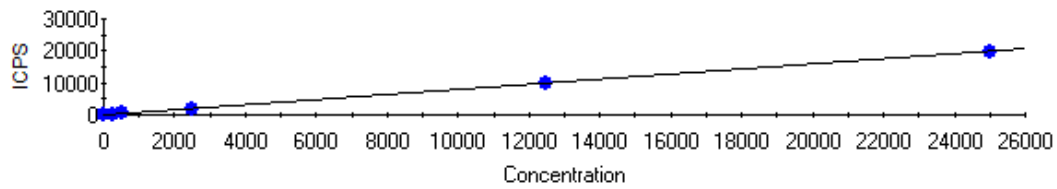
Intercept CPS=119.900286 Intercept Conc=39.702377
Sensitivity=3.019978 Correlation Coeff=0.999949

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.947	0.947	117.04	0.00
236587_10124_Cal1	50.000	50.676	0.676	272.94	1.35
236588_10124_Cal2	250.000	261.945	11.945	910.97	4.78
236589_10124_Cal3	2500.000	2508.551	8.551	7695.67	0.34
236590_10124_Cal4	12500.000	12747.039	247.039	38615.67	1.98
236591_10124_Cal5	25000.000	24965.128	34.872	75514.02	0.14

39K FQ Block 1

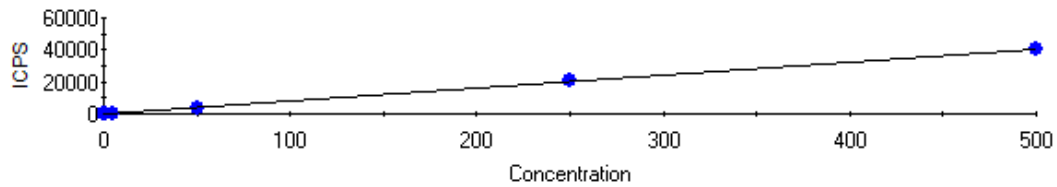
Intercept CPS=40458.136041 Intercept Conc=248.876339
Sensitivity=162.563208 Correlation Coeff=0.998848

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.540	0.540	40545.93	0.00
236587_10124_Cal1	250.000	255.114	5.114	81930.31	2.05
236588_10124_Cal2	500.000	496.091	3.909	121104.23	0.78
236589_10124_Cal3	2500.000	2524.890	24.890	450912.32	1.00
236590_10124_Cal4	12500.000	13756.361	1256.361	2276736.38	10.05
236591_10124_Cal5	25000.000	24995.252	4.748	4103766.52	0.02

43Ca FQ Block 1

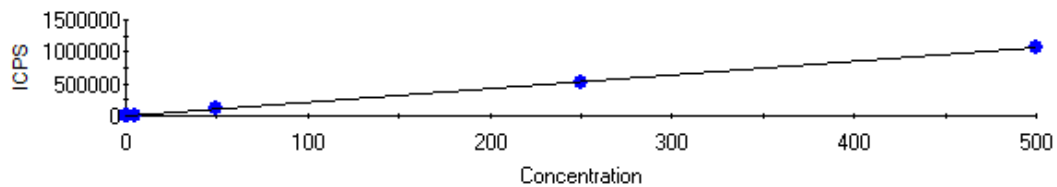
Intercept CPS=6.475090 Intercept Conc=8.214689
Sensitivity=0.788233 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.114	0.114	6.56	0.00
236587_10124_Cal1	250.000	251.623	1.623	204.81	0.65
236588_10124_Cal2	500.000	446.537	53.463	358.45	10.69
236589_10124_Cal3	2500.000	2531.270	31.270	2001.71	1.25
236590_10124_Cal4	12500.000	12680.981	180.981	10002.04	1.45
236591_10124_Cal5	25000.000	24996.511	3.489	19709.55	0.01

47Ti FQ Block 1

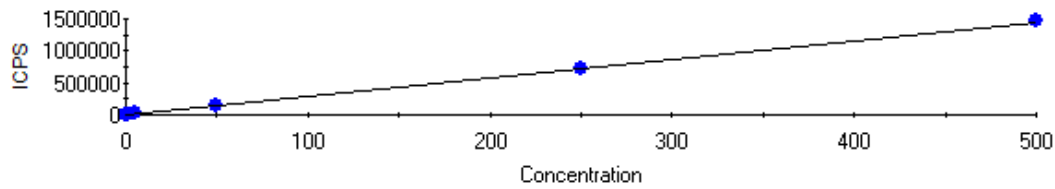
Intercept CPS=25.178995 Intercept Conc=0.309880
Sensitivity=81.254139 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.014	0.014	24.08	0.00
236587_10124_Cal1	1.000	0.839	0.161	93.36	16.09
236588_10124_Cal2	5.000	5.199	0.199	447.64	3.99
236589_10124_Cal3	50.000	47.374	2.626	3874.49	5.25
236590_10124_Cal4	250.000	250.025	0.025	20340.71	0.01
236591_10124_Cal5	500.000	498.603	1.397	40538.73	0.28

51V FQ Block 1

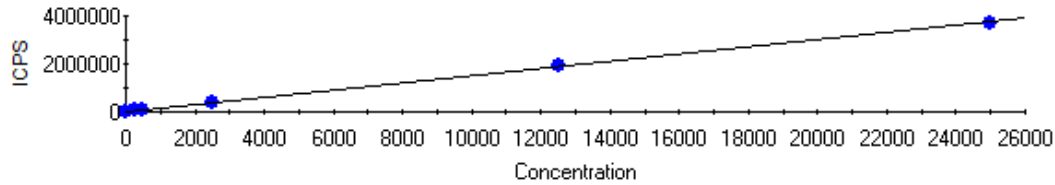
Intercept CPS=546.344416 Intercept Conc=0.257894
Sensitivity=2118.483483 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.199	0.199	967.55	0.00
236587_10124_Cal1	1.000	1.012	0.012	2689.34	1.16
236588_10124_Cal2	5.000	4.944	0.056	11019.76	1.12
236589_10124_Cal3	50.000	48.016	1.984	102268.40	3.97
236590_10124_Cal4	250.000	251.005	1.005	532296.51	0.40
236591_10124_Cal5	500.000	507.346	7.346	1075350.20	1.47

52Cr FQ Block 1

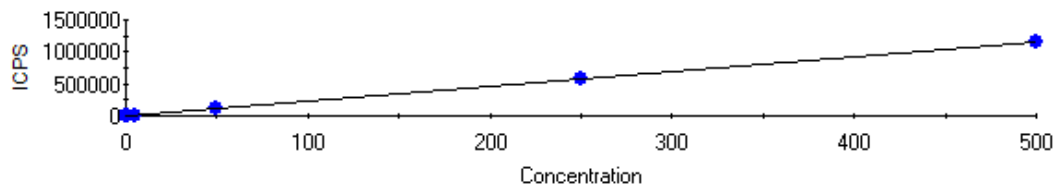
Intercept CPS=632.951098 Intercept Conc=0.220685
Sensitivity=2868.122490 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.004	0.004	643.85	0.00
236587_10124_Cal1	1.000	0.962	0.038	3391.04	3.84
236588_10124_Cal2	5.000	4.883	0.117	14638.70	2.34
236589_10124_Cal3	50.000	48.745	1.255	140438.28	2.51
236590_10124_Cal4	250.000	253.578	3.578	727925.14	1.43
236591_10124_Cal5	500.000	508.831	8.831	1460021.70	1.77

54Fe FQ Block 1

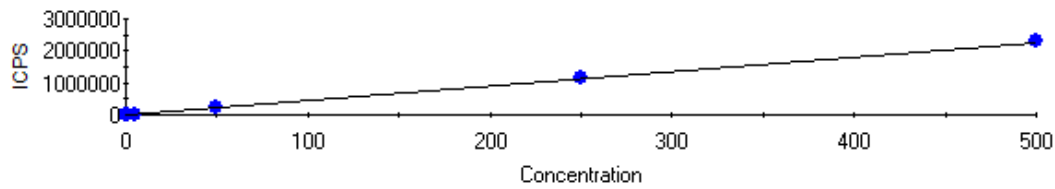
Intercept CPS=1480.243077 Intercept Conc=9.874324
Sensitivity=149.908293 Correlation Coeff=0.999951

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.267	0.267	1520.28	0.00
236587_10124_Cal1	250.000	248.727	1.273	38766.50	0.51
236588_10124_Cal2	500.000	493.321	6.679	75433.18	1.34
236589_10124_Cal3	2500.000	2493.894	6.106	375335.67	0.24
236590_10124_Cal4	12500.000	12660.961	160.961	1899463.23	1.29
236591_10124_Cal5	25000.000	24811.335	188.665	3720905.13	0.75

55Mn FQ Block 1

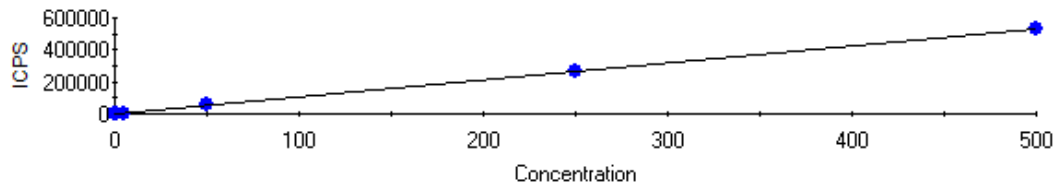
Intercept CPS=183.132547 Intercept Conc=0.079454
Sensitivity=2304.897748 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.018	0.018	224.86	0.00
236587_10124_Cal1	1.000	0.982	0.018	2446.56	1.80
236588_10124_Cal2	5.000	4.817	0.183	11286.16	3.66
236589_10124_Cal3	50.000	48.496	1.504	111960.66	3.01
236590_10124_Cal4	250.000	251.294	1.294	579390.21	0.52
236591_10124_Cal5	500.000	505.855	5.855	1166127.81	1.17

59Co FQ Block 1

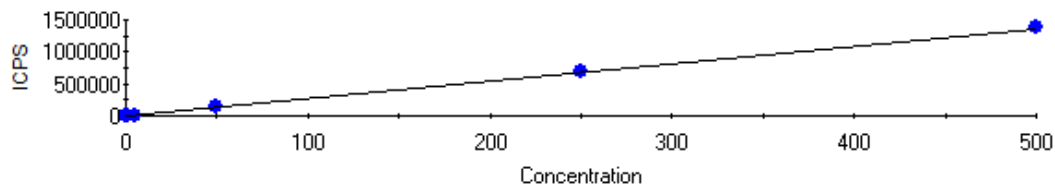
Intercept CPS=290.205914 Intercept Conc=0.064063
Sensitivity=4530.041182 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.002	0.002	301.35	0.00
236587_10124_Cal1	1.000	0.971	0.029	4690.09	2.87
236588_10124_Cal2	5.000	4.877	0.123	22381.52	2.47
236589_10124_Cal3	50.000	48.428	1.572	219670.47	3.14
236590_10124_Cal4	250.000	251.483	1.483	1139518.20	0.59
236591_10124_Cal5	500.000	503.376	3.376	2280602.53	0.68

60Ni FQ Block 1

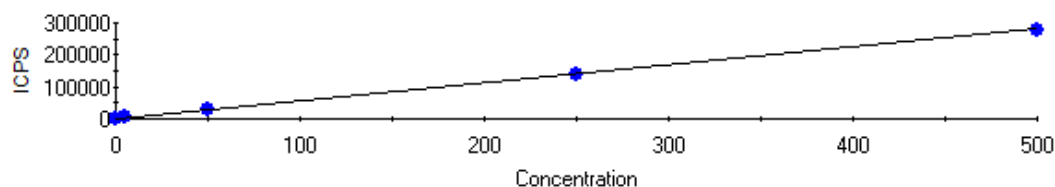
Intercept CPS=124.755059 Intercept Conc=0.116635
Sensitivity=1069.622482 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.002	0.002	126.51	0.00
236587_10124_Cal1	1.000	0.992	0.008	1185.75	0.81
236588_10124_Cal2	5.000	4.928	0.072	5395.73	1.44
236589_10124_Cal3	50.000	49.220	0.780	52771.11	1.56
236590_10124_Cal4	250.000	253.194	3.194	270946.82	1.28
236591_10124_Cal5	500.000	498.767	1.233	533617.11	0.25

63Cu FQ Block 1

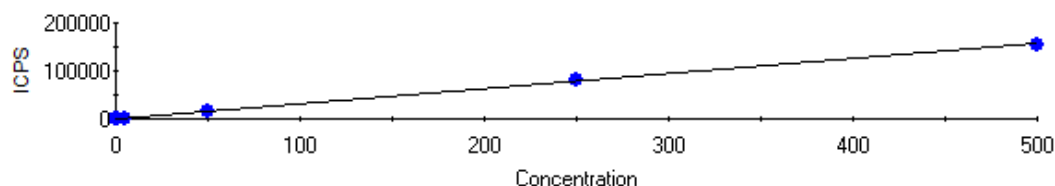
Intercept CPS=376.607451 Intercept Conc=0.137723
Sensitivity=2734.536250 Correlation Coeff=0.999970

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.016	0.016	420.81	0.00
236587_10124_Cal1	1.000	1.043	0.043	3228.50	4.29
236588_10124_Cal2	5.000	4.949	0.051	13909.26	1.02
236589_10124_Cal3	50.000	49.839	0.161	136662.30	0.32
236590_10124_Cal4	250.000	255.447	5.447	698904.88	2.18
236591_10124_Cal5	500.000	503.047	3.047	1375975.74	0.61

66Zn FQ Block 1

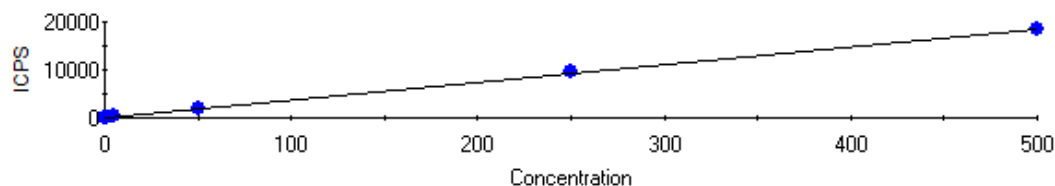
Intercept CPS=333.601990 Intercept Conc=0.595921
Sensitivity=559.808865 Correlation Coeff=0.999917

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.051	0.051	305.05	0.00
236588_10124_Cal2	5.000	5.046	0.046	3158.54	0.92
236589_10124_Cal3	50.000	49.788	0.212	28205.29	0.42
236590_10124_Cal4	250.000	251.594	1.594	141178.09	0.64
236591_10124_Cal5	500.000	490.436	9.564	274883.90	1.91

75As FQ Block 1

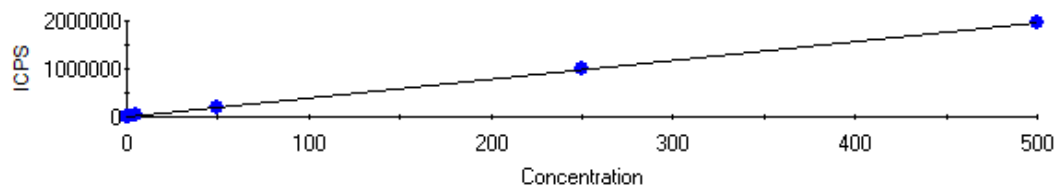
Intercept CPS=235.512433 Intercept Conc=0.748737
Sensitivity=314.546175 Correlation Coeff=0.999904

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.018	0.018	229.75	0.00
236587_10124_Cal1	1.000	1.003	0.003	551.06	0.32
236588_10124_Cal2	5.000	4.943	0.057	1790.18	1.15
236589_10124_Cal3	50.000	50.155	0.155	16011.44	0.31
236590_10124_Cal4	250.000	250.493	0.493	79027.14	0.20
236591_10124_Cal5	500.000	486.786	13.214	153352.26	2.64

78Se FQ Block 1

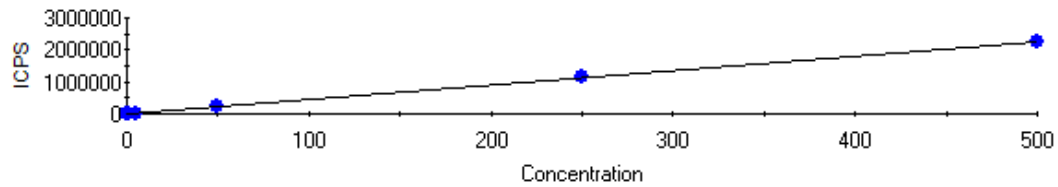
Intercept CPS=9.834422 Intercept Conc=0.263945
Sensitivity=37.259393 Correlation Coeff=0.999793

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.002	0.002	9.77	0.00
236587_10124_Cal1	1.000	1.041	0.041	48.61	4.06
236588_10124_Cal2	5.000	5.321	0.321	208.08	6.41
236589_10124_Cal3	50.000	51.723	1.723	1937.01	3.45
236590_10124_Cal4	250.000	257.432	7.432	9601.61	2.97
236591_10124_Cal5	500.000	493.603	6.397	18401.18	1.28

88Sr FQ Block 1

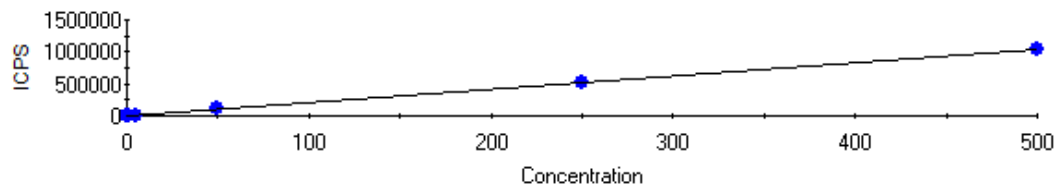
Intercept CPS=494.694788 Intercept Conc=0.125023
Sensitivity=3956.830901 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.004	0.004	508.89	0.00
236587_10124_Cal1	1.000	0.993	0.007	4422.60	0.73
236588_10124_Cal2	5.000	4.850	0.150	19684.75	3.00
236589_10124_Cal3	50.000	48.384	1.616	191940.03	3.23
236590_10124_Cal4	250.000	251.637	1.637	996180.37	0.65
236591_10124_Cal5	500.000	499.743	0.257	1977892.21	0.05

90Zr FQ Block 1

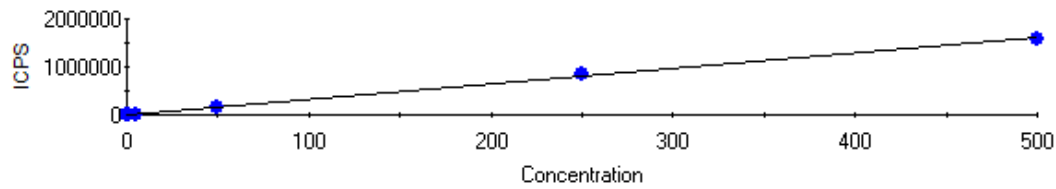
Intercept CPS=546.597602 Intercept Conc=0.122990
Sensitivity=4444.227227 Correlation Coeff=0.999944

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.001	0.001	550.56	0.00
236587_10124_Cal1	1.000	0.959	0.041	4809.09	4.09
236588_10124_Cal2	5.000	4.925	0.075	22433.54	1.50
236589_10124_Cal3	50.000	49.567	0.433	220834.55	0.87
236590_10124_Cal4	250.000	257.136	7.136	1143319.27	2.85
236591_10124_Cal5	500.000	503.516	3.516	2238286.66	0.70

95Mo FQ Block 1

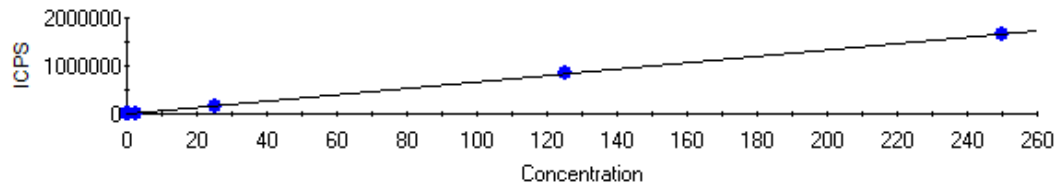
Intercept CPS=202.045492 Intercept Conc=0.098579
Sensitivity=2049.586716 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.002	0.002	205.82	0.00
236587_10124_Cal1	1.000	0.939	0.061	2126.88	6.09
236588_10124_Cal2	5.000	4.934	0.066	10314.72	1.32
236589_10124_Cal3	50.000	49.661	0.339	101986.04	0.68
236590_10124_Cal4	250.000	258.405	8.405	529824.64	3.36
236591_10124_Cal5	500.000	506.228	6.228	1037760.87	1.25

105Pd FQ Block 1

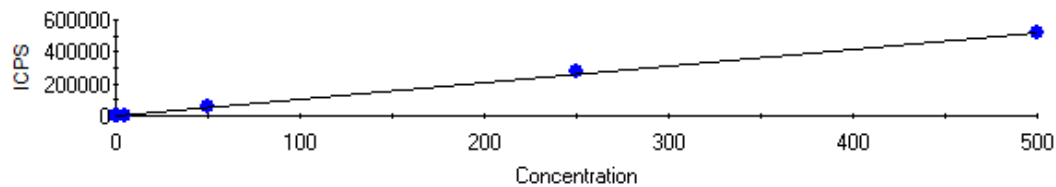
Intercept CPS=1170.497845 Intercept Conc=0.362234
Sensitivity=3231.328028 Correlation Coeff=0.999803

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.001	0.001	1168.66	0.00
236587_10124_Cal1	1.000	0.979	0.021	4333.89	2.10
236588_10124_Cal2	5.000	5.118	0.118	17708.69	2.36
236589_10124_Cal3	50.000	50.648	0.648	164829.94	1.30
236590_10124_Cal4	250.000	257.005	7.005	831637.84	2.80
236591_10124_Cal5	500.000	493.285	6.715	1595135.01	1.34

107Ag FQ Block 1

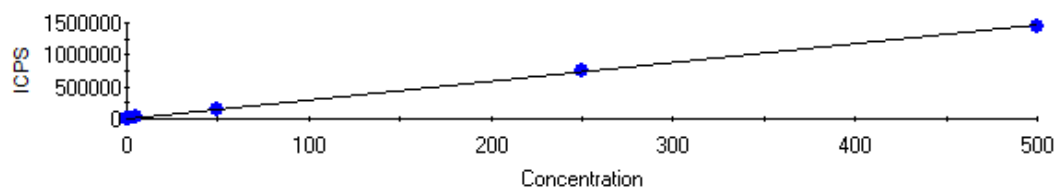
Intercept CPS=682.808296 Intercept Conc=0.103330
Sensitivity=6608.043121 Correlation Coeff=0.999743

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.000	0.000	681.28	0.00
236587_10124_Cal1	0.500	0.523	0.023	4137.29	4.55
236588_10124_Cal2	2.500	2.543	0.043	17486.39	1.72
236589_10124_Cal3	25.000	25.628	0.628	170035.83	2.51
236590_10124_Cal4	125.000	129.622	4.622	857229.85	3.70
236591_10124_Cal5	250.000	247.363	2.637	1635267.16	1.05

111Cd FQ Block 1

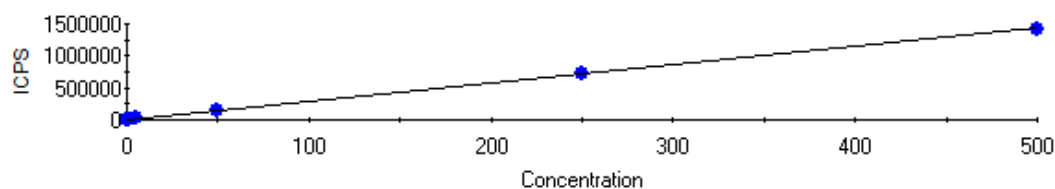
Intercept CPS=72.181089 Intercept Conc=0.069091
Sensitivity=1044.718809 Correlation Coeff=0.999671

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.004	0.004	67.90	0.00
236587_10124_Cal1	1.000	1.060	0.060	1179.12	5.96
236588_10124_Cal2	5.000	5.180	0.180	5483.57	3.60
236589_10124_Cal3	50.000	52.254	2.254	54663.37	4.51
236590_10124_Cal4	250.000	261.643	11.643	273415.85	4.66
236591_10124_Cal5	500.000	496.318	3.682	518584.51	0.74

118Sn FQ Block 1

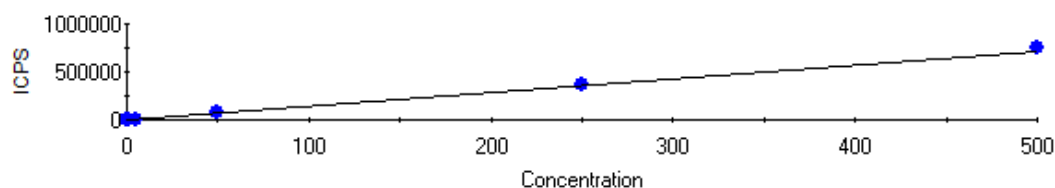
Intercept CPS=278.690217 Intercept Conc=0.095314
Sensitivity=2923.919328 Correlation Coeff=0.999918

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.011	0.011	310.06	0.00
236587_10124_Cal1	1.000	1.034	0.034	3301.10	3.37
236588_10124_Cal2	5.000	4.994	0.006	14880.87	0.12
236589_10124_Cal3	50.000	49.761	0.239	145775.09	0.48
236590_10124_Cal4	250.000	255.061	5.061	746057.47	2.02
236591_10124_Cal5	500.000	496.868	3.132	1453079.92	0.63

121Sb FQ Block 1

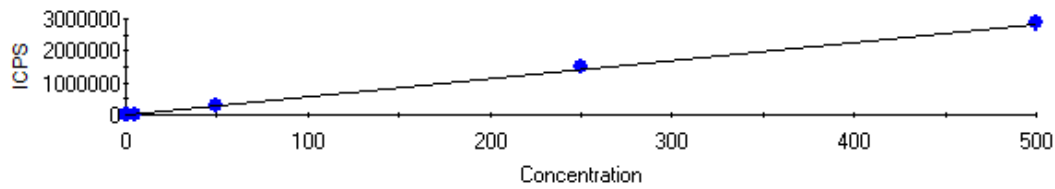
Intercept CPS=233.381166 Intercept Conc=0.081651
Sensitivity=2858.267659 Correlation Coeff=0.999900

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.005	0.005	217.88	0.00
236587_10124_Cal1	1.000	0.984	0.016	3046.06	1.60
236588_10124_Cal2	5.000	5.024	0.024	14593.44	0.48
236589_10124_Cal3	50.000	50.131	0.131	143522.14	0.26
236590_10124_Cal4	250.000	254.372	4.372	727296.39	1.75
236591_10124_Cal5	500.000	494.049	5.951	1412357.98	1.19

137Ba FQ Block 1

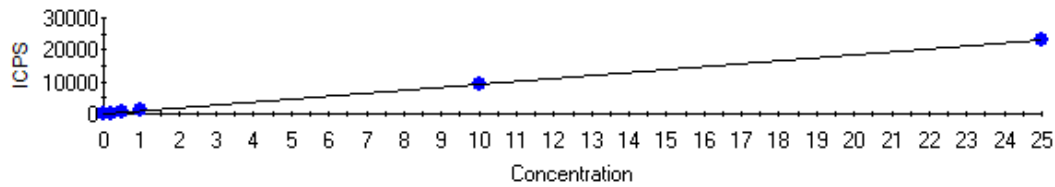
Intercept CPS=135.519888 Intercept Conc=0.094181
Sensitivity=1438.925776 Correlation Coeff=0.999869

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.008	0.008	146.46	0.00
236587_10124_Cal1	1.000	1.001	0.001	1575.48	0.07
236588_10124_Cal2	5.000	4.939	0.061	7242.42	1.22
236589_10124_Cal3	50.000	48.899	1.101	70497.66	2.20
236590_10124_Cal4	250.000	252.605	2.605	363615.93	1.04
236591_10124_Cal5	500.000	522.518	22.518	751999.98	4.50

195Pt FQ Block 1

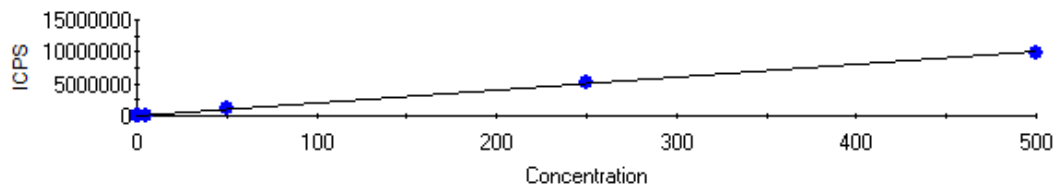
Intercept CPS=585.894133 Intercept Conc=0.103464
Sensitivity=5662.803812 Correlation Coeff=0.999799

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.000	0.000	587.48	0.00
236587_10124_Cal1	1.000	0.997	0.003	6232.07	0.29
236588_10124_Cal2	5.000	4.907	0.093	28374.47	1.86
236589_10124_Cal3	50.000	49.899	0.101	283152.32	0.20
236590_10124_Cal4	250.000	262.618	12.618	1487740.54	5.05
236591_10124_Cal5	500.000	504.348	4.348	2856608.86	0.87

201Hg FQ Block 1

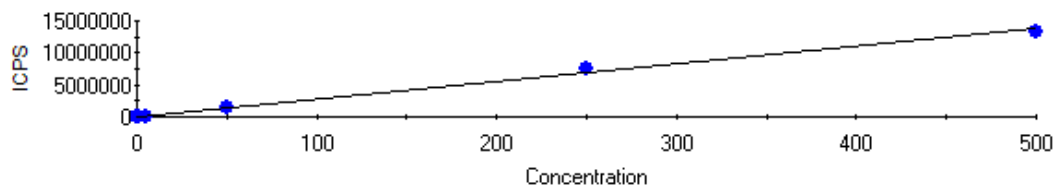
Intercept CPS=15.552957 Intercept Conc=0.017022
Sensitivity=913.673256 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.000	0.000	15.56	0.00
236587_10124_Cal1	0.200	0.186	0.014	185.36	7.07
236588_10124_Cal2	0.500	0.476	0.024	450.31	4.83
236589_10124_Cal3	1.000	0.970	0.030	902.20	2.96
236590_10124_Cal4	10.000	10.071	0.071	9216.78	0.71
236591_10124_Cal5	25.000	25.031	0.031	22885.81	0.12

205Tl FQ Block 1

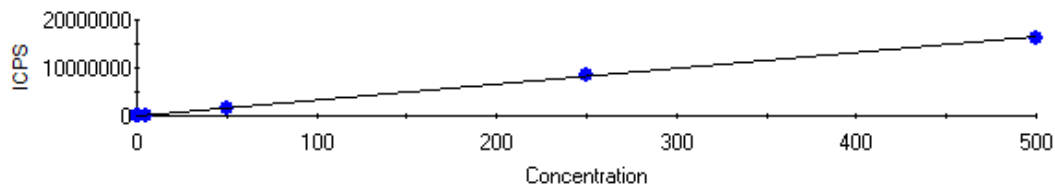
Intercept CPS=1742.140370 Intercept Conc=0.085643
Sensitivity=20341.997932 Correlation Coeff=0.999460

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.001	0.001	1759.99	0.00
236587_10124_Cal1	1.000	1.000	0.000	22088.52	0.02
236588_10124_Cal2	5.000	4.946	0.054	102351.56	1.08
236589_10124_Cal3	50.000	50.206	0.206	1023034.14	0.41
236590_10124_Cal4	250.000	257.931	7.931	5248569.15	3.17
236591_10124_Cal5	500.000	482.242	17.758	9811510.02	3.55

208Pb FQ Block 1

Intercept CPS=2021.713090 Intercept Conc=0.073528
Sensitivity=27495.845765 Correlation Coeff=0.998099

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	0.000	0.000	2033.14	0.00
236587_10124_Cal1	1.000	1.013	0.013	29864.92	1.26
236588_10124_Cal2	5.000	4.902	0.098	136795.04	1.97
236589_10124_Cal3	50.000	49.054	0.946	1350792.79	1.89
236590_10124_Cal4	250.000	271.491	21.491	7466910.01	8.60
236591_10124_Cal5	500.000	480.068	19.932	13201893.19	3.99

238U FQ Block 1

Intercept CPS=1937.439550 Intercept Conc=0.058971
Sensitivity=32854.068861 Correlation Coeff=0.999821

Label	Defined	Measured	Error	Mean CPS	% Error
236586_10124_Cal0	0.000	-0.000	0.000	1934.91	0.00
236587_10124_Cal1	1.000	0.998	0.002	34725.36	0.20
236588_10124_Cal2	5.000	5.008	0.008	166479.63	0.17
236589_10124_Cal3	50.000	49.740	0.260	1636113.62	0.52
236590_10124_Cal4	250.000	252.693	2.693	8303922.64	1.08
236591_10124_Cal5	500.000	485.969	14.031	15967990.59	2.81

Dilution Corrected Concentrations

236586_10124_Cal0 10/3/2019 1:54:54 PM

User Pre-dilution: 1.000

user file upload: 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	13:54:58	0.018	0.061	0.221	-0.251	0.321	1.609	-0.756	0.280	241.500	<u>1956000.000</u>
2	13:55:01	0.010	0.016	-0.099	-1.394	-0.131	1.003	-0.426	-5.927	214.200	<u>1927000.000</u>
3	13:55:05	0.041	0.065	0.059	-1.881	-0.021	0.631	-0.932	2.807	198.700	<u>1932000.000</u>
x		0.023	0.047	0.060	-1.175	0.056	1.081	-0.705	-0.947	218.100	<u>1938000.000</u>
σ		0.016	0.027	0.160	0.837	0.235	0.494	0.257	4.494	21.670	<u>15420.000</u>
%RSD		71.130	57.820	266.900	71.210	417.700	45.660	36.440	474.700	9.935	<u>0.796</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	13:54:58	1.378	-0.753	99.383%	98.927%	-0.039	0.288	-0.003	12.340	-0.200	0.031
2	13:55:01	-0.584	-0.880	100.218%	100.439%	-0.041	0.213	0.002	12.230	0.712	0.008
3	13:55:05	0.826	1.975	100.399%	100.634%	0.040	0.095	0.012	12.910	0.289	0.015
x		0.540	0.114	100.000%	100.000%	-0.014	0.199	0.004	12.490	0.267	0.018
σ		1.012	1.613	0.542%	0.935%	0.046	0.097	0.008	0.366	0.456	0.012
%RSD		187.400	1415.000	0.542	0.935	339.600	48.870	202.000	2.933	170.900	66.270
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:58	0.002	0.011	0.022	-0.050	98.643%	0.044	0.008	0.002	99.090%	0.003
2	13:55:01	-0.001	-0.001	0.006	-0.079	100.611%	-0.070	0.000	0.008	100.292%	-0.000
3	13:55:05	0.006	-0.005	0.021	-0.024	100.746%	-0.029	-0.014	0.001	100.618%	0.000
x		0.002	0.002	0.016	-0.051	100.000%	-0.018	-0.002	0.004	100.000%	0.001
σ		0.004	0.009	0.009	0.027	1.177%	0.058	0.011	0.004	0.804%	0.001
%RSD		146.800	521.900	53.310	53.440	1.177	316.000	608.400	113.800	0.804	162.100
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:58	0.004	-0.014	0.000	0.006	98.410%	-0.003	0.004	-0.016	<u>99.415%</u>	0.001
2	13:55:01	0.003	0.003	-0.001	-0.014	100.320%	0.015	-0.011	0.018	<u>100.408%</u>	0.001
3	13:55:05	-0.002	0.009	0.000	-0.004	101.270%	0.020	-0.009	0.021	<u>100.177%</u>	-0.002
x		0.002	-0.001	-0.000	-0.004	100.000%	0.011	-0.005	0.008	<u>100.000%</u>	0.000
σ		0.003	0.012	0.001	0.010	1.456%	0.012	0.008	0.021	<u>0.520%</u>	0.002
%RSD		176.100	2064.000	372.300	249.500	1.456	110.300	144.900	270.800	<u>0.520</u>	561.900
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:54:58	0.000	0.005	0.003	98.700%	-0.001					
2	13:55:01	-0.000	0.001	-0.002	100.161%	0.002					
3	13:55:05	-0.000	-0.003	-0.000	101.139%	-0.001					
x		0.000	0.001	0.000	100.000%	-0.000					
σ		0.000	0.004	0.003	1.228%	0.002					
%RSD		4530.000	419.100	656.900	1.228	1983.000					

236587_10124_Cal1 10/3/2019 2:02:02 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	14:02:06	0.840	1.021	1.019	256.400	247.800	259.600	55.290	41.440	234.900	±2087000.000
2	14:02:09	0.809	1.007	1.569	262.200	250.600	250.300	54.140	65.500	236.800	±2074000.000
3	14:02:13	0.948	1.009	1.030	258.600	250.800	251.600	55.350	45.090	209.600	±2067000.000
x		0.866	1.012	1.206	259.100	249.700	253.800	54.930	50.680	227.100	±2076000.000
σ		0.073	0.008	0.314	2.921	1.647	5.071	0.684	12.970	15.170	±10010.000
%RSD		8.387	0.741	26.060	1.127	0.660	1.998	1.244	25.590	6.679	±0.482
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	14:02:06	251.500	213.600	95.223%	97.449%	0.702	0.985	1.017	12.160	250.700	0.964
2	14:02:09	257.400	271.700	96.524%	97.533%	0.940	1.042	0.925	11.770	248.800	0.984
3	14:02:13	256.400	269.500	97.199%	99.185%	0.875	1.008	0.943	12.040	246.700	0.998
x		255.100	251.600	96.315%	98.055%	0.839	1.012	0.962	11.990	248.700	0.982
σ		3.166	32.910	1.004%	0.979%	0.123	0.029	0.049	0.199	1.994	0.017
%RSD		1.241	13.080	1.043	0.999	14.680	2.876	5.068	1.656	0.802	1.728
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:06	0.965	0.962	1.038	1.541	95.016%	1.055	0.977	0.977	94.706%	0.939
2	14:02:09	0.962	0.999	1.024	1.587	97.242%	0.953	1.238	0.987	96.655%	0.967
3	14:02:13	0.987	1.015	1.068	1.662	98.571%	1.002	0.907	1.014	97.040%	0.972
x		0.971	0.992	1.043	1.597	96.943%	1.003	1.041	0.993	96.134%	0.959
σ		0.013	0.027	0.023	0.061	1.796%	0.051	0.174	0.019	1.251%	0.018
%RSD		1.389	2.764	2.159	3.803	1.853	5.060	16.750	1.955	1.302	1.849
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:06	0.961	0.996	0.524	1.144	97.492%	1.023	0.958	1.072	±99.306%	0.995
2	14:02:09	0.915	0.974	0.503	1.033	99.308%	1.064	0.979	0.916	±99.161%	1.007
3	14:02:13	0.941	0.967	0.540	1.002	99.786%	1.014	1.015	1.014	±99.965%	0.988
x		0.939	0.979	0.523	1.060	98.862%	1.034	0.984	1.001	±99.477%	0.997
σ		0.023	0.015	0.019	0.074	1.210%	0.026	0.029	0.079	±0.429%	0.010
%RSD		2.428	1.511	3.551	7.027	1.224	2.546	2.931	7.896	±0.431	0.967
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:02:06	0.185	0.992	1.019	95.964%	1.009					
2	14:02:09	0.166	1.010	0.999	98.269%	1.002					
3	14:02:13	0.207	0.999	1.021	99.845%	0.982					
x		0.186	1.000	1.013	98.026%	0.998					
σ		0.021	0.009	0.012	1.952%	0.014					
%RSD		11.090	0.927	1.213	1.992	1.390					

236588_10124_Cal2 10/3/2019 2:09:09 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	14:09:12	4.609	4.768	5.233	520.900	487.400	498.300	260.000	276.600	227.900	<u>12017000.000</u>
2	14:09:16	4.619	4.735	5.422	513.500	493.700	496.800	249.800	239.400	245.700	<u>11975000.000</u>
3	14:09:20	4.460	4.793	4.209	510.600	490.800	497.400	256.800	269.800	229.000	<u>11977000.000</u>
x		4.563	4.765	4.955	515.000	490.700	497.500	255.500	261.900	234.200	<u>11990000.000</u>
σ		0.089	0.029	0.652	5.290	3.137	0.724	5.223	19.780	10.010	<u>123950.000</u>
%RSD		1.955	0.609	13.160	1.027	0.639	0.145	2.044	7.551	4.274	<u>11.204</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	14:09:12	495.000	446.000	94.459%	94.810%	5.294	4.959	4.953	11.350	496.300	4.891
2	14:09:16	498.200	415.000	95.955%	96.122%	5.089	4.880	4.863	10.690	490.900	4.775
3	14:09:20	495.000	478.600	95.579%	96.260%	5.215	4.993	4.834	10.210	492.700	4.785
x		496.100	446.500	95.331%	95.731%	5.199	4.944	4.883	10.750	493.300	4.817
σ		1.866	31.820	0.778%	0.800%	0.104	0.058	0.062	0.571	2.759	0.064
%RSD		0.376	7.127	0.816	0.836	1.992	1.163	1.269	5.315	0.559	1.329
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:09:12	4.920	4.819	4.962	5.034	93.799%	5.045	5.075	4.872	94.014%	4.941
2	14:09:16	4.936	5.005	4.936	5.030	96.446%	4.836	5.552	4.860	95.325%	4.925
3	14:09:20	4.774	4.960	4.949	5.075	97.650%	4.947	5.335	4.817	96.077%	4.909
x		4.877	4.928	4.949	5.046	95.965%	4.943	5.321	4.850	95.138%	4.925
σ		0.090	0.097	0.013	0.025	1.970%	0.105	0.239	0.029	1.044%	0.016
%RSD		1.839	1.970	0.264	0.494	2.053	2.122	4.491	0.606	1.097	0.324
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:09:12	4.925	5.164	2.571	5.012	97.699%	5.002	5.040	4.842	<u>192.555%</u>	4.888
2	14:09:16	4.973	5.097	2.535	5.263	99.607%	4.989	5.010	5.004	<u>192.833%</u>	4.885
3	14:09:20	4.904	5.094	2.523	5.265	100.650%	4.991	5.022	4.971	<u>192.327%</u>	4.949
x		4.934	5.118	2.543	5.180	99.319%	4.994	5.024	4.939	<u>192.572%</u>	4.907
σ		0.035	0.039	0.025	0.146	1.497%	0.007	0.015	0.085	<u>10.253%</u>	0.036
%RSD		0.719	0.770	0.979	2.812	1.507	0.137	0.303	1.730	<u>10.273</u>	0.731
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:09:12	0.457	4.923	4.914	99.225%	5.017					
2	14:09:16	0.481	4.940	4.920	101.506%	5.015					
3	14:09:20	0.489	4.974	4.870	102.075%	4.993					
x		0.476	4.946	4.902	100.935%	5.008					
σ		0.017	0.026	0.027	1.508%	0.014					
%RSD		3.603	0.525	0.556	1.494	0.271					

236589_10124_Cal3 10/3/2019 2:16:17 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	14:16:20	45.380	49.520	48.300	2679.000	2557.000	2563.000	2488.000	2532.000	213.200	<u>2112000.000</u>
2	14:16:24	46.300	48.720	46.300	2626.000	2489.000	2523.000	2507.000	2521.000	213.400	<u>2062000.000</u>
3	14:16:27	46.760	48.730	46.860	2612.000	2479.000	2520.000	2488.000	2473.000	205.000	<u>2072000.000</u>
x		46.150	48.990	47.150	2639.000	2508.000	2535.000	2494.000	2509.000	210.600	<u>2082000.000</u>
σ		0.700	0.459	1.033	35.370	42.300	24.250	10.940	31.540	4.786	<u>26460.000</u>
%RSD		1.516	0.938	2.190	1.341	1.686	0.957	0.439	1.257	2.273	<u>1.271</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	14:16:20	2544.000	2610.000	93.001%	93.425%	48.290	48.090	48.860	19.260	2499.000	48.780
2	14:16:24	2504.000	2483.000	96.037%	94.412%	47.930	47.680	48.900	16.830	2496.000	48.440
3	14:16:27	2527.000	2500.000	96.424%	94.308%	45.900	48.280	48.460	18.200	2487.000	48.260
x		2525.000	2531.000	95.154%	94.048%	47.370	48.020	48.740	18.100	2494.000	48.500
σ		19.850	68.790	1.874%	0.543%	1.288	0.311	0.243	1.223	6.195	0.264
%RSD		0.786	2.718	1.970	0.577	2.720	0.647	0.498	6.758	0.248	0.544
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:16:20	48.690	49.630	49.960	49.990	94.370%	50.230	52.550	48.610	94.559%	49.450
2	14:16:24	48.130	48.890	49.680	49.760	97.343%	50.010	51.100	48.170	96.806%	49.420
3	14:16:27	48.460	49.140	49.880	49.620	98.037%	50.220	51.520	48.370	97.596%	49.840
x		48.430	49.220	49.840	49.790	96.583%	50.150	51.720	48.380	96.320%	49.570
σ		0.281	0.380	0.143	0.186	1.948%	0.123	0.742	0.224	1.575%	0.233
%RSD		0.580	0.771	0.286	0.374	2.017	0.245	1.434	0.463	1.636	0.469
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:16:20	49.780	51.120	25.630	52.550	97.449%	49.820	50.230	49.240	<u>93.893%</u>	49.940
2	14:16:24	49.430	50.460	25.690	51.870	100.921%	49.430	50.240	48.830	<u>95.672%</u>	49.950
3	14:16:27	49.770	50.370	25.560	52.340	101.866%	50.030	49.930	48.630	<u>95.936%</u>	49.800
x		49.660	50.650	25.630	52.250	100.079%	49.760	50.130	48.900	<u>95.167%</u>	49.900
σ		0.196	0.409	0.065	0.344	2.326%	0.301	0.178	0.314	<u>1.111%</u>	0.085
%RSD		0.394	0.808	0.252	0.658	2.324	0.605	0.354	0.642	<u>1.168</u>	0.171
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:16:20	0.974	50.170	49.340	98.741%	50.150					
2	14:16:24	1.041	50.350	49.040	101.652%	49.780					
3	14:16:27	0.896	50.100	48.780	103.304%	49.290					
x		0.970	50.210	49.050	101.233%	49.740					
σ		0.073	0.125	0.280	2.311%	0.435					
%RSD		7.512	0.249	0.570	2.283	0.874					

236590_10124_Cal4

10/3/2019 2:23:22 PM

User Pre-dilution: 1.000

Use Pre-Validation: 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	14:23:26	255.700	260.600	267.500	<u>13120.000</u>	12870.000	12960.000	12650.000	12780.000	201.400	<u>2461000.000</u>
2	14:23:29	254.400	261.000	267.300	<u>12810.000</u>	12680.000	12840.000	12610.000	12890.000	202.400	<u>2409000.000</u>
3	14:23:33	251.500	258.400	256.300	<u>12620.000</u>	12550.000	12730.000	12480.000	12570.000	204.100	<u>2387000.000</u>
x		253.900	260.000	263.700	<u>12850.000</u>	12700.000	12840.000	12580.000	12750.000	202.600	<u>2419000.000</u>
σ		2.138	1.401	6.424	<u>252.100</u>	161.200	116.500	88.050	158.900	1.346	<u>37680.000</u>
%RSD		0.842	0.539	2.436	<u>1.962</u>	1.269	0.907	0.700	1.247	0.664	<u>1.558</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	14:23:26	<u>14020.000</u>	13170.000	97.564%	101.058%	250.700	251.500	254.900	49.400	12700.000	253.100
2	14:23:29	<u>13690.000</u>	12510.000	100.673%	99.252%	249.200	250.000	252.000	54.080	12670.000	250.100
3	14:23:33	<u>13560.000</u>	12370.000	101.625%	97.571%	250.200	251.500	253.800	42.470	12610.000	250.700
x		<u>13760.000</u>	12680.000	99.954%	99.293%	250.000	251.000	253.600	48.650	12660.000	251.300
σ		<u>238.100</u>	428.600	2.124%	1.744%	0.731	0.897	1.433	5.840	46.010	1.566
%RSD		<u>1.731</u>	3.380	2.125	1.756	0.292	0.357	0.565	12.010	0.363	0.623
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:26	252.100	254.500	256.400	251.300	98.929%	249.600	258.400	251.200	98.703%	258.200
2	14:23:29	250.900	251.700	254.500	250.500	102.191%	250.000	256.900	251.800	101.644%	256.000
3	14:23:33	251.400	253.300	255.500	253.000	102.507%	251.900	257.000	251.900	101.849%	257.200
x		251.500	253.200	255.400	251.600	101.209%	250.500	257.400	251.600	100.732%	257.100
σ		0.612	1.400	0.951	1.311	1.981%	1.239	0.841	0.397	1.760%	1.076
%RSD		0.243	0.553	0.372	0.521	1.957	0.495	0.327	0.158	1.747	0.418
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:26	258.100	257.100	129.700	262.800	102.449%	254.200	252.600	250.200	<u>97.491%</u>	261.500
2	14:23:29	256.800	256.600	129.800	262.100	105.276%	255.000	254.900	253.600	<u>98.342%</u>	261.800
3	14:23:33	260.300	257.300	129.400	260.100	105.772%	256.000	255.700	254.000	<u>97.723%</u>	264.600
x		258.400	257.000	129.600	261.600	104.499%	255.100	254.400	252.600	<u>97.852%</u>	262.600
σ		1.783	0.407	0.237	1.406	1.792%	0.910	1.609	2.126	<u>0.440%</u>	1.705
%RSD		0.690	0.158	0.183	0.537	1.715	0.357	0.632	0.842	<u>0.450</u>	0.649
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:23:26	9.883	<u>262.200</u>	<u>273.800</u>	98.535%	<u>258.100</u>					
2	14:23:29	10.230	<u>254.800</u>	<u>270.300</u>	102.326%	<u>252.000</u>					
3	14:23:33	10.100	<u>256.800</u>	<u>270.300</u>	102.220%	<u>248.000</u>					
x		10.070	<u>257.900</u>	<u>271.500</u>	101.027%	<u>252.700</u>					
σ		0.177	<u>3.838</u>	<u>2.021</u>	2.159%	<u>5.073</u>					
%RSD		1.758	<u>1.488</u>	<u>0.744</u>	2.137	<u>2.007</u>					

236591_10124_Cal5

10/3/2019 2:30:30 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	14:30:33	M 510.000	M 500.900	M 507.000	T 23310.000	M 25460.000	M 25650.000	24300.000	M 25050.000	192.500	T 2711000.000
2	14:30:37	M 510.300	M 509.600	M 518.600	T 22950.000	M 25220.000	M 25640.000	24500.000	24910.000	234.300	T 2653000.000
3	14:30:41	M 516.300	M 508.100	M 500.400	T 22870.000	M 25220.000	M 25490.000	24160.000	24930.000	204.100	T 2630000.000
X		M 512.200	M 506.200	M 508.600	T 23050.000	M 25300.000	M 25590.000	24320.000	M 24970.000	210.300	T 2665000.000
σ		M 3.558	M 4.675	M 9.190	T 235.700	M 138.600	M 89.170	168.900	M 75.840	21.530	T 41950.000
%RSD		M 0.695	M 0.923	M 1.807	T 1.023	M 0.548	M 0.348	0.694	M 0.304	10.240	T 1.575
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	14:30:33	TM 25390.000	M 25150.000	100.170%	94.021%	M 506.100	M 509.700	M 511.500	84.060	TM 25230.000	M 506.700
2	14:30:37	T 24850.000	24810.000	102.209%	93.394%	492.500	M 507.000	M 506.900	88.930	T 24520.000	M 506.800
3	14:30:41	T 24740.000	M 25030.000	103.370%	93.573%	497.200	M 505.400	M 508.100	87.770	T 24680.000	M 504.100
X		TM 25000.000	M 25000.000	101.916%	93.662%	M 498.600	M 507.300	M 508.800	86.920	TM 24810.000	M 505.900
σ		TM 347.500	M 176.200	1.620%	0.323%	M 6.907	M 2.160	M 2.355	2.546	TM 373.600	M 1.539
%RSD		TM 1.390	M 0.705	1.589	0.345	M 1.385	M 0.426	M 0.463	2.929	TM 1.506	M 0.304
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:33	M 506.100	497.700	M 502.300	490.600	100.624%	486.800	493.600	M 500.900	102.197%	M 505.200
2	14:30:37	M 503.200	496.800	M 501.300	486.400	103.465%	483.400	492.600	499.700	104.820%	M 503.900
3	14:30:41	M 500.800	M 501.800	M 505.600	494.400	102.751%	490.200	494.700	498.600	106.100%	M 501.400
X		M 503.400	M 498.800	M 503.000	490.400	102.280%	486.800	493.600	M 499.700	104.372%	M 503.500
σ		M 2.637	M 2.652	M 2.219	4.004	1.478%	3.408	1.067	M 1.140	1.990%	M 1.940
%RSD		M 0.524	M 0.532	M 0.441	0.817	1.445	0.700	0.216	M 0.228	1.907	M 0.385
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:33	M 508.300	493.000	247.500	496.900	108.026%	496.100	492.900	M 517.100	T 92.056%	T 455.200
2	14:30:37	M 509.200	492.900	247.500	495.300	111.261%	496.000	493.400	M 523.700	T 91.066%	M 529.400
3	14:30:41	M 501.200	493.900	247.100	496.800	111.791%	498.500	495.900	M 526.800	T 90.891%	M 528.400
X		M 506.200	493.300	247.400	496.300	110.359%	496.900	494.000	M 522.500	T 91.338%	TM 504.300
σ		M 4.390	0.551	0.215	0.862	2.038%	1.393	1.624	M 4.965	T 0.628%	TM 42.540
%RSD		M 0.867	0.112	0.087	0.174	1.847	0.280	0.329	M 0.950	T 0.688	TM 8.435
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:30:33	M 25.000	T 487.200	T 480.900	101.043%	T 493.300					
2	14:30:37	M 25.200	T 481.800	T 471.000	103.178%	T 483.000					
3	14:30:41	24.890	T 477.700	T 488.300	104.486%	T 481.600					
X		M 25.030	T 482.200	T 480.100	102.903%	T 486.000					
σ		M 0.159	T 4.746	T 8.675	1.738%	T 6.380					
%RSD		M 0.635	T 0.984	T 1.807	1.689	T 1.313					

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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	14:37:41	102.400	107.100	105.800	5981.000	5660.000	5613.000	5654.000	5803.000	207.400	<u>2032000.000</u>
2	14:37:45	102.200	107.100	107.600	5886.000	5547.000	5598.000	5598.000	5726.000	182.400	<u>1983000.000</u>
3	14:37:48	102.600	108.300	105.100	5913.000	5623.000	5599.000	5646.000	5777.000	188.800	<u>1993000.000</u>
x		102.400	107.500	106.200	5927.000	5610.000	5603.000	5633.000	5768.000	192.900	<u>2003000.000</u>
σ		0.178	0.651	1.302	49.010	57.680	8.469	30.350	39.230	13.020	<u>25900.000</u>
%RSD		0.174	0.606	1.226	0.827	1.028	0.151	0.539	0.680	6.749	<u>1.293</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	14:37:41	5613.000	5682.000	100.566%	100.232%	107.600	108.800	108.600	24.100	5517.000	106.400
2	14:37:45	5574.000	5422.000	104.111%	99.977%	104.600	107.300	107.200	26.580	5506.000	106.200
3	14:37:48	5612.000	5647.000	103.757%	101.336%	106.400	107.800	107.900	26.310	5521.000	106.700
x		5600.000	5584.000	102.812%	100.515%	106.200	108.000	107.900	25.670	5515.000	106.400
σ		22.180	141.300	1.952%	0.722%	1.531	0.741	0.671	1.360	7.666	0.293
%RSD		0.396	2.531	1.899	0.719	1.442	0.686	0.622	5.299	0.139	0.275
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:41	107.700	108.400	110.300	109.300	100.990%	106.300	112.600	106.500	100.134%	110.000
2	14:37:45	106.700	107.200	108.600	109.900	105.231%	105.400	111.600	107.000	103.316%	109.700
3	14:37:48	106.700	107.800	109.300	108.500	106.251%	104.900	113.200	106.300	103.825%	109.900
x		107.000	107.800	109.400	109.200	104.158%	105.500	112.500	106.600	102.425%	109.900
σ		0.562	0.572	0.844	0.705	2.790%	0.707	0.782	0.320	2.001%	0.149
%RSD		0.525	0.530	0.772	0.645	2.679	0.670	0.695	0.300	1.953	0.135
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:41	102.100	105.400	56.230	114.900	102.561%	111.500	111.500	107.000	<u>97.728%</u>	107.200
2	14:37:45	102.600	105.700	56.080	113.100	106.308%	111.200	111.900	107.100	<u>98.359%</u>	107.800
3	14:37:48	101.900	104.500	55.650	114.600	106.867%	110.800	111.300	108.900	<u>98.307%</u>	108.100
x		102.200	105.200	55.990	114.200	105.245%	111.200	111.500	107.700	<u>98.132%</u>	107.700
σ		0.336	0.636	0.302	0.969	2.341%	0.358	0.287	1.078	<u>0.350%</u>	0.465
%RSD		0.329	0.604	0.539	0.848	2.225	0.322	0.258	1.001	<u>0.357</u>	0.431
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:37:41	3.978	106.600	106.600	100.346%	<u>112.800</u>					
2	14:37:45	4.118	108.100	106.500	104.740%	<u>109.000</u>					
3	14:37:48	3.786	107.700	107.200	104.466%	<u>109.400</u>					
x		3.961	107.500	106.800	103.184%	<u>110.400</u>					
σ		0.167	0.729	0.373	2.462%	<u>2.124</u>					
%RSD		4.205	0.678	0.349	2.386	<u>1.924</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	14:44:50	0.210	0.194	1.115	2.317	3.408	4.855	3.693	2.137	174.900	<u>1929000.000</u>
2	14:44:53	0.165	0.160	0.705	0.955	4.662	3.745	2.010	9.529	179.700	<u>1890000.000</u>
3	14:44:57	0.171	0.135	1.166	-0.312	1.585	3.735	0.429	-7.595	186.400	<u>1894000.000</u>
x		0.182	0.163	0.996	0.987	3.219	4.111	2.044	1.357	180.300	<u>1904000.000</u>
σ		0.024	0.030	0.253	1.315	1.547	0.644	1.633	8.589	5.793	<u>21360.000</u>
%RSD		13.470	18.190	25.370	133.200	48.070	15.650	79.880	632.800	3.213	<u>1.122</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	14:44:50	-3.001	9.367	102.007%	101.148%	0.247	0.204	0.061	9.350	3.968	0.106
2	14:44:53	4.921	1.163	104.626%	102.914%	-0.106	0.176	0.068	9.439	2.556	0.085
3	14:44:57	0.371	3.833	105.423%	103.315%	-0.054	0.116	0.067	9.938	2.072	0.073
x		0.764	4.788	104.019%	102.459%	0.029	0.165	0.065	9.576	2.865	0.088
σ		3.975	4.184	1.787%	1.153%	0.191	0.045	0.004	0.317	0.985	0.017
%RSD		520.600	87.400	1.718	1.125	660.000	27.350	6.054	3.312	34.380	18.880
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:50	0.088	0.093	0.133	-0.058	101.746%	0.012	0.108	0.094	99.172%	0.080
2	14:44:53	0.056	0.086	0.097	-0.065	102.765%	0.054	0.036	0.049	101.627%	0.045
3	14:44:57	0.046	0.102	0.063	0.014	103.725%	0.018	0.029	0.040	101.777%	0.024
x		0.063	0.093	0.098	-0.037	102.745%	0.028	0.058	0.061	100.859%	0.050
σ		0.022	0.008	0.035	0.044	0.989%	0.023	0.044	0.029	1.463%	0.028
%RSD		34.530	8.676	35.630	120.000	0.963	82.470	75.340	47.050	1.451	56.510
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:50	0.094	0.097	0.060	0.107	98.574%	0.124	0.080	0.124	<u>99.956%</u>	0.078
2	14:44:53	0.065	0.050	0.026	0.076	100.658%	0.094	0.068	0.052	<u>100.069%</u>	0.049
3	14:44:57	0.046	0.008	0.031	0.058	101.860%	0.092	0.038	0.067	<u>98.765%</u>	0.044
x		0.068	0.052	0.039	0.080	100.364%	0.103	0.062	0.081	<u>99.596%</u>	0.057
σ		0.024	0.045	0.018	0.025	1.663%	0.018	0.022	0.038	<u>0.722%</u>	0.019
%RSD		35.230	86.650	45.850	30.980	1.657	17.740	35.250	46.510	<u>0.725</u>	32.720
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:44:50	0.035	0.176	0.101	97.777%	0.081					
2	14:44:53	0.014	0.149	0.071	100.470%	0.049					
3	14:44:57	0.019	0.119	0.047	100.162%	0.032					
x		0.023	0.148	0.073	99.470%	0.054					
σ		0.011	0.029	0.027	1.474%	0.025					
%RSD		46.630	19.400	36.860	1.482	46.240					

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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	14:51:58	1.066	0.938	1.604	260.700	239.200	250.600	51.810	49.600	177.600	1986000.000
2	14:52:01	0.958	1.042	1.067	262.700	255.600	254.800	53.820	63.600	209.300	2000000.000
3	14:52:05	0.923	1.008	1.212	263.000	252.100	251.800	51.540	49.990	180.200	1963000.000
x		0.983	0.996	1.294	262.100	249.000	252.400	52.390	54.400	189.000	1983000.000
σ		0.075	0.053	0.278	1.222	8.682	2.149	1.246	7.971	17.580	18330.000
%RSD		7.606	5.371	21.470	0.466	3.487	0.851	2.379	14.650	9.302	0.924
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	14:51:58	245.800	259.100	103.823%	102.594%	0.697	0.952	0.994	10.900	240.300	0.975
2	14:52:01	256.400	288.900	104.000%	104.173%	1.088	0.899	1.043	11.190	247.600	0.983
3	14:52:05	250.900	278.200	105.009%	104.583%	1.204	1.030	1.052	10.730	246.700	1.009
x		251.000	275.400	104.277%	103.783%	0.996	0.960	1.030	10.940	244.900	0.989
σ		5.319	15.100	0.640%	1.050%	0.265	0.066	0.031	0.235	3.964	0.018
%RSD		2.119	5.484	0.613	1.012	26.640	6.846	3.034	2.149	1.618	1.825
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:58	0.982	1.059	1.047	1.578	100.372%	0.956	1.238	1.083	100.051%	0.966
2	14:52:01	0.993	0.995	1.074	1.588	102.283%	0.996	1.043	0.997	102.753%	0.968
3	14:52:05	1.019	1.093	1.077	1.467	105.000%	1.058	1.090	0.975	102.424%	0.961
x		0.998	1.049	1.066	1.544	102.552%	1.003	1.124	1.018	101.743%	0.965
σ		0.019	0.050	0.016	0.067	2.326%	0.052	0.102	0.057	1.474%	0.004
%RSD		1.943	4.733	1.513	4.338	2.268	5.165	9.053	5.606	1.449	0.403
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:58	0.983	0.942	0.507	1.070	101.513%	1.008	1.031	1.045	94.783%	1.082
2	14:52:01	0.946	1.017	0.531	1.105	104.476%	1.021	1.054	1.029	94.525%	1.007
3	14:52:05	1.037	0.997	0.540	1.048	104.732%	1.034	1.022	1.062	94.288%	1.058
x		0.989	0.985	0.526	1.074	103.573%	1.021	1.036	1.045	94.532%	1.049
σ		0.046	0.039	0.017	0.029	1.789%	0.013	0.016	0.016	0.247%	0.038
%RSD		4.656	3.951	3.236	2.674	1.727	1.238	1.561	1.573	0.262	3.619
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:51:58	0.176	1.035	1.014	99.030%	1.010					
2	14:52:01	0.193	1.042	1.007	101.802%	1.012					
3	14:52:05	0.190	1.045	1.026	102.581%	1.012					
x		0.186	1.041	1.015	101.137%	1.011					
σ		0.009	0.005	0.010	1.867%	0.001					
%RSD		4.947	0.466	0.943	1.846	0.096					

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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	14:59:04	4.595	4.760	5.222	528.900	507.800	509.900	249.400	237.000	212.600	<u>2125000.000</u>
2	14:59:08	4.852	4.487	5.450	526.400	493.200	503.600	250.600	270.600	187.200	<u>2089000.000</u>
3	14:59:12	4.672	5.019	4.610	525.100	517.300	506.500	254.200	255.500	188.000	<u>2090000.000</u>
x		4.706	4.755	5.094	526.800	506.100	506.700	251.400	254.400	195.900	<u>2101000.000</u>
σ		0.132	0.266	0.434	1.940	12.130	3.151	2.487	16.830	14.440	<u>20860.000</u>
%RSD		2.803	5.602	8.528	0.368	2.396	0.622	0.989	6.616	7.372	<u>0.993</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	14:59:04	502.500	494.400	102.378%	103.037%	5.069	5.086	4.867	11.310	495.400	4.735
2	14:59:08	503.800	492.700	104.333%	104.712%	5.153	4.935	4.967	11.050	491.700	4.762
3	14:59:12	498.400	520.000	104.190%	105.013%	4.842	4.990	4.916	11.580	486.300	4.767
x		501.600	502.400	103.634%	104.254%	5.021	5.004	4.917	11.310	491.100	4.755
σ		2.849	15.290	1.090%	1.065%	0.161	0.076	0.050	0.263	4.605	0.018
%RSD		0.568	3.043	1.052	1.021	3.202	1.520	1.019	2.326	0.938	0.369
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:04	4.846	4.942	5.031	4.935	102.082%	5.163	5.201	4.827	99.328%	4.972
2	14:59:08	4.946	4.917	5.005	5.022	102.837%	4.903	5.885	4.812	100.694%	4.974
3	14:59:12	4.838	5.234	5.106	4.861	103.815%	5.065	5.633	4.816	101.746%	4.906
x		4.877	5.031	5.047	4.939	102.911%	5.043	5.573	4.818	100.589%	4.951
σ		0.060	0.176	0.052	0.081	0.869%	0.131	0.346	0.007	1.213%	0.039
%RSD		1.235	3.498	1.035	1.640	0.844	2.601	6.206	0.156	1.206	0.781
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:04	5.112	5.101	2.611	5.172	100.331%	5.091	5.034	4.755	<u>99.216%</u>	4.866
2	14:59:08	4.912	5.126	2.634	5.279	102.099%	4.927	5.051	4.897	<u>100.061%</u>	4.949
3	14:59:12	4.842	5.139	2.652	5.295	102.821%	5.055	5.039	4.876	<u>100.820%</u>	5.017
x		4.956	5.122	2.632	5.249	101.750%	5.024	5.041	4.843	<u>100.032%</u>	4.944
σ		0.140	0.019	0.020	0.067	1.281%	0.086	0.009	0.077	<u>0.802%</u>	0.076
%RSD		2.829	0.379	0.776	1.267	1.259	1.710	0.183	1.589	<u>0.802</u>	1.529
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:59:04	0.458	4.954	4.896	96.981%	4.873					
2	14:59:08	0.534	4.960	4.908	98.664%	4.852					
3	14:59:12	0.568	4.980	4.942	99.165%	4.912					
x		0.520	4.965	4.915	98.270%	4.879					
σ		0.056	0.013	0.024	1.144%	0.030					
%RSD		10.830	0.271	0.492	1.164	0.621					

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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	15:06:12	0.209	-0.013	0.619	<u>TM 46940.000</u>	<u>M 47990.000</u>	<u>TM 47400.000</u>	6.451	<u>M 50120.000</u>	4893.000	<u>T 2029000.000</u>
2	15:06:16	0.276	-0.020	0.367	<u>TM 46470.000</u>	<u>M 48010.000</u>	<u>TM 46670.000</u>	3.338	<u>M 50590.000</u>	4879.000	<u>T 2000000.000</u>
3	15:06:20	0.205	0.007	1.216	<u>TM 46100.000</u>	<u>M 48130.000</u>	<u>TM 45920.000</u>	6.085	<u>M 50670.000</u>	4863.000	<u>T 1981000.000</u>
X		0.230	-0.009	0.734	<u>TM 46500.000</u>	<u>M 48040.000</u>	<u>TM 46660.000</u>	5.291	<u>M 50460.000</u>	4879.000	<u>T 2003000.000</u>
σ		0.040	0.014	0.436	<u>TM 419.800</u>	<u>M 75.880</u>	<u>TM 737.200</u>	1.702	<u>M 295.300</u>	14.990	<u>T 23970.000</u>
%RSD		17.290	161.700	59.360	<u>TM 0.903</u>	<u>M 0.158</u>	<u>TM 1.580</u>	32.160	<u>M 0.585</u>	0.307	<u>T 1.196</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	15:06:12	<u>TM 51260.000</u>	<u>M 49940.000</u>	89.280%	91.527%	<u>M 966.500</u>	-0.113	0.073	8.813	<u>TM 52710.000</u>	0.033
2	15:06:16	<u>TM 50850.000</u>	<u>M 49800.000</u>	90.041%	90.887%	<u>M 963.200</u>	-0.243	0.075	8.718	<u>TM 52340.000</u>	0.010
3	15:06:20	<u>TM 50710.000</u>	<u>M 51090.000</u>	89.319%	91.239%	<u>M 975.400</u>	-0.017	0.083	8.345	<u>TM 51450.000</u>	0.014
X		<u>TM 50940.000</u>	<u>M 50270.000</u>	89.547%	91.218%	<u>M 968.400</u>	-0.125	0.077	8.625	<u>TM 52170.000</u>	0.019
σ		<u>TM 287.300</u>	<u>M 705.800</u>	0.428%	0.321%	<u>M 6.270</u>	0.114	0.005	0.248	<u>TM 643.300</u>	0.012
%RSD		<u>TM 0.564</u>	<u>M 1.404</u>	0.478	0.351	<u>M 0.647</u>	91.280	7.059	2.870	<u>TM 1.233</u>	63.490
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:12	-0.014	0.056	0.145	-0.242	87.135%	0.013	-0.051	0.584	88.781%	0.039
2	15:06:16	-0.016	0.037	0.136	-0.216	86.643%	0.116	0.109	0.609	90.373%	0.047
3	15:06:20	0.006	0.073	0.157	-0.304	88.000%	0.057	0.131	0.591	90.396%	0.026
X		-0.008	0.056	0.146	-0.254	87.259%	0.062	0.063	0.595	89.850%	0.037
σ		0.012	0.018	0.011	0.045	0.687%	0.052	0.100	0.013	0.926%	0.011
%RSD		149.800	31.920	7.462	17.880	0.787	83.990	158.500	2.196	1.030	28.620
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:12	<u>M 1036.000</u>	-0.038	-0.024	-0.030	92.636%	0.110	0.018	0.075	<u>T 90.414%</u>	-0.044
2	15:06:16	<u>M 1042.000</u>	-0.020	-0.026	-0.039	94.632%	0.113	0.024	0.089	<u>T 89.301%</u>	-0.048
3	15:06:20	<u>M 1038.000</u>	-0.055	-0.018	-0.022	95.502%	0.126	0.033	0.076	<u>T 89.368%</u>	-0.045
X		<u>M 1038.000</u>	-0.038	-0.023	-0.030	94.256%	0.116	0.025	0.080	<u>T 89.694%</u>	-0.045
σ		<u>M 3.292</u>	0.018	0.004	0.008	1.469%	0.009	0.008	0.008	<u>T 0.624%</u>	0.002
%RSD		<u>M 0.317</u>	46.010	18.950	27.160	1.559	7.390	31.330	9.819	<u>T 0.696</u>	4.548
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:06:12	0.002	-0.030	0.001	90.008%	-0.045					
2	15:06:16	0.025	-0.035	-0.003	92.573%	-0.048					
3	15:06:20	0.012	-0.035	-0.003	93.580%	-0.048					
X		0.013	-0.033	-0.002	92.053%	-0.047					
σ		0.012	0.003	0.003	1.842%	0.001					
%RSD		90.840	9.144	138.800	2.001	2.983					

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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	15:13:20	88.860	87.570	91.500	<u>TM 45470.000</u>	<u>M 48280.000</u>	<u>TM 44250.000</u>	4755.000	<u>M 54660.000</u>	4804.000	<u>T 2069000.000</u>
2	15:13:24	87.220	88.290	89.310	<u>TM 45230.000</u>	<u>M 48450.000</u>	<u>TM 43940.000</u>	4785.000	<u>M 55330.000</u>	4842.000	<u>T 2043000.000</u>
3	15:13:28	87.800	88.300	89.720	<u>TM 44960.000</u>	<u>M 48130.000</u>	<u>TM 43660.000</u>	4739.000	<u>M 55280.000</u>	4804.000	<u>T 2028000.000</u>
X		<u>87.960</u>	<u>88.060</u>	<u>90.180</u>	<u>TM 45220.000</u>	<u>M 48290.000</u>	<u>TM 43950.000</u>	<u>4760.000</u>	<u>M 55090.000</u>	<u>4817.000</u>	<u>T 2047000.000</u>
σ		<u>0.827</u>	<u>0.417</u>	<u>1.166</u>	<u>TM 252.900</u>	<u>M 156.400</u>	<u>TM 297.500</u>	<u>23.570</u>	<u>M 372.800</u>	<u>22.110</u>	<u>T 20790.000</u>
%RSD		<u>0.940</u>	<u>0.473</u>	<u>1.293</u>	<u>TM 0.559</u>	<u>M 0.324</u>	<u>TM 0.677</u>	<u>0.495</u>	<u>M 0.677</u>	<u>0.459</u>	<u>T 1.016</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	15:13:20	<u>TM 50170.000</u>	<u>M 50490.000</u>	89.317%	86.563%	<u>M 1066.000</u>	94.830	95.740	23.510	<u>TM 50750.000</u>	96.520
2	15:13:24	<u>TM 49820.000</u>	<u>M 50380.000</u>	90.731%	86.518%	<u>M 1082.000</u>	95.640	95.140	26.910	<u>TM 50060.000</u>	96.940
3	15:13:28	<u>TM 49350.000</u>	<u>M 50320.000</u>	90.957%	86.572%	<u>M 1082.000</u>	96.310	96.210	22.080	<u>TM 50180.000</u>	97.720
X		<u>TM 49780.000</u>	<u>M 50400.000</u>	<u>90.335%</u>	<u>86.551%</u>	<u>M 1077.000</u>	<u>95.590</u>	<u>95.700</u>	<u>24.170</u>	<u>TM 50330.000</u>	<u>97.060</u>
σ		<u>TM 411.900</u>	<u>M 89.650</u>	<u>0.889%</u>	<u>0.029%</u>	<u>M 9.179</u>	<u>0.740</u>	<u>0.533</u>	<u>2.484</u>	<u>TM 369.700</u>	<u>0.611</u>
%RSD		<u>TM 0.827</u>	<u>M 0.178</u>	<u>0.984</u>	<u>0.033</u>	<u>M 0.853</u>	<u>0.774</u>	<u>0.556</u>	<u>10.280</u>	<u>TM 0.735</u>	<u>0.630</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:13:20	94.560	94.850	95.150	98.540	88.023%	99.550	103.600	97.720	90.932%	98.590
2	15:13:24	94.730	94.970	95.020	98.990	90.375%	100.100	103.400	98.240	92.529%	99.040
3	15:13:28	96.500	95.160	96.290	101.200	88.487%	101.700	108.100	98.410	92.887%	99.250
X		<u>95.260</u>	<u>95.000</u>	<u>95.490</u>	<u>99.570</u>	<u>88.962%</u>	<u>100.500</u>	<u>105.000</u>	<u>98.120</u>	<u>92.116%</u>	<u>98.960</u>
σ		<u>1.077</u>	<u>0.157</u>	<u>0.697</u>	<u>1.413</u>	<u>1.246%</u>	<u>1.121</u>	<u>2.656</u>	<u>0.361</u>	<u>1.041%</u>	<u>0.337</u>
%RSD		<u>1.130</u>	<u>0.166</u>	<u>0.730</u>	<u>1.419</u>	<u>1.400</u>	<u>1.116</u>	<u>2.529</u>	<u>0.367</u>	<u>1.130</u>	<u>0.341</u>
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:13:20	<u>M 1132.000</u>	97.840	48.330	99.270	96.640%	100.200	101.800	99.220	<u>T 85.658%</u>	104.100
2	15:13:24	<u>M 1134.000</u>	98.470	48.530	99.980	98.837%	100.700	102.400	100.500	<u>T 85.872%</u>	104.800
3	15:13:28	<u>M 1133.000</u>	98.110	48.410	99.960	99.409%	100.800	102.800	101.400	<u>T 85.685%</u>	105.700
X		<u>M 1133.000</u>	<u>98.140</u>	<u>48.420</u>	<u>99.740</u>	<u>98.295%</u>	<u>100.600</u>	<u>102.300</u>	<u>100.400</u>	<u>T 85.738%</u>	<u>104.900</u>
σ		<u>M 1.021</u>	<u>0.316</u>	<u>0.101</u>	<u>0.407</u>	<u>1.462%</u>	<u>0.326</u>	<u>0.510</u>	<u>1.118</u>	<u>T 0.117%</u>	<u>0.824</u>
%RSD		<u>M 0.090</u>	<u>0.322</u>	<u>0.209</u>	<u>0.408</u>	<u>1.487</u>	<u>0.324</u>	<u>0.498</u>	<u>1.114</u>	<u>T 0.136</u>	<u>0.786</u>
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:13:20	4.975	100.200	96.850	94.042%	<u>T 101.200</u>					
2	15:13:24	5.357	101.100	97.400	97.539%	<u>T 98.620</u>					
3	15:13:28	4.936	101.400	97.580	97.311%	<u>T 98.840</u>					
X		<u>5.089</u>	<u>100.900</u>	<u>97.280</u>	<u>96.297%</u>	<u>T 99.550</u>					
σ		<u>0.233</u>	<u>0.652</u>	<u>0.382</u>	<u>1.956%</u>	<u>T 1.415</u>					
%RSD		<u>4.579</u>	<u>0.646</u>	<u>0.393</u>	<u>2.031</u>	<u>T 1.422</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	15:20:28	94.670	95.720	93.460	5315.000	5028.000	5030.000	4982.000	5073.000	194.400	<u>2173000.000</u>
2	15:20:32	93.150	96.340	93.080	5235.000	5003.000	4999.000	4931.000	5042.000	203.900	<u>2102000.000</u>
3	15:20:36	93.270	96.850	92.860	5305.000	5021.000	4980.000	4953.000	4979.000	201.100	<u>2110000.000</u>
x		93.700	96.300	93.130	5285.000	5018.000	5003.000	4955.000	5031.000	199.800	<u>2129000.000</u>
σ		0.850	0.563	0.305	43.260	12.660	24.940	25.500	47.870	4.897	<u>38610.000</u>
%RSD		0.907	0.585	0.328	0.819	0.252	0.499	0.515	0.952	2.451	<u>1.814</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	15:20:28	5086.000	5079.000	97.347%	92.243%	95.880	97.150	99.240	28.950	4974.000	98.630
2	15:20:32	4968.000	4750.000	101.992%	93.016%	98.270	96.210	97.850	27.930	4924.000	97.540
3	15:20:36	5016.000	4985.000	101.901%	93.262%	96.700	97.140	98.810	23.750	4945.000	96.850
x		5023.000	4938.000	100.413%	92.840%	96.950	96.830	98.630	26.880	4948.000	97.680
σ		59.260	169.500	2.656%	0.531%	1.214	0.541	0.716	2.753	24.810	0.897
%RSD		1.180	3.433	2.645	0.572	1.252	0.558	0.726	10.240	0.501	0.918
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:20:28	98.350	100.600	101.700	101.100	97.996%	99.730	104.000	97.290	97.824%	100.100
2	15:20:32	98.320	99.640	100.300	100.600	102.029%	100.200	103.800	97.590	100.292%	100.600
3	15:20:36	98.440	100.300	102.100	100.300	103.515%	98.700	100.700	97.310	101.820%	100.300
x		98.370	100.200	101.400	100.700	101.180%	99.530	102.800	97.400	99.979%	100.300
σ		0.063	0.492	0.912	0.427	2.856%	0.759	1.888	0.170	2.017%	0.239
%RSD		0.064	0.491	0.900	0.424	2.823	0.762	1.836	0.174	2.017	0.238
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:20:28	101.200	103.500	52.380	105.400	100.197%	101.100	102.200	97.990	<u>96.282%</u>	102.600
2	15:20:32	101.900	102.400	52.130	104.800	104.483%	100.600	102.400	99.770	<u>97.636%</u>	103.900
3	15:20:36	101.200	103.300	52.510	106.700	103.966%	101.700	102.700	99.970	<u>97.837%</u>	103.900
x		101.400	103.100	52.340	105.600	102.882%	101.100	102.500	99.250	<u>97.252%</u>	103.500
σ		0.407	0.629	0.196	0.964	2.340%	0.559	0.242	1.089	<u>0.846%</u>	0.786
%RSD		0.401	0.611	0.374	0.913	2.274	0.553	0.236	1.097	<u>0.870</u>	0.760
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:20:28	5.190	102.500	100.000	98.965%	<u>104.600</u>					
2	15:20:32	5.331	101.900	100.300	102.862%	<u>101.900</u>					
3	15:20:36	5.054	103.200	100.600	104.168%	<u>100.100</u>					
x		5.192	102.500	100.300	101.998%	<u>102.200</u>					
σ		0.139	0.649	0.309	2.707%	<u>2.268</u>					
%RSD		2.669	0.633	0.308	2.654	<u>2.220</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	15:27:37	0.098	0.036	0.529	2.818	3.898	4.726	-3.594	2.319	196.700	<u>±2016000.000</u>
2	15:27:41	0.072	0.104	0.377	3.968	4.944	4.150	-3.890	-3.148	199.400	<u>±1973000.000</u>
3	15:27:45	0.075	0.040	0.192	2.308	2.154	3.915	-3.380	1.265	194.600	<u>±1966000.000</u>
x		0.082	0.060	0.366	3.032	3.665	4.264	-3.621	0.145	196.900	<u>±1985000.000</u>
σ		0.014	0.038	0.169	0.851	1.409	0.417	0.256	2.900	2.413	<u>±27300.000</u>
%RSD		17.420	63.570	46.130	28.050	38.460	9.783	7.065	1998.000	1.225	<u>±1.376</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	15:27:37	6.285	5.211	98.063%	98.467%	0.048	-0.034	0.022	11.190	4.014	0.011
2	15:27:41	1.619	7.676	100.652%	99.286%	-0.042	0.256	0.012	10.220	2.973	0.009
3	15:27:45	5.382	16.490	98.789%	100.663%	0.018	-0.011	0.038	10.850	3.397	0.000
x		4.428	9.791	99.168%	99.472%	0.008	0.070	0.024	10.750	3.461	0.007
σ		2.475	5.927	1.335%	1.110%	0.046	0.161	0.013	0.496	0.524	0.006
%RSD		55.890	60.540	1.346	1.116	559.900	228.500	56.300	4.616	15.130	83.190
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	-0.001	0.006	0.011	-0.118	97.825%	-0.059	-0.027	-0.008	96.129%	0.000
2	15:27:41	0.002	-0.010	0.006	-0.171	98.588%	-0.007	0.061	-0.012	98.133%	-0.015
3	15:27:45	-0.009	0.039	0.017	-0.154	98.705%	-0.046	0.009	-0.005	97.929%	-0.012
x		-0.003	0.012	0.011	-0.148	98.373%	-0.038	0.014	-0.008	97.397%	-0.009
σ		0.006	0.025	0.006	0.027	0.478%	0.027	0.044	0.003	1.103%	0.008
%RSD		212.800	216.200	51.560	18.550	0.486	72.100	309.200	38.760	1.132	90.430
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	0.075	-0.014	-0.005	-0.008	96.570%	0.032	-0.004	0.034	<u>±96.310%</u>	-0.019
2	15:27:41	0.075	-0.035	-0.001	0.013	98.008%	0.016	-0.016	0.028	<u>±96.095%</u>	-0.015
3	15:27:45	0.077	-0.032	-0.010	-0.020	98.458%	0.028	-0.002	0.003	<u>±95.719%</u>	-0.025
x		0.076	-0.027	-0.006	-0.005	97.679%	0.025	-0.007	0.022	<u>±96.041%</u>	-0.020
σ		0.001	0.011	0.005	0.017	0.986%	0.009	0.007	0.017	<u>±0.299%</u>	0.005
%RSD		1.763	41.560	80.250	346.900	1.009	33.910	103.200	76.290	<u>±0.311</u>	26.120
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:27:37	0.018	0.043	0.001	96.764%	-0.007					
2	15:27:41	0.035	0.038	0.005	98.372%	-0.009					
3	15:27:45	0.010	0.035	-0.004	99.446%	-0.007					
x		0.021	0.038	0.001	98.194%	-0.008					
σ		0.013	0.004	0.005	1.350%	0.001					
%RSD		60.510	10.470	748.700	1.375	15.290					

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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	15:34:47	0.029	0.012	-0.136	8.137	5.777	13.280	1.416	25.260	187.800	<u>1085000.000</u>
2	15:34:50	0.057	-0.008	-0.000	6.853	4.834	10.690	1.548	35.430	211.300	<u>1062000.000</u>
3	15:34:54	0.049	0.038	0.502	4.732	4.257	10.290	3.636	39.010	195.900	<u>1077000.000</u>
x		0.045	0.014	0.122	6.574	4.956	11.420	2.200	33.230	198.300	<u>1075000.000</u>
σ		0.014	0.023	0.336	1.720	0.767	1.624	1.246	7.134	11.940	<u>11260.000</u>
%RSD		31.690	162.200	275.600	26.160	15.480	14.220	56.610	21.470	6.021	<u>1.048</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	15:34:47	-60.750	17.910	94.022%	94.993%	0.265	-0.056	0.357	6.525	3.335	0.055
2	15:34:50	-65.190	17.800	95.004%	95.397%	0.287	-0.176	0.360	7.046	1.848	0.025
3	15:34:54	-61.480	23.590	95.358%	95.688%	0.256	-0.012	0.430	6.465	0.549	0.048
x		-62.470	19.770	94.795%	95.359%	0.269	-0.081	0.383	6.679	1.911	0.043
σ		2.382	3.315	0.692%	0.349%	0.016	0.085	0.041	0.320	1.394	0.016
%RSD		3.813	16.770	0.730	0.366	5.936	104.200	10.780	4.786	72.940	36.180
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:34:47	-0.022	0.261	-0.014	6.921	96.686%	-0.168	-0.098	-0.022	94.404%	0.001
2	15:34:50	-0.033	0.213	-0.027	6.857	98.429%	-0.239	-0.049	-0.042	95.529%	-0.017
3	15:34:54	-0.021	0.272	0.008	7.140	98.557%	-0.156	-0.002	-0.041	96.940%	-0.014
x		-0.025	0.248	-0.011	6.972	97.891%	-0.188	-0.050	-0.035	95.624%	-0.010
σ		0.007	0.031	0.018	0.148	1.045%	0.045	0.048	0.011	1.271%	0.010
%RSD		27.370	12.660	163.500	2.126	1.068	23.970	96.230	32.480	1.329	94.620
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:34:47	0.113	-0.019	-0.015	-0.019	98.124%	36.880	-0.026	-0.015	<u>92.950%</u>	-0.021
2	15:34:50	0.076	-0.073	-0.016	-0.044	99.350%	37.130	-0.040	-0.035	<u>92.979%</u>	-0.028
3	15:34:54	0.048	-0.065	-0.021	-0.038	100.988%	37.240	-0.027	-0.039	<u>93.489%</u>	-0.032
x		0.079	-0.052	-0.017	-0.033	99.487%	37.080	-0.031	-0.029	<u>93.139%</u>	-0.027
σ		0.033	0.029	0.004	0.013	1.437%	0.186	0.007	0.013	<u>0.303%</u>	0.006
%RSD		41.670	55.190	20.400	37.790	1.444	0.502	23.910	43.110	<u>0.325</u>	21.320
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:34:47	0.017	-0.015	-0.017	100.802%	-0.024					
2	15:34:50	0.005	-0.025	-0.023	103.222%	-0.032					
3	15:34:54	0.012	-0.031	-0.031	103.854%	-0.034					
x		0.011	-0.024	-0.024	102.626%	-0.030					
σ		0.006	0.008	0.007	1.611%	0.006					
%RSD		57.050	35.060	28.340	1.570	18.800					

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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	15:41:54	0.045	-0.009	3.034	5081.000	3000.000	16.250	24.950	<u>M 25160.000</u>	2298.000	<u>T 1143000.000</u>
2	15:41:58	0.003	-0.003	3.216	5083.000	3008.000	16.240	25.240	<u>M 25030.000</u>	2206.000	<u>T 1126000.000</u>
3	15:42:02	-0.008	-0.015	3.651	5101.000	2983.000	16.840	27.000	<u>M 25230.000</u>	2252.000	<u>T 1116000.000</u>
X		0.014	-0.009	3.300	5088.000	2997.000	16.440	25.730	<u>M 25140.000</u>	2252.000	<u>T 1129000.000</u>
σ		0.028	0.006	0.317	11.230	12.870	0.346	1.111	<u>M 101.300</u>	46.030	<u>T 13540.000</u>
%RSD		208.600	64.550	9.610	0.221	0.429	2.102	4.318	<u>M 0.403</u>	2.044	<u>T 1.199</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	15:41:54	<u>TM 37870.000</u>	455.300	104.497%	101.090%	0.053	-0.068	0.372	7.026	30.350	1.011
2	15:41:58	<u>TM 37480.000</u>	433.600	105.813%	102.352%	0.579	-0.123	0.391	7.301	30.520	0.958
3	15:42:02	<u>TM 37190.000</u>	393.200	108.001%	101.525%	0.493	-0.032	0.336	7.547	30.840	1.006
X		<u>TM 37510.000</u>	427.400	106.103%	101.655%	0.375	-0.074	0.366	7.291	30.570	0.991
σ		<u>TM 342.200</u>	31.490	1.770%	0.641%	0.282	0.046	0.028	0.261	0.245	0.029
%RSD		<u>TM 0.912</u>	7.369	1.668	0.631	75.310	61.810	7.611	3.577	0.802	2.948
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:54	-0.037	0.185	2.885	66.510	104.188%	-0.198	0.959	0.272	102.411%	0.167
2	15:41:58	-0.047	0.318	3.002	67.040	106.539%	-0.188	1.557	0.260	105.546%	0.166
3	15:42:02	-0.048	0.240	2.968	66.090	108.867%	-0.209	1.391	0.260	106.773%	0.154
X		-0.044	0.248	2.952	66.550	106.531%	-0.199	1.302	0.264	104.910%	0.162
σ		0.006	0.067	0.060	0.477	2.340%	0.011	0.309	0.007	2.250%	0.007
%RSD		14.030	27.060	2.034	0.717	2.196	5.404	23.710	2.593	2.145	4.406
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:54	0.220	-0.081	-0.024	-0.055	103.687%	37.090	-0.048	0.092	<u>T 102.481%</u>	-0.010
2	15:41:58	0.195	-0.063	-0.018	-0.057	106.694%	37.410	-0.050	0.040	<u>T 102.616%</u>	-0.019
3	15:42:02	0.218	-0.088	-0.020	-0.058	107.857%	38.070	-0.064	0.032	<u>T 103.341%</u>	-0.024
X		0.211	-0.077	-0.021	-0.057	106.079%	37.520	-0.054	0.054	<u>T 102.813%</u>	-0.018
σ		0.014	0.013	0.003	0.001	2.152%	0.502	0.009	0.032	<u>T 0.463%</u>	0.007
%RSD		6.537	16.650	14.730	2.514	2.028	1.338	16.580	59.550	<u>T 0.450</u>	40.270
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:41:54	0.023	-0.041	-0.031	102.240%	-0.046					
2	15:41:58	0.018	-0.048	-0.031	104.677%	-0.049					
3	15:42:02	0.015	-0.044	-0.033	105.514%	-0.051					
X		0.019	-0.044	-0.032	104.144%	-0.049					
σ		0.004	0.004	0.001	1.701%	0.002					
%RSD		21.740	8.261	3.425	1.633	4.608					

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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	15:49:04	42.840	44.410	88.260	<u>14100.000</u>	12880.000	2464.000	276.200	<u>M 28310.000</u>	2027.000	<u>T 1665000.000</u>
2	15:49:08	43.490	45.660	91.030	<u>T 13690.000</u>	12700.000	2452.000	287.600	<u>M 28260.000</u>	2024.000	<u>T 1626000.000</u>
3	15:49:12	44.140	46.300	91.710	<u>T 13570.000</u>	12720.000	2463.000	275.800	<u>M 28420.000</u>	2046.000	<u>T 1624000.000</u>
X		43.490	45.460	90.330	<u>T 13790.000</u>	12770.000	2460.000	279.900	<u>M 28330.000</u>	2032.000	<u>T 1638000.000</u>
σ		0.650	0.961	1.826	<u>T 276.400</u>	100.600	6.347	6.711	<u>M 80.280</u>	12.090	<u>T 23130.000</u>
%RSD		1.496	2.113	2.021	<u>T 2.005</u>	0.788	0.258	2.398	<u>M 0.283</u>	0.595	<u>T 1.412</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	15:49:04	<u>TM 95490.000</u>	2827.000	110.022%	110.770%	47.000	47.950	47.670	20.470	2452.000	48.130
2	15:49:08	<u>TM 93330.000</u>	2806.000	114.005%	109.377%	47.580	47.890	47.240	19.330	2425.000	47.800
3	15:49:12	<u>TM 93130.000</u>	3060.000	113.860%	109.649%	46.390	48.170	47.670	17.450	2452.000	48.120
X		<u>TM 93980.000</u>	2898.000	112.629%	109.932%	46.990	48.000	47.530	19.080	2443.000	48.020
σ		<u>TM 1307.000</u>	141.100	2.259%	0.738%	0.597	0.152	0.247	1.527	15.790	0.188
%RSD		<u>TM 1.390</u>	4.869	2.006	0.671	1.271	0.316	0.521	8.001	0.646	0.392
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:04	47.130	47.580	51.060	264.000	109.723%	50.630	55.390	48.360	107.796%	25.260
2	15:49:08	46.440	47.710	50.450	263.800	113.836%	51.070	55.870	48.660	110.115%	25.290
3	15:49:12	47.120	47.500	50.660	266.300	113.346%	50.640	57.410	48.910	111.607%	25.510
X		46.900	47.600	50.720	264.700	112.302%	50.780	56.220	48.650	109.839%	25.350
σ		0.395	0.108	0.311	1.377	2.247%	0.250	1.058	0.279	1.920%	0.140
%RSD		0.842	0.227	0.614	0.520	2.001	0.492	1.882	0.574	1.748	0.551
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:04	47.050	-0.066	19.780	52.810	106.781%	78.520	52.410	49.350	<u>T 98.400%</u>	-0.038
2	15:49:08	47.770	-0.075	19.700	52.980	110.448%	78.970	53.050	50.180	<u>T 99.254%</u>	-0.045
3	15:49:12	47.050	-0.065	19.600	53.470	110.662%	78.760	53.230	50.910	<u>T 98.643%</u>	-0.038
X		47.290	-0.069	19.690	53.090	109.297%	78.750	52.890	50.150	<u>T 98.766%</u>	-0.040
σ		0.415	0.006	0.092	0.340	2.181%	0.224	0.433	0.777	<u>T 0.440%</u>	0.004
%RSD		0.878	8.048	0.465	0.641	1.996	0.285	0.818	1.549	<u>T 0.446</u>	9.807
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:49:04	1.212	48.740	48.250	99.341%	49.390					
2	15:49:08	1.281	50.000	48.890	102.033%	50.000					
3	15:49:12	1.274	49.940	48.640	104.196%	50.010					
X		1.255	49.560	48.590	101.856%	49.800					
σ		0.038	0.708	0.323	2.432%	0.357					
%RSD		3.037	1.429	0.664	2.388	0.717					

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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	15:56:12	1.241	0.038	12.000	<u>TM 87490.000</u>	5207.000	38.780	103.600	<u>M 55170.000</u>	6797.000	<u>T 1701000.000</u>
2	15:56:16	1.306	0.099	13.560	<u>TM 85710.000</u>	5157.000	37.710	98.360	<u>M 54950.000</u>	6821.000	<u>T 1682000.000</u>
3	15:56:20	1.193	0.044	12.680	<u>TM 86690.000</u>	5230.000	38.010	107.100	<u>M 55090.000</u>	6875.000	<u>T 1692000.000</u>
X		1.247	0.060	12.750	<u>TM 86630.000</u>	5198.000	38.170	103.000	<u>M 55070.000</u>	6831.000	<u>T 1692000.000</u>
σ		0.057	0.033	0.781	<u>TM 894.300</u>	37.280	0.555	4.390	<u>M 109.200</u>	40.100	<u>T 9863.000</u>
%RSD		4.559	55.160	6.124	<u>TM 1.032</u>	0.717	1.454	4.261	<u>M 0.198</u>	0.587	<u>T 0.583</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	15:56:12	<u>TM 69040.000</u>	11750.000	102.061%	103.533%	3.405	42.110	6.817	10.090	791.000	68.180
2	15:56:16	<u>TM 68520.000</u>	11680.000	106.170%	103.377%	3.970	41.230	6.781	10.190	774.600	67.370
3	15:56:20	<u>TM 69100.000</u>	11880.000	105.932%	103.926%	3.230	42.100	6.806	9.524	780.400	68.340
X		<u>TM 68890.000</u>	11770.000	104.721%	103.612%	3.535	41.820	6.802	9.935	782.000	67.960
σ		<u>TM 317.900</u>	101.700	2.307%	0.283%	0.387	0.503	0.018	0.359	8.319	0.522
%RSD		<u>TM 0.461</u>	0.864	2.203	0.273	10.950	1.203	0.268	3.612	1.064	0.768
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:12	4.985	22.820	<u>TM 2028.000</u>	<u>M 648.900</u>	101.809%	325.700	56.630	155.200	107.276%	0.180
2	15:56:16	4.842	22.560	<u>TM 1981.000</u>	<u>M 646.300</u>	105.923%	324.000	58.480	155.400	110.401%	0.158
3	15:56:20	4.928	22.960	<u>TM 1990.000</u>	<u>M 652.300</u>	105.833%	326.000	58.430	156.100	111.577%	0.160
X		4.918	22.780	<u>TM 2000.000</u>	<u>M 649.200</u>	104.521%	325.200	57.850	155.600	109.751%	0.166
σ		0.072	0.202	<u>TM 24.770</u>	<u>M 3.022</u>	2.350%	1.077	1.053	0.440	2.223%	0.013
%RSD		1.464	0.889	<u>TM 1.238</u>	<u>M 0.466</u>	2.248	0.331	1.821	0.283	2.025	7.546
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:12	15.950	-0.051	44.540	207.100	102.305%	18.260	0.252	0.979	<u>T 94.238%</u>	-0.042
2	15:56:16	15.580	-0.072	44.550	206.400	105.826%	18.130	0.304	1.059	<u>T 95.519%</u>	-0.045
3	15:56:20	15.540	-0.044	44.350	205.600	107.491%	18.070	0.263	1.070	<u>T 95.847%</u>	-0.038
X		15.690	-0.055	44.480	206.300	105.207%	18.160	0.273	1.036	<u>T 95.201%</u>	-0.042
σ		0.225	0.015	0.110	0.730	2.648%	0.098	0.027	0.050	<u>T 0.850%</u>	0.003
%RSD		1.434	26.550	0.247	0.354	2.517	0.538	9.969	4.784	<u>T 0.893</u>	8.196
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:56:12	1.162	0.043	0.958	97.232%	0.508					
2	15:56:16	1.142	0.033	0.941	99.978%	0.505					
3	15:56:20	1.164	0.019	0.942	101.461%	0.489					
X		1.156	0.032	0.947	99.557%	0.501					
σ		0.012	0.012	0.009	2.145%	0.010					
%RSD		1.036	38.030	0.995	2.155	2.024					

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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	16:03:20	2.336	0.085	26.300	<u>TM 173800.000</u>	10350.000	80.030	203.600	<u>M 117100.000</u>	13990.000	<u>T 1617000.000</u>
2	16:03:24	2.359	0.085	25.220	<u>TM 170000.000</u>	10200.000	79.600	215.500	<u>M 115900.000</u>	13720.000	<u>T 1572000.000</u>
3	16:03:28	2.413	0.079	25.100	<u>TM 171600.000</u>	10370.000	79.430	209.300	<u>M 117300.000</u>	13910.000	<u>T 1589000.000</u>
X		2.369	0.083	25.540	<u>TM 171800.000</u>	10310.000	79.680	209.500	<u>M 116700.000</u>	13870.000	<u>T 1593000.000</u>
σ		0.040	0.003	0.662	<u>TM 1884.000</u>	91.670	0.309	5.972	<u>M 757.300</u>	140.900	<u>T 22840.000</u>
%RSD		1.676	3.696	2.593	<u>TM 1.097</u>	0.889	0.388	2.851	<u>M 0.649</u>	1.016	<u>T 1.434</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	16:03:20	<u>TM 142300.000</u>	24030.000	104.511%	105.101%	5.938	85.140	13.720	9.345	1575.000	138.200
2	16:03:24	<u>TM 138800.000</u>	23990.000	108.201%	105.021%	6.800	84.950	13.590	8.323	1557.000	137.100
3	16:03:28	<u>TM 140800.000</u>	23510.000	107.125%	104.489%	6.924	85.910	13.480	9.297	1571.000	138.300
X		<u>TM 140600.000</u>	23840.000	106.613%	104.870%	6.554	85.330	13.600	8.989	1568.000	137.900
σ		<u>TM 1763.000</u>	291.600	1.898%	0.333%	0.537	0.507	0.120	0.577	9.376	0.670
%RSD		<u>TM 1.253</u>	1.223	1.780	0.317	8.198	0.594	0.883	6.419	0.598	0.486
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:03:20	9.606	45.240	<u>TM 4018.000</u>	<u>M 1319.000</u>	106.037%	<u>M 690.000</u>	124.000	302.900	114.860%	0.319
2	16:03:24	9.642	44.390	<u>TM 3943.000</u>	<u>M 1320.000</u>	108.113%	<u>M 694.500</u>	126.400	304.900	117.696%	0.286
3	16:03:28	9.823	45.220	<u>TM 3952.000</u>	<u>M 1327.000</u>	108.758%	<u>M 695.000</u>	125.600	304.300	119.154%	0.299
X		9.691	44.950	<u>TM 3971.000</u>	<u>M 1322.000</u>	107.636%	<u>M 693.200</u>	125.400	304.000	117.237%	0.301
σ		0.116	0.485	<u>TM 41.080</u>	<u>M 4.190</u>	1.422%	<u>M 2.765</u>	1.224	1.016	2.183%	0.017
%RSD		1.199	1.080	<u>TM 1.034</u>	<u>M 0.317</u>	1.321	<u>M 0.399</u>	0.976	0.334	1.862	5.584
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:03:20	30.730	-0.017	86.250	415.800	103.918%	36.320	0.535	1.929	<u>T 97.761%</u>	-0.050
2	16:03:24	30.240	-0.054	86.270	413.500	106.334%	36.830	0.547	2.136	<u>T 98.285%</u>	-0.043
3	16:03:28	30.340	-0.064	86.160	413.000	107.328%	36.590	0.540	2.108	<u>T 98.120%</u>	-0.045
X		30.440	-0.045	86.230	414.100	105.860%	36.580	0.540	2.058	<u>T 98.055%</u>	-0.046
σ		0.260	0.025	0.058	1.506	1.753%	0.255	0.006	0.112	<u>T 0.268%</u>	0.004
%RSD		0.855	55.540	0.067	0.364	1.656	0.697	1.146	5.449	<u>T 0.273</u>	8.026
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:03:20	2.331	0.057	1.908	94.108%	1.005					
2	16:03:24	2.356	0.059	1.885	97.078%	0.980					
3	16:03:28	2.254	0.052	1.893	97.322%	1.019					
X		2.314	0.056	1.895	96.169%	1.001					
σ		0.053	0.003	0.012	1.789%	0.020					
%RSD		2.292	6.175	0.629	1.861	1.969					

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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	16:10:28	0.014	-0.017	-0.016	4721.000	2252.000	11.630	25.460	20510.000	2118.000	<u>1741000.000</u>
2	16:10:32	0.001	-0.028	-0.092	4609.000	2228.000	12.350	21.120	19960.000	2125.000	<u>1694000.000</u>
3	16:10:35	-0.006	-0.017	-0.006	4586.000	2196.000	10.900	26.610	19940.000	2106.000	<u>1681000.000</u>
X		0.003	-0.021	-0.038	4639.000	2225.000	11.630	24.400	20140.000	2116.000	<u>1705000.000</u>
σ		0.011	0.007	0.047	72.580	28.540	0.721	2.898	322.300	9.856	<u>131820.000</u>
%RSD		361.100	31.600	123.900	1.565	1.282	6.203	11.880	1.601	0.466	<u>1.866</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	16:10:28	<u>TM 39500.000</u>	757.600	111.092%	109.664%	0.421	0.208	0.266	10.790	25.710	1.695
2	16:10:32	<u>TM 38360.000</u>	667.700	114.288%	109.885%	0.112	0.203	0.273	11.200	24.040	1.733
3	16:10:35	<u>TM 38170.000</u>	585.100	115.492%	110.819%	0.120	0.021	0.241	11.800	24.040	1.692
X		<u>TM 38680.000</u>	670.100	113.624%	110.123%	0.218	0.144	0.260	11.260	24.600	1.707
σ		<u>TM 716.800</u>	86.270	2.274%	0.613%	0.176	0.107	0.017	0.509	0.968	0.023
%RSD		<u>TM 1.853</u>	12.870	2.001	0.557	80.760	74.190	6.466	4.522	3.937	1.344
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:28	0.044	0.274	6.170	56.620	111.651%	0.568	1.869	0.574	109.575%	-0.039
2	16:10:32	0.038	0.255	5.261	57.230	114.028%	0.430	2.052	0.474	112.736%	-0.056
3	16:10:35	0.026	0.237	4.835	57.490	113.904%	0.337	1.492	0.464	113.220%	-0.052
X		0.036	0.255	5.422	57.110	113.195%	0.445	1.804	0.504	111.844%	-0.049
σ		0.009	0.018	0.682	0.449	1.338%	0.116	0.286	0.061	1.979%	0.009
%RSD		24.990	7.124	12.580	0.787	1.182	26.180	15.830	12.030	1.770	17.800
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:28	0.031	-0.051	0.046	0.365	109.639%	34.810	-0.044	0.010	<u>103.994%</u>	-0.056
2	16:10:32	0.007	-0.061	0.024	0.271	112.607%	34.970	-0.066	-0.016	<u>104.009%</u>	-0.059
3	16:10:35	-0.001	-0.049	0.016	0.164	113.847%	34.710	-0.057	0.008	<u>103.540%</u>	-0.055
X		0.012	-0.054	0.028	0.267	112.031%	34.830	-0.055	0.001	<u>103.848%</u>	-0.057
σ		0.017	0.006	0.016	0.101	2.162%	0.135	0.011	0.014	<u>10.266%</u>	0.002
%RSD		134.500	12.040	55.050	37.670	1.930	0.389	19.350	1599.000	<u>10.257</u>	3.065
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:10:28	0.623	-0.039	-0.044	104.595%	-0.056					
2	16:10:32	0.673	-0.042	-0.044	107.828%	-0.056					
3	16:10:35	0.676	-0.041	-0.044	108.607%	-0.057					
X		0.657	-0.041	-0.044	107.010%	-0.056					
σ		0.030	0.002	0.000	2.127%	0.001					
%RSD		4.509	4.195	0.858	1.988	1.295					

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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	16:17:36	44.260	46.280	87.790	<u>13250.000</u>	12570.000	2559.000	264.400	<u>M26100.000</u>	2099.000	<u>1559000.000</u>
2	16:17:40	43.590	46.440	88.230	<u>13070.000</u>	12470.000	2590.000	269.200	<u>M25860.000</u>	2034.000	<u>1527000.000</u>
3	16:17:44	43.660	46.930	87.450	<u>13070.000</u>	12630.000	2604.000	269.700	<u>M26380.000</u>	2134.000	<u>1534000.000</u>
X		43.840	46.550	87.820	<u>13130.000</u>	12560.000	2584.000	267.800	<u>M26110.000</u>	2089.000	<u>1540000.000</u>
σ		0.370	0.337	0.390	<u>106.500</u>	79.410	23.340	2.941	<u>M262.100</u>	50.430	<u>16640.000</u>
%RSD		0.844	0.725	0.444	<u>0.811</u>	0.632	0.903	1.098	<u>M1.004</u>	2.414	<u>1.081</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	16:17:36	<u>TM99820.000</u>	3536.000	111.310%	111.931%	51.720	51.190	50.000	14.990	2601.000	51.370
2	16:17:40	<u>TM98030.000</u>	3424.000	113.251%	112.228%	48.700	50.410	49.680	16.690	2563.000	51.160
3	16:17:44	<u>TM98560.000</u>	3236.000	112.034%	112.756%	50.630	50.570	50.050	18.100	2602.000	51.830
X		<u>TM98800.000</u>	3399.000	112.198%	112.305%	50.350	50.720	49.910	16.590	2589.000	51.450
σ		<u>TM919.600</u>	151.800	0.981%	0.418%	1.531	0.414	0.200	1.553	22.410	0.342
%RSD		<u>TM0.931</u>	4.465	0.874	0.372	3.042	0.816	0.401	9.358	0.866	0.665
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:36	49.560	49.690	53.880	280.500	110.733%	52.110	59.460	50.720	111.054%	22.450
2	16:17:40	49.200	49.870	53.520	280.100	113.043%	51.810	59.550	51.140	113.223%	22.330
3	16:17:44	49.760	50.150	54.280	282.700	112.709%	51.600	59.710	51.210	112.764%	22.530
X		49.510	49.900	53.900	281.100	112.162%	51.840	59.570	51.020	112.347%	22.440
σ		0.279	0.232	0.383	1.387	1.248%	0.253	0.123	0.264	1.143%	0.100
%RSD		0.564	0.464	0.710	0.493	1.113	0.489	0.206	0.518	1.017	0.446
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:36	47.820	-0.057	20.130	53.940	111.007%	82.160	54.680	53.370	<u>198.244%</u>	-0.043
2	16:17:40	48.540	-0.028	20.080	53.910	114.309%	82.400	54.430	53.240	<u>197.265%</u>	-0.038
3	16:17:44	48.350	-0.032	20.000	54.290	113.483%	83.070	54.640	54.490	<u>198.554%</u>	-0.048
X		48.230	-0.039	20.070	54.050	112.933%	82.540	54.580	53.700	<u>198.021%</u>	-0.043
σ		0.373	0.016	0.066	0.214	1.718%	0.470	0.137	0.687	<u>10.673%</u>	0.005
%RSD		0.774	40.140	0.327	0.397	1.521	0.570	0.251	1.278	<u>10.686</u>	12.240
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:17:36	1.891	51.230	50.420	103.634%	52.610					
2	16:17:40	1.957	51.380	50.330	107.057%	52.730					
3	16:17:44	1.844	51.470	50.600	107.238%	52.460					
X		1.897	51.360	50.450	105.976%	52.600					
σ		0.057	0.121	0.140	2.031%	0.134					
%RSD		2.992	0.235	0.277	1.916	0.255					

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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	16:24:44	42.210	45.450	84.880	<u>14270.000</u>	12460.000	2533.000	275.900	<u>M25810.000</u>	2061.000	<u>T1695000.000</u>
2	16:24:47	39.480	41.720	76.320	<u>T13820.000</u>	12330.000	2522.000	280.500	<u>M25590.000</u>	2095.000	<u>T1662000.000</u>
3	16:24:51	40.640	44.440	80.030	<u>T14000.000</u>	12490.000	2554.000	284.300	<u>M25990.000</u>	2192.000	<u>T1677000.000</u>
X		40.780	43.870	80.410	<u>T14030.000</u>	12430.000	2536.000	280.200	<u>M25800.000</u>	2116.000	<u>T1678000.000</u>
σ		1.371	1.926	4.292	<u>T223.700</u>	88.250	16.690	4.161	<u>M199.100</u>	68.260	<u>T16660.000</u>
%RSD		3.363	4.390	5.338	<u>T1.594</u>	0.710	0.658	1.485	<u>M0.772</u>	3.226	<u>T0.993</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	16:24:44	<u>TM100000.000</u>	3196.000	107.821%	104.319%	47.900	49.670	49.010	17.440	2523.000	50.480
2	16:24:47	<u>TM98440.000</u>	3317.000	110.470%	99.936%	49.370	49.450	48.760	18.250	2507.000	50.590
3	16:24:51	<u>TM99830.000</u>	3445.000	111.733%	102.294%	49.510	49.730	48.470	18.020	2507.000	50.590
X		<u>TM99430.000</u>	3319.000	110.008%	102.183%	48.930	49.620	48.750	17.900	2512.000	50.550
σ		<u>TM861.300</u>	124.900	1.997%	2.194%	0.894	0.144	0.271	0.420	9.181	0.062
%RSD		<u>TM0.866</u>	3.763	1.815	2.147	1.827	0.289	0.556	2.345	0.365	0.123
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:24:44	48.400	48.830	52.320	270.000	107.617%	51.100	58.120	49.330	107.260%	22.060
2	16:24:47	48.420	48.450	52.220	270.500	109.953%	51.130	58.440	49.300	109.784%	22.170
3	16:24:51	47.950	48.260	51.470	267.500	112.860%	50.390	58.510	49.850	111.253%	22.210
X		48.260	48.510	52.000	269.300	110.143%	50.870	58.360	49.500	109.432%	22.140
σ		0.263	0.291	0.468	1.626	2.627%	0.417	0.209	0.307	2.020%	0.079
%RSD		0.545	0.599	0.899	0.604	2.385	0.821	0.357	0.621	1.846	0.354
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:24:44	47.620	-0.044	20.280	53.660	106.746%	80.850	52.920	50.280	<u>T101.081%</u>	-0.035
2	16:24:47	47.040	-0.045	19.940	53.260	110.363%	80.100	53.080	50.690	<u>T101.871%</u>	-0.050
3	16:24:51	47.110	-0.056	19.940	53.030	112.502%	80.160	52.930	50.870	<u>T101.985%</u>	-0.048
X		47.260	-0.048	20.050	53.320	109.870%	80.370	52.980	50.610	<u>T101.646%</u>	-0.044
σ		0.320	0.007	0.193	0.317	2.909%	0.419	0.091	0.303	<u>T0.492%</u>	0.008
%RSD		0.676	14.360	0.963	0.595	2.648	0.521	0.172	0.599	<u>T0.484</u>	17.960
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:24:44	1.795	50.190	49.430	100.090%	50.880					
2	16:24:47	2.035	50.440	49.470	103.248%	50.650					
3	16:24:51	1.841	50.360	49.220	104.792%	50.590					
X		1.890	50.330	49.370	102.710%	50.700					
σ		0.127	0.129	0.136	2.396%	0.154					
%RSD		6.718	0.256	0.275	2.333	0.304					

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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	16:31:53	42.620	44.450	89.160	<u>13440.000</u>	12200.000	2468.000	269.700	<u>M25610.000</u>	2063.000	<u>T1675000.000</u>
2	16:31:57	42.930	45.970	87.100	<u>T13000.000</u>	12040.000	2461.000	277.900	<u>M25580.000</u>	2041.000	<u>T1625000.000</u>
3	16:32:01	42.940	46.140	89.410	<u>T12830.000</u>	11930.000	2434.000	278.500	<u>M25540.000</u>	2165.000	<u>T1635000.000</u>
X		42.830	45.520	88.560	<u>T13090.000</u>	12060.000	2454.000	275.400	<u>M25570.000</u>	2089.000	<u>T1645000.000</u>
σ		0.185	0.931	1.265	<u>T317.000</u>	136.800	17.900	4.890	<u>M37.040</u>	66.260	<u>T26840.000</u>
%RSD		0.433	2.046	1.428	<u>T2.422</u>	1.135	0.729	1.776	<u>M0.145</u>	3.171	<u>T1.631</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	16:31:53	<u>TM96790.000</u>	3072.000	106.284%	106.170%	47.180	47.540	47.220	19.990	2438.000	48.780
2	16:31:57	<u>TM94500.000</u>	3036.000	108.509%	108.935%	46.060	47.930	47.470	18.030	2436.000	48.720
3	16:32:01	<u>TM95240.000</u>	3254.000	110.499%	108.661%	48.920	47.530	47.160	18.730	2426.000	49.120
X		<u>TM95510.000</u>	3120.000	108.431%	107.922%	47.390	47.670	47.280	18.920	2434.000	48.870
σ		<u>TM1168.000</u>	116.900	2.108%	1.524%	1.445	0.225	0.164	0.992	6.564	0.218
%RSD		<u>TM1.222</u>	3.746	1.944	1.412	3.050	0.473	0.347	5.245	0.270	0.445
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:53	47.080	47.000	49.390	255.900	107.502%	49.620	55.760	47.680	107.613%	49.470
2	16:31:57	47.030	47.460	50.260	257.800	109.089%	49.370	57.980	48.140	109.110%	49.360
3	16:32:01	46.270	47.390	49.360	256.700	110.857%	49.430	57.020	48.210	111.148%	49.510
X		46.790	47.280	49.670	256.800	109.150%	49.470	56.920	48.010	109.290%	49.450
σ		0.455	0.249	0.510	0.959	1.678%	0.131	1.114	0.284	1.775%	0.078
%RSD		0.973	0.527	1.028	0.373	1.537	0.265	1.957	0.592	1.624	0.159
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:53	45.830	-0.071	24.480	50.250	107.415%	84.900	51.870	48.920	<u>T98.864%</u>	-0.057
2	16:31:57	46.080	-0.067	24.410	50.950	110.004%	84.640	51.990	49.360	<u>T99.508%</u>	-0.051
3	16:32:01	45.310	-0.035	24.330	51.130	112.246%	84.350	52.030	50.350	<u>T99.617%</u>	-0.054
X		45.740	-0.058	24.410	50.780	109.888%	84.630	51.970	49.550	<u>T99.330%</u>	-0.054
σ		0.390	0.020	0.074	0.463	2.418%	0.275	0.084	0.733	<u>T0.407%</u>	0.003
%RSD		0.853	34.190	0.302	0.912	2.200	0.324	0.162	1.479	<u>T0.410</u>	5.788
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:31:53	1.848	48.340	47.710	101.797%	49.640					
2	16:31:57	1.860	48.320	47.550	105.773%	49.430					
3	16:32:01	1.905	48.690	47.500	105.801%	49.420					
X		1.871	48.450	47.580	104.457%	49.490					
σ		0.030	0.207	0.109	2.304%	0.122					
%RSD		1.614	0.428	0.230	2.206	0.247					

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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	16:39:01	0.002	-0.022	0.542	4419.000	2464.000	22.960	31.780	21190.000	2106.000	1818000.000
2	16:39:05	0.082	-0.010	0.569	4383.000	2423.000	22.910	33.870	21150.000	2103.000	1793000.000
3	16:39:09	0.047	0.007	0.365	4381.000	2431.000	25.740	29.940	20920.000	2098.000	1781000.000
X		0.044	-0.008	0.492	4394.000	2439.000	23.870	31.860	21090.000	2102.000	1797000.000
σ		0.040	0.015	0.111	21.360	21.540	1.620	1.966	147.400	4.082	19250.000
%RSD		91.980	178.100	22.460	0.486	0.883	6.787	6.169	0.699	0.194	1.071
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	16:39:01	TM 39110.000	1000.000	105.609%	104.607%	0.376	0.241	0.436	12.850	25.410	1.792
2	16:39:05	TM 38570.000	977.600	110.055%	105.902%	0.425	0.028	0.362	14.100	24.270	1.682
3	16:39:09	TM 38690.000	1075.000	108.987%	105.902%	0.158	0.169	0.459	13.600	25.580	1.738
X		TM 38790.000	1018.000	108.217%	105.470%	0.320	0.146	0.419	13.510	25.090	1.737
σ		TM 282.500	50.980	2.321%	0.748%	0.142	0.109	0.050	0.626	0.717	0.055
%RSD		TM 0.728	5.009	2.145	0.709	44.570	74.310	11.990	4.636	2.860	3.159
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:01	0.042	0.818	3.891	57.060	107.417%	0.065	1.695	0.596	104.927%	0.050
2	16:39:05	0.027	0.944	4.031	58.810	109.437%	0.103	1.700	0.559	108.567%	0.033
3	16:39:09	0.025	0.918	3.981	58.610	108.405%	0.024	1.947	0.587	107.719%	0.024
X		0.031	0.893	3.968	58.160	108.420%	0.064	1.781	0.581	107.071%	0.036
σ		0.009	0.067	0.071	0.956	1.010%	0.040	0.144	0.019	1.905%	0.013
%RSD		30.120	7.497	1.788	1.644	0.932	62.170	8.085	3.319	1.779	37.640
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:01	0.022	-0.034	-0.016	0.009	106.542%	35.180	0.003	0.079	98.854%	-0.047
2	16:39:05	0.026	-0.055	0.004	0.004	110.579%	35.170	-0.021	0.059	98.462%	-0.059
3	16:39:09	0.034	-0.069	0.000	-0.005	109.658%	35.190	0.001	0.051	98.890%	-0.050
X		0.027	-0.053	-0.004	0.002	108.927%	35.180	-0.006	0.063	98.736%	-0.052
σ		0.006	0.018	0.011	0.007	2.115%	0.011	0.013	0.014	0.237%	0.006
%RSD		22.390	33.970	281.100	284.200	1.942	0.031	226.200	22.790	0.240	11.600
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:39:01	0.591	0.037	0.042	103.526%	-0.003					
2	16:39:05	0.592	0.019	0.028	106.500%	-0.017					
3	16:39:09	0.533	0.024	0.034	106.601%	-0.009					
X		0.572	0.027	0.034	105.542%	-0.010					
σ		0.034	0.009	0.007	1.747%	0.007					
%RSD		5.918	34.120	19.810	1.655	71.770					

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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	16:46:11	93.150	96.340	95.460	5363.000	5121.000	5078.000	5070.000	5078.000	197.000	<u>±2191000.000</u>
2	16:46:14	92.360	96.320	95.140	5253.000	4994.000	5069.000	5028.000	5230.000	194.500	<u>±2162000.000</u>
3	16:46:18	92.890	97.370	96.400	5288.000	5067.000	5041.000	4989.000	5169.000	190.800	<u>±2150000.000</u>
x		92.800	96.680	95.670	5301.000	5060.000	5063.000	5029.000	5159.000	194.100	<u>±2168000.000</u>
σ		0.400	0.600	0.659	56.370	63.760	19.190	40.360	76.500	3.154	<u>±21070.000</u>
%RSD		0.431	0.620	0.689	1.063	1.260	0.379	0.802	1.483	1.625	<u>±0.972</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	16:46:11	5103.000	4912.000	96.661%	95.427%	97.880	97.190	98.180	27.160	4965.000	97.940
2	16:46:14	5075.000	5102.000	101.017%	96.555%	97.890	97.240	98.250	27.720	4973.000	98.280
3	16:46:18	5091.000	4892.000	99.836%	96.626%	94.820	98.020	99.190	27.940	4952.000	98.160
x		5090.000	4969.000	99.172%	96.203%	96.860	97.480	98.540	27.610	4963.000	98.130
σ		13.960	115.800	2.253%	0.673%	1.768	0.466	0.564	0.402	11.010	0.175
%RSD		0.274	2.330	2.272	0.699	1.825	0.478	0.572	1.456	0.222	0.178
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:11	98.080	99.160	99.520	98.360	98.368%	99.340	102.100	97.840	97.702%	99.850
2	16:46:14	97.940	97.830	99.750	100.600	102.171%	100.700	104.200	97.970	100.691%	100.300
3	16:46:18	99.050	100.600	101.200	100.400	100.790%	100.800	103.800	97.770	100.523%	100.600
x		98.360	99.190	100.200	99.790	100.443%	100.300	103.400	97.860	99.639%	100.200
σ		0.603	1.381	0.933	1.238	1.925%	0.793	1.105	0.101	1.679%	0.357
%RSD		0.613	1.392	0.932	1.241	1.917	0.791	1.069	0.103	1.685	0.357
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:11	101.100	102.000	51.820	104.300	100.593%	100.700	100.700	97.710	<u>±96.349%</u>	101.200
2	16:46:14	100.800	101.400	51.040	104.200	104.858%	100.600	101.500	99.810	<u>±96.712%</u>	102.600
3	16:46:18	100.600	102.400	51.490	105.200	104.208%	100.700	102.200	100.800	<u>±96.963%</u>	102.600
x		100.800	102.000	51.450	104.600	103.220%	100.700	101.500	99.440	<u>±96.675%</u>	102.100
σ		0.218	0.494	0.393	0.537	2.298%	0.083	0.794	1.581	<u>±0.309%</u>	0.790
%RSD		0.216	0.484	0.764	0.514	2.226	0.083	0.782	1.590	<u>±0.319</u>	0.774
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:46:11	4.855	101.300	99.760	99.051%	<u>±103.400</u>					
2	16:46:14	4.848	101.700	100.100	102.596%	<u>±100.400</u>					
3	16:46:18	5.044	102.800	99.770	102.853%	<u>±99.820</u>					
x		4.916	101.900	99.890	101.500%	<u>±101.200</u>					
σ		0.111	0.803	0.209	2.125%	<u>±1.907</u>					
%RSD		2.255	0.787	0.209	2.094	<u>±1.884</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	16:53:18	0.085	0.067	0.438	3.265	4.895	5.942	-3.357	10.750	200.000	<u>±2026000.000</u>
2	16:53:22	0.050	0.060	0.294	3.118	4.056	5.720	-4.958	3.804	208.400	<u>±1970000.000</u>
3	16:53:26	0.078	0.028	-0.177	2.224	5.420	5.454	-1.867	-5.395	187.700	<u>±1948000.000</u>
x		0.071	0.052	0.185	2.869	4.790	5.705	-3.394	3.054	198.700	<u>±1981000.000</u>
σ		0.019	0.021	0.322	0.563	0.688	0.244	1.546	8.100	10.410	<u>±39990.000</u>
%RSD		26.300	39.810	174.200	19.630	14.360	4.284	45.540	265.200	5.239	<u>±2.018</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	16:53:18	8.762	7.815	99.171%	98.936%	0.016	0.109	0.053	10.730	3.917	0.024
2	16:53:22	9.686	4.867	99.789%	99.391%	-0.122	0.075	0.035	11.120	4.318	0.004
3	16:53:26	8.510	10.300	100.810%	100.267%	0.039	0.013	0.004	11.050	3.621	0.003
x		8.986	7.659	99.923%	99.531%	-0.022	0.066	0.030	10.970	3.952	0.010
σ		0.619	2.718	0.827%	0.676%	0.088	0.049	0.025	0.205	0.350	0.012
%RSD		6.886	35.480	0.828	0.680	393.700	74.100	81.200	1.867	8.856	115.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:18	-0.007	-0.003	0.011	-0.097	98.464%	-0.001	0.121	0.002	96.998%	-0.010
2	16:53:22	0.000	-0.004	0.021	-0.128	99.119%	-0.017	-0.002	0.003	97.840%	-0.009
3	16:53:26	-0.003	0.017	0.006	-0.163	98.495%	0.001	0.081	0.007	98.598%	-0.005
x		-0.003	0.003	0.013	-0.130	98.692%	-0.005	0.066	0.004	97.812%	-0.008
σ		0.004	0.012	0.007	0.033	0.370%	0.010	0.063	0.002	0.800%	0.003
%RSD		112.400	369.500	57.640	25.520	0.375	187.800	94.400	63.540	0.818	35.460
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:18	0.069	-0.014	-0.006	0.001	97.070%	0.041	-0.007	0.015	<u>±95.502%</u>	-0.011
2	16:53:22	0.084	-0.046	-0.003	-0.013	98.342%	0.026	-0.007	0.016	<u>±95.202%</u>	-0.004
3	16:53:26	0.079	-0.015	0.003	-0.024	99.502%	0.024	0.009	0.022	<u>±94.977%</u>	-0.021
x		0.077	-0.025	-0.002	-0.012	98.305%	0.031	-0.002	0.018	<u>±95.227%</u>	-0.012
σ		0.008	0.018	0.005	0.013	1.216%	0.009	0.009	0.004	<u>±0.264%</u>	0.009
%RSD		9.886	70.690	216.800	102.600	1.237	30.090	515.600	21.240	<u>±0.277</u>	73.700
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:53:18	0.031	0.037	0.006	97.009%	-0.002					
2	16:53:22	0.013	0.034	0.005	98.587%	-0.003					
3	16:53:26	0.010	0.032	0.003	99.052%	-0.001					
x		0.018	0.035	0.005	98.216%	-0.002					
σ		0.011	0.003	0.001	1.071%	0.001					
%RSD		62.630	8.035	26.130	1.090	36.240					

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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	17:00:28	0.007	-0.021	-0.371	858.700	486.500	1.083	1.633	3994.000	598.100	<u>1910000.000</u>
2	17:00:32	0.006	-0.028	-0.113	885.900	484.100	1.150	1.221	4102.000	562.100	<u>1911000.000</u>
3	17:00:36	-0.013	-0.003	-0.042	879.000	473.300	1.350	5.281	4025.000	610.600	<u>1905000.000</u>
x		-0.000	-0.017	-0.175	874.600	481.300	1.194	2.712	4041.000	590.300	<u>1909000.000</u>
σ		0.011	0.013	0.173	14.120	7.013	0.139	2.235	55.650	25.160	<u>12879.000</u>
%RSD		26710.000	72.450	98.740	1.615	1.457	11.610	82.420	1.377	4.262	<u>0.151</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	17:00:28	7477.000	213.600	103.415%	100.802%	-0.051	0.104	0.054	10.840	0.836	0.296
2	17:00:32	7630.000	157.300	101.110%	101.488%	0.007	-0.019	0.023	11.100	0.685	0.298
3	17:00:36	7613.000	183.100	102.200%	102.095%	-0.128	0.210	0.032	10.540	1.439	0.282
x		7573.000	184.700	102.242%	101.462%	-0.057	0.098	0.036	10.830	0.987	0.292
σ		83.910	28.230	1.153%	0.647%	0.068	0.115	0.016	0.284	0.399	0.008
%RSD		1.108	15.290	1.128	0.637	118.400	116.600	44.540	2.624	40.430	2.895
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:00:28	-0.050	0.170	0.714	11.490	100.849%	0.037	0.176	0.086	99.679%	-0.031
2	17:00:32	-0.052	0.116	0.758	11.370	101.667%	-0.103	0.240	0.094	101.912%	-0.044
3	17:00:36	-0.047	0.190	0.770	10.850	103.014%	-0.116	0.156	0.094	101.762%	-0.040
x		-0.049	0.159	0.747	11.240	101.843%	-0.061	0.191	0.091	101.118%	-0.038
σ		0.002	0.038	0.029	0.341	1.093%	0.085	0.044	0.005	1.248%	0.007
%RSD		4.722	24.170	3.900	3.037	1.073	140.700	23.150	5.429	1.235	18.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:00:28	-0.081	-0.086	-0.038	-0.059	102.250%	6.825	-0.073	-0.016	<u>95.029%</u>	-0.046
2	17:00:32	-0.075	-0.074	-0.033	-0.061	103.474%	7.207	-0.065	-0.011	<u>94.174%</u>	-0.039
3	17:00:36	-0.073	-0.061	-0.037	-0.063	104.096%	6.885	-0.070	-0.025	<u>95.958%</u>	-0.044
x		-0.077	-0.074	-0.036	-0.061	103.273%	6.972	-0.069	-0.017	<u>95.054%</u>	-0.043
σ		0.004	0.012	0.003	0.002	0.939%	0.205	0.004	0.007	<u>0.892%</u>	0.003
%RSD		5.515	16.850	7.537	3.532	0.910	2.947	5.406	39.650	<u>0.939</u>	7.746
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:00:28	0.093	-0.052	-0.048	100.669%	-0.057					
2	17:00:32	0.101	-0.056	-0.048	102.783%	-0.057					
3	17:00:36	0.081	-0.052	-0.048	103.416%	-0.057					
x		0.091	-0.053	-0.048	102.289%	-0.057					
σ		0.010	0.002	0.000	1.438%	0.000					
%RSD		11.040	3.648	0.713	1.406	0.422					

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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	17:07:39	-0.005	-0.028	-0.107	4409.000	2354.000	16.590	30.500	21450.000	2124.000	<u>1803000.000</u>
2	17:07:43	0.011	-0.022	0.302	4399.000	2330.000	16.670	26.510	21500.000	2090.000	<u>1767000.000</u>
3	17:07:47	0.005	-0.010	-0.450	4421.000	2325.000	16.380	26.260	21760.000	2176.000	<u>1776000.000</u>
X		0.004	-0.020	-0.085	4409.000	2337.000	16.550	27.760	21570.000	2130.000	<u>1782000.000</u>
σ		0.008	0.009	0.376	10.860	15.500	0.150	2.380	167.500	43.380	<u>18520.000</u>
%RSD		229.600	44.540	441.900	0.246	0.663	0.908	8.573	0.776	2.037	<u>1.039</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	17:07:39	<u>TM 41460.000</u>	961.800	105.775%	105.085%	-0.053	0.154	0.347	10.850	25.970	1.749
2	17:07:43	<u>TM 40650.000</u>	956.200	107.237%	105.138%	0.050	0.222	0.356	10.400	25.730	1.775
3	17:07:47	<u>TM 40910.000</u>	976.000	107.664%	106.087%	-0.176	0.010	0.315	11.510	25.810	1.823
X		<u>TM 41010.000</u>	964.700	106.892%	105.436%	-0.060	0.129	0.340	10.920	25.830	1.782
σ		<u>TM 417.200</u>	10.210	0.991%	0.564%	0.113	0.108	0.021	0.560	0.122	0.038
%RSD		<u>TM 1.017</u>	1.058	0.927	0.535	188.200	84.230	6.320	5.124	0.471	2.126
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:39	0.027	0.300	2.878	56.840	104.112%	0.327	2.867	0.573	102.019%	-0.039
2	17:07:43	0.014	0.317	2.864	56.580	106.678%	0.360	2.635	0.580	104.372%	-0.026
3	17:07:47	0.020	0.295	2.738	56.480	108.346%	0.312	2.680	0.564	105.970%	-0.033
X		0.021	0.304	2.827	56.630	106.379%	0.333	2.728	0.572	104.120%	-0.033
σ		0.006	0.012	0.077	0.184	2.133%	0.025	0.123	0.008	1.988%	0.006
%RSD		31.040	3.780	2.718	0.325	2.005	7.425	4.519	1.442	1.909	19.450
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:39	-0.004	-0.083	-0.035	-0.044	102.451%	35.340	-0.065	0.010	<u>101.248%</u>	-0.045
2	17:07:43	-0.006	-0.069	-0.016	-0.037	104.857%	35.170	-0.057	0.013	<u>100.623%</u>	-0.039
3	17:07:47	-0.015	-0.080	-0.032	-0.049	106.183%	35.280	-0.052	0.016	<u>101.747%</u>	-0.041
X		-0.008	-0.077	-0.028	-0.044	104.497%	35.260	-0.058	0.013	<u>101.206%</u>	-0.042
σ		0.006	0.007	0.010	0.006	1.892%	0.084	0.007	0.003	<u>10.563%</u>	0.003
%RSD		67.030	9.413	35.520	14.390	1.810	0.239	11.450	20.780	<u>10.556</u>	7.340
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:07:39	0.619	-0.031	-0.036	97.330%	-0.053					
2	17:07:43	0.587	-0.029	-0.035	100.782%	-0.053					
3	17:07:47	0.555	-0.022	-0.036	101.057%	-0.053					
X		0.587	-0.027	-0.036	99.723%	-0.053					
σ		0.032	0.005	0.001	2.077%	0.000					
%RSD		5.417	18.140	2.179	2.082	0.521					

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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	17:14:48	-0.018	-0.016	-0.003	4386.000	2298.000	14.480	30.030	20550.000	1979.000	1847000.000
2	17:14:52	0.006	-0.022	-0.295	4337.000	2242.000	13.830	30.060	20370.000	2003.000	1794000.000
3	17:14:56	0.008	-0.034	0.372	4308.000	2276.000	13.650	27.990	20250.000	1962.000	1789000.000
X		-0.001	-0.024	0.025	4344.000	2272.000	13.990	29.360	20390.000	1982.000	1810000.000
σ		0.015	0.009	0.334	39.180	28.070	0.439	1.187	153.300	20.670	32420.000
%RSD		1403.000	36.830	1362.000	0.902	1.236	3.136	4.042	0.752	1.043	1.791
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	17:14:48	TM 38670.000	758.700	107.136%	106.827%	0.415	0.372	0.357	11.760	24.120	1.786
2	17:14:52	TM 37880.000	754.900	109.859%	108.221%	-0.046	0.138	0.378	12.770	23.530	1.817
3	17:14:56	TM 37680.000	724.700	110.496%	108.494%	-0.345	0.114	0.402	13.480	23.490	1.726
X		TM 38080.000	746.100	109.163%	107.848%	0.008	0.208	0.379	12.670	23.710	1.776
σ		TM 521.100	18.610	1.785%	0.894%	0.383	0.143	0.023	0.861	0.350	0.046
%RSD		TM 1.369	2.494	1.635	0.829	4635.000	68.520	5.949	6.792	1.476	2.596
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:48	0.059	0.336	2.362	58.360	105.611%	-0.005	1.964	0.390	104.402%	-0.051
2	17:14:52	0.059	0.346	2.193	56.970	108.049%	0.039	2.188	0.399	107.522%	-0.049
3	17:14:56	0.053	0.320	2.347	58.430	108.097%	0.029	2.158	0.430	107.235%	-0.038
X		0.057	0.334	2.301	57.920	107.252%	0.021	2.103	0.406	106.386%	-0.046
σ		0.004	0.013	0.094	0.821	1.422%	0.023	0.122	0.021	1.725%	0.007
%RSD		6.155	3.942	4.066	1.418	1.326	108.700	5.783	5.216	1.621	15.220
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:48	-0.003	-0.049	-0.031	-0.055	104.975%	34.640	-0.047	0.000	100.828%	-0.052
2	17:14:52	0.006	-0.026	-0.036	-0.053	106.980%	35.050	-0.049	0.021	100.164%	-0.048
3	17:14:56	-0.017	-0.059	-0.030	-0.050	108.553%	35.230	-0.052	0.009	100.353%	-0.048
X		-0.005	-0.045	-0.032	-0.053	106.836%	34.970	-0.050	0.010	100.448%	-0.049
σ		0.012	0.017	0.003	0.003	1.794%	0.300	0.003	0.010	0.342%	0.002
%RSD		255.300	37.590	10.790	5.286	1.679	0.858	5.167	99.870	0.341	4.711
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:14:48	0.538	-0.030	-0.041	99.679%	-0.056					
2	17:14:52	0.547	-0.029	-0.040	103.061%	-0.055					
3	17:14:56	0.567	-0.030	-0.040	103.285%	-0.056					
X		0.551	-0.030	-0.040	102.008%	-0.056					
σ		0.015	0.001	0.000	2.020%	0.000					
%RSD		2.700	2.274	1.144	1.981	0.864					

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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	17:21:57	0.002	-0.022	-0.214	5504.000	2074.000	14.140	22.200	19710.000	1952.000	<u>1584000.000</u>
2	17:22:01	0.018	-0.022	-0.166	5606.000	2148.000	14.710	22.110	20000.000	1969.000	<u>1595000.000</u>
3	17:22:04	-0.009	-0.016	-0.416	5532.000	2136.000	13.110	23.420	20140.000	1967.000	<u>1582000.000</u>
x		0.004	-0.020	-0.265	5547.000	2119.000	13.990	22.580	19950.000	1963.000	<u>1587000.000</u>
σ		0.014	0.003	0.132	53.130	40.000	0.811	0.734	219.000	8.979	<u>7098.000</u>
%RSD		375.900	16.390	49.910	0.958	1.887	5.801	3.252	1.098	0.458	<u>0.447</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	17:21:57	<u>TM 37260.000</u>	1513.000	107.877%	107.608%	-0.131	0.109	0.328	11.230	29.010	1.789
2	17:22:01	<u>TM 37560.000</u>	1410.000	108.332%	107.848%	0.274	-0.054	0.322	12.320	29.820	1.840
3	17:22:04	<u>TM 37530.000</u>	1524.000	109.478%	107.806%	-0.102	0.034	0.332	12.030	29.080	1.825
x		<u>TM 37450.000</u>	1482.000	108.562%	107.754%	0.014	0.029	0.328	11.860	29.300	1.818
σ		<u>TM 163.600</u>	62.740	0.825%	0.128%	0.226	0.082	0.005	0.563	0.448	0.026
%RSD		<u>TM 0.437</u>	4.233	0.760	0.119	1657.000	278.000	1.556	4.743	1.529	1.436
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:21:57	0.001	0.519	2.384	62.740	105.241%	-0.006	1.608	0.837	106.043%	-0.048
2	17:22:01	-0.001	0.481	2.326	63.480	108.746%	-0.016	1.877	0.843	107.341%	-0.045
3	17:22:04	0.006	0.477	2.350	63.470	109.009%	0.004	1.590	0.871	107.543%	-0.056
x		0.002	0.492	2.354	63.230	107.665%	-0.006	1.692	0.850	106.975%	-0.050
σ		0.004	0.023	0.029	0.425	2.104%	0.010	0.161	0.018	0.814%	0.006
%RSD		182.400	4.658	1.241	0.671	1.954	160.200	9.510	2.130	0.761	11.390
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:21:57	-0.026	-0.075	-0.036	-0.041	105.961%	34.330	-0.054	0.042	<u>198.496%</u>	-0.055
2	17:22:01	-0.036	-0.093	-0.037	-0.042	108.622%	35.000	-0.060	0.035	<u>199.130%</u>	-0.054
3	17:22:04	-0.027	-0.052	-0.047	-0.038	109.593%	35.340	-0.062	0.038	<u>100.809%</u>	-0.053
x		-0.030	-0.073	-0.040	-0.040	108.059%	34.890	-0.059	0.039	<u>199.478%</u>	-0.054
σ		0.006	0.020	0.006	0.002	1.880%	0.516	0.004	0.003	<u>1.195%</u>	0.001
%RSD		18.490	27.930	14.710	4.835	1.740	1.478	7.012	8.510	<u>1.201</u>	1.739
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:21:57	0.452	-0.049	-0.031	102.340%	-0.057					
2	17:22:01	0.518	-0.049	-0.030	105.063%	-0.056					
3	17:22:04	0.459	-0.051	-0.028	104.990%	-0.056					
x		0.476	-0.050	-0.029	104.131%	-0.056					
σ		0.037	0.001	0.002	1.551%	0.000					
%RSD		7.672	1.450	5.158	1.490	0.848					

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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	17:29:05	-0.010	-0.028	0.034	4493.000	4919.000	14.660	33.600	<u>M61180.000</u>	3102.000	<u>T1646000.000</u>
2	17:29:09	-0.010	-0.034	-0.254	4542.000	4976.000	14.680	31.950	<u>M62330.000</u>	3029.000	<u>T1654000.000</u>
3	17:29:12	-0.006	-0.007	-0.518	4552.000	4990.000	15.810	36.840	<u>M62300.000</u>	3088.000	<u>T1640000.000</u>
X		-0.008	-0.023	-0.246	4529.000	4962.000	15.050	34.130	<u>M61930.000</u>	3073.000	<u>T1647000.000</u>
σ		0.002	0.014	0.276	31.340	37.650	0.655	2.485	<u>M655.900</u>	38.660	<u>T7098.000</u>
%RSD		27.660	61.040	112.100	0.692	0.759	4.352	7.280	<u>M1.059</u>	1.258	<u>T0.431</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	17:29:05	<u>T23440.000</u>	9413.000	99.588%	100.505%	0.780	0.236	0.278	10.000	144.700	43.120
2	17:29:09	<u>T23390.000</u>	9285.000	99.857%	99.921%	0.970	0.214	0.287	10.350	146.800	43.740
3	17:29:12	<u>T23340.000</u>	9709.000	100.937%	93.460%	1.056	0.316	0.307	10.480	146.600	44.230
X		<u>T23390.000</u>	9469.000	100.128%	97.962%	0.935	0.255	0.291	10.280	146.000	43.700
σ		<u>T52.640</u>	217.400	0.714%	3.910%	0.141	0.053	0.015	0.247	1.145	0.555
%RSD		<u>T0.225</u>	2.296	0.713	3.991	15.060	20.840	4.988	2.402	0.784	1.271
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:29:05	0.256	0.169	12.640	420.400	100.774%	0.053	11.330	10.630	98.748%	-0.040
2	17:29:09	0.248	0.247	12.680	421.700	103.011%	0.076	12.090	10.580	100.574%	-0.043
3	17:29:12	0.247	0.215	12.560	430.900	101.719%	0.102	12.230	10.660	102.305%	-0.045
X		0.250	0.210	12.630	424.300	101.835%	0.077	11.880	10.620	100.542%	-0.043
σ		0.005	0.039	0.061	5.745	1.123%	0.024	0.483	0.044	1.779%	0.002
%RSD		1.887	18.640	0.484	1.354	1.103	31.460	4.064	0.416	1.769	5.137
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:29:05	0.023	-0.078	0.007	-0.042	100.219%	32.350	-0.049	1.729	<u>T100.581%</u>	-0.039
2	17:29:09	0.042	-0.073	0.010	-0.040	102.166%	32.910	-0.048	1.647	<u>T100.123%</u>	-0.048
3	17:29:12	0.043	-0.051	-0.000	-0.049	103.394%	32.900	-0.051	1.741	<u>T100.305%</u>	-0.040
X		0.036	-0.067	0.006	-0.044	101.926%	32.720	-0.049	1.706	<u>T100.336%</u>	-0.042
σ		0.011	0.014	0.005	0.005	1.601%	0.320	0.001	0.051	<u>T0.231%</u>	0.005
%RSD		31.680	21.290	95.170	10.570	1.570	0.977	2.846	3.006	<u>T0.230</u>	12.460
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:29:05	0.034	-0.035	0.027	99.357%	-0.042					
2	17:29:09	0.047	-0.037	0.032	102.379%	-0.044					
3	17:29:12	0.021	-0.036	0.021	103.682%	-0.042					
X		0.034	-0.036	0.027	101.806%	-0.043					
σ		0.013	0.001	0.006	2.219%	0.001					
%RSD		39.050	2.900	20.650	2.180	2.977					

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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	17:36:12	0.012	-0.021	-0.378	4734.000	4711.000	8.156	32.820	<u>M 63380.000</u>	3122.000	<u>T 1518000.000</u>
2	17:36:16	0.009	-0.015	-0.094	4674.000	4641.000	7.081	31.530	<u>M 63150.000</u>	3041.000	<u>T 1488000.000</u>
3	17:36:19	-0.017	-0.021	-0.413	4804.000	4724.000	7.813	34.910	<u>M 64640.000</u>	3096.000	<u>T 1505000.000</u>
X		0.001	-0.019	-0.295	4737.000	4692.000	7.683	33.090	<u>M 63720.000</u>	3086.000	<u>T 1504000.000</u>
σ		0.016	0.004	0.175	65.000	44.870	0.549	1.704	<u>M 805.800</u>	41.540	<u>T 15200.000</u>
%RSD		1136.000	19.000	59.300	1.372	0.956	7.146	5.149	<u>M 1.265</u>	1.346	<u>T 1.011</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	17:36:12	<u>T 23210.000</u>	9967.000	97.689%	93.803%	1.272	0.194	0.331	10.020	154.400	71.460
2	17:36:16	<u>T 22810.000</u>	9784.000	100.382%	98.043%	1.279	0.176	0.351	10.310	152.500	70.880
3	17:36:19	<u>T 23050.000</u>	9879.000	100.272%	99.682%	0.185	0.230	0.326	10.220	155.300	71.920
X		<u>T 23020.000</u>	9877.000	99.448%	97.176%	0.912	0.200	0.336	10.180	154.100	71.420
σ		<u>T 201.600</u>	91.760	1.524%	3.034%	0.630	0.028	0.014	0.146	1.428	0.519
%RSD		<u>T 0.876</u>	0.929	1.532	3.122	69.070	13.900	4.045	1.435	0.927	0.727
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:12	0.328	0.229	13.000	402.300	99.050%	0.016	12.190	11.580	98.010%	-0.037
2	17:36:16	0.339	0.269	12.990	408.300	100.324%	0.121	11.940	11.370	100.056%	-0.052
3	17:36:19	0.323	0.274	13.030	403.600	102.954%	0.049	11.200	11.560	101.030%	-0.048
X		0.330	0.257	13.010	404.700	100.776%	0.062	11.780	11.500	99.699%	-0.046
σ		0.008	0.025	0.018	3.157	1.991%	0.054	0.518	0.117	1.541%	0.008
%RSD		2.446	9.758	0.140	0.780	1.975	86.950	4.397	1.015	1.546	16.980
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:12	0.011	-0.063	0.036	-0.035	100.237%	32.980	-0.054	2.044	<u>T 97.024%</u>	-0.055
2	17:36:16	0.020	-0.044	0.026	-0.044	103.088%	32.900	-0.048	2.061	<u>T 97.280%</u>	-0.054
3	17:36:19	0.046	-0.021	0.029	-0.041	104.096%	33.170	-0.043	2.127	<u>T 97.336%</u>	-0.047
X		0.026	-0.043	0.030	-0.040	102.474%	33.020	-0.048	2.078	<u>T 97.214%</u>	-0.052
σ		0.018	0.021	0.005	0.005	2.002%	0.139	0.005	0.044	<u>T 0.167%</u>	0.005
%RSD		70.530	49.360	17.140	11.530	1.954	0.420	11.300	2.118	<u>T 0.171</u>	8.945
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:36:12	0.051	-0.038	0.099	101.141%	-0.036					
2	17:36:16	0.059	-0.041	0.097	104.135%	-0.034					
3	17:36:19	0.035	-0.039	0.098	104.888%	-0.032					
X		0.048	-0.039	0.098	103.388%	-0.034					
σ		0.012	0.001	0.001	1.982%	0.002					
%RSD		25.440	3.503	0.689	1.917	6.729					

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10/3/2019 5:43:18 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	17:43:21	0.003	-0.002	-0.021	4191.000	4801.000	15.030	33.640	<u>M 62570.000</u>	3057.000	<u>T 1742000.000</u>
2	17:43:25	-0.014	-0.015	0.062	4191.000	4836.000	15.950	35.190	<u>M 63200.000</u>	3224.000	<u>T 1733000.000</u>
3	17:43:29	0.010	-0.034	-0.444	4186.000	4873.000	14.940	34.490	<u>M 63000.000</u>	3190.000	<u>T 1745000.000</u>
X		-0.000	-0.017	-0.134	4189.000	4837.000	15.310	34.440	<u>M 62920.000</u>	3157.000	<u>T 1740000.000</u>
σ		0.012	0.016	0.271	3.053	35.870	0.557	0.773	<u>M 321.600</u>	88.350	<u>T 6473.000</u>
%RSD		5371.000	93.600	202.000	0.073	0.742	3.639	2.245	<u>M 0.511</u>	2.799	<u>T 0.372</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	17:43:21	<u>T 23020.000</u>	8744.000	98.894%	98.678%	0.068	0.226	0.396	11.450	147.200	39.060
2	17:43:25	<u>T 23040.000</u>	8732.000	100.937%	98.622%	0.732	0.236	0.393	11.730	149.300	39.280
3	17:43:29	<u>T 23250.000</u>	8866.000	100.308%	100.083%	0.529	0.154	0.396	11.930	146.600	39.430
X		<u>T 23100.000</u>	8781.000	100.046%	99.128%	0.443	0.205	0.395	11.700	147.700	39.260
σ		<u>T 126.100</u>	74.130	1.046%	0.828%	0.340	0.044	0.002	0.240	1.388	0.185
%RSD		<u>T 0.546</u>	0.844	1.046	0.835	76.850	21.610	0.457	2.052	0.940	0.472
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:43:21	0.239	0.233	12.240	386.200	98.019%	0.054	12.240	10.890	98.427%	-0.049
2	17:43:25	0.238	0.187	12.090	388.400	100.186%	0.086	12.200	10.950	101.037%	-0.045
3	17:43:29	0.225	0.235	12.110	389.600	100.038%	0.062	11.580	10.970	100.299%	-0.046
X		0.234	0.218	12.150	388.000	99.415%	0.067	12.010	10.940	99.921%	-0.046
σ		0.008	0.028	0.079	1.721	1.211%	0.017	0.369	0.040	1.346%	0.002
%RSD		3.418	12.660	0.653	0.444	1.218	25.420	3.077	0.368	1.347	4.052
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:43:21	0.027	-0.038	0.033	-0.046	99.903%	33.320	-0.061	1.971	<u>T 95.875%</u>	-0.023
2	17:43:25	0.023	-0.071	0.036	-0.055	103.380%	33.220	-0.055	1.947	<u>T 96.863%</u>	-0.032
3	17:43:29	0.033	-0.063	0.038	-0.047	103.335%	32.880	-0.053	1.940	<u>T 97.262%</u>	-0.034
X		0.028	-0.057	0.036	-0.049	102.206%	33.140	-0.057	1.953	<u>T 96.667%</u>	-0.030
σ		0.005	0.017	0.003	0.005	1.994%	0.233	0.004	0.016	<u>T 0.714%</u>	0.006
%RSD		19.070	30.520	7.377	10.180	1.951	0.703	7.593	0.807	<u>T 0.739</u>	18.820
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:43:21	0.027	-0.050	0.015	100.405%	-0.052					
2	17:43:25	0.043	-0.053	0.016	103.126%	-0.052					
3	17:43:29	0.023	-0.046	0.010	103.494%	-0.050					
X		0.031	-0.050	0.014	102.341%	-0.051					
σ		0.010	0.004	0.003	1.687%	0.001					
%RSD		33.030	7.557	23.370	1.649	2.532					

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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	17:50:31	0.024	-0.034	-0.424	4491.000	4525.000	15.330	33.020	<u>M</u> 59740.000	2890.000	<u>T</u> 1783000.000
2	17:50:35	0.001	-0.015	-0.110	4455.000	4511.000	16.480	33.530	<u>M</u> 60280.000	2872.000	<u>T</u> 1777000.000
3	17:50:39	0.020	-0.021	-0.303	4438.000	4505.000	15.540	34.310	<u>M</u> 59530.000	2853.000	<u>T</u> 1748000.000
X		0.015	-0.023	-0.279	4462.000	4514.000	15.780	33.620	<u>M</u> 59850.000	2872.000	<u>T</u> 1769000.000
σ		0.012	0.010	0.158	27.120	9.872	0.609	0.650	<u>M</u> 391.500	18.430	<u>T</u> 18360.000
%RSD		84.240	41.030	56.660	0.608	0.219	3.860	1.935	<u>M</u> 0.654	0.642	<u>T</u> 1.038
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	17:50:31	<u>T</u> 22500.000	8967.000	96.388%	98.066%	1.196	0.343	0.451	11.660	184.500	39.970
2	17:50:35	<u>T</u> 22460.000	9106.000	99.720%	99.245%	0.965	0.157	0.438	12.170	182.500	39.800
3	17:50:39	<u>T</u> 22210.000	8986.000	98.396%	99.475%	0.910	0.346	0.488	11.200	186.700	40.080
X		<u>T</u> 22390.000	9020.000	98.168%	98.929%	1.023	0.282	0.459	11.680	184.500	39.950
σ		<u>T</u> 155.900	75.690	1.678%	0.756%	0.152	0.108	0.026	0.484	2.079	0.145
%RSD		<u>T</u> 0.697	0.839	1.709	0.764	14.840	38.390	5.642	4.142	1.127	0.363
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:50:31	0.224	0.196	66.220	471.200	97.453%	0.175	14.000	10.640	96.571%	-0.045
2	17:50:35	0.217	0.264	64.890	467.600	101.657%	0.134	14.230	10.820	100.047%	-0.063
3	17:50:39	0.235	0.255	65.620	473.900	99.927%	0.071	14.160	10.830	99.202%	-0.061
X		0.226	0.238	65.580	470.900	99.679%	0.127	14.130	10.760	98.606%	-0.056
σ		0.009	0.037	0.664	3.148	2.113%	0.052	0.121	0.107	1.813%	0.010
%RSD		4.054	15.610	1.013	0.668	2.120	41.350	0.858	0.992	1.838	17.330
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:50:31	0.046	-0.090	0.017	-0.050	97.818%	33.940	-0.051	2.532	<u>T</u> 97.706%	-0.046
2	17:50:35	0.028	-0.093	0.019	-0.023	101.404%	33.890	-0.064	2.655	<u>T</u> 97.907%	-0.051
3	17:50:39	0.028	-0.071	0.022	-0.050	100.619%	34.640	-0.057	2.593	<u>T</u> 98.100%	-0.050
X		0.034	-0.085	0.019	-0.041	99.947%	34.160	-0.057	2.593	<u>T</u> 97.904%	-0.049
σ		0.010	0.012	0.003	0.016	1.885%	0.418	0.007	0.062	<u>T</u> 0.197%	0.003
%RSD		30.780	14.240	13.420	37.880	1.886	1.224	11.830	2.372	<u>T</u> 0.201	5.820
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:50:31	0.030	-0.024	0.013	98.820%	-0.053					
2	17:50:35	0.034	-0.026	0.005	101.678%	-0.053					
3	17:50:39	0.062	-0.026	0.010	101.877%	-0.052					
X		0.042	-0.026	0.009	100.792%	-0.053					
σ		0.018	0.001	0.004	1.710%	0.001					
%RSD		42.400	4.305	45.840	1.697	1.428					

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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	17:57:40	-0.008	-0.014	-0.211	5357.000	4703.000	11.050	40.490	<u>M</u> 58960.000	2941.000	<u>T</u> 1806000.000
2	17:57:44	-0.006	-0.008	-0.305	5314.000	4782.000	11.840	40.460	<u>M</u> 58110.000	2828.000	<u>T</u> 1767000.000
3	17:57:47	0.012	-0.027	-0.195	5240.000	4667.000	10.980	40.200	<u>M</u> 57650.000	2818.000	<u>T</u> 1735000.000
X		-0.000	-0.017	-0.237	5304.000	4718.000	11.290	40.380	<u>M</u> 58240.000	2862.000	<u>T</u> 1769000.000
σ		0.011	0.010	0.059	59.610	58.600	0.479	0.163	<u>M</u> 666.800	68.450	<u>T</u> 35320.000
%RSD		2396.000	58.770	25.030	1.124	1.242	4.242	0.403	<u>M</u> 1.145	2.392	<u>T</u> 1.996
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	17:57:40	<u>T</u> 21310.000	9517.000	96.538%	96.436%	0.329	0.205	0.353	12.270	131.600	40.470
2	17:57:44	<u>T</u> 20970.000	9099.000	97.676%	97.273%	0.835	0.280	0.332	12.050	132.400	40.510
3	17:57:47	<u>T</u> 20620.000	9308.000	98.390%	97.335%	0.107	0.366	0.354	11.670	129.600	40.380
X		<u>T</u> 20970.000	9308.000	97.535%	97.015%	0.424	0.283	0.346	12.000	131.200	40.460
σ		<u>T</u> 345.000	209.000	0.934%	0.502%	0.373	0.081	0.012	0.305	1.437	0.070
%RSD		<u>T</u> 1.645	2.246	0.957	0.518	88.090	28.480	3.609	2.543	1.095	0.172
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:40	0.630	0.266	12.340	401.300	97.048%	0.027	16.290	11.940	97.277%	-0.056
2	17:57:44	0.655	0.225	12.600	398.800	98.511%	0.072	16.640	12.020	97.476%	-0.059
3	17:57:47	0.571	0.270	12.370	402.900	98.794%	0.061	16.050	11.980	97.896%	-0.055
X		0.619	0.254	12.440	401.000	98.118%	0.053	16.330	11.980	97.550%	-0.057
σ		0.043	0.025	0.141	2.066	0.937%	0.023	0.296	0.038	0.316%	0.002
%RSD		6.952	9.809	1.130	0.515	0.955	44.010	1.812	0.318	0.324	3.527
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:40	0.079	-0.051	0.011	-0.048	98.309%	30.320	-0.050	1.797	<u>T</u> 95.293%	-0.047
2	17:57:44	0.065	-0.028	0.015	-0.042	100.165%	30.210	-0.058	1.757	<u>T</u> 94.610%	-0.053
3	17:57:47	0.083	-0.076	0.008	-0.029	100.992%	30.530	-0.051	1.855	<u>T</u> 94.665%	-0.057
X		0.076	-0.052	0.011	-0.040	99.822%	30.350	-0.053	1.803	<u>T</u> 94.856%	-0.052
σ		0.009	0.024	0.004	0.009	1.374%	0.159	0.005	0.049	<u>T</u> 0.379%	0.005
%RSD		12.480	45.990	32.700	23.950	1.376	0.523	8.712	2.731	<u>T</u> 0.400	9.273
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:57:40	0.030	-0.027	0.044	99.020%	-0.042					
2	17:57:44	0.034	-0.029	0.040	101.504%	-0.039					
3	17:57:47	0.043	-0.029	0.042	102.771%	-0.039					
X		0.036	-0.028	0.042	101.099%	-0.040					
σ		0.007	0.002	0.002	1.908%	0.002					
%RSD		18.750	5.508	4.382	1.887	3.967					

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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	18:04:48	0.024	-0.034	0.625	5400.000	4648.000	10.150	28.190	<u>M</u> 59600.000	2935.000	<u>T</u> 1689000.000
2	18:04:52	-0.008	-0.015	-0.194	5431.000	4656.000	11.060	29.920	<u>M</u> 58830.000	2942.000	<u>T</u> 1676000.000
3	18:04:56	0.002	-0.027	-0.192	5355.000	4633.000	9.621	31.910	<u>M</u> 59030.000	2909.000	<u>T</u> 1668000.000
X		0.006	-0.025	0.080	5395.000	4646.000	10.280	30.000	<u>M</u> 59150.000	2929.000	<u>T</u> 1678000.000
σ		0.016	0.010	0.472	38.290	11.480	0.726	1.862	<u>M</u> 400.200	17.130	<u>T</u> 10320.000
%RSD		274.800	38.730	589.900	0.710	0.247	7.067	6.205	<u>M</u> 0.677	0.585	<u>T</u> 0.615
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	18:04:48	<u>T</u> 22180.000	8957.000	96.338%	95.185%	0.668	0.313	0.331	12.050	147.800	37.000
2	18:04:52	<u>T</u> 21970.000	9044.000	96.500%	97.234%	0.905	0.314	0.330	11.720	146.600	37.380
3	18:04:56	<u>T</u> 22100.000	9158.000	96.622%	97.070%	0.745	0.339	0.325	11.220	142.600	37.360
X		<u>T</u> 22080.000	9053.000	96.487%	96.497%	0.773	0.322	0.329	11.660	145.700	37.250
σ		<u>T</u> 102.700	100.800	0.142%	1.139%	0.121	0.015	0.003	0.414	2.742	0.215
%RSD		<u>T</u> 0.465	1.114	0.148	1.180	15.610	4.572	0.924	3.554	1.883	0.576
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:04:48	0.172	0.305	11.730	387.200	96.784%	0.014	10.120	10.470	97.594%	-0.051
2	18:04:52	0.190	0.310	11.820	390.200	97.913%	-0.028	10.460	10.460	98.287%	-0.058
3	18:04:56	0.184	0.263	11.800	391.200	97.979%	-0.004	9.874	10.880	97.377%	-0.050
X		0.182	0.292	11.780	389.500	97.558%	-0.006	10.150	10.600	97.753%	-0.053
σ		0.009	0.026	0.051	2.068	0.672%	0.021	0.294	0.236	0.475%	0.004
%RSD		5.172	8.849	0.433	0.531	0.688	348.700	2.897	2.230	0.486	8.172
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:04:48	0.023	-0.032	0.024	-0.029	99.324%	32.840	-0.059	1.645	<u>T</u> 94.569%	-0.051
2	18:04:52	0.011	-0.056	0.015	-0.044	101.157%	32.450	-0.054	1.689	<u>T</u> 95.481%	-0.047
3	18:04:56	0.018	-0.062	0.018	-0.044	100.207%	32.540	-0.054	1.669	<u>T</u> 95.633%	-0.057
X		0.017	-0.050	0.019	-0.039	100.229%	32.610	-0.056	1.667	<u>T</u> 95.228%	-0.052
σ		0.006	0.016	0.004	0.009	0.916%	0.205	0.003	0.022	<u>T</u> 0.576%	0.005
%RSD		35.270	31.830	22.360	22.800	0.914	0.628	5.301	1.313	<u>T</u> 0.605	9.907
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:04:48	0.034	-0.051	0.031	100.564%	-0.046					
2	18:04:52	0.041	-0.049	0.035	102.141%	-0.045					
3	18:04:56	0.058	-0.051	0.030	102.291%	-0.046					
X		0.044	-0.050	0.032	101.665%	-0.046					
σ		0.012	0.001	0.002	0.957%	0.000					
%RSD		27.130	2.143	7.120	0.941	0.640					

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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	18:11:57	94.360	98.660	96.790	5288.000	5071.000	5019.000	4951.000	5123.000	210.700	<u>2154000.000</u>
2	18:12:01	94.950	97.640	97.940	5383.000	5016.000	5071.000	5035.000	5052.000	200.800	<u>2124000.000</u>
3	18:12:05	94.570	99.140	92.050	5315.000	5059.000	5002.000	4999.000	5159.000	208.700	<u>2100000.000</u>
x		94.620	98.480	95.590	5329.000	5049.000	5031.000	4995.000	5112.000	206.700	<u>2126000.000</u>
σ		0.296	0.764	3.119	49.130	28.900	35.990	42.120	54.520	5.219	<u>27220.000</u>
%RSD		0.313	0.776	3.262	0.922	0.572	0.716	0.843	1.067	2.524	<u>1.280</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	18:11:57	5061.000	5218.000	93.276%	91.421%	98.580	97.350	98.900	28.650	4930.000	96.940
2	18:12:01	5081.000	5154.000	95.446%	91.937%	96.620	97.800	99.730	28.110	5005.000	98.620
3	18:12:05	5067.000	5115.000	96.470%	92.017%	98.240	97.850	99.280	28.540	4979.000	98.360
x		5070.000	5162.000	95.064%	91.792%	97.810	97.670	99.310	28.430	4971.000	97.980
σ		10.460	51.870	1.631%	0.324%	1.048	0.271	0.416	0.284	38.460	0.904
%RSD		0.206	1.005	1.716	0.353	1.071	0.278	0.419	0.999	0.774	0.923
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:57	97.670	99.280	99.900	99.570	93.914%	99.000	101.000	97.660	94.112%	99.960
2	18:12:01	99.330	100.300	101.800	101.100	96.019%	100.100	104.500	97.740	96.231%	101.100
3	18:12:05	98.080	99.830	100.600	99.730	98.029%	99.490	102.800	98.080	96.359%	101.700
x		98.360	99.800	100.800	100.100	95.987%	99.540	102.800	97.830	95.567%	100.900
σ		0.862	0.498	0.948	0.833	2.058%	0.567	1.758	0.225	1.262%	0.863
%RSD		0.876	0.499	0.941	0.832	2.144	0.570	1.710	0.230	1.320	0.856
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:57	101.100	101.800	51.300	105.400	96.729%	100.300	101.300	98.040	<u>92.585%</u>	101.900
2	18:12:01	100.900	103.100	52.220	105.600	98.954%	102.400	103.400	100.200	<u>93.082%</u>	103.500
3	18:12:05	102.500	102.800	52.420	105.700	100.307%	101.300	103.300	100.100	<u>92.962%</u>	103.000
x		101.500	102.600	51.980	105.600	98.663%	101.300	102.700	99.450	<u>92.876%</u>	102.800
σ		0.863	0.687	0.596	0.137	1.806%	1.079	1.173	1.220	<u>0.260%</u>	0.819
%RSD		0.851	0.669	1.147	0.130	1.831	1.064	1.142	1.226	<u>0.279</u>	0.797
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:11:57	4.955	101.500	99.530	96.152%	<u>104.900</u>					
2	18:12:01	5.136	103.100	100.300	99.518%	<u>101.500</u>					
3	18:12:05	5.078	102.600	100.900	99.934%	<u>102.000</u>					
x		5.056	102.400	100.200	98.535%	<u>102.800</u>					
σ		0.093	0.821	0.670	2.074%	<u>1.840</u>					
%RSD		1.833	0.802	0.668	2.105	<u>1.790</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	18:19:05	0.070	0.045	-0.250	3.165	1.859	5.233	-6.730	2.370	206.100	<u>1994000.000</u>
2	18:19:09	0.082	0.018	0.244	2.513	3.325	4.239	-3.602	3.008	209.300	<u>1954000.000</u>
3	18:19:13	0.046	0.070	0.020	3.133	1.886	4.543	-2.815	13.000	196.700	<u>1927000.000</u>
x		0.066	0.044	0.005	2.937	2.357	4.672	-4.382	6.126	204.100	<u>1958000.000</u>
σ		0.018	0.026	0.248	0.367	0.839	0.509	2.071	5.962	6.544	<u>133940.000</u>
%RSD		27.500	58.610	5225.000	12.510	35.590	10.900	47.260	97.320	3.207	<u>1.733</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:05	6.688	8.642	94.445%	95.092%	0.091	-0.084	0.008	11.980	3.438	0.008
2	18:19:09	9.402	14.150	96.481%	95.926%	-0.144	0.167	0.025	11.250	3.203	0.020
3	18:19:13	5.837	13.900	97.734%	95.897%	0.049	0.131	0.024	11.390	3.629	-0.001
x		7.309	12.230	96.220%	95.638%	-0.001	0.072	0.019	11.540	3.423	0.009
σ		1.861	3.112	1.660%	0.473%	0.126	0.136	0.010	0.386	0.214	0.010
%RSD		25.470	25.440	1.725	0.495	9348.000	189.700	50.450	3.348	6.241	116.900
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:05	-0.007	0.036	0.016	-0.073	93.087%	-0.043	-0.029	0.004	93.236%	0.005
2	18:19:09	0.005	0.029	0.053	-0.096	94.781%	-0.026	-0.082	-0.002	95.085%	-0.004
3	18:19:13	0.002	0.024	0.021	-0.129	97.611%	-0.004	-0.063	-0.007	95.705%	-0.004
x		-0.000	0.030	0.030	-0.099	95.160%	-0.024	-0.058	-0.001	94.675%	-0.001
σ		0.006	0.006	0.020	0.028	2.286%	0.020	0.027	0.005	1.284%	0.005
%RSD		10840.000	21.480	66.720	28.050	2.402	81.860	46.080	369.200	1.357	727.400
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:19:05	0.077	-0.018	0.004	0.002	92.866%	0.036	-0.010	0.003	<u>91.886%</u>	-0.005
2	18:19:09	0.080	0.001	0.007	-0.003	95.741%	0.032	-0.012	0.032	<u>92.753%</u>	-0.005
3	18:19:13	0.105	-0.006	-0.001	-0.010	96.239%	0.033	0.005	0.013	<u>91.803%</u>	-0.017
x		0.087	-0.007	0.003	-0.004	94.949%	0.034	-0.006	0.016	<u>92.147%</u>	-0.009
σ		0.015	0.009	0.004	0.006	1.821%	0.002	0.009	0.015	<u>0.526%</u>	0.007
%RSD		17.530	125.000	133.600	156.800	1.917	5.752	170.100	94.110	<u>0.571</u>	76.180
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:19:05	-0.004	0.026	0.004	94.123%	-0.006					
2	18:19:09	0.029	0.015	0.003	96.301%	-0.002					
3	18:19:13	-0.002	0.011	0.001	97.922%	-0.004					
x		0.008	0.017	0.003	96.115%	-0.004					
σ		0.018	0.008	0.002	1.906%	0.002					
%RSD		242.400	45.110	58.050	1.983	48.560					

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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	18:26:13	0.053	-0.021	0.504	<u>11730.000</u>	2185.000	23.620	32.270	<u>38820.000</u>	1809.000	<u>1436000.000</u>
2	18:26:17	0.062	-0.015	0.105	13190.000	2175.000	25.190	32.890	<u>39170.000</u>	1815.000	<u>1434000.000</u>
3	18:26:21	0.075	-0.009	0.220	<u>11820.000</u>	2204.000	25.250	38.880	<u>39100.000</u>	1825.000	<u>1430000.000</u>
X		0.064	-0.015	0.276	<u>12250.000</u>	2188.000	24.680	34.680	<u>39030.000</u>	1817.000	<u>1433000.000</u>
σ		0.011	0.006	0.206	<u>820.100</u>	14.360	0.927	3.650	<u>187.100</u>	8.156	<u>2694.000</u>
%RSD		17.160	40.170	74.500	<u>6.695</u>	0.656	3.754	10.520	<u>0.479</u>	0.449	<u>0.188</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	18:26:13	<u>31190.000</u>	645.100	101.277%	98.325%	0.048	5.829	0.512	8.035	4750.000	25.360
2	18:26:17	<u>31370.000</u>	665.600	102.836%	99.383%	0.305	5.766	0.497	8.311	4768.000	25.320
3	18:26:21	<u>31330.000</u>	631.900	103.303%	100.584%	0.058	5.705	0.513	8.319	4729.000	25.470
X		<u>31300.000</u>	647.500	102.472%	99.431%	0.137	5.767	0.507	8.222	4749.000	25.390
σ		<u>93.460</u>	16.950	1.061%	1.131%	0.145	0.062	0.009	0.162	19.190	0.077
%RSD		<u>0.299</u>	2.618	1.035	1.137	106.400	1.074	1.810	1.967	0.404	0.304
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:13	0.367	0.315	19.760	231.900	100.064%	0.017	9.126	0.671	99.647%	0.060
2	18:26:17	0.354	0.280	19.540	231.300	103.185%	-0.034	10.350	0.622	101.924%	0.041
3	18:26:21	0.349	0.343	19.730	230.600	104.105%	-0.070	10.480	0.687	102.560%	0.015
X		0.357	0.313	19.680	231.200	102.451%	-0.029	9.986	0.660	101.377%	0.038
σ		0.009	0.032	0.120	0.661	2.118%	0.044	0.748	0.033	1.532%	0.022
%RSD		2.620	10.140	0.612	0.286	2.067	151.500	7.487	5.071	1.511	58.480
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:13	1.742	-0.054	-0.008	2.517	100.363%	36.080	-0.042	0.125	<u>95.529%</u>	-0.024
2	18:26:17	1.833	-0.075	-0.020	2.443	103.120%	35.560	-0.052	0.089	<u>96.239%</u>	-0.034
3	18:26:21	1.782	-0.072	-0.014	2.620	103.686%	35.720	-0.045	0.083	<u>97.305%</u>	-0.027
X		1.785	-0.067	-0.014	2.527	102.389%	35.790	-0.046	0.099	<u>96.358%</u>	-0.028
σ		0.045	0.012	0.006	0.089	1.778%	0.268	0.005	0.023	<u>0.894%</u>	0.005
%RSD		2.547	17.410	40.030	3.523	1.736	0.749	11.380	23.170	<u>0.928</u>	18.170
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:26:13	1.343	0.093	0.427	98.459%	-0.017					
2	18:26:17	1.414	0.093	0.434	100.722%	-0.024					
3	18:26:21	1.437	0.084	0.436	100.966%	-0.024					
X		1.398	0.090	0.432	100.049%	-0.022					
σ		0.049	0.005	0.005	1.383%	0.004					
%RSD		3.487	5.878	1.126	1.382	18.010					

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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	18:33:20	0.024	-0.003	-0.134	<u>13660.000</u>	2025.000	43.330	80.080	<u>M35740.000</u>	1823.000	<u>1791000.000</u>
2	18:33:24	0.018	-0.009	-0.009	<u>13220.000</u>	1993.000	46.650	77.870	<u>M35240.000</u>	1835.000	<u>1753000.000</u>
3	18:33:27	-0.004	-0.022	-0.016	<u>13410.000</u>	2007.000	47.100	79.030	<u>M35850.000</u>	1808.000	<u>1766000.000</u>
X		0.013	-0.012	-0.053	<u>13430.000</u>	2008.000	45.690	78.990	<u>M35610.000</u>	1822.000	<u>1770000.000</u>
σ		0.014	0.010	0.070	<u>1219.700</u>	15.980	2.058	1.104	<u>M322.100</u>	13.330	<u>19330.000</u>
%RSD		112.700	85.760	132.500	<u>1.636</u>	0.796	4.505	1.398	<u>M0.904</u>	0.732	<u>1.092</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	18:33:20	<u>TM29000.000</u>	533.000	102.276%	101.072%	0.097	7.128	0.381	8.153	8096.000	15.370
2	18:33:24	<u>TM28320.000</u>	619.400	105.701%	101.607%	0.302	7.099	0.385	8.298	8078.000	15.160
3	18:33:27	<u>TM28630.000</u>	550.900	105.015%	109.718%	0.205	7.014	0.388	9.061	8201.000	15.610
X		<u>TM28650.000</u>	567.800	104.331%	104.132%	0.201	7.080	0.385	8.504	8125.000	15.380
σ		<u>TM342.200</u>	45.600	1.812%	4.845%	0.103	0.059	0.004	0.488	66.080	0.223
%RSD		<u>TM1.195</u>	8.031	1.737	4.653	51.060	0.835	0.936	5.735	0.813	1.450
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:20	0.746	0.198	19.590	220.600	101.685%	0.016	12.980	0.435	101.048%	0.224
2	18:33:24	0.771	0.270	19.640	224.800	104.017%	0.026	12.390	0.432	103.463%	0.248
3	18:33:27	0.720	0.251	19.780	224.000	105.173%	0.013	12.620	0.445	102.940%	0.248
X		0.746	0.240	19.670	223.100	103.625%	0.019	12.660	0.437	102.483%	0.240
σ		0.025	0.037	0.098	2.244	1.777%	0.007	0.295	0.006	1.270%	0.014
%RSD		3.394	15.620	0.498	1.006	1.715	36.770	2.330	1.478	1.240	5.635
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:20	2.393	-0.063	-0.026	3.080	100.686%	31.280	-0.044	0.111	<u>198.009%</u>	-0.045
2	18:33:24	2.320	-0.070	-0.019	3.149	104.175%	31.690	-0.033	0.089	<u>198.015%</u>	-0.040
3	18:33:27	2.433	-0.065	-0.018	3.181	104.843%	31.850	-0.046	0.121	<u>198.137%</u>	-0.047
X		2.382	-0.066	-0.021	3.137	103.235%	31.600	-0.041	0.107	<u>198.054%</u>	-0.044
σ		0.057	0.004	0.004	0.052	2.232%	0.295	0.007	0.016	<u>10.072%</u>	0.003
%RSD		2.407	5.446	19.370	1.647	2.162	0.933	16.280	15.000	<u>10.073</u>	7.201
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:33:20	2.287	0.052	0.607	98.348%	-0.000					
2	18:33:24	2.193	0.053	0.611	100.286%	0.007					
3	18:33:27	2.419	0.051	0.585	101.861%	0.000					
X		2.300	0.052	0.601	100.165%	0.002					
σ		0.113	0.001	0.014	1.760%	0.004					
%RSD		4.930	2.112	2.312	1.757	177.300					

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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	18:40:29	0.024	-0.028	-0.095	<u>11040.000</u>	2188.000	49.720	47.030	<u>37450.000</u>	1887.000	<u>1610000.000</u>
2	18:40:33	0.033	-0.028	-0.098	<u>10810.000</u>	2223.000	49.960	49.930	<u>37930.000</u>	1873.000	<u>1593000.000</u>
3	18:40:37	0.020	-0.022	-0.066	12320.000	2175.000	47.570	49.580	<u>37480.000</u>	1812.000	<u>1569000.000</u>
X		0.025	-0.026	-0.086	<u>11390.000</u>	2195.000	49.080	48.850	<u>37620.000</u>	1857.000	<u>1590000.000</u>
σ		0.007	0.003	0.018	<u>812.400</u>	25.190	1.317	1.587	<u>269.700</u>	39.770	<u>20780.000</u>
%RSD		26.820	13.130	20.330	<u>7.134</u>	1.147	2.684	3.248	<u>0.717</u>	2.141	<u>1.306</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	18:40:29	<u>33660.000</u>	458.800	103.895%	106.109%	0.169	5.834	0.502	9.118	4119.000	16.890
2	18:40:33	<u>33600.000</u>	539.300	105.048%	106.361%	0.240	5.969	0.449	8.684	4130.000	16.930
3	18:40:37	<u>33170.000</u>	541.100	106.767%	105.853%	0.477	5.913	0.488	8.947	4123.000	16.850
X		<u>33480.000</u>	513.000	105.237%	106.108%	0.295	5.905	0.480	8.916	4124.000	16.890
σ		<u>265.300</u>	47.010	1.445%	0.254%	0.162	0.068	0.028	0.219	5.596	0.042
%RSD		<u>0.792</u>	9.164	1.373	0.239	54.660	1.153	5.765	2.454	0.136	0.247
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:40:29	0.572	0.305	28.810	247.700	102.948%	0.029	11.630	0.513	102.017%	-0.042
2	18:40:33	0.587	0.277	28.680	245.600	105.715%	0.019	11.300	0.531	104.210%	-0.036
3	18:40:37	0.582	0.249	28.550	246.900	106.783%	0.042	11.600	0.515	105.064%	-0.033
X		0.580	0.277	28.680	246.700	105.149%	0.030	11.510	0.520	103.764%	-0.037
σ		0.007	0.028	0.127	1.072	1.979%	0.012	0.180	0.010	1.572%	0.005
%RSD		1.255	10.240	0.444	0.435	1.882	38.430	1.566	1.937	1.515	12.130
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:40:29	1.670	-0.077	-0.009	3.664	102.921%	33.910	-0.052	0.097	<u>97.247%</u>	-0.047
2	18:40:33	1.701	-0.081	0.003	3.850	105.112%	34.390	-0.058	0.074	<u>97.118%</u>	-0.052
3	18:40:37	1.672	-0.085	-0.006	3.788	105.778%	34.400	-0.052	0.072	<u>97.589%</u>	-0.045
X		1.681	-0.081	-0.004	3.767	104.604%	34.230	-0.054	0.081	<u>97.318%</u>	-0.048
σ		0.018	0.004	0.006	0.094	1.495%	0.279	0.003	0.014	<u>0.243%</u>	0.004
%RSD		1.045	4.872	165.300	2.508	1.429	0.814	5.926	17.490	<u>0.250</u>	7.745
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:40:29	1.417	0.116	0.570	99.029%	-0.039					
2	18:40:33	1.373	0.117	0.575	100.457%	-0.037					
3	18:40:37	1.493	0.108	0.582	101.491%	-0.037					
X		1.428	0.114	0.576	100.326%	-0.038					
σ		0.061	0.005	0.006	1.236%	0.001					
%RSD		4.245	4.239	1.071	1.232	3.386					

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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	18:47:37	-0.002	-0.034	0.027	<u>11760.000</u>	1732.000	75.060	72.500	<u>32970.000</u>	1925.000	<u>1662000.000</u>
2	18:47:41	-0.007	-0.016	-0.216	<u>11800.000</u>	1751.000	74.560	76.400	<u>33350.000</u>	1952.000	<u>1664000.000</u>
3	18:47:45	-0.003	-0.034	-0.534	<u>11830.000</u>	1743.000	76.410	73.680	<u>32890.000</u>	1971.000	<u>1643000.000</u>
X		-0.004	-0.028	-0.241	<u>11800.000</u>	1742.000	75.350	74.190	<u>33070.000</u>	1949.000	<u>1656000.000</u>
σ		0.003	0.010	0.281	<u>38.590</u>	9.302	0.958	1.997	<u>248.400</u>	22.960	<u>11390.000</u>
%RSD		74.810	37.550	116.900	<u>0.327</u>	0.534	1.272	2.692	<u>0.751</u>	1.178	<u>0.688</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	18:47:37	<u>28960.000</u>	580.700	104.787%	102.772%	0.050	5.570	0.538	8.952	4947.000	15.200
2	18:47:41	<u>29050.000</u>	651.100	106.006%	103.395%	0.154	5.694	0.516	9.316	4992.000	15.260
3	18:47:45	<u>28720.000</u>	713.800	107.240%	104.041%	0.256	5.672	0.485	9.605	4950.000	15.240
X		<u>28910.000</u>	648.500	106.011%	103.403%	0.154	5.645	0.513	9.291	4963.000	15.230
σ		<u>167.900</u>	66.570	1.227%	0.635%	0.103	0.066	0.026	0.327	25.090	0.028
%RSD		<u>0.581</u>	10.270	1.157	0.614	66.980	1.171	5.139	3.523	0.505	0.186
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:37	0.627	0.302	23.160	256.700	103.284%	0.117	17.880	0.906	103.098%	-0.047
2	18:47:41	0.629	0.321	22.930	257.700	105.945%	0.189	16.690	0.874	105.207%	-0.042
3	18:47:45	0.589	0.378	22.870	258.900	105.738%	0.228	17.380	0.965	105.595%	-0.035
X		0.615	0.334	22.990	257.800	104.989%	0.178	17.320	0.915	104.633%	-0.042
σ		0.023	0.040	0.154	1.086	1.480%	0.056	0.596	0.047	1.344%	0.006
%RSD		3.704	11.870	0.671	0.421	1.410	31.530	3.440	5.096	1.284	14.740
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:37	1.777	-0.071	0.009	4.748	103.265%	33.950	-0.041	0.135	<u>96.285%</u>	-0.052
2	18:47:41	1.684	-0.080	0.002	4.666	105.846%	33.600	-0.052	0.147	<u>96.795%</u>	-0.056
3	18:47:45	1.763	-0.077	0.003	4.788	106.206%	33.470	-0.048	0.115	<u>96.672%</u>	-0.048
X		1.741	-0.076	0.005	4.734	105.106%	33.670	-0.047	0.132	<u>96.584%</u>	-0.052
σ		0.050	0.004	0.004	0.062	1.604%	0.246	0.005	0.016	<u>0.266%</u>	0.004
%RSD		2.876	5.752	77.450	1.314	1.527	0.732	11.560	12.330	<u>0.276</u>	7.461
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:47:37	3.790	0.112	0.706	99.357%	-0.025					
2	18:47:41	3.804	0.099	0.706	101.427%	-0.031					
3	18:47:45	3.866	0.120	0.695	101.765%	-0.024					
X		3.820	0.111	0.702	100.850%	-0.027					
σ		0.041	0.011	0.006	1.304%	0.004					
%RSD		1.067	9.509	0.912	1.293	13.640					

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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	18:54:46	-0.020	-0.022	-0.170	<u>11370.000</u>	1920.000	42.880	121.800	<u>M34020.000</u>	1880.000	<u>1545000.000</u>
2	18:54:50	-0.019	-0.034	-0.119	<u>11390.000</u>	1936.000	43.810	125.400	<u>M34640.000</u>	1931.000	<u>1534000.000</u>
3	18:54:54	-0.019	-0.028	0.187	<u>11340.000</u>	1898.000	44.000	127.400	<u>M34580.000</u>	1936.000	<u>1516000.000</u>
X		-0.019	-0.028	-0.034	<u>11370.000</u>	1918.000	43.560	124.900	<u>M34420.000</u>	1916.000	<u>1532000.000</u>
σ		0.001	0.006	0.193	<u>26.410</u>	18.840	0.601	2.833	<u>M342.300</u>	31.010	<u>14950.000</u>
%RSD		3.931	22.070	573.000	<u>0.232</u>	0.982	1.379	2.269	<u>M0.994</u>	1.619	<u>0.976</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	18:54:46	<u>TM31860.000</u>	460.500	105.327%	101.751%	-0.000	7.509	0.417	9.140	6956.000	16.790
2	18:54:50	<u>TM31710.000</u>	514.400	106.796%	103.943%	0.288	7.740	0.453	9.066	6957.000	16.920
3	18:54:54	<u>TM31430.000</u>	525.600	107.761%	104.267%	0.319	7.530	0.461	8.941	6985.000	16.970
X		<u>TM31670.000</u>	500.100	106.628%	103.320%	0.202	7.593	0.444	9.049	6966.000	16.890
σ		<u>TM222.600</u>	34.790	1.226%	1.369%	0.176	0.128	0.023	0.100	16.720	0.089
%RSD		<u>TM0.703</u>	6.956	1.150	1.325	86.940	1.686	5.289	1.108	0.240	0.530
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:46	0.929	0.288	21.180	265.500	102.695%	0.102	19.790	0.502	102.639%	0.013
2	18:54:50	0.929	0.217	21.170	262.700	106.575%	0.076	19.430	0.534	105.515%	0.021
3	18:54:54	0.958	0.236	21.190	263.900	107.004%	0.119	19.210	0.510	105.680%	0.015
X		0.939	0.247	21.180	264.000	105.424%	0.099	19.480	0.515	104.611%	0.016
σ		0.017	0.037	0.012	1.417	2.374%	0.022	0.291	0.017	1.710%	0.004
%RSD		1.773	15.000	0.056	0.537	2.252	22.040	1.493	3.251	1.635	26.450
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:46	1.783	-0.076	-0.009	4.643	102.931%	34.330	-0.046	0.048	<u>199.008%</u>	-0.038
2	18:54:50	1.743	-0.069	-0.015	4.863	105.957%	34.560	-0.048	0.051	<u>198.236%</u>	-0.042
3	18:54:54	1.808	-0.094	0.007	4.708	106.087%	34.700	-0.055	0.038	<u>198.198%</u>	-0.038
X		1.778	-0.080	-0.006	4.738	104.992%	34.530	-0.050	0.046	<u>198.481%</u>	-0.040
σ		0.033	0.013	0.012	0.113	1.785%	0.187	0.005	0.007	<u>190.457%</u>	0.002
%RSD		1.841	16.250	209.000	2.386	1.700	0.541	9.419	15.710	<u>10.464</u>	5.364
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:54:46	2.185	0.128	0.648	97.399%	-0.035					
2	18:54:50	2.067	0.143	0.658	100.917%	-0.034					
3	18:54:54	2.060	0.146	0.662	100.246%	-0.032					
X		2.104	0.139	0.656	99.521%	-0.034					
σ		0.070	0.010	0.007	1.868%	0.002					
%RSD		3.337	6.855	1.074	1.877	5.044					

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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	19:01:56	-0.005	-0.034	0.014	<u>12380.000</u>	2160.000	25.120	32.320	<u>36310.000</u>	1667.000	<u>1519000.000</u>
2	19:02:00	0.015	-0.022	-0.365	<u>12050.000</u>	2148.000	25.500	32.940	<u>36640.000</u>	1715.000	<u>1497000.000</u>
3	19:02:04	-0.006	-0.028	-0.144	<u>11920.000</u>	2110.000	24.600	33.520	<u>36390.000</u>	1724.000	<u>1498000.000</u>
X		0.002	-0.028	-0.165	<u>12120.000</u>	2139.000	25.070	32.930	<u>36450.000</u>	1702.000	<u>1505000.000</u>
σ		0.012	0.006	0.190	<u>238.800</u>	26.350	0.451	0.601	<u>170.300</u>	30.870	<u>12550.000</u>
%RSD		763.800	21.210	115.200	<u>1.971</u>	1.232	1.797	1.824	<u>0.467</u>	1.813	<u>0.834</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	19:01:56	<u>31600.000</u>	566.300	105.108%	103.737%	-0.054	4.620	0.445	9.462	3074.000	18.170
2	19:02:00	<u>31390.000</u>	510.000	106.766%	105.244%	0.196	4.566	0.414	10.060	3090.000	18.650
3	19:02:04	<u>31320.000</u>	486.600	108.344%	106.015%	0.372	4.910	0.406	10.010	3037.000	18.110
X		<u>31440.000</u>	521.000	106.740%	104.999%	0.171	4.699	0.422	9.843	3067.000	18.310
σ		<u>144.400</u>	40.970	1.618%	1.159%	0.214	0.185	0.021	0.331	27.250	0.296
%RSD		<u>0.459</u>	7.863	1.516	1.104	125.200	3.946	4.870	3.358	0.888	1.617
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:56	0.446	0.303	16.530	216.900	103.895%	0.018	8.772	0.464	103.991%	-0.035
2	19:02:00	0.414	0.304	16.550	218.900	106.162%	0.020	8.671	0.437	105.320%	-0.042
3	19:02:04	0.436	0.262	16.320	213.300	109.328%	-0.012	8.490	0.462	106.072%	-0.034
X		0.432	0.290	16.470	216.400	106.462%	0.009	8.644	0.455	105.128%	-0.037
σ		0.016	0.024	0.128	2.849	2.729%	0.018	0.143	0.015	1.053%	0.004
%RSD		3.751	8.213	0.774	1.317	2.563	205.600	1.655	3.368	1.002	11.300
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:56	0.920	-0.108	-0.017	2.003	103.086%	35.560	-0.067	0.051	<u>97.123%</u>	-0.040
2	19:02:00	0.883	-0.087	-0.025	1.926	105.928%	35.480	-0.060	0.076	<u>97.883%</u>	-0.034
3	19:02:04	0.918	-0.064	-0.020	1.971	105.884%	35.740	-0.072	0.058	<u>97.455%</u>	-0.040
X		0.907	-0.086	-0.020	1.967	104.966%	35.600	-0.066	0.062	<u>97.487%</u>	-0.038
σ		0.021	0.022	0.004	0.039	1.628%	0.134	0.006	0.013	<u>0.381%</u>	0.004
%RSD		2.275	25.530	19.090	1.972	1.551	0.377	8.495	20.800	<u>0.391</u>	9.795
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:01:56	1.549	0.049	0.404	98.538%	-0.048					
2	19:02:00	1.588	0.052	0.404	99.927%	-0.048					
3	19:02:04	1.428	0.049	0.405	100.484%	-0.048					
X		1.522	0.050	0.404	99.650%	-0.048					
σ		0.083	0.002	0.000	1.002%	0.000					
%RSD		5.474	4.281	0.094	1.006	0.279					

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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	19:09:04	-0.009	-0.022	-0.288	4702.000	2970.000	12.220	46.500	21790.000	2424.000	<u>1565000.000</u>
2	19:09:08	-0.028	-0.034	-0.483	4695.000	2927.000	13.020	46.920	21660.000	2343.000	<u>1523000.000</u>
3	19:09:12	-0.038	-0.022	-0.346	4714.000	2944.000	13.800	42.670	21730.000	2425.000	<u>1537000.000</u>
X		-0.025	-0.026	-0.373	4704.000	2947.000	13.010	45.370	21730.000	2397.000	<u>1541000.000</u>
σ		0.015	0.007	0.100	9.811	21.480	0.791	2.340	64.900	47.320	<u>121090.000</u>
%RSD		59.230	26.670	26.890	0.209	0.729	6.076	5.158	0.299	1.974	<u>1.368</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	<u>TM 41600.000</u>	2302.000	104.733%	102.896%	0.150	-0.004	0.562	10.600	16.870	1.677
2	19:09:08	<u>TM 40520.000</u>	2167.000	107.232%	104.176%	-0.062	0.074	0.541	10.350	17.040	1.640
3	19:09:12	<u>TM 40760.000</u>	2084.000	107.025%	105.863%	0.141	0.053	0.526	10.760	15.530	1.608
X		<u>TM 40960.000</u>	2185.000	106.330%	104.311%	0.076	0.041	0.543	10.570	16.480	1.642
σ		<u>TM 567.600</u>	110.100	1.387%	1.488%	0.120	0.040	0.018	0.207	0.828	0.034
%RSD		<u>TM 1.386</u>	5.042	1.305	1.427	157.600	98.140	3.294	1.960	5.026	2.078
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	-0.016	0.691	3.245	69.800	103.885%	0.816	4.900	0.761	103.322%	-0.019
2	19:09:08	-0.018	0.637	3.141	68.780	105.805%	0.810	5.069	0.762	105.622%	-0.027
3	19:09:12	-0.014	0.698	3.171	67.880	107.204%	0.762	4.654	0.746	105.853%	-0.025
X		-0.016	0.675	3.186	68.820	105.631%	0.796	4.874	0.756	104.932%	-0.024
σ		0.002	0.033	0.053	0.962	1.666%	0.029	0.209	0.009	1.399%	0.004
%RSD		12.170	4.940	1.677	1.398	1.577	3.671	4.280	1.226	1.334	16.520
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	0.058	-0.059	-0.034	-0.063	103.750%	36.170	-0.048	0.067	<u>195.513%</u>	-0.051
2	19:09:08	0.055	-0.092	-0.028	-0.053	105.981%	36.800	-0.060	0.065	<u>196.457%</u>	-0.051
3	19:09:12	0.056	-0.066	-0.043	-0.063	106.773%	36.220	-0.058	0.066	<u>197.797%</u>	-0.048
X		0.056	-0.073	-0.035	-0.060	105.501%	36.400	-0.055	0.066	<u>196.589%</u>	-0.050
σ		0.001	0.017	0.007	0.006	1.568%	0.353	0.006	0.001	<u>1.148%</u>	0.001
%RSD		2.199	23.600	21.280	9.643	1.486	0.971	11.780	1.855	<u>1.188</u>	2.621
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:09:04	0.407	-0.041	0.019	100.079%	-0.058					
2	19:09:08	0.400	-0.034	0.017	101.703%	-0.058					
3	19:09:12	0.438	-0.035	0.012	102.416%	-0.059					
X		0.415	-0.037	0.016	101.400%	-0.058					
σ		0.020	0.004	0.003	1.198%	0.000					
%RSD		4.812	10.540	21.110	1.181	0.185					

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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	19:16:13	-0.018	-0.034	-0.140	5096.000	2824.000	6.851	41.450	23810.000	2281.000	<u>1604000.000</u>
2	19:16:17	-0.016	-0.034	-0.696	5125.000	2810.000	7.057	40.190	24290.000	2263.000	<u>1583000.000</u>
3	19:16:21	-0.026	-0.021	-0.225	5028.000	2830.000	6.751	40.510	23860.000	2233.000	<u>1570000.000</u>
X		-0.020	-0.030	-0.354	5083.000	2821.000	6.886	40.720	23990.000	2259.000	<u>1586000.000</u>
σ		0.005	0.007	0.299	49.410	10.460	0.156	0.651	263.200	24.210	<u>17520.000</u>
%RSD		25.900	24.950	84.600	0.972	0.371	2.270	1.600	1.097	1.072	<u>1.105</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	19:16:13	<u>TM 39390.000</u>	10030.000	95.659%	97.400%	0.283	0.100	0.330	7.516	21.530	3.391
2	19:16:17	<u>TM 39320.000</u>	9727.000	95.265%	97.761%	0.633	0.050	0.331	7.418	21.320	3.465
3	19:16:21	<u>TM 38860.000</u>	9496.000	96.651%	97.538%	0.174	0.091	0.362	7.370	22.500	3.471
X		<u>TM 39190.000</u>	9750.000	95.858%	97.567%	0.363	0.080	0.341	7.435	21.780	3.442
σ		<u>TM 285.700</u>	266.100	0.714%	0.182%	0.240	0.027	0.018	0.075	0.632	0.045
%RSD		<u>TM 0.729</u>	2.729	0.745	0.187	66.130	33.360	5.304	1.004	2.902	1.303
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:16:13	-0.006	0.253	1.468	84.130	95.186%	0.835	4.429	6.028	96.758%	-0.045
2	19:16:17	-0.017	0.254	1.550	84.070	98.054%	0.826	4.124	6.341	97.101%	-0.050
3	19:16:21	-0.024	0.295	1.534	85.250	96.829%	0.952	4.333	6.175	97.558%	-0.045
X		-0.016	0.268	1.517	84.480	96.690%	0.871	4.295	6.181	97.139%	-0.046
σ		0.009	0.024	0.043	0.665	1.439%	0.070	0.156	0.157	0.402%	0.003
%RSD		57.510	8.966	2.841	0.787	1.488	8.061	3.631	2.538	0.413	6.508
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:16:13	0.084	-0.063	-0.041	-0.050	97.695%	37.610	-0.052	0.550	<u>196.481%</u>	-0.066
2	19:16:17	0.098	-0.053	-0.029	-0.059	98.987%	38.270	-0.062	0.531	<u>196.601%</u>	-0.059
3	19:16:21	0.101	-0.056	-0.050	-0.061	100.793%	37.430	-0.056	0.663	<u>195.898%</u>	-0.065
X		0.094	-0.057	-0.040	-0.056	99.158%	37.770	-0.057	0.582	<u>196.327%</u>	-0.063
σ		0.009	0.005	0.010	0.006	1.556%	0.442	0.005	0.071	<u>196.376%</u>	0.004
%RSD		9.902	9.357	25.450	10.440	1.569	1.170	8.214	12.270	<u>10.391</u>	5.905
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:16:13	0.437	-0.033	-0.026	97.103%	-0.057					
2	19:16:17	0.549	-0.034	-0.022	98.307%	-0.057					
3	19:16:21	0.530	-0.033	-0.029	99.807%	-0.057					
X		0.505	-0.034	-0.025	98.406%	-0.057					
σ		0.060	0.001	0.004	1.354%	0.000					
%RSD		11.860	2.419	14.200	1.376	0.282					

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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	19:23:21	-0.034	-0.027	-0.150	4839.000	2787.000	16.980	56.590	20690.000	2358.000	1560000.000
2	19:23:25	-0.021	-0.009	-0.378	4854.000	2797.000	17.160	55.820	20700.000	2464.000	1530000.000
3	19:23:29	-0.026	-0.034	-0.460	4769.000	2789.000	15.620	52.170	20370.000	2354.000	1518000.000
X		-0.027	-0.023	-0.329	4821.000	2791.000	16.590	54.860	20590.000	2392.000	1536000.000
σ		0.006	0.013	0.161	45.560	4.936	0.841	2.364	187.900	62.090	21910.000
%RSD		22.410	56.230	48.760	0.945	0.177	5.072	4.310	0.913	2.596	1.426
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	19:23:21	TM 40050.000	2061.000	100.041%	98.128%	0.081	-0.029	0.382	9.950	13.830	1.673
2	19:23:25	TM 39430.000	1983.000	101.398%	98.916%	0.436	0.089	0.447	10.040	14.250	1.647
3	19:23:29	TM 39000.000	2063.000	102.276%	98.952%	0.626	0.056	0.392	10.180	13.910	1.678
X		TM 39490.000	2036.000	101.238%	98.666%	0.381	0.039	0.407	10.060	14.000	1.666
σ		TM 531.400	45.520	1.126%	0.466%	0.277	0.061	0.035	0.117	0.221	0.017
%RSD		TM 1.346	2.236	1.112	0.472	72.640	157.100	8.590	1.166	1.581	1.011
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:23:21	-0.006	0.352	1.652	67.220	99.760%	0.479	5.269	0.808	98.595%	-0.038
2	19:23:25	-0.022	0.299	1.664	67.470	101.718%	0.569	5.467	0.822	102.088%	-0.031
3	19:23:29	-0.022	0.263	1.685	67.760	101.704%	0.545	5.402	0.811	101.709%	-0.052
X		-0.017	0.305	1.667	67.480	101.060%	0.531	5.379	0.813	100.797%	-0.040
σ		0.009	0.045	0.017	0.269	1.126%	0.046	0.101	0.008	1.917%	0.011
%RSD		54.850	14.680	1.020	0.399	1.114	8.750	1.878	0.947	1.902	27.100
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:23:21	0.075	-0.046	-0.035	-0.059	99.142%	35.740	-0.064	0.089	197.862%	-0.067
2	19:23:25	0.045	-0.060	-0.030	-0.055	103.125%	35.650	-0.058	0.083	197.339%	-0.059
3	19:23:29	0.075	-0.076	-0.030	-0.063	102.526%	35.090	-0.065	0.077	196.565%	-0.056
X		0.065	-0.060	-0.032	-0.059	101.597%	35.490	-0.063	0.083	197.255%	-0.061
σ		0.017	0.015	0.003	0.004	2.148%	0.353	0.004	0.006	10.652%	0.006
%RSD		26.080	24.590	9.359	6.996	2.114	0.994	6.214	7.614	10.671	9.812
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:23:21	0.462	-0.035	0.006	96.718%	-0.058					
2	19:23:25	0.530	-0.037	0.006	100.587%	-0.058					
3	19:23:29	0.471	-0.035	0.009	100.918%	-0.058					
X		0.488	-0.036	0.007	99.408%	-0.058					
σ		0.037	0.001	0.002	2.335%	0.000					
%RSD		7.544	2.414	23.710	2.349	0.322					

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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	19:30:31	94.280	97.380	94.230	5353.000	5055.000	5058.000	4931.000	5065.000	201.300	<u>2125000.000</u>
2	19:30:34	93.850	97.340	96.630	5308.000	5021.000	4982.000	4941.000	5144.000	212.100	<u>2067000.000</u>
3	19:30:38	93.470	97.980	92.580	5409.000	5087.000	5085.000	4985.000	5181.000	205.000	<u>2079000.000</u>
x		93.870	97.570	94.480	5357.000	5054.000	5042.000	4953.000	5130.000	206.100	<u>2090000.000</u>
σ		0.404	0.359	2.034	50.470	33.010	53.510	28.790	59.560	5.458	<u>30820.000</u>
%RSD		0.431	0.368	2.153	0.942	0.653	1.061	0.581	1.161	2.648	<u>1.475</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	19:30:31	5115.000	4819.000	100.598%	95.860%	98.010	98.210	98.500	28.770	4959.000	97.790
2	19:30:34	5067.000	5112.000	103.777%	96.406%	96.910	97.800	97.960	29.590	4924.000	97.230
3	19:30:38	5113.000	4953.000	102.657%	96.974%	98.800	98.660	99.710	28.210	4990.000	98.690
x		5098.000	4961.000	102.344%	96.413%	97.900	98.220	98.720	28.850	4958.000	97.900
σ		27.140	146.900	1.613%	0.557%	0.949	0.432	0.897	0.696	32.730	0.735
%RSD		0.532	2.962	1.576	0.577	0.969	0.440	0.909	2.412	0.660	0.751
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:30:31	97.780	99.920	101.300	98.800	100.152%	100.000	102.400	96.660	99.527%	100.100
2	19:30:34	96.870	99.170	100.500	99.510	104.345%	98.110	99.750	97.320	102.486%	99.510
3	19:30:38	99.090	100.500	101.300	99.680	103.717%	99.760	101.500	97.420	102.472%	100.600
x		97.920	99.850	101.000	99.330	102.738%	99.300	101.200	97.130	101.495%	100.100
σ		1.119	0.649	0.463	0.466	2.261%	1.038	1.333	0.411	1.705%	0.559
%RSD		1.143	0.650	0.459	0.469	2.201	1.045	1.317	0.423	1.680	0.559
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:30:31	100.900	101.900	51.390	103.900	102.373%	99.890	101.400	100.900	<u>91.674%</u>	103.300
2	19:30:34	100.700	102.000	51.730	104.900	104.449%	100.600	102.400	103.000	<u>90.920%</u>	102.800
3	19:30:38	102.100	103.000	51.560	105.800	104.552%	101.600	103.600	102.600	<u>91.704%</u>	104.200
x		101.200	102.300	51.560	104.900	103.791%	100.700	102.500	102.200	<u>91.433%</u>	103.400
σ		0.768	0.620	0.171	0.916	1.229%	0.847	1.078	1.119	<u>0.444%</u>	0.698
%RSD		0.758	0.606	0.332	0.874	1.184	0.841	1.052	1.095	<u>0.486</u>	0.675
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:30:31	5.113	102.600	99.810	97.371%	<u>99.920</u>					
2	19:30:34	4.872	101.400	98.400	101.703%	<u>96.340</u>					
3	19:30:38	4.925	102.700	100.800	100.585%	<u>97.960</u>					
x		4.970	102.200	99.690	99.886%	<u>98.070</u>					
σ		0.127	0.723	1.227	2.249%	<u>1.791</u>					
%RSD		2.544	0.708	1.231	2.252	<u>1.826</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	19:37:38	0.050	0.029	-0.055	3.992	5.342	5.853	-2.702	3.892	204.600	<u>±2007000.000</u>
2	19:37:42	0.057	0.035	-0.171	4.350	4.559	5.641	-3.193	3.396	193.900	<u>±1995000.000</u>
3	19:37:46	0.081	0.003	0.175	3.658	4.482	5.287	-3.670	3.876	176.600	<u>±1981000.000</u>
x		0.062	0.022	-0.017	4.000	4.794	5.594	-3.188	3.721	191.700	<u>±1994000.000</u>
σ		0.016	0.017	0.176	0.346	0.476	0.286	0.484	0.282	14.100	<u>±12870.000</u>
%RSD		25.940	76.340	1028.000	8.658	9.925	5.110	15.170	7.577	7.356	<u>±0.645</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	19:37:38	10.950	13.350	99.588%	99.179%	-0.039	0.190	0.030	12.150	3.347	0.008
2	19:37:42	12.160	1.881	100.735%	99.765%	0.039	-0.031	0.059	13.080	3.128	0.033
3	19:37:46	9.507	15.760	101.313%	101.717%	0.010	0.343	0.089	12.200	3.711	0.022
x		10.870	10.330	100.545%	100.221%	0.003	0.167	0.059	12.480	3.395	0.021
σ		1.330	7.417	0.878%	1.329%	0.040	0.188	0.029	0.525	0.294	0.012
%RSD		12.230	71.790	0.873	1.326	1266.000	112.600	49.780	4.208	8.664	58.310
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:38	0.006	0.028	0.005	-0.061	96.413%	-0.001	0.097	0.011	95.439%	0.005
2	19:37:42	0.007	0.085	-0.009	-0.104	98.857%	-0.016	-0.031	0.011	98.201%	0.004
3	19:37:46	0.004	-0.007	-0.005	-0.128	99.723%	0.030	-0.029	0.009	97.838%	0.004
x		0.006	0.035	-0.003	-0.098	98.331%	0.004	0.013	0.010	97.159%	0.004
σ		0.001	0.047	0.007	0.034	1.716%	0.024	0.073	0.001	1.501%	0.001
%RSD		26.190	132.600	244.200	35.000	1.746	554.100	581.000	13.450	1.545	15.260
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:38	0.123	-0.009	-0.005	-0.000	95.572%	0.053	0.007	0.045	<u>±95.125%</u>	-0.012
2	19:37:42	0.100	0.001	0.002	0.007	97.059%	0.033	-0.007	0.026	<u>±95.138%</u>	-0.012
3	19:37:46	0.076	-0.017	0.004	-0.006	97.108%	0.007	-0.012	0.015	<u>±95.119%</u>	-0.005
x		0.099	-0.008	0.001	0.000	96.580%	0.031	-0.004	0.029	<u>±95.127%</u>	-0.010
σ		0.024	0.009	0.005	0.007	0.873%	0.024	0.010	0.015	<u>±0.010%</u>	0.004
%RSD		23.750	107.100	716.600	2729.000	0.904	75.590	249.800	52.570	<u>±0.010</u>	42.180
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:37:38	0.025	0.034	0.006	92.597%	0.001					
2	19:37:42	0.003	0.024	0.005	94.834%	0.001					
3	19:37:46	0.001	0.023	0.008	95.207%	-0.001					
x		0.010	0.027	0.007	94.213%	0.000					
σ		0.013	0.006	0.002	1.412%	0.001					
%RSD		135.200	21.860	24.710	1.498	499.900					

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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	19:44:45	0.913	1.172	1.140	257.900	244.800	261.400	50.020	52.140	188.000	<u>±2036000.000</u>
2	19:44:49	0.943	1.101	0.697	262.900	257.100	254.200	53.860	33.980	213.400	<u>±2014000.000</u>
3	19:44:53	0.905	1.081	0.562	255.000	240.100	250.500	57.150	49.340	205.400	<u>±1973000.000</u>
x		0.920	1.118	0.800	258.600	247.300	255.400	53.680	45.150	202.300	<u>±2008000.000</u>
σ		0.020	0.048	0.302	3.987	8.809	5.547	3.569	9.776	12.960	<u>±31720.000</u>
%RSD		2.150	4.284	37.830	1.542	3.561	2.172	6.649	21.650	6.409	<u>±1.580</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	19:44:45	244.600	217.500	100.957%	100.181%	0.644	1.091	1.017	12.820	240.200	0.966
2	19:44:49	252.200	240.200	100.865%	102.068%	0.808	0.920	1.015	13.140	246.000	0.956
3	19:44:53	240.900	280.300	103.296%	102.226%	0.729	1.306	1.011	11.700	243.500	0.988
x		245.900	246.000	101.706%	101.492%	0.727	1.106	1.014	12.550	243.200	0.970
σ		5.752	31.810	1.377%	1.138%	0.082	0.193	0.003	0.757	2.914	0.016
%RSD		2.339	12.930	1.354	1.121	11.240	17.460	0.302	6.031	1.198	1.688
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:45	0.990	1.007	1.027	1.611	98.536%	1.055	1.129	0.992	96.928%	0.955
2	19:44:49	0.930	0.995	1.056	1.648	99.899%	1.039	1.150	0.960	97.810%	0.968
3	19:44:53	1.001	1.041	1.082	1.447	100.089%	1.120	1.041	1.004	99.296%	0.967
x		0.973	1.014	1.055	1.569	99.508%	1.071	1.107	0.985	98.012%	0.963
σ		0.038	0.024	0.028	0.107	0.847%	0.043	0.057	0.023	1.197%	0.007
%RSD		3.931	2.373	2.636	6.800	0.851	4.030	5.187	2.319	1.221	0.753
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:45	1.030	0.990	0.526	1.059	96.524%	1.033	0.974	0.975	<u>±95.352%</u>	0.990
2	19:44:49	0.968	1.011	0.532	1.007	97.688%	1.056	1.036	0.990	<u>±94.932%</u>	1.008
3	19:44:53	0.972	1.036	0.536	1.092	100.049%	1.083	0.995	1.058	<u>±95.025%</u>	<u>±1.803</u>
x		0.990	1.012	0.531	1.053	98.087%	1.057	1.002	1.007	<u>±95.103%</u>	<u>±1.267</u>
σ		0.034	0.023	0.005	0.043	1.796%	0.025	0.031	0.044	<u>±0.220%</u>	<u>±0.465</u>
%RSD		3.482	2.302	0.876	4.053	1.831	2.376	3.134	4.382	<u>±0.232</u>	<u>±36.660</u>
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:44:45	0.195	1.024	1.021	92.417%	0.994					
2	19:44:49	0.165	1.009	0.972	94.839%	0.992					
3	19:44:53	0.193	1.006	0.994	96.210%	0.979					
x		0.184	1.013	0.996	94.489%	0.988					
σ		0.017	0.010	0.025	1.920%	0.008					
%RSD		9.132	0.965	2.471	2.032	0.798					

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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	19:51:52	4.746	4.801	4.060	517.700	474.800	498.300	248.700	262.600	216.800	12020000.000
2	19:51:56	4.647	4.820	3.667	518.600	506.100	507.600	246.500	241.100	195.000	11980000.000
3	19:51:59	4.570	5.014	4.427	522.500	495.100	503.900	251.700	263.600	195.900	11997000.000
x		4.654	4.878	4.051	519.600	492.000	503.300	249.000	255.800	202.600	11999000.000
σ		0.088	0.118	0.381	2.557	15.890	4.655	2.635	12.690	12.310	119990.000
%RSD		1.895	2.411	9.393	0.492	3.230	0.925	1.058	4.963	6.078	1.000
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	19:51:52	493.500	459.500	99.575%	99.844%	4.703	4.917	4.855	12.820	479.900	4.770
2	19:51:56	492.000	562.500	99.834%	101.749%	4.058	5.156	4.894	12.830	482.300	4.843
3	19:51:59	495.900	457.700	100.918%	100.940%	5.013	4.826	4.847	13.650	483.300	4.861
x		493.800	493.200	100.109%	100.845%	4.592	4.966	4.865	13.100	481.800	4.824
σ		1.959	60.000	0.713%	0.956%	0.487	0.171	0.025	0.479	1.750	0.048
%RSD		0.397	12.160	0.712	0.948	10.610	3.433	0.521	3.653	0.363	0.999
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:52	4.765	5.030	4.910	5.128	98.388%	5.026	5.172	4.748	96.309%	4.953
2	19:51:56	4.756	4.709	4.975	4.672	99.775%	5.037	4.937	4.693	98.148%	4.791
3	19:51:59	4.868	4.957	4.976	5.015	100.444%	5.047	4.920	4.788	98.530%	4.838
x		4.796	4.899	4.954	4.938	99.536%	5.037	5.010	4.743	97.663%	4.861
σ		0.063	0.168	0.038	0.237	1.049%	0.010	0.141	0.047	1.187%	0.083
%RSD		1.304	3.434	0.763	4.804	1.054	0.207	2.811	1.001	1.216	1.714
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:52	5.037	5.053	2.638	5.212	97.328%	4.902	4.991	4.812	192.088%	4.931
2	19:51:56	5.085	5.238	2.552	5.158	98.987%	4.955	5.110	4.840	191.096%	4.938
3	19:51:59	4.908	5.084	2.535	5.232	99.111%	5.047	5.172	4.971	193.072%	4.982
x		5.010	5.125	2.575	5.201	98.475%	4.968	5.091	4.874	192.085%	4.950
σ		0.092	0.099	0.055	0.038	0.995%	0.073	0.092	0.085	19.988%	0.027
%RSD		1.832	1.926	2.147	0.729	1.011	1.477	1.801	1.740	1.073	0.554
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:51:52	0.560	4.904	4.930	94.391%	4.929					
2	19:51:56	0.483	4.896	4.831	96.686%	4.907					
3	19:51:59	0.538	4.935	4.867	97.126%	4.920					
x		0.527	4.912	4.876	96.067%	4.919					
σ		0.039	0.021	0.050	1.468%	0.011					
%RSD		7.467	0.418	1.030	1.529	0.227					

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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	19:59:01	0.287	-0.020	0.869	<u>TM 46860.000</u>	<u>M 47650.000</u>	<u>TM 46730.000</u>	3.671	<u>M 50260.000</u>	4752.000	<u>T 2006000.000</u>
2	19:59:05	0.250	-0.013	0.134	<u>TM 45770.000</u>	<u>M 47550.000</u>	<u>TM 45700.000</u>	5.196	<u>M 50130.000</u>	4716.000	<u>T 1965000.000</u>
3	19:59:09	0.196	-0.027	0.720	<u>TM 45710.000</u>	<u>M 47560.000</u>	<u>TM 45730.000</u>	4.899	<u>M 50150.000</u>	4830.000	<u>T 1965000.000</u>
X		0.244	-0.020	0.574	<u>TM 46110.000</u>	<u>M 47590.000</u>	<u>TM 46050.000</u>	4.588	<u>M 50180.000</u>	4766.000	<u>T 1979000.000</u>
σ		0.046	0.007	0.388	<u>TM 646.900</u>	<u>M 56.550</u>	<u>TM 586.300</u>	0.809	<u>M 70.190</u>	58.600	<u>T 23180.000</u>
%RSD		18.860	35.500	67.640	<u>TM 1.403</u>	<u>M 0.119</u>	<u>TM 1.273</u>	17.620	<u>M 0.140</u>	1.230	<u>T 1.172</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	19:59:01	<u>TM 51040.000</u>	<u>M 49330.000</u>	86.123%	88.639%	<u>M 962.600</u>	0.140	0.084	8.358	<u>TM 53100.000</u>	-0.062
2	19:59:05	<u>TM 50390.000</u>	<u>M 49700.000</u>	88.309%	88.964%	<u>M 958.400</u>	-0.125	0.089	9.584	<u>TM 51740.000</u>	0.069
3	19:59:09	<u>TM 50530.000</u>	<u>M 49130.000</u>	88.069%	89.762%	<u>M 946.400</u>	-0.012	0.099	9.339	<u>TM 51660.000</u>	0.002
X		<u>TM 50660.000</u>	<u>M 49380.000</u>	87.500%	89.122%	<u>M 955.800</u>	0.001	0.091	9.094	<u>TM 52170.000</u>	0.003
σ		<u>TM 342.400</u>	<u>M 288.600</u>	1.199%	0.578%	<u>M 8.407</u>	0.133	0.007	0.649	<u>TM 809.000</u>	0.066
%RSD		<u>TM 0.676</u>	<u>M 0.584</u>	1.370	0.648	<u>M 0.880</u>	14450.000	7.974	7.138	<u>TM 1.551</u>	2379.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:01	-0.011	0.039	0.116	-0.260	81.883%	0.080	-0.085	0.597	85.700%	0.060
2	19:59:05	-0.024	0.100	0.121	-0.300	83.866%	0.059	0.025	0.567	87.680%	0.050
3	19:59:09	-0.017	0.147	0.112	-0.223	84.018%	0.069	0.020	0.604	87.851%	0.034
X		-0.017	0.095	0.116	-0.261	83.256%	0.069	-0.013	0.590	87.077%	0.048
σ		0.006	0.054	0.005	0.038	1.191%	0.011	0.062	0.019	1.195%	0.013
%RSD		36.640	56.870	4.138	14.720	1.431	15.260	465.900	3.296	1.373	27.620
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:59:01	<u>M 1030.000</u>	-0.051	-0.008	0.027	88.443%	0.123	0.044	0.077	<u>T 86.842%</u>	-0.046
2	19:59:05	<u>M 1019.000</u>	-0.003	-0.027	0.028	91.941%	0.138	0.015	0.129	<u>T 86.488%</u>	-0.038
3	19:59:09	<u>M 1012.000</u>	-0.020	-0.020	-0.077	91.890%	0.125	0.032	0.099	<u>T 87.126%</u>	-0.041
X		<u>M 1021.000</u>	-0.024	-0.018	-0.007	90.758%	0.129	0.030	0.102	<u>T 86.818%</u>	-0.042
σ		<u>M 8.711</u>	0.024	0.009	0.060	2.005%	0.008	0.015	0.026	<u>T 0.320%</u>	0.004
%RSD		<u>M 0.854</u>	99.220	51.650	838.900	2.209	6.315	49.240	25.930	<u>T 0.368</u>	9.928
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:59:01	-0.000	-0.054	0.002	85.285%	-0.045					
2	19:59:05	-0.006	-0.055	0.001	88.245%	-0.045					
3	19:59:09	-0.001	-0.053	0.002	89.270%	-0.044					
X		-0.002	-0.054	0.002	87.600%	-0.045					
σ		0.003	0.001	0.001	2.069%	0.000					
%RSD		147.400	2.585	43.010	2.362	0.841					

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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	20:06:08	87.060	89.600	88.670	<u>TM 46170.000</u>	<u>M 47770.000</u>	<u>TM 45610.000</u>	4748.000	<u>M 54850.000</u>	4825.000	<u>T 2130000.000</u>
2	20:06:12	87.240	90.330	88.080	<u>TM 45810.000</u>	<u>M 48190.000</u>	<u>TM 45150.000</u>	4777.000	<u>M 54770.000</u>	4810.000	<u>T 2094000.000</u>
3	20:06:16	86.300	88.720	90.830	<u>TM 45630.000</u>	<u>M 48490.000</u>	<u>TM 45140.000</u>	4780.000	<u>M 54900.000</u>	4864.000	<u>T 2088000.000</u>
X		86.870	89.550	89.190	<u>TM 45870.000</u>	<u>M 48150.000</u>	<u>TM 45300.000</u>	4768.000	<u>M 54840.000</u>	4833.000	<u>T 2104000.000</u>
σ		0.496	0.808	1.448	<u>TM 273.900</u>	<u>M 362.100</u>	<u>TM 267.500</u>	18.060	<u>M 66.510</u>	28.160	<u>T 22470.000</u>
%RSD		0.571	0.902	1.624	<u>TM 0.597</u>	<u>M 0.752</u>	<u>TM 0.591</u>	0.379	<u>M 0.121</u>	0.583	<u>T 1.068</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	20:06:08	<u>TM 50920.000</u>	<u>M 49980.000</u>	87.373%	85.907%	<u>M 1063.000</u>	94.400	94.690	23.160	<u>TM 51860.000</u>	94.810
2	20:06:12	<u>TM 50170.000</u>	<u>M 50190.000</u>	90.146%	86.744%	<u>M 1074.000</u>	95.510	95.160	21.450	<u>TM 51000.000</u>	95.870
3	20:06:16	<u>TM 50140.000</u>	<u>M 50130.000</u>	89.934%	87.427%	<u>M 1058.000</u>	94.780	95.280	26.060	<u>TM 50630.000</u>	95.730
X		<u>TM 50410.000</u>	<u>M 50100.000</u>	89.151%	86.693%	<u>M 1065.000</u>	94.900	95.040	23.550	<u>TM 51160.000</u>	95.470
σ		<u>TM 441.100</u>	<u>M 110.400</u>	1.544%	0.761%	<u>M 8.261</u>	0.565	0.313	2.330	<u>TM 632.000</u>	0.574
%RSD		<u>TM 0.875</u>	<u>M 0.220</u>	1.732	0.878	<u>M 0.776</u>	0.595	0.330	9.893	<u>TM 1.235</u>	0.601
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:08	93.200	93.350	93.870	96.750	86.513%	98.850	102.600	96.300	89.031%	97.800
2	20:06:12	93.730	93.010	94.350	98.230	88.126%	100.100	105.000	96.850	91.259%	98.540
3	20:06:16	93.990	93.860	95.040	99.260	88.838%	99.620	105.900	97.830	90.649%	99.740
X		93.640	93.400	94.420	98.080	87.825%	99.530	104.500	96.990	90.313%	98.690
σ		0.403	0.429	0.587	1.261	1.191%	0.639	1.688	0.775	1.152%	0.979
%RSD		0.431	0.459	0.622	1.286	1.356	0.642	1.615	0.799	1.275	0.992
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:08	<u>M 1125.000</u>	97.340	47.740	98.290	94.027%	98.000	99.550	94.710	<u>T 86.769%</u>	101.800
2	20:06:12	<u>M 1130.000</u>	96.850	48.120	98.310	95.965%	98.640	100.800	96.870	88.391%	102.100
3	20:06:16	<u>M 1137.000</u>	98.150	48.400	101.200	96.314%	99.900	101.700	98.470	<u>T 86.680%</u>	104.200
X		<u>M 1131.000</u>	97.440	48.080	99.270	95.435%	98.850	100.700	96.680	<u>T 87.280%</u>	102.700
σ		<u>M 5.977</u>	0.655	0.332	1.683	1.232%	0.965	1.102	1.889	<u>T 0.963%</u>	1.304
%RSD		<u>M 0.528</u>	0.672	0.690	1.695	1.291	0.976	1.094	1.953	<u>T 1.103</u>	1.270
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:06:08	5.129	98.060	94.820	90.192%	<u>T 103.700</u>					
2	20:06:12	4.691	98.570	96.050	92.511%	<u>T 103.000</u>					
3	20:06:16	5.094	100.500	96.810	92.800%	<u>T 102.000</u>					
X		4.971	99.060	95.900	91.834%	<u>T 102.900</u>					
σ		0.244	1.303	1.006	1.430%	<u>T 0.873</u>					
%RSD		4.903	1.316	1.049	1.557	<u>T 0.849</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	20:13:19	90.820	98.260	93.940	5248.000	4934.000	4937.000	4915.000	5096.000	201.300	<u>±2085000.000</u>
2	20:13:23	93.040	98.720	95.040	5298.000	4995.000	5000.000	4938.000	5055.000	186.700	<u>±2058000.000</u>
3	20:13:27	93.560	97.450	94.070	5329.000	5062.000	5030.000	4996.000	5105.000	194.500	<u>±2067000.000</u>
x		92.470	98.140	94.350	5292.000	4997.000	4989.000	4950.000	5085.000	194.200	<u>±2070000.000</u>
σ		1.458	0.643	0.602	40.740	64.200	47.500	41.830	26.460	7.307	<u>±13560.000</u>
%RSD		1.577	0.655	0.638	0.770	1.285	0.952	0.845	0.520	3.763	<u>±0.655</u>
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:19	5018.000	4966.000	99.430%	92.942%	95.670	96.880	98.230	26.390	4913.000	96.480
2	20:13:23	5053.000	5050.000	101.701%	93.722%	99.100	96.970	98.670	28.240	4962.000	98.030
3	20:13:27	5077.000	4880.000	102.253%	93.885%	97.350	98.980	98.910	25.480	4951.000	98.230
x		5050.000	4965.000	101.128%	93.516%	97.370	97.610	98.600	26.710	4942.000	97.580
σ		29.490	84.890	1.496%	0.504%	1.715	1.191	0.347	1.406	25.420	0.955
%RSD		0.584	1.710	1.479	0.539	1.761	1.220	0.352	5.264	0.514	0.979
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:19	97.730	98.890	99.960	98.300	98.932%	99.490	103.800	97.450	97.593%	100.600
2	20:13:23	98.580	99.650	101.200	100.600	102.473%	99.840	103.500	97.020	101.511%	100.700
3	20:13:27	98.150	100.500	101.300	99.480	103.114%	98.930	103.400	97.640	102.134%	100.100
x		98.160	99.690	100.800	99.470	101.506%	99.420	103.600	97.370	100.413%	100.500
σ		0.425	0.815	0.769	1.175	2.252%	0.460	0.196	0.319	2.462%	0.337
%RSD		0.433	0.817	0.763	1.181	2.219	0.462	0.189	0.328	2.452	0.335
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:19	102.200	103.000	51.730	105.100	100.128%	100.800	103.400	101.500	<u>±90.464%</u>	102.500
2	20:13:23	101.200	101.800	51.840	104.900	104.467%	101.500	102.900	103.700	<u>±90.805%</u>	104.100
3	20:13:27	100.600	102.300	51.830	104.900	105.431%	101.500	102.800	103.100	<u>±91.089%</u>	103.800
x		101.300	102.400	51.800	105.000	103.342%	101.300	103.000	102.800	<u>±90.786%</u>	103.500
σ		0.788	0.581	0.057	0.100	2.825%	0.401	0.341	1.109	<u>±0.313%</u>	0.825
%RSD		0.778	0.567	0.110	0.095	2.733	0.396	0.331	1.079	<u>±0.345</u>	0.797
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:13:19	5.084	100.200	99.800	98.820%	<u>±100.500</u>					
2	20:13:23	5.218	102.400	99.930	101.580%	<u>±96.760</u>					
3	20:13:27	5.104	101.700	99.940	102.430%	<u>±95.530</u>					
x		5.135	101.400	99.890	100.943%	<u>±97.600</u>					
σ		0.072	1.089	0.078	1.887%	<u>±2.584</u>					
%RSD		1.403	1.074	0.078	1.869	<u>±2.648</u>					

236586_10124_CCBTVAS

10/3/2019 8:20:24 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	20:20:28	0.075	0.088	-0.148	5.767	6.894	7.482	-0.123	1.372	189.600	<u>±2051000.000</u>
2	20:20:31	0.065	0.059	-0.187	9.483	9.850	9.190	-3.145	12.330	204.100	<u>±2004000.000</u>
3	20:20:35	0.067	0.071	0.051	7.860	10.650	10.020	0.890	13.600	180.600	<u>±1990000.000</u>
x		0.069	0.073	-0.095	7.703	9.132	8.899	-0.793	9.099	191.400	<u>±2015000.000</u>
σ		0.006	0.015	0.128	1.863	1.979	1.295	2.099	6.722	11.880	<u>±31820.000</u>
%RSD		8.055	20.420	135.000	24.190	21.670	14.560	264.800	73.870	6.207	<u>±1.579</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	20:20:28	15.110	16.430	98.533%	102.125%	0.102	0.238	0.048	11.850	6.254	0.021
2	20:20:31	17.830	4.448	100.412%	101.023%	0.120	0.087	0.094	11.760	7.553	0.043
3	20:20:35	18.870	15.540	100.786%	101.139%	0.173	0.125	0.097	11.590	7.671	0.051
x		17.270	12.140	99.910%	101.429%	0.132	0.149	0.080	11.740	7.159	0.038
σ		1.939	6.675	1.207%	0.605%	0.037	0.079	0.027	0.135	0.786	0.015
%RSD		11.230	54.990	1.208	0.597	28.180	52.540	34.460	1.150	10.980	39.730
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:28	0.028	0.053	0.027	-0.073	97.652%	0.012	0.051	0.013	95.575%	0.031
2	20:20:31	0.042	0.095	0.052	-0.084	99.902%	0.059	0.017	0.046	97.536%	0.032
3	20:20:35	0.030	0.041	0.065	-0.148	99.871%	0.038	0.066	0.051	98.035%	0.017
x		0.033	0.063	0.048	-0.102	99.142%	0.036	0.044	0.037	97.049%	0.027
σ		0.007	0.028	0.020	0.041	1.290%	0.024	0.025	0.021	1.301%	0.008
%RSD		22.120	45.400	40.900	39.800	1.302	64.590	56.330	56.600	1.340	31.330
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:28	0.159	0.015	0.021	0.029	94.814%	0.036	0.010	0.041	<u>±95.351%</u>	0.019
2	20:20:31	0.217	0.005	0.023	0.040	96.702%	0.062	0.017	0.082	<u>±94.548%</u>	0.026
3	20:20:35	0.208	0.036	0.021	0.061	97.758%	0.050	0.036	0.086	<u>±95.711%</u>	0.019
x		0.195	0.019	0.021	0.043	96.425%	0.049	0.021	0.070	<u>±95.203%</u>	0.022
σ		0.031	0.016	0.001	0.016	1.491%	0.013	0.013	0.025	<u>±0.596%</u>	0.004
%RSD		15.850	84.720	5.339	37.190	1.547	26.430	63.610	36.180	<u>±0.626</u>	19.860
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	20:20:28	0.012	0.063	0.027	92.879%	0.016					
2	20:20:31	0.001	0.081	0.050	94.121%	0.040					
3	20:20:35	-0.002	0.072	0.049	95.716%	0.033					
x		0.004	0.072	0.042	94.239%	0.030					
σ		0.007	0.009	0.013	1.422%	0.012					
%RSD		194.300	12.750	30.730	1.509	41.190					

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01301 C.tet
Created By User	metals
Analyte Database	Pace.tea
Creation Timestamp	7/10/2008 4:47:18 PM
Last Edited By	ICM2
Last Edit Timestamp	10/21/2019 7:18:15 AM
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	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
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	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

Sweeps	10
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	13345

Main Run Setup

Main Run	Peak Jumping
Sweeps	45
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	32128
Channel Spacing	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
237880_10175_Cal0	3	7	7	7	8	8	8	8	8	8	8
237881_10175_Cal1	3	7	7	7	8	8	8	8	8	8	8
237882_10175_Cal2	3	7	7	7	8	8	8	8	8	8	8
237883_10175_Cal3	3	7	7	7	8	8	8	8	8	8	8
237884_10175_Cal4	3	7	7	7	8	8	8	8	8	8	8
237885_10175_Cal5	3	7	7	7	8	8	8	8	8	8	8
237751_10175_ICV	3	7	7	7	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	7	7	7	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	7	7	7	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	7	7	7	8	8	8	8	8	8	8
237752_10175_ICSA1	3	7	7	7	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV1	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	7	7	7	8	8	8	8	8	8	8
1951359_10133	3	7	7	7	8	8	8	8	8	8	8
1951360_10133	3	7	7	7	8	8	8	8	8	8	8
1951361_10133	3	7	7	7	8	8	8	8	8	8	8
1951362_10133x2	3	7	7	7	8	8	8	8	8	8	8
1951362_10133	3	7	7	7	8	8	8	8	8	8	8
40194797001_10133	3	7	7	7	8	8	8	8	8	8	8
1951363_10133	3	7	7	7	8	8	8	8	8	8	8
1951364_10133	3	7	7	7	8	8	8	8	8	8	8
1952928_10133	3	7	7	7	8	8	8	8	8	8	8
40194797002_10133	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV2	3	7	7	7	8	8	8	8	8	8	8

237880_10175_CCBTVA2	3	7	7	7	8	8	8	8	8	8	8
1952929_10133x5	3	7	7	7	8	8	8	8	8	8	8
40194797003_10133	3	7	7	7	8	8	8	8	8	8	8
40194797004_10133	3	7	7	7	8	8	8	8	8	8	8
40194797005_10133	3	7	7	7	8	8	8	8	8	8	8
40194797006_10133	3	7	7	7	8	8	8	8	8	8	8
40194797007_10133	3	7	7	7	8	8	8	8	8	8	8
40194797008_10133	3	7	7	7	8	8	8	8	8	8	8
40194797009_10133	3	7	7	7	8	8	8	8	8	8	8
40194797010_10133	3	7	7	7	8	8	8	8	8	8	8
40194797011_10133	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV3	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	7	7	7	8	8	8	8	8	8	8
40194797012_10133	3	7	7	7	8	8	8	8	8	8	8
40194797013_10133	3	7	7	7	8	8	8	8	8	8	8
40194797014_10133	3	7	7	7	8	8	8	8	8	8	8
40194797015_10133	3	7	7	7	8	8	8	8	8	8	8
40194797016_10133	3	7	7	7	8	8	8	8	8	8	8
40194797017_10133	3	7	7	7	8	8	8	8	8	8	8
40194797018_10133	3	7	7	7	8	8	8	8	8	8	8
40194797019_10133	3	7	7	7	8	8	8	8	8	8	8
40194797020_10133	3	7	7	7	8	8	8	8	8	8	8
1951522_10135	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV4	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	7	7	7	8	8	8	8	8	8	8
40194816001_10135x20	3	7	7	7	8	8	8	8	8	8	8
1951524_10135x20	3	7	7	7	8	8	8	8	8	8	8
1951525_10135x20	3	7	7	7	8	8	8	8	8	8	8
1952936_10135x20	3	7	7	7	8	8	8	8	8	8	8
40194816003_10135	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV5	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	7	7	7	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	7	7	7	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	7	7	7	8	8	8	8	8	8	8
237752_10175_ICSA2	3	7	7	7	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	7	7	7	8	8	8	8	8	8	8
237886_10175_CCV6	3	7	7	7	8	8	8	8	8	8	8
237880_10175_CCBTVA6	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
237880_10175_Cal0	3	8	8	8	7	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	7	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	7	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	7	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	7	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	7	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	7	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	7	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	7	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	7	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	7	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	7	8	8	8	8	8	8
1951359_10133	3	8	8	8	7	8	8	8	8	8	8
1951360_10133	3	8	8	8	7	8	8	8	8	8	8
1951361_10133	3	8	8	8	7	8	8	8	8	8	8
1951362_10133x2	3	8	8	8	7	8	8	8	8	8	8
1951362_10133	3	8	8	8	7	8	8	8	8	8	8
40194797001_10133	3	8	8	8	7	8	8	8	8	8	8
1951363_10133	3	8	8	8	7	8	8	8	8	8	8
1951364_10133	3	8	8	8	7	8	8	8	8	8	8
1952928_10133	3	8	8	8	7	8	8	8	8	8	8
40194797002_10133	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	7	8	8	8	8	8	8
1952929_10133x5	3	8	8	8	7	8	8	8	8	8	8
40194797003_10133	3	8	8	8	7	8	8	8	8	8	8
40194797004_10133	3	8	8	8	7	8	8	8	8	8	8
40194797005_10133	3	8	8	8	7	8	8	8	8	8	8

40194797006_10133	3	8	8	8	7	8	8	8	8	8	8
40194797007_10133	3	8	8	8	7	8	8	8	8	8	8
40194797008_10133	3	8	8	8	7	8	8	8	8	8	8
40194797009_10133	3	8	8	8	7	8	8	8	8	8	8
40194797010_10133	3	8	8	8	7	8	8	8	8	8	8
40194797011_10133	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	7	8	8	8	8	8	8
40194797012_10133	3	8	8	8	7	8	8	8	8	8	8
40194797013_10133	3	8	8	8	7	8	8	8	8	8	8
40194797014_10133	3	8	8	8	7	8	8	8	8	8	8
40194797015_10133	3	8	8	8	7	8	8	8	8	8	8
40194797016_10133	3	8	8	8	7	8	8	8	8	8	8
40194797017_10133	3	8	8	8	7	8	8	8	8	8	8
40194797018_10133	3	8	8	8	7	8	8	8	8	8	8
40194797019_10133	3	8	8	8	7	8	8	8	8	8	8
40194797020_10133	3	8	8	8	7	8	8	8	8	8	8
1951522_10135	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	7	8	8	8	8	8	8
40194816001_10135x20	3	8	8	8	7	8	8	8	8	8	8
1951524_10135x20	3	8	8	8	7	8	8	8	8	8	8
1951525_10135x20	3	8	8	8	7	8	8	8	8	8	8
1952936_10135x20	3	8	8	8	7	8	8	8	8	8	8
40194816003_10135	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	7	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	7	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	7	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	7	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	7	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	7	8	8	8	8	8	8
237880_10175_CCBTVA6	3	8	8	8	7	8	8	8	8	8	8
Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951359_10133	3	8	8	8	8	8	8	8	8	8	8
1951360_10133	3	8	8	8	8	8	8	8	8	8	8
1951361_10133	3	8	8	8	8	8	8	8	8	8	8
1951362_10133x2	3	8	8	8	8	8	8	8	8	8	8
1951362_10133	3	8	8	8	8	8	8	8	8	8	8
40194797001_10133	3	8	8	8	8	8	8	8	8	8	8
1951363_10133	3	8	8	8	8	8	8	8	8	8	8
1951364_10133	3	8	8	8	8	8	8	8	8	8	8
1952928_10133	3	8	8	8	8	8	8	8	8	8	8
40194797002_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1952929_10133x5	3	8	8	8	8	8	8	8	8	8	8
40194797003_10133	3	8	8	8	8	8	8	8	8	8	8
40194797004_10133	3	8	8	8	8	8	8	8	8	8	8
40194797005_10133	3	8	8	8	8	8	8	8	8	8	8
40194797006_10133	3	8	8	8	8	8	8	8	8	8	8
40194797007_10133	3	8	8	8	8	8	8	8	8	8	8
40194797008_10133	3	8	8	8	8	8	8	8	8	8	8
40194797009_10133	3	8	8	8	8	8	8	8	8	8	8
40194797010_10133	3	8	8	8	8	8	8	8	8	8	8

40194797011_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194797012_10133	3	8	8	8	8	8	8	8	8	8	8
40194797013_10133	3	8	8	8	8	8	8	8	8	8	8
40194797014_10133	3	8	8	8	8	8	8	8	8	8	8
40194797015_10133	3	8	8	8	8	8	8	8	8	8	8
40194797016_10133	3	8	8	8	8	8	8	8	8	8	8
40194797017_10133	3	8	8	8	8	8	8	8	8	8	8
40194797018_10133	3	8	8	8	8	8	8	8	8	8	8
40194797019_10133	3	8	8	8	8	8	8	8	8	8	8
40194797020_10133	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951524_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951525_10135x20	3	8	8	8	8	8	8	8	8	8	8
1952936_10135x20	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA6	3	8	8	8	8	8	8	8	8	8	8
Label	Config	89Y	90Zr	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951359_10133	3	8	8	8	8	8	8	8	8	8	8
1951360_10133	3	8	8	8	8	8	8	8	8	8	8
1951361_10133	3	8	8	8	8	8	8	8	8	8	8
1951362_10133x2	3	8	8	8	8	8	8	8	8	8	8
1951362_10133	3	8	8	8	8	8	8	8	8	8	8
40194797001_10133	3	8	8	8	8	8	8	8	8	8	8
1951363_10133	3	8	8	8	8	8	8	8	8	8	8
1951364_10133	3	8	8	8	8	8	8	8	8	8	8
1952928_10133	3	8	8	8	8	8	8	8	8	8	8
40194797002_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1952929_10133x5	3	8	8	8	8	8	8	8	8	8	8
40194797003_10133	3	8	8	8	8	8	8	8	8	8	8
40194797004_10133	3	8	8	8	8	8	8	8	8	8	8
40194797005_10133	3	8	8	8	8	8	8	8	8	8	8
40194797006_10133	3	8	8	8	8	8	8	8	8	8	8
40194797007_10133	3	8	8	8	8	8	8	8	8	8	8
40194797008_10133	3	8	8	8	8	8	8	8	8	8	8
40194797009_10133	3	8	8	8	8	8	8	8	8	8	8
40194797010_10133	3	8	8	8	8	8	8	8	8	8	8
40194797011_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194797012_10133	3	8	8	8	8	8	8	8	8	8	8
40194797013_10133	3	8	8	8	8	8	8	8	8	8	8

40194797014_10133	3	8	8	8	8	8	8	8	8	8	8
40194797015_10133	3	8	8	8	8	8	8	8	8	8	8
40194797016_10133	3	8	8	8	8	8	8	8	8	8	8
40194797017_10133	3	8	8	8	8	8	8	8	8	8	8
40194797018_10133	3	8	8	8	8	8	8	8	8	8	8
40194797019_10133	3	8	8	8	8	8	8	8	8	8	8
40194797020_10133	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA4	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951524_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951525_10135x20	3	8	8	8	8	8	8	8	8	8	8
1952936_10135x20	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA5	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA6	3	8	8	8	8	8	8	8	8	8	8
Label	Config	159Tb	184W	195Pt	201Hg	205Ti	206Pb	207Pb	208Pb	209Bi	238U
237880_10175_Cal0	3	8	8	8	8	8	8	8	8	8	8
237881_10175_Cal1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_Cal2	3	8	8	8	8	8	8	8	8	8	8
237883_10175_Cal3	3	8	8	8	8	8	8	8	8	8	8
237884_10175_Cal4	3	8	8	8	8	8	8	8	8	8	8
237885_10175_Cal5	3	8	8	8	8	8	8	8	8	8	8
237751_10175_ICV	3	8	8	8	8	8	8	8	8	8	8
237880_10175_ICBTVA	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A1	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B1	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA1	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB1	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV1	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA1	3	8	8	8	8	8	8	8	8	8	8
1951359_10133	3	8	8	8	8	8	8	8	8	8	8
1951360_10133	3	8	8	8	8	8	8	8	8	8	8
1951361_10133	3	8	8	8	8	8	8	8	8	8	8
1951362_10133x2	3	8	8	8	8	8	8	8	8	8	8
1951362_10133	3	8	8	8	8	8	8	8	8	8	8
40194797001_10133	3	8	8	8	8	8	8	8	8	8	8
1951363_10133	3	8	8	8	8	8	8	8	8	8	8
1951364_10133	3	8	8	8	8	8	8	8	8	8	8
1952928_10133	3	8	8	8	8	8	8	8	8	8	8
40194797002_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV2	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA2	3	8	8	8	8	8	8	8	8	8	8
1952929_10133x5	3	8	8	8	8	8	8	8	8	8	8
40194797003_10133	3	8	8	8	8	8	8	8	8	8	8
40194797004_10133	3	8	8	8	8	8	8	8	8	8	8
40194797005_10133	3	8	8	8	8	8	8	8	8	8	8
40194797006_10133	3	8	8	8	8	8	8	8	8	8	8
40194797007_10133	3	8	8	8	8	8	8	8	8	8	8
40194797008_10133	3	8	8	8	8	8	8	8	8	8	8
40194797009_10133	3	8	8	8	8	8	8	8	8	8	8
40194797010_10133	3	8	8	8	8	8	8	8	8	8	8
40194797011_10133	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV3	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTVA3	3	8	8	8	8	8	8	8	8	8	8
40194797012_10133	3	8	8	8	8	8	8	8	8	8	8
40194797013_10133	3	8	8	8	8	8	8	8	8	8	8
40194797014_10133	3	8	8	8	8	8	8	8	8	8	8
40194797015_10133	3	8	8	8	8	8	8	8	8	8	8
40194797016_10133	3	8	8	8	8	8	8	8	8	8	8
40194797017_10133	3	8	8	8	8	8	8	8	8	8	8
40194797018_10133	3	8	8	8	8	8	8	8	8	8	8

40194797019_10133	3	8	8	8	8	8	8	8	8	8	8
40194797020_10133	3	8	8	8	8	8	8	8	8	8	8
1951522_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV4	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTV4	3	8	8	8	8	8	8	8	8	8	8
40194816001_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951524_10135x20	3	8	8	8	8	8	8	8	8	8	8
1951525_10135x20	3	8	8	8	8	8	8	8	8	8	8
1952936_10135x20	3	8	8	8	8	8	8	8	8	8	8
40194816003_10135	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV5	3	8	8	8	8	8	8	8	8	8	8
237880_10175_CCBTV4	3	8	8	8	8	8	8	8	8	8	8
237881_10175_CRDL_A2	3	8	8	8	8	8	8	8	8	8	8
237882_10175_CRDL_B2	3	8	8	8	8	8	8	8	8	8	8
237752_10175_ICSA2	3	8	8	8	8	8	8	8	8	8	8
237753_10175_ICSAB2	3	8	8	8	8	8	8	8	8	8	8
237886_10175_CCV6	3	8	8	8	8	8	8	8	8	8	8
237880_10175_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 10172019	-141.00	-1240.00	-80.00	-195.30	-9.00	145.00	51.00	259.00	13.00	0.70
8	CCTKED Mode 10172019	-141.00	-1240.00	-80.00	-195.30	-17.00	145.00	51.00	259.00	13.00	0.70
Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias	
7	CCT Mode 10172019	0.86	1400.00	-50.20	8.60	0.00	0.30	-143.00	-23.50	-4.00	
8	CCTKED Mode 10172019	0.86	1400.00	-58.80	-9.40	0.00	3.85	-143.00	-23.50	-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	237880_10175_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_CaI1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	237882_10175_CaI2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	237883_10175_CaI3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	237884_10175_CaI4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	237885_10175_CaI5	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	237880_10175_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_CaI1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	237882_10175_CaI2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	237883_10175_CaI3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	237884_10175_CaI4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	237885_10175_CaI5	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	237880_10175_CaI0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	237881_10175_CaI1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	237882_10175_CaI2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000
4	237883_10175_CaI3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000

5	237884_10175_Cal4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	237885_10175_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	237880_10175_Cal0	0.000	0.000	0.000	0.000	0.000					
2	237881_10175_Cal1	1.000	0.200	1.000	1.000	1.000					
3	237882_10175_Cal2	5.000	0.500	5.000	5.000	5.000					
4	237883_10175_Cal3	50.000	1.000	50.000	50.000	50.000					
5	237884_10175_Cal4	250.000	10.000	250.000	250.000	250.000					
6	237885_10175_Cal5	500.000	25.000	500.000	500.000	500.000					

Calibration Technique

Use External Drift Correction - No
 Calibrate by - Isotope

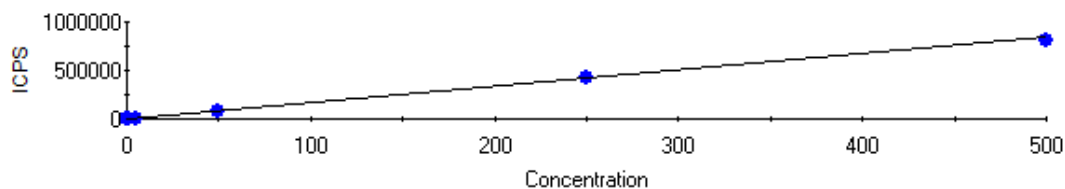
Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
7Li	Yes	0.36	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
9Be	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
10B	Yes	0.13	Fully-Quantified	Linear	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	237880_10175_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	237881_10175_Cal1	Fully Quant Standard	1.000	0	1	2	144
3	237882_10175_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	237883_10175_Cal3	Fully Quant Standard	1.000	0	1	4	144

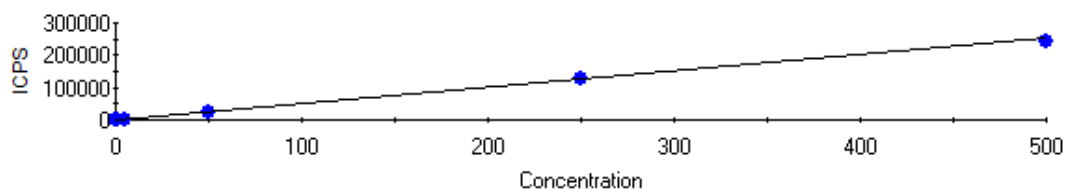
5	237884_10175_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	237885_10175_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	237751_10175_ICV	Unknown	1.000	1	1	1	144
8	237880_10175_ICBTVA	Unknown	1.000	0	1	8	144
9	237881_10175_CRDL_A1	Unknown	1.000	0	1	2	144
10	237882_10175_CRDL_B1	Unknown	1.000	0	1	3	144
11	237752_10175_ICSA1	Unknown	1.000	1	1	2	144
12	237753_10175_ICSAB1	Unknown	1.000	1	1	3	144
13	237886_10175_CCV1	Unknown	1.000	0	1	7	144
14	237880_10175_CCBTVA1	Unknown	1.000	0	1	1	144
15	1951359_10133	Unknown	1.000	3	1	1	144
16	1951360_10133	Unknown	1.000	3	1	2	144
17	1951361_10133	Unknown	1.000	3	1	3	144
18	1951362_10133x2	Unknown	1.000	3	1	4	144
19	1951362_10133	Unknown	1.000	3	1	5	144
20	40194797001_10133	Unknown	1.000	3	1	6	144
21	1951363_10133	Unknown	1.000	3	1	7	144
22	1951364_10133	Unknown	1.000	3	1	8	144
23	1952928_10133	Unknown	1.000	3	1	9	144
24	40194797002_10133	Unknown	1.000	3	1	10	144
25	237886_10175_CCV2	Unknown	1.000	0	1	7	144
26	237880_10175_CCBTVA2	Unknown	1.000	0	1	1	144
27	1952929_10133x5	Unknown	1.000	3	1	11	144
28	40194797003_10133	Unknown	1.000	3	1	12	144
29	40194797004_10133	Unknown	1.000	3	2	1	144
30	40194797005_10133	Unknown	1.000	3	2	2	144
31	40194797006_10133	Unknown	1.000	3	2	3	144
32	40194797007_10133	Unknown	1.000	3	2	4	144
33	40194797008_10133	Unknown	1.000	3	2	5	144
34	40194797009_10133	Unknown	1.000	3	2	6	144
35	40194797010_10133	Unknown	1.000	3	2	7	144
36	40194797011_10133	Unknown	1.000	3	2	8	144
37	237886_10175_CCV3	Unknown	1.000	0	1	7	144
38	237880_10175_CCBTVA3	Unknown	1.000	0	1	1	144
39	40194797012_10133	Unknown	1.000	3	2	9	144
40	40194797013_10133	Unknown	1.000	3	2	10	144
41	40194797014_10133	Unknown	1.000	3	2	11	144
42	40194797015_10133	Unknown	1.000	3	2	12	144
43	40194797016_10133	Unknown	1.000	3	3	1	144
44	40194797017_10133	Unknown	1.000	3	3	2	144
45	40194797018_10133	Unknown	1.000	3	3	3	144
46	40194797019_10133	Unknown	1.000	3	3	4	144
47	40194797020_10133	Unknown	1.000	3	3	5	144
48	1951522_10135	Unknown	1.000	2	3	3	144
49	237886_10175_CCV4	Unknown	1.000	0	1	7	144
50	237880_10175_CCBTVA4	Unknown	1.000	0	1	1	144
51	40194816001_10135x20	Unknown	1.000	2	5	1	144
52	1951524_10135x20	Unknown	1.000	2	5	2	144
53	1951525_10135x20	Unknown	1.000	2	5	3	144
54	1952936_10135x20	Unknown	1.000	2	5	4	144
55	40194816003_10135	Unknown	1.000	2	3	12	144
56	237886_10175_CCV5	Unknown	1.000	0	1	7	144
57	237880_10175_CCBTVA5	Unknown	1.000	0	1	1	144
58	237881_10175_CRDL_A2	Unknown	1.000	0	1	2	144
59	237882_10175_CRDL_B2	Unknown	1.000	0	1	3	144
60	237752_10175_ICSA2	Unknown	1.000	1	1	2	144
61	237753_10175_ICSAB2	Unknown	1.000	1	1	3	144
62	237886_10175_CCV6	Unknown	1.000	0	1	7	144
63	237880_10175_CCBTVA6	Unknown	1.000	0	1	1	144

Fully Quant Calibration

7Li FQ Block 1

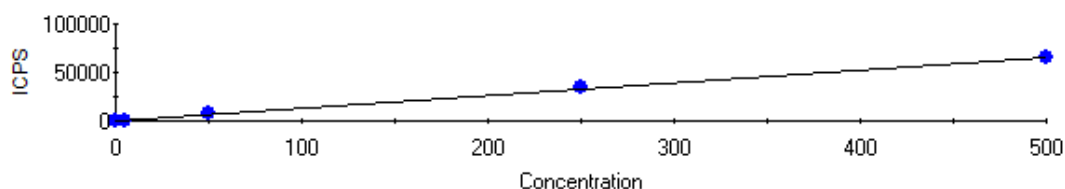
Intercept CPS=163.099851 Intercept Conc=0.096398
Sensitivity=1691.939155 Correlation Coeff=0.999830

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.002	0.002	165.88	0.00
237881_10175_Cal1	1.000	0.967	0.033	1799.23	3.30
237882_10175_Cal2	5.000	5.009	0.009	8637.71	0.18
237883_10175_Cal3	50.000	49.883	0.117	84562.04	0.23
237884_10175_Cal4	250.000	250.597	0.597	424158.38	0.24
237885_10175_Cal5	500.000	482.392	17.608	816341.55	3.52

9Be FQ Block 1

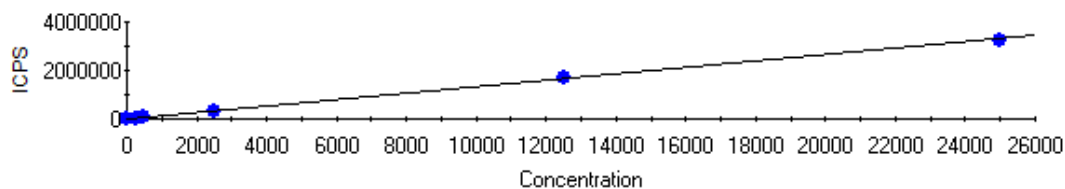
Intercept CPS=48.947214 Intercept Conc=0.096581
Sensitivity=506.798318 Correlation Coeff=0.999464

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.010	0.010	43.68	0.00
237881_10175_Cal1	1.000	0.984	0.016	547.78	1.57
237882_10175_Cal2	5.000	5.177	0.177	2672.42	3.53
237883_10175_Cal3	50.000	51.095	1.095	25943.75	2.19
237884_10175_Cal4	250.000	254.907	4.907	129235.28	1.96
237885_10175_Cal5	500.000	476.694	23.306	241636.66	4.66

10B FQ Block 1

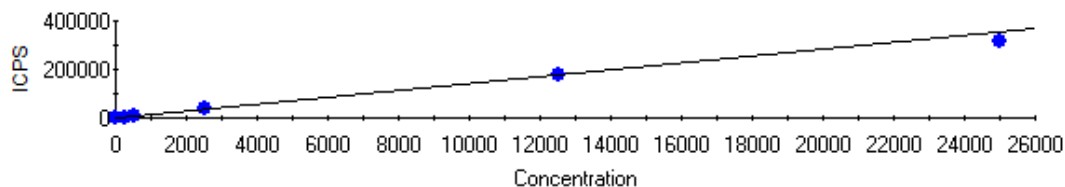
Intercept CPS=234.736506 Intercept Conc=1.790122
Sensitivity=131.128758 Correlation Coeff=0.999779

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.049	0.049	228.26	0.00
237882_10175_Cal2	5.000	5.004	0.004	890.97	0.09
237883_10175_Cal3	50.000	50.374	0.374	6840.19	0.75
237884_10175_Cal4	250.000	255.759	5.759	33772.06	2.30
237885_10175_Cal5	500.000	490.632	9.368	64570.76	1.87

23Na FQ Block 1

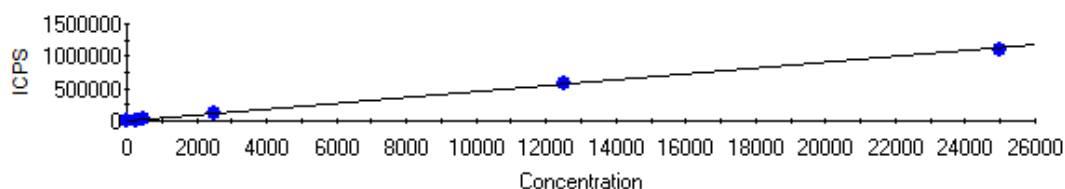
Intercept CPS=1503.217521 Intercept Conc=11.422230
Sensitivity=131.604559 Correlation Coeff=0.999960

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.343	0.343	1458.07	0.00
237881_10175_Cal1	250.000	256.210	6.210	35221.63	2.48
237882_10175_Cal2	500.000	511.563	11.563	68827.23	2.31
237883_10175_Cal3	2500.000	2570.296	70.296	339765.91	2.81
237884_10175_Cal4	12500.000	12598.330	98.330	1659500.83	0.79
237885_10175_Cal5	25000.000	24741.937	258.063	3257654.89	1.03

25Mg FQ Block 1

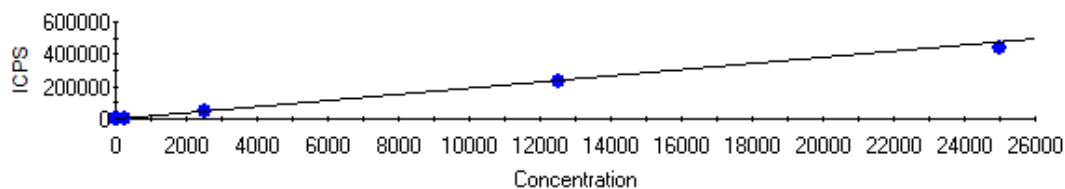
Intercept CPS=105.483864 Intercept Conc=7.430693
Sensitivity=14.195698 Correlation Coeff=0.999022

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.288	0.288	101.39	0.00
237881_10175_Cal1	250.000	249.572	0.428	3648.34	0.17
237882_10175_Cal2	500.000	491.127	8.873	7077.37	1.77
237883_10175_Cal3	2500.000	2514.512	14.512	35800.73	0.58
237884_10175_Cal4	12500.000	12278.927	221.073	174413.41	1.77
237885_10175_Cal5	25000.000	22452.746	2547.254	318837.88	10.19

27Al FQ Block 1

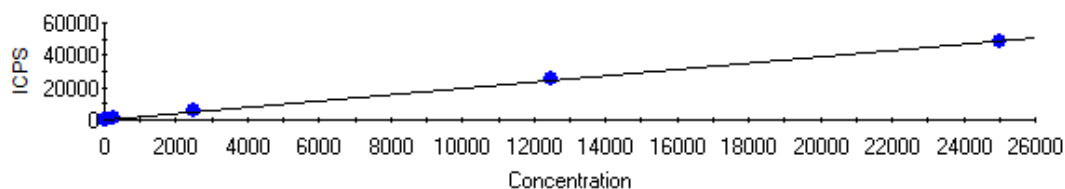
Intercept CPS=637.973571 Intercept Conc=14.051021
Sensitivity=45.404071 Correlation Coeff=0.999842

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.049	0.049	635.74	0.00
237881_10175_Cal1	250.000	247.144	2.856	11859.34	1.14
237882_10175_Cal2	500.000	504.169	4.169	23529.30	0.83
237883_10175_Cal3	2500.000	2547.380	47.380	116299.39	1.90
237884_10175_Cal4	12500.000	12565.421	65.421	571159.26	0.52
237885_10175_Cal5	25000.000	24227.038	772.962	1100644.14	3.09

28Si FQ Block 1

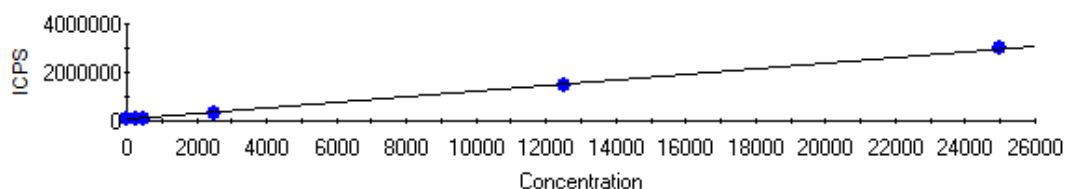
Intercept CPS=278.349311 Intercept Conc=14.516484
Sensitivity=19.174706 Correlation Coeff=0.999775

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.917	0.917	260.78	0.00
237881_10175_Cal1	50.000	55.946	5.946	1351.11	11.89
237882_10175_Cal2	250.000	256.047	6.047	5187.97	2.42
237883_10175_Cal3	2500.000	2505.838	5.838	48327.06	0.23
237884_10175_Cal4	12500.000	12046.640	453.360	231269.13	3.63
237885_10175_Cal5	25000.000	23077.886	1922.114	442790.02	7.69

31P FQ Block 1

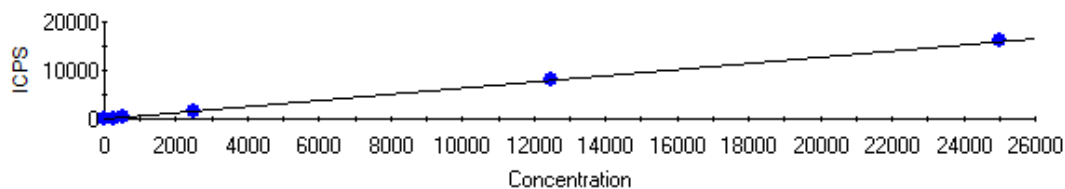
Intercept CPS=118.731082 Intercept Conc=60.621036
Sensitivity=1.958579 Correlation Coeff=0.999744

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-11.774	11.774	95.67	0.00
237881_10175_Cal1	50.000	50.441	0.441	217.52	0.88
237882_10175_Cal2	250.000	250.880	0.880	610.10	0.35
237883_10175_Cal3	2500.000	2637.573	137.573	5284.63	5.50
237884_10175_Cal4	12500.000	13056.983	556.983	25691.86	4.46
237885_10175_Cal5	25000.000	24931.508	68.492	48949.06	0.27

39K FQ Block 1

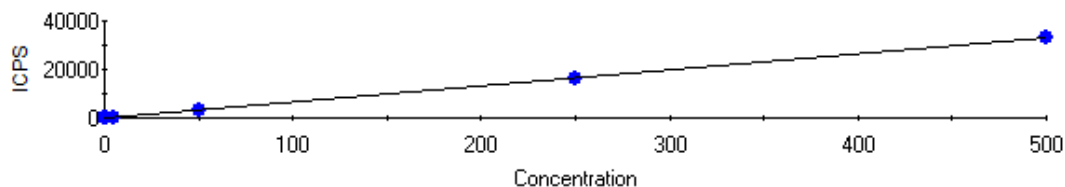
Intercept CPS=38669.787592 Intercept Conc=329.775329
Sensitivity=117.261008 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.676	0.676	38590.58	0.00
237881_10175_Cal1	250.000	251.415	1.415	68151.01	0.57
237882_10175_Cal2	500.000	487.559	12.441	95841.43	2.49
237883_10175_Cal3	2500.000	2548.007	48.007	337451.65	1.92
237884_10175_Cal4	12500.000	12442.391	57.609	1497677.13	0.46
237885_10175_Cal5	25000.000	25095.147	95.147	2981351.98	0.38

43Ca FQ Block 1

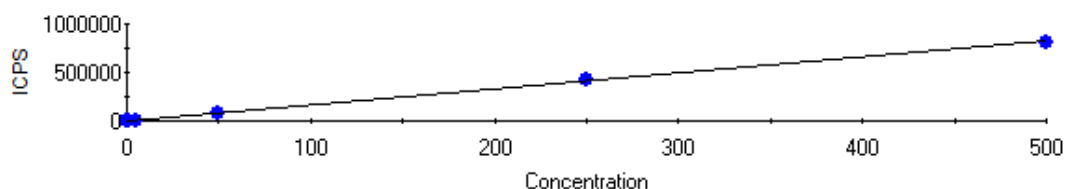
Intercept CPS=4.514224 Intercept Conc=7.073112
Sensitivity=0.638223 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	1.253	1.253	5.31	0.00
237881_10175_Cal1	250.000	234.849	15.151	154.40	6.06
237882_10175_Cal2	500.000	506.636	6.636	327.86	1.33
237883_10175_Cal3	2500.000	2646.059	146.059	1693.29	5.84
237884_10175_Cal4	12500.000	12436.005	63.995	7941.46	0.51
237885_10175_Cal5	25000.000	25006.448	6.448	15964.21	0.03

47Ti FQ Block 1

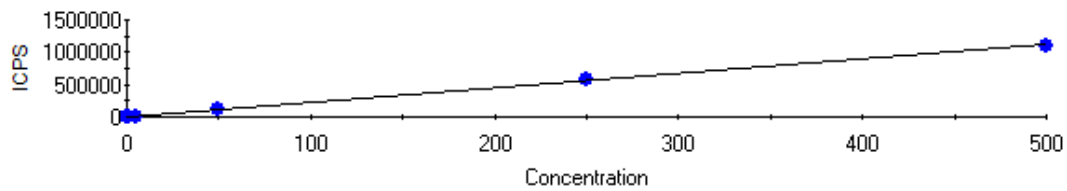
Intercept CPS=14.193992 Intercept Conc=0.215219
Sensitivity=65.951338 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.038	0.038	16.69	0.00
237881_10175_Cal1	1.000	1.032	0.032	82.27	3.22
237882_10175_Cal2	5.000	4.454	0.546	307.93	10.92
237883_10175_Cal3	50.000	48.975	1.025	3244.17	2.05
237884_10175_Cal4	250.000	250.230	0.230	16517.19	0.09
237885_10175_Cal5	500.000	498.688	1.312	32903.34	0.26

51V FQ Block 1

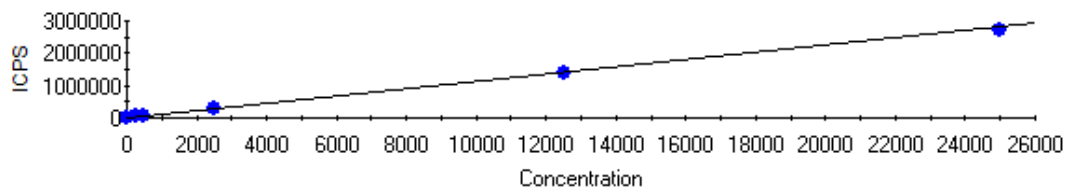
Intercept CPS=233.305466 Intercept Conc=0.142265
Sensitivity=1639.932404 Correlation Coeff=0.999964

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.006	0.006	242.60	0.00
237881_10175_Cal1	1.000	0.911	0.089	1726.52	8.95
237882_10175_Cal2	5.000	4.952	0.048	8354.82	0.95
237883_10175_Cal3	50.000	49.979	0.021	82194.81	0.04
237884_10175_Cal4	250.000	252.513	2.513	414338.22	1.01
237885_10175_Cal5	500.000	496.268	3.732	814079.92	0.75

52Cr FQ Block 1

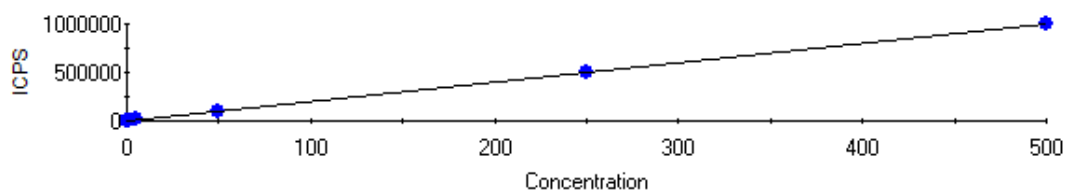
Intercept CPS=106.508734 Intercept Conc=0.047499
Sensitivity=2242.337088 Correlation Coeff=0.999944

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.076	0.076	276.05	0.00
237881_10175_Cal1	1.000	0.964	0.036	2267.23	3.64
237882_10175_Cal2	5.000	4.926	0.074	11151.25	1.49
237883_10175_Cal3	50.000	50.903	0.903	114248.54	1.81
237884_10175_Cal4	250.000	252.541	2.541	566389.25	1.02
237885_10175_Cal5	500.000	494.111	5.889	1108070.32	1.18

54Fe FQ Block 1

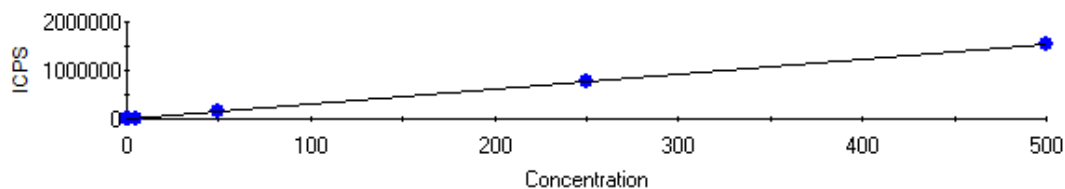
Intercept CPS=1152.035646 Intercept Conc=10.283231
Sensitivity=112.030516 Correlation Coeff=0.999808

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.298	0.298	1118.60	0.00
237881_10175_Cal1	250.000	259.291	9.291	30200.51	3.72
237882_10175_Cal2	500.000	512.346	12.346	58550.40	2.47
237883_10175_Cal3	2500.000	2584.489	84.489	290693.66	3.38
237884_10175_Cal4	12500.000	12593.246	93.246	1411979.86	0.75
237885_10175_Cal5	25000.000	24192.829	807.171	2711487.14	3.23

55Mn FQ Block 1

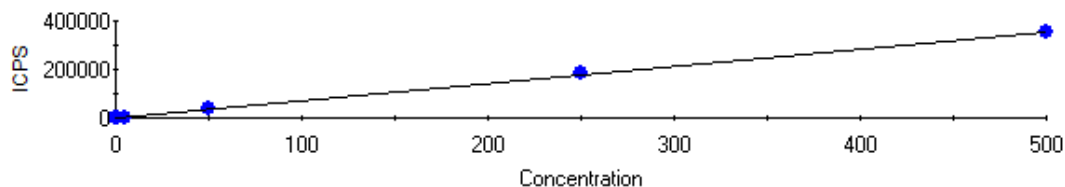
Intercept CPS=254.830123 Intercept Conc=0.128039
Sensitivity=1990.248813 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.007	0.007	268.38	0.00
237881_10175_Cal1	1.000	0.953	0.047	2151.72	4.69
237882_10175_Cal2	5.000	4.988	0.012	10181.70	0.24
237883_10175_Cal3	50.000	50.970	0.970	101698.57	1.94
237884_10175_Cal4	250.000	253.995	3.995	505768.52	1.60
237885_10175_Cal5	500.000	499.053	0.947	993493.49	0.19

59Co FQ Block 1

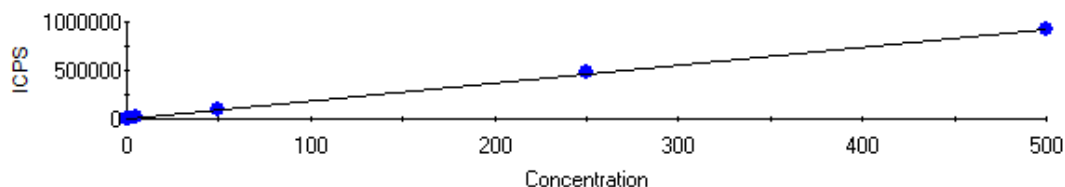
Intercept CPS=206.434427 Intercept Conc=0.067185
Sensitivity=3072.646636 Correlation Coeff=0.999933

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.023	0.023	276.44	0.00
237881_10175_Cal1	1.000	0.996	0.004	3267.30	0.38
237882_10175_Cal2	5.000	5.092	0.092	15851.68	1.84
237883_10175_Cal3	50.000	51.187	1.187	157484.90	2.37
237884_10175_Cal4	250.000	254.832	4.832	783215.10	1.93
237885_10175_Cal5	500.000	497.495	2.505	1528831.87	0.50

60Ni FQ Block 1

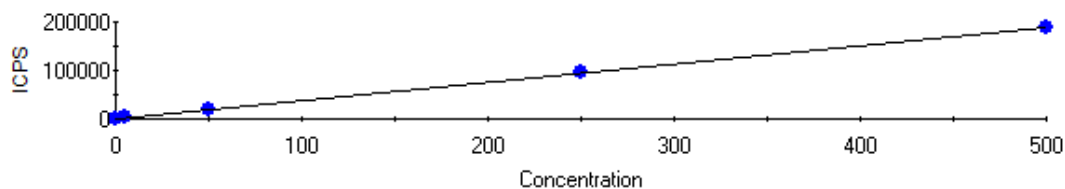
Intercept CPS=145.658160 Intercept Conc=0.205285
Sensitivity=709.542101 Correlation Coeff=0.999952

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.013	0.013	136.18	0.00
237881_10175_Cal1	1.000	1.001	0.001	855.65	0.06
237882_10175_Cal2	5.000	5.052	0.052	3730.08	1.03
237883_10175_Cal3	50.000	51.452	1.452	36652.70	2.90
237884_10175_Cal4	250.000	255.044	5.044	181109.96	2.02
237885_10175_Cal5	500.000	499.857	0.143	354814.91	0.03

63Cu FQ Block 1

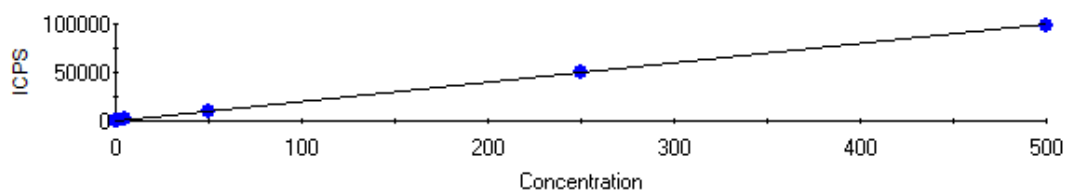
Intercept CPS=447.646980 Intercept Conc=0.242021
Sensitivity=1849.622229 Correlation Coeff=0.999907

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.040	0.040	522.37	0.00
237881_10175_Cal1	1.000	0.965	0.035	2232.30	3.51
237882_10175_Cal2	5.000	5.147	0.147	9968.39	2.95
237883_10175_Cal3	50.000	52.151	2.151	96907.26	4.30
237884_10175_Cal4	250.000	256.324	6.324	474550.91	2.53
237885_10175_Cal5	500.000	498.498	1.502	922481.14	0.30

66Zn FQ Block 1

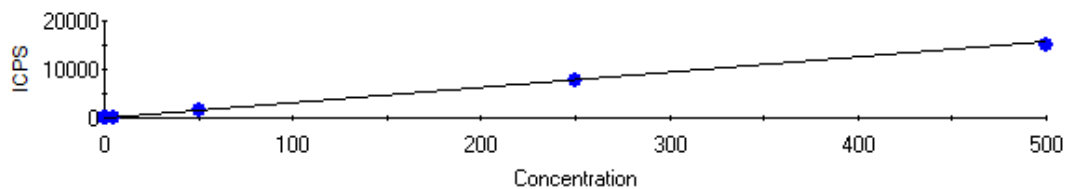
Intercept CPS=297.950192 Intercept Conc=0.794895
Sensitivity=374.829649 Correlation Coeff=0.999824

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.110	0.110	256.64	0.00
237882_10175_Cal2	5.000	5.133	0.133	2221.80	2.65
237883_10175_Cal3	50.000	52.693	2.693	20049.04	5.39
237884_10175_Cal4	250.000	258.616	8.616	97235.05	3.45
237885_10175_Cal5	500.000	498.390	1.610	187109.25	0.32

75As FQ Block 1

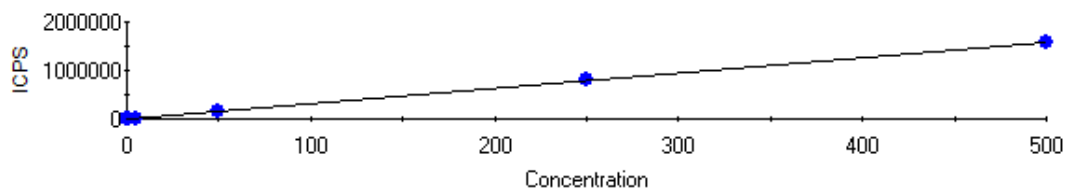
Intercept CPS=142.814108 Intercept Conc=0.717182
Sensitivity=199.132372 Correlation Coeff=0.999915

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.002	0.002	143.11	0.00
237881_10175_Cal1	1.000	0.948	0.052	331.63	5.18
237882_10175_Cal2	5.000	5.198	0.198	1177.91	3.96
237883_10175_Cal3	50.000	52.312	2.312	10559.80	4.62
237884_10175_Cal4	250.000	253.542	3.542	50631.17	1.42
237885_10175_Cal5	500.000	494.003	5.997	98514.84	1.20

78Se FQ Block 1

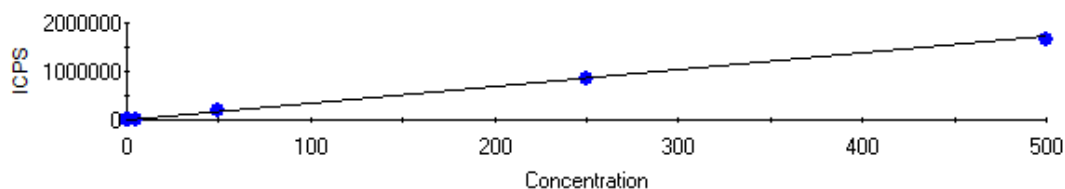
Intercept CPS=9.570738 Intercept Conc=0.304387
Sensitivity=31.442643 Correlation Coeff=0.999808

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.024	0.024	8.83	0.00
237881_10175_Cal1	1.000	1.017	0.017	41.55	1.72
237882_10175_Cal2	5.000	5.263	0.263	175.07	5.27
237883_10175_Cal3	50.000	52.066	2.066	1646.66	4.13
237884_10175_Cal4	250.000	249.890	0.110	7866.76	0.04
237885_10175_Cal5	500.000	480.467	19.533	15116.73	3.91

88Sr FQ Block 1

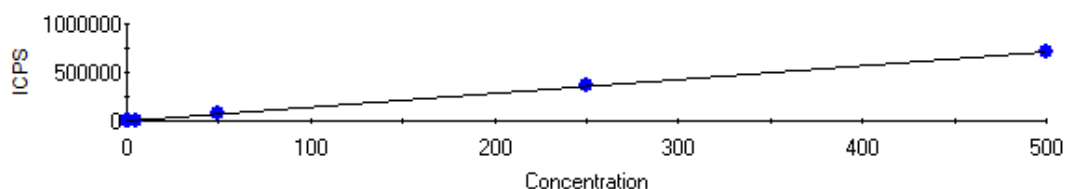
Intercept CPS=410.357216 Intercept Conc=0.130899
Sensitivity=3134.914961 Correlation Coeff=0.999961

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.007	0.007	387.09	0.00
237881_10175_Cal1	1.000	1.001	0.001	3549.72	0.14
237882_10175_Cal2	5.000	5.016	0.016	16135.03	0.32
237883_10175_Cal3	50.000	50.497	0.497	158714.07	0.99
237884_10175_Cal4	250.000	253.160	3.160	794044.71	1.26
237885_10175_Cal5	500.000	497.107	2.893	1558799.67	0.58

90Zr FQ Block 1

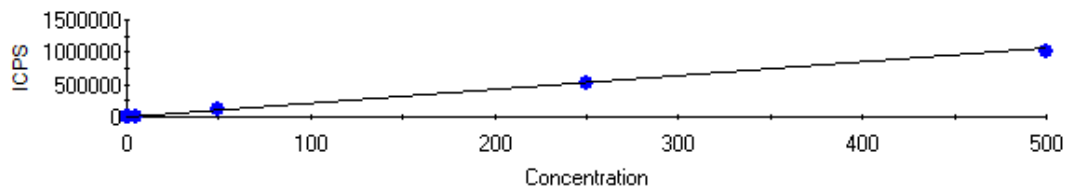
Intercept CPS=475.704288 Intercept Conc=0.138390
Sensitivity=3437.426225 Correlation Coeff=0.999903

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.001	0.001	473.87	0.00
237881_10175_Cal1	1.000	0.968	0.032	3803.97	3.18
237882_10175_Cal2	5.000	4.984	0.016	17608.65	0.32
237883_10175_Cal3	50.000	50.516	0.516	174120.83	1.03
237884_10175_Cal4	250.000	250.001	0.001	859834.01	0.00
237885_10175_Cal5	500.000	485.811	14.189	1670415.75	2.84

95Mo FQ Block 1

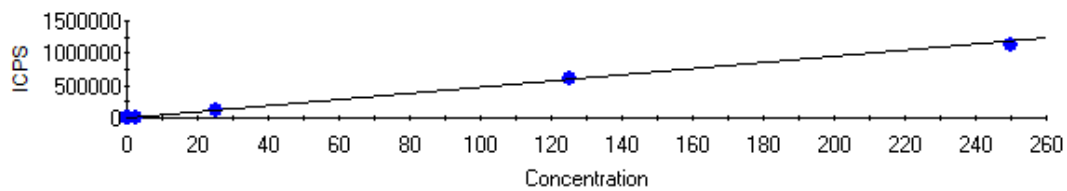
Intercept CPS=130.094718 Intercept Conc=0.091030
Sensitivity=1429.137524 Correlation Coeff=0.999973

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.021	0.021	159.69	0.00
237881_10175_Cal1	1.000	0.966	0.034	1510.30	3.42
237882_10175_Cal2	5.000	4.891	0.109	7119.57	2.19
237883_10175_Cal3	50.000	50.114	0.114	71749.87	0.23
237884_10175_Cal4	250.000	251.247	1.247	359197.01	0.50
237885_10175_Cal5	500.000	494.833	5.167	707314.98	1.03

105Pd FQ Block 1

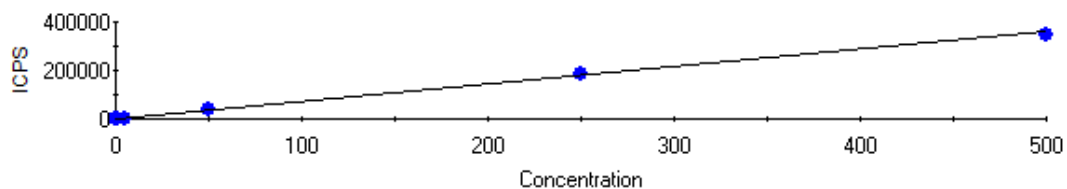
Intercept CPS=761.817006 Intercept Conc=0.355786
Sensitivity=2141.222780 Correlation Coeff=0.999716

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.004	0.004	752.54	0.00
237881_10175_Cal1	1.000	0.963	0.037	2823.55	3.71
237882_10175_Cal2	5.000	5.073	0.073	11625.28	1.47
237883_10175_Cal3	50.000	51.175	1.175	110339.47	2.35
237884_10175_Cal4	250.000	248.338	1.662	532509.58	0.66
237885_10175_Cal5	500.000	473.149	26.851	1013879.47	5.37

107Ag FQ Block 1

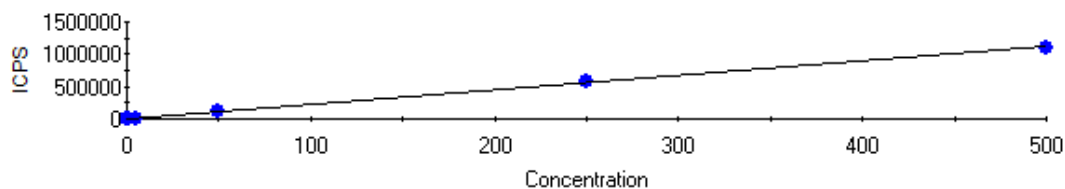
Intercept CPS=572.704911 Intercept Conc=0.120050
Sensitivity=4770.543505 Correlation Coeff=0.999610

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	579.20	0.00
237881_10175_Cal1	0.500	0.487	0.013	2895.72	2.61
237882_10175_Cal2	2.500	2.543	0.043	12705.38	1.73
237883_10175_Cal3	25.000	26.230	1.230	125705.82	4.92
237884_10175_Cal4	125.000	125.779	0.779	600605.79	0.62
237885_10175_Cal5	250.000	237.774	12.226	1134885.80	4.89

111Cd FQ Block 1

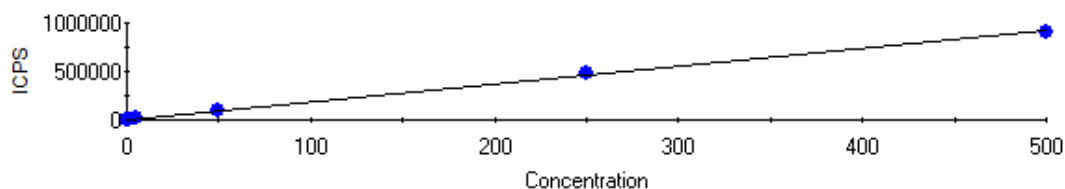
Intercept CPS=78.724393 Intercept Conc=0.109999
Sensitivity=715.684461 Correlation Coeff=0.999564

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.012	0.012	70.18	0.00
237881_10175_Cal1	1.000	1.018	0.018	807.00	1.76
237882_10175_Cal2	5.000	5.126	0.126	3747.65	2.53
237883_10175_Cal3	50.000	53.316	3.316	38236.19	6.63
237884_10175_Cal4	250.000	256.944	6.944	183969.36	2.78
237885_10175_Cal5	500.000	484.067	15.933	346517.73	3.19

118Sn FQ Block 1

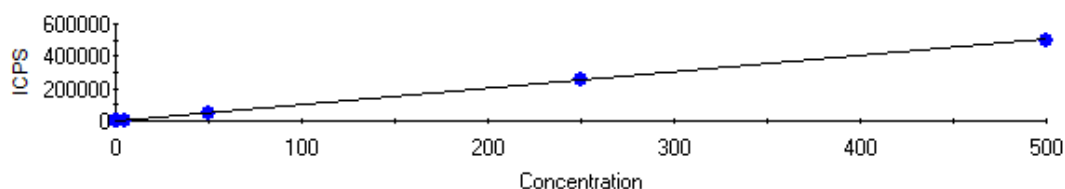
Intercept CPS=509.231848 Intercept Conc=0.226896
Sensitivity=2244.341016 Correlation Coeff=0.999721

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.002	0.002	505.10	0.00
237881_10175_Cal1	1.000	0.943	0.057	2625.57	5.70
237882_10175_Cal2	5.000	5.201	0.201	12183.13	4.03
237883_10175_Cal3	50.000	52.249	2.249	117774.85	4.50
237884_10175_Cal4	250.000	255.423	5.423	573766.11	2.17
237885_10175_Cal5	500.000	486.730	13.270	1092898.28	2.65

121Sb FQ Block 1

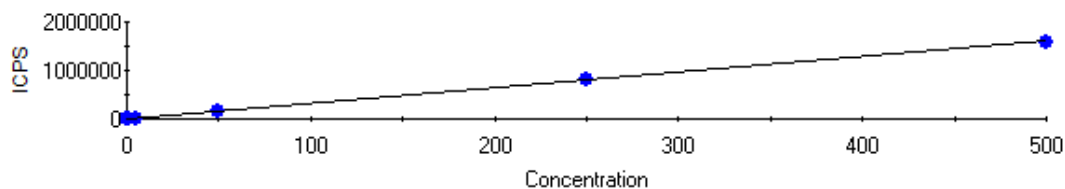
Intercept CPS=340.243303 Intercept Conc=0.184270
Sensitivity=1846.441052 Correlation Coeff=0.999529

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.009	0.009	323.67	0.00
237881_10175_Cal1	1.000	1.043	0.043	2265.90	4.29
237882_10175_Cal2	5.000	5.303	0.303	10132.29	6.06
237883_10175_Cal3	50.000	53.667	3.667	99432.50	7.33
237884_10175_Cal4	250.000	257.861	7.861	476465.59	3.14
237885_10175_Cal5	500.000	484.627	15.373	895175.43	3.07

137Ba FQ Block 1

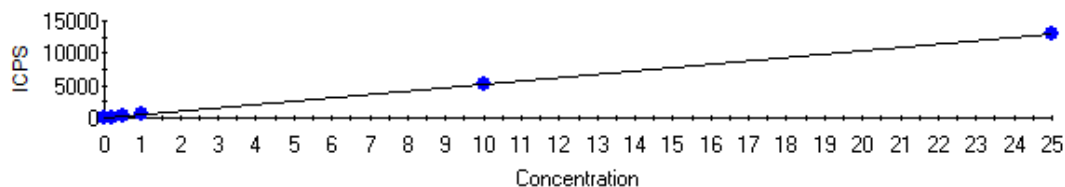
Intercept CPS=85.870728 Intercept Conc=0.084442
Sensitivity=1016.915740 Correlation Coeff=0.999962

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.039	0.039	125.99	0.00
237881_10175_Cal1	1.000	0.968	0.032	1069.93	3.23
237882_10175_Cal2	5.000	5.004	0.004	5174.62	0.08
237883_10175_Cal3	50.000	50.772	0.772	51716.33	1.54
237884_10175_Cal4	250.000	250.883	0.883	255212.51	0.35
237885_10175_Cal5	500.000	492.858	7.142	501280.97	1.43

195Pt FQ Block 1

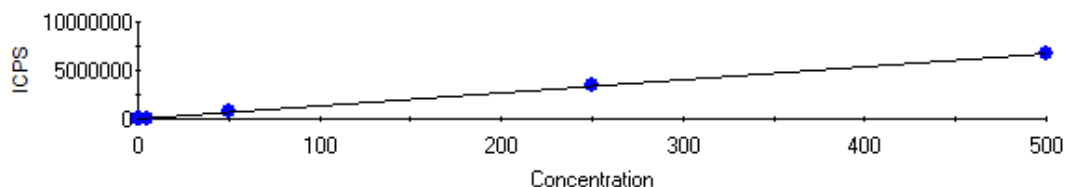
Intercept CPS=324.864862 Intercept Conc=0.099888
Sensitivity=3252.279899 Correlation Coeff=0.999958

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	-0.006	0.006	303.87	0.00
237881_10175_Cal1	1.000	1.006	0.006	3596.14	0.58
237882_10175_Cal2	5.000	4.996	0.004	16572.50	0.08
237883_10175_Cal3	50.000	50.396	0.396	164226.82	0.79
237884_10175_Cal4	250.000	249.914	0.086	813113.89	0.03
237885_10175_Cal5	500.000	490.429	9.571	1595337.87	1.91

201Hg FQ Block 1

Intercept CPS=6.265321 Intercept Conc=0.012108
Sensitivity=517.445614 Correlation Coeff=0.999969

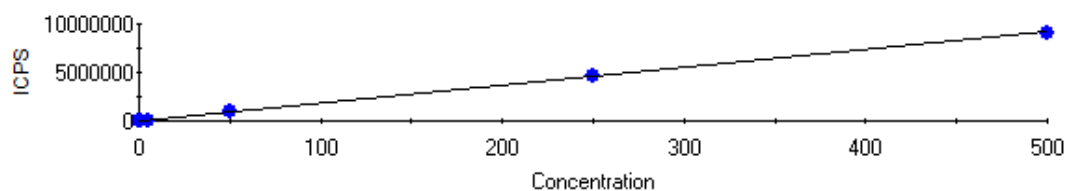
Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.001	0.001	6.62	0.00
237881_10175_Cal1	0.200	0.209	0.009	114.66	4.74
237882_10175_Cal2	0.500	0.459	0.041	243.77	8.20
237883_10175_Cal3	1.000	1.005	0.005	526.37	0.51
237884_10175_Cal4	10.000	9.818	0.182	5086.39	1.82
237885_10175_Cal5	25.000	25.036	0.036	12961.21	0.15

205Tl FQ Block 1

Intercept CPS=2541.299306 Intercept Conc=0.186865
Sensitivity=13599.627384 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.003	0.003	2586.41	0.00
237881_10175_Cal1	1.000	0.983	0.017	15916.39	1.65
237882_10175_Cal2	5.000	5.013	0.013	70710.73	0.25
237883_10175_Cal3	50.000	50.182	0.182	684999.28	0.36
237884_10175_Cal4	250.000	248.976	1.024	3388525.08	0.41
237885_10175_Cal5	500.000	493.481	6.519	6713698.52	1.30

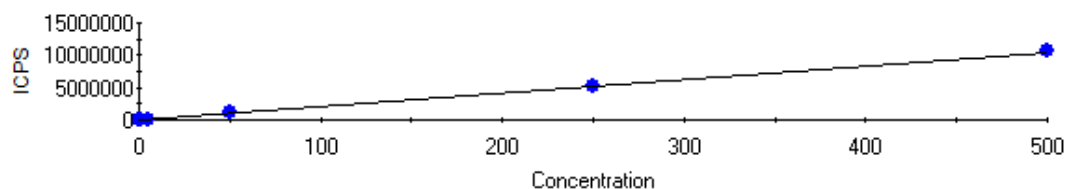
208Pb FQ Block 1



Intercept CPS=1777.834261 Intercept Conc=0.096667
Sensitivity=18391.290801 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.000	0.000	1784.25	0.00
237881_10175_Cal1	1.000	0.991	0.009	20003.76	0.90
237882_10175_Cal2	5.000	5.072	0.072	95064.90	1.45
237883_10175_Cal3	50.000	50.671	0.671	933681.10	1.34
237884_10175_Cal4	250.000	247.880	2.120	4560612.65	0.85
237885_10175_Cal5	500.000	493.314	6.686	9074466.59	1.34

238U FQ Block 1



Intercept CPS=1437.574563 Intercept Conc=0.068346
Sensitivity=21033.723794 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
237880_10175_Cal0	0.000	0.003	0.003	1490.65	0.00
237881_10175_Cal1	1.000	0.987	0.013	22193.81	1.32
237882_10175_Cal2	5.000	5.063	0.063	107931.26	1.26
237883_10175_Cal3	50.000	50.238	0.238	1058138.13	0.48
237884_10175_Cal4	250.000	249.344	0.656	5246068.00	0.26
237885_10175_Cal5	500.000	502.378	2.378	10568312.48	0.48

Dilution Corrected Concentrations

237880_10175_Cal0 10/18/2019 11:37:46 AM

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	11:37:50	0.005	0.005	0.235	-0.172	-1.230	0.463	-0.628	-5.311	141.700	1443000.000
2	11:37:53	0.012	0.012	-0.274	-0.946	-0.915	-0.179	-0.504	-24.640	133.600	1420000.000
3	11:37:57	-0.012	-0.048	-0.109	0.090	1.281	-0.432	-1.617	-5.372	146.600	1437000.000
x		0.002	-0.010	-0.049	-0.343	-0.288	-0.049	-0.916	-11.770	140.600	1433000.000
σ		0.012	0.033	0.260	0.539	1.368	0.462	0.610	11.140	6.537	12200.000
%RSD		756.000	317.400	525.300	157.000	474.800	938.300	66.550	94.630	4.648	0.851
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	11:37:50	-0.177	-4.364	98.466%	99.592%	-0.049	-0.010	0.108	4.912	-0.721	-0.001
2	11:37:53	-3.878	9.305	100.907%	100.611%	0.182	-0.004	0.055	4.790	-0.027	0.015
3	11:37:57	2.029	-1.180	100.627%	99.796%	-0.019	0.031	0.064	4.909	-0.147	0.007
x		-0.675	1.253	100.000%	100.000%	0.038	0.006	0.076	4.871	-0.298	0.007
σ		2.985	7.152	1.336%	0.539%	0.126	0.022	0.028	0.070	0.371	0.008
%RSD		441.800	570.600	1.336	0.539	331.700	395.500	37.100	1.427	124.200	116.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:37:50	0.031	0.001	0.051	-0.217	98.330%	-0.001	0.027	-0.019	98.779%	-0.007
2	11:37:53	0.025	-0.041	0.031	-0.071	100.632%	0.026	-0.037	-0.011	100.134%	-0.005
3	11:37:57	0.012	-0.001	0.039	-0.043	101.038%	-0.021	-0.061	0.008	101.087%	0.010
x		0.023	-0.013	0.040	-0.110	100.000%	0.002	-0.024	-0.007	100.000%	-0.001
σ		0.010	0.024	0.010	0.093	1.460%	0.024	0.046	0.014	1.160%	0.009
%RSD		44.140	178.100	24.880	84.400	1.460	1594.000	193.200	186.600	1.160	1690.000
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:37:50	0.011	-0.005	0.001	-0.016	98.384%	-0.009	-0.002	0.051	98.745%	-0.001
2	11:37:53	0.002	-0.016	-0.008	0.007	100.516%	0.008	-0.014	0.035	100.325%	-0.012
3	11:37:57	0.049	0.008	0.011	-0.027	101.100%	-0.005	-0.011	0.032	100.930%	-0.006
x		0.021	-0.004	0.001	-0.012	100.000%	-0.002	-0.009	0.039	100.000%	-0.006
σ		0.025	0.012	0.010	0.018	1.430%	0.008	0.006	0.010	1.129%	0.005
%RSD		119.800	268.300	715.900	147.200	1.430	456.400	69.090	25.130	1.129	83.340
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:37:50	-0.008	0.011	-0.001	97.995%	0.000					
2	11:37:53	0.009	0.002	0.003	101.119%	0.003					
3	11:37:57	0.001	-0.004	-0.001	100.886%	0.004					
x		0.001	0.003	0.000	100.000%	0.003					
σ		0.008	0.008	0.002	1.740%	0.002					
%RSD		1217.000	229.000	631.800	1.740	89.030					

237881_10175_Cal1

10/18/2019 11:44:59 AM

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	11:45:03	0.922	1.038	1.272	252.700	242.700	250.000	61.290	50.000	141.200	1443000.000
2	11:45:07	1.024	0.938	0.911	255.900	251.000	244.400	53.840	53.940	134.800	1424000.000
3	11:45:10	0.955	0.977	0.906	260.000	255.100	247.000	52.710	47.380	142.600	1424000.000
x		0.967	0.984	1.030	256.200	249.600	247.100	55.950	50.440	139.500	1430000.000
σ		0.052	0.050	0.210	3.663	6.317	2.780	4.659	3.300	4.157	11120.000
%RSD		5.401	5.098	20.360	1.430	2.531	1.125	8.327	6.543	2.979	0.777
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	11:45:03	250.500	246.700	98.464%	97.412%	1.061	0.925	0.963	5.286	258.100	0.972
2	11:45:07	253.900	245.600	100.031%	97.882%	0.805	0.764	0.928	5.742	257.800	0.910
3	11:45:10	249.900	212.200	100.851%	98.038%	1.230	1.042	1.000	5.029	262.000	0.977
x		251.400	234.800	99.782%	97.777%	1.032	0.910	0.964	5.352	259.300	0.953
σ		2.143	19.580	1.213%	0.326%	0.214	0.140	0.036	0.361	2.346	0.037
%RSD		0.853	8.337	1.215	0.333	20.770	15.340	3.774	6.748	0.905	3.904
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:03	0.993	0.991	0.957	1.145	99.775%	0.904	1.171	0.955	97.524%	0.953
2	11:45:07	0.995	1.048	0.964	0.887	102.161%	0.926	0.731	1.006	99.697%	0.951
3	11:45:10	1.001	0.963	0.974	0.930	102.198%	1.014	1.150	1.043	99.475%	1.001
x		0.996	1.001	0.965	0.987	101.378%	0.948	1.017	1.001	98.898%	0.968
σ		0.004	0.043	0.009	0.138	1.388%	0.058	0.248	0.044	1.196%	0.028
%RSD		0.396	4.325	0.921	13.990	1.369	6.129	24.400	4.413	1.209	2.921
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:03	0.938	0.971	0.480	1.066	99.116%	0.937	0.993	0.977	97.374%	1.000
2	11:45:07	0.957	0.939	0.483	0.954	101.426%	0.914	1.056	0.959	99.241%	1.006
3	11:45:10	1.003	0.979	0.498	1.033	101.907%	0.977	1.081	0.968	100.350%	1.011
x		0.966	0.963	0.487	1.018	100.816%	0.943	1.043	0.968	98.988%	1.006
σ		0.033	0.021	0.009	0.058	1.492%	0.032	0.045	0.009	1.504%	0.005
%RSD		3.458	2.176	1.923	5.676	1.480	3.389	4.354	0.915	1.519	0.525
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:45:03	0.191	0.972	0.986	97.379%	0.988					
2	11:45:07	0.236	0.979	0.990	98.458%	0.982					
3	11:45:10	0.202	1.000	0.997	100.577%	0.991					
x		0.209	0.984	0.991	98.805%	0.987					
σ		0.024	0.015	0.006	1.627%	0.005					
%RSD		11.340	1.515	0.593	1.647	0.472					

237882_10175_Cal2 10/18/2019 11:52:11 AM

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	11:52:15	4.927	5.112	5.171	516.200	489.000	507.300	248.600	244.800	127.700	1407000.000
2	11:52:19	5.030	5.021	4.802	510.200	503.200	502.000	263.600	241.200	133.700	1402000.000
3	11:52:22	5.069	5.397	5.040	508.300	481.200	503.200	256.000	266.700	139.300	1395000.000
x		5.009	5.177	5.004	511.600	491.100	504.200	256.000	250.900	133.600	1401000.000
σ		0.074	0.196	0.187	4.160	11.160	2.769	7.504	13.780	5.761	6034.000
%RSD		1.470	3.787	3.739	0.813	2.271	0.549	2.931	5.494	4.313	0.431
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	11:52:15	483.600	490.200	97.716%	96.895%	4.652	5.015	4.903	5.941	505.600	4.983
2	11:52:19	492.800	471.000	98.488%	96.663%	4.742	4.831	4.913	6.002	516.700	4.978
3	11:52:22	486.300	558.600	99.844%	98.749%	3.967	5.011	4.960	5.403	514.800	5.002
x		487.600	506.600	98.683%	97.435%	4.454	4.952	4.926	5.782	512.300	4.988
σ		4.762	46.030	1.077%	1.143%	0.423	0.105	0.030	0.330	5.947	0.012
%RSD		0.977	9.086	1.092	1.173	9.510	2.128	0.613	5.699	1.161	0.246
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:15	5.164	5.110	5.252	4.922	98.694%	5.181	4.985	4.983	96.283%	4.959
2	11:52:19	5.121	5.014	5.014	5.304	101.439%	5.355	5.322	5.040	98.173%	5.014
3	11:52:22	4.990	5.031	5.176	5.172	102.247%	5.058	5.482	5.025	98.668%	4.980
x		5.092	5.052	5.147	5.133	100.793%	5.198	5.263	5.016	97.708%	4.984
σ		0.090	0.051	0.121	0.194	1.862%	0.149	0.254	0.030	1.259%	0.028
%RSD		1.775	1.006	2.358	3.775	1.847	2.875	4.819	0.591	1.288	0.565
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:15	4.748	5.066	2.517	5.097	98.021%	5.258	5.283	4.979	96.716%	4.939
2	11:52:19	4.952	5.133	2.570	5.241	100.414%	5.226	5.275	5.107	98.783%	4.998
3	11:52:22	4.972	5.021	2.543	5.041	101.200%	5.120	5.351	4.926	100.023%	5.050
x		4.891	5.073	2.543	5.126	99.878%	5.201	5.303	5.004	98.507%	4.996
σ		0.124	0.057	0.026	0.103	1.656%	0.072	0.042	0.093	1.671%	0.056
%RSD		2.540	1.115	1.042	2.006	1.658	1.386	0.784	1.857	1.696	1.112
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:52:15	0.441	4.980	5.077	97.749%	5.044					
2	11:52:19	0.504	5.034	5.050	99.948%	5.055					
3	11:52:22	0.431	5.024	5.089	100.865%	5.090					
x		0.459	5.013	5.072	99.521%	5.063					
σ		0.040	0.029	0.020	1.601%	0.024					
%RSD		8.651	0.575	0.394	1.609	0.477					

237883_10175_Cal3 10/18/2019 11:59:24 AM

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	11:59:28	49.860	51.020	50.350	2563.000	2523.000	2563.000	2507.000	2696.000	120.200	1473000.000
2	11:59:32	50.160	50.740	51.660	2542.000	2509.000	2516.000	2507.000	2575.000	126.300	1450000.000
3	11:59:36	49.630	51.530	49.110	2606.000	2512.000	2563.000	2504.000	2642.000	125.700	1440000.000
x		49.880	51.090	50.370	2570.000	2515.000	2547.000	2506.000	2638.000	124.100	1454000.000
σ		0.265	0.399	1.277	32.540	7.090	26.790	1.534	60.390	3.355	17280.000
%RSD		0.531	0.782	2.535	1.266	0.282	1.052	0.061	2.289	2.704	1.188
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:28	2546.000	2742.000	95.067%	94.982%	47.240	50.070	51.180	13.140	2559.000	50.510
2	11:59:32	2538.000	2656.000	97.131%	94.501%	51.720	49.930	50.860	13.840	2593.000	51.300
3	11:59:36	2560.000	2541.000	97.238%	93.579%	47.970	49.940	50.670	13.790	2601.000	51.100
x		2548.000	2646.000	96.479%	94.354%	48.980	49.980	50.900	13.590	2584.000	50.970
σ		11.220	100.800	1.224%	0.713%	2.405	0.075	0.262	0.392	22.190	0.411
%RSD		0.440	3.808	1.269	0.755	4.910	0.151	0.514	2.887	0.859	0.807
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:28	50.810	50.610	51.890	52.140	98.028%	51.500	52.020	50.670	94.242%	50.560
2	11:59:32	51.490	51.980	52.180	52.680	99.224%	53.080	51.580	50.400	96.400%	50.570
3	11:59:36	51.260	51.770	52.380	53.260	100.853%	52.360	52.600	50.420	97.491%	50.420
x		51.190	51.450	52.150	52.690	99.368%	52.310	52.070	50.500	96.044%	50.520
σ		0.345	0.738	0.248	0.562	1.418%	0.793	0.515	0.153	1.653%	0.085
%RSD		0.675	1.434	0.475	1.066	1.427	1.516	0.989	0.304	1.721	0.167
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:59:28	49.610	51.150	26.340	52.880	97.397%	52.380	53.610	50.770	96.736%	50.220
2	11:59:32	50.820	51.080	26.100	53.580	100.216%	51.980	53.360	50.470	99.566%	50.460
3	11:59:36	49.910	51.290	26.250	53.490	100.642%	52.390	54.030	51.080	100.256%	50.510
x		50.110	51.180	26.230	53.320	99.418%	52.250	53.670	50.770	98.852%	50.400
σ		0.629	0.106	0.126	0.379	1.764%	0.236	0.341	0.306	1.865%	0.154
%RSD		1.255	0.207	0.479	0.712	1.774	0.451	0.635	0.604	1.887	0.306
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	11:59:28	0.963	49.900	50.580	97.419%	50.280					
2	11:59:32	1.082	50.150	50.490	101.096%	49.630					
3	11:59:36	0.970	50.500	50.950	101.179%	50.810					
x		1.005	50.180	50.670	99.898%	50.240					
σ		0.067	0.304	0.242	2.147%	0.592					
%RSD		6.659	0.607	0.478	2.149	1.178					

237884_10175_Cal4 10/18/2019 12:06:37 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	12:06:41	250.600	254.200	253.900	12680.000	12290.000	12650.000	12050.000	12910.000	107.900	<u>1628000.000</u>
2	12:06:45	250.100	255.600	254.600	12590.000	12340.000	12570.000	12090.000	13100.000	116.000	<u>1612000.000</u>
3	12:06:49	251.100	255.000	258.800	12530.000	12210.000	12480.000	12010.000	13160.000	120.900	<u>1605000.000</u>
x		250.600	254.900	255.800	12600.000	12280.000	12570.000	12050.000	13060.000	114.900	<u>1615000.000</u>
σ		0.475	0.697	2.684	72.730	66.020	85.380	38.960	132.500	6.578	<u>11650.000</u>
%RSD		0.190	0.274	1.049	0.577	0.538	0.679	0.323	1.014	5.723	<u>0.721</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	12:06:41	12420.000	12340.000	97.636%	93.285%	250.700	252.700	252.300	42.250	12510.000	251.800
2	12:06:45	12470.000	12610.000	99.409%	94.067%	251.200	253.600	254.200	43.510	12730.000	255.800
3	12:06:49	12440.000	12360.000	101.497%	93.478%	248.800	251.300	251.100	41.390	12540.000	254.300
x		12440.000	12440.000	99.514%	93.610%	250.200	252.500	252.500	42.380	12590.000	254.000
σ		28.770	151.600	1.932%	0.408%	1.260	1.171	1.593	1.066	118.300	2.023
%RSD		0.231	1.219	1.942	0.435	0.503	0.464	0.631	2.516	0.940	0.796
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:41	252.000	253.200	256.000	257.200	100.142%	251.600	248.600	251.700	96.715%	250.000
2	12:06:45	256.700	255.700	257.500	260.500	101.281%	254.600	250.900	253.500	99.720%	250.000
3	12:06:49	255.800	256.200	255.500	258.100	103.463%	254.500	250.200	254.300	100.145%	250.000
x		254.800	255.000	256.300	258.600	101.629%	253.500	249.900	253.200	98.860%	250.000
σ		2.521	1.585	1.083	1.666	1.687%	1.706	1.183	1.309	1.870%	0.018
%RSD		0.989	0.621	0.422	0.644	1.660	0.673	0.473	0.517	1.891	0.007
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:06:41	251.700	249.200	126.000	259.100	101.409%	256.000	258.600	251.400	101.225%	248.900
2	12:06:45	250.800	247.000	125.400	255.000	105.472%	254.800	257.500	250.500	104.284%	250.100
3	12:06:49	251.200	248.800	126.000	256.700	106.458%	255.400	257.500	250.700	105.578%	250.800
x		251.200	248.300	125.800	256.900	104.447%	255.400	257.900	250.900	103.696%	249.900
σ		0.407	1.210	0.365	2.057	2.676%	0.624	0.605	0.464	2.235%	0.956
%RSD		0.162	0.487	0.290	0.800	2.562	0.244	0.234	0.185	2.156	0.383
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:06:41	10.080	<u>1252.000</u>	248.600	101.289%	<u>1254.600</u>					
2	12:06:45	9.638	<u>1248.900</u>	247.000	104.175%	<u>1247.000</u>					
3	12:06:49	9.733	<u>1246.000</u>	248.000	105.660%	<u>1246.400</u>					
x		9.818	<u>1249.000</u>	247.900	103.708%	<u>1249.300</u>					
σ		0.233	<u>12.998</u>	0.801	2.223%	<u>14.587</u>					
%RSD		2.377	<u>1.204</u>	0.323	2.143	<u>1.840</u>					

237885_10175_Cal5

10/18/2019 12:13:52 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	12:13:56	481.900	474.700	489.200	<u>T 24780.000</u>	<u>T 22160.000</u>	24280.000	23050.000	24860.000	127.200	<u>T 1836000.000</u>
2	12:14:00	486.500	478.700	495.900	<u>T 24800.000</u>	<u>T 21490.000</u>	24400.000	23230.000	24980.000	108.100	<u>T 1831000.000</u>
3	12:14:03	478.700	476.700	486.800	<u>T 24640.000</u>	23710.000	24000.000	22960.000	24950.000	103.700	<u>T 1805000.000</u>
x		482.400	476.700	490.600	<u>T 24740.000</u>	<u>T 22450.000</u>	24230.000	23080.000	24930.000	113.000	<u>T 1824000.000</u>
σ		3.918	2.010	4.700	<u>T 87.220</u>	<u>T 1137.000</u>	205.700	138.400	58.860	12.490	<u>T 16440.000</u>
%RSD		0.812	0.422	0.958	<u>T 0.352</u>	<u>T 5.065</u>	0.849	0.600	0.236	11.060	<u>T 0.901</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	12:13:56	<u>TM 25240.000</u>	<u>M 25130.000</u>	101.469%	97.870%	<u>M 504.600</u>	493.700	491.500	93.220	24070.000	498.000
2	12:14:00	<u>TM 25090.000</u>	<u>M 25050.000</u>	102.827%	97.229%	<u>M 500.700</u>	499.200	496.500	85.280	24340.000	<u>M 501.700</u>
3	12:14:03	<u>T 24950.000</u>	24840.000	104.664%	97.610%	490.700	495.900	494.300	84.900	24170.000	497.400
x		<u>TM 25100.000</u>	<u>M 25010.000</u>	102.987%	97.570%	<u>M 498.700</u>	496.300	494.100	87.800	24190.000	<u>M 499.100</u>
σ		<u>TM 144.600</u>	<u>M 150.000</u>	1.603%	0.322%	<u>M 7.154</u>	2.765	2.497	4.700	134.900	<u>M 2.314</u>
%RSD		<u>TM 0.576</u>	<u>M 0.600</u>	1.557	0.330	<u>M 1.435</u>	0.557	0.505	5.352	0.558	<u>M 0.464</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:56	498.400	<u>M 500.100</u>	498.200	499.300	100.279%	496.200	485.500	496.000	99.963%	485.300
2	12:14:00	498.400	499.900	499.100	498.000	103.842%	491.400	475.500	497.500	102.758%	484.800
3	12:14:03	495.700	499.500	498.200	497.900	104.642%	494.400	480.500	497.800	103.172%	487.300
x		497.500	<u>M 499.900</u>	498.500	498.400	102.921%	494.000	480.500	497.100	101.965%	485.800
σ		1.588	<u>M 0.312</u>	0.527	0.812	2.323%	2.409	4.998	0.948	1.746%	1.351
%RSD		0.319	<u>M 0.062</u>	0.106	0.163	2.257	0.488	1.040	0.191	1.712	0.278
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:56	493.800	471.500	236.600	481.900	108.710%	485.500	483.500	490.800	105.515%	488.500
2	12:14:00	494.500	473.100	238.200	484.000	110.816%	487.000	485.000	493.300	108.029%	490.000
3	12:14:03	496.100	474.800	238.600	486.300	111.653%	487.700	485.400	494.500	108.642%	492.800
x		494.800	473.100	237.800	484.100	110.393%	486.700	484.600	492.900	107.395%	490.400
σ		1.188	1.641	1.052	2.213	1.516%	1.084	0.990	1.866	1.657%	2.174
%RSD		0.240	0.347	0.442	0.457	1.374	0.223	0.204	0.379	1.543	0.443
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:13:56	24.940	<u>TM 501.300</u>	<u>T 496.500</u>	103.194%	<u>TM 508.100</u>					
2	12:14:00	24.970	<u>T 489.300</u>	<u>T 490.900</u>	106.093%	<u>T 497.800</u>					
3	12:14:03	<u>M 25.210</u>	<u>T 489.900</u>	<u>T 492.500</u>	106.401%	<u>TM 501.200</u>					
x		<u>M 25.040</u>	<u>TM 493.500</u>	<u>T 493.300</u>	105.229%	<u>TM 502.400</u>					
σ		<u>M 0.147</u>	<u>TM 6.760</u>	<u>T 2.916</u>	1.769%	<u>TM 5.268</u>					
%RSD		<u>M 0.588</u>	<u>TM 1.370</u>	<u>T 0.591</u>	1.681	<u>TM 1.049</u>					

237751_10175_ICV

10/18/2019 12:21:06 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	12:21:10	104.600	109.900	108.600	5474.000	5309.000	5371.000	5530.000	5693.000	114.300	1397000.000
2	12:21:14	104.500	108.500	110.000	5348.000	5191.000	5323.000	5377.000	5738.000	93.460	1349000.000
3	12:21:17	103.100	108.800	107.700	5423.000	5321.000	5385.000	5492.000	5916.000	88.260	1377000.000
x		104.100	109.100	108.700	5415.000	5274.000	5360.000	5466.000	5783.000	98.680	1374000.000
σ		0.819	0.750	1.128	63.200	71.570	32.770	79.460	117.800	13.790	24460.000
%RSD		0.787	0.688	1.038	1.167	1.357	0.611	1.454	2.037	13.970	1.780
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:21:10	5375.000	5255.000	99.983%	97.090%	108.100	109.100	108.700	23.680	5473.000	108.600
2	12:21:14	5249.000	5563.000	103.692%	98.073%	108.300	108.500	108.200	16.850	5408.000	108.200
3	12:21:17	5419.000	5544.000	102.639%	98.012%	109.500	109.000	109.700	22.170	5530.000	109.700
x		5348.000	5454.000	102.105%	97.725%	108.600	108.900	108.900	20.900	5470.000	108.800
σ		88.440	172.700	1.911%	0.551%	0.744	0.296	0.756	3.587	60.830	0.740
%RSD		1.654	3.167	1.872	0.564	0.685	0.272	0.695	17.160	1.112	0.680
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:21:10	110.900	111.300	112.400	116.000	101.289%	110.700	114.200	108.500	99.111%	108.900
2	12:21:14	109.800	111.000	111.600	114.200	105.658%	109.200	110.700	108.300	101.877%	110.200
3	12:21:17	111.000	111.200	113.500	117.300	104.832%	110.300	114.200	108.400	103.010%	109.900
x		110.600	111.200	112.500	115.800	103.926%	110.100	113.000	108.400	101.333%	109.700
σ		0.659	0.149	0.950	1.528	2.321%	0.775	2.027	0.094	2.006%	0.695
%RSD		0.596	0.134	0.844	1.319	2.233	0.704	1.794	0.087	1.979	0.633
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:21:10	102.200	105.500	55.410	113.900	103.483%	114.200	115.800	108.900	102.730%	105.800
2	12:21:14	102.000	106.300	55.950	114.800	106.023%	114.500	117.300	107.900	106.107%	106.100
3	12:21:17	101.700	106.000	55.790	114.300	106.379%	114.900	116.700	109.100	106.782%	106.600
x		102.000	105.900	55.720	114.300	105.295%	114.500	116.600	108.600	105.206%	106.200
σ		0.241	0.427	0.275	0.432	1.580%	0.322	0.805	0.650	2.171%	0.417
%RSD		0.237	0.403	0.493	0.378	1.500	0.281	0.690	0.599	2.064	0.393
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:21:10	4.051	104.400	107.600	103.236%	107.400					
2	12:21:14	4.228	105.400	108.500	106.535%	108.800					
3	12:21:17	4.052	105.100	108.100	107.476%	108.400					
x		4.110	105.000	108.100	105.749%	108.200					
σ		0.102	0.494	0.445	2.226%	0.700					
%RSD		2.469	0.471	0.412	2.105	0.647					

237880_10175_ICBTVA

10/18/2019 12:28:21 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	12:28:25	0.024	0.052	1.051	3.579	1.598	0.806	4.246	-3.220	108.700	1433000.000
2	12:28:28	0.042	0.041	0.617	1.049	0.339	0.234	3.891	-30.210	116.600	1413000.000
3	12:28:32	0.035	0.038	0.570	1.017	1.894	0.040	4.813	1.333	115.000	1445000.000
x		0.034	0.044	0.746	1.882	1.277	0.360	4.317	-10.700	113.400	1430000.000
σ		0.009	0.007	0.265	1.470	0.826	0.398	0.465	17.050	4.173	16030.000
%RSD		27.460	16.870	35.540	78.110	64.650	110.600	10.780	159.400	3.678	1.121
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	12:28:25	-6.049	5.856	98.832%	97.216%	-0.016	0.034	0.084	5.186	1.032	0.018
2	12:28:28	-5.964	-1.462	100.736%	98.547%	-0.019	0.039	0.092	5.129	1.542	0.003
3	12:28:32	-3.671	15.980	100.726%	97.653%	0.080	-0.039	0.101	5.476	1.357	0.013
x		-5.228	6.791	100.098%	97.805%	0.015	0.012	0.092	5.264	1.311	0.011
σ		1.349	8.757	1.096%	0.679%	0.056	0.044	0.009	0.186	0.259	0.008
%RSD		25.800	129.000	1.095	0.694	369.600	378.400	9.559	3.530	19.720	69.220
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:25	0.062	0.067	0.100	-0.116	98.582%	0.097	-0.013	0.029	97.478%	0.030
2	12:28:28	0.043	0.040	0.099	-0.134	100.408%	0.081	0.160	0.047	100.025%	0.025
3	12:28:32	0.036	0.053	0.112	-0.028	100.445%	0.060	-0.005	0.025	100.625%	0.032
x		0.047	0.054	0.103	-0.093	99.812%	0.080	0.047	0.034	99.376%	0.029
σ		0.014	0.013	0.007	0.057	1.065%	0.019	0.098	0.012	1.670%	0.004
%RSD		28.890	25.060	6.907	61.030	1.067	23.280	206.300	35.030	1.681	13.170
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:28:25	0.083	0.060	0.022	-0.011	96.864%	0.087	0.019	0.099	98.116%	0.041
2	12:28:28	0.072	0.000	0.007	0.002	99.875%	0.056	-0.012	0.038	100.399%	0.033
3	12:28:32	0.065	0.027	0.006	-0.030	100.862%	0.034	-0.017	0.045	101.093%	0.030
x		0.073	0.029	0.012	-0.013	99.200%	0.059	-0.003	0.061	99.870%	0.035
σ		0.009	0.030	0.009	0.016	2.083%	0.026	0.020	0.034	1.558%	0.006
%RSD		12.450	101.900	75.440	121.100	2.099	44.860	564.800	55.210	1.560	16.390
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:28:25	0.032	0.140	0.051	97.433%	0.037					
2	12:28:28	-0.004	0.134	0.036	100.557%	0.034					
3	12:28:32	0.001	0.119	0.026	100.602%	0.020					
x		0.010	0.131	0.038	99.531%	0.030					
σ		0.019	0.011	0.012	1.817%	0.009					
%RSD		200.200	8.412	32.720	1.825	30.400					

237881_10175_CRDL_A1

10/18/2019 12:35:35 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	12:35:39	1.027	1.047	1.248	262.900	253.700	252.100	57.220	47.860	102.300	1457000.000
2	12:35:43	0.999	1.138	1.364	265.500	251.500	249.200	55.950	49.890	133.700	1443000.000
3	12:35:47	1.060	0.914	1.510	258.100	249.800	250.000	61.010	45.320	124.800	1435000.000
x		1.029	1.033	1.374	262.200	251.700	250.400	58.060	47.690	120.200	1445000.000
σ		0.030	0.113	0.131	3.745	1.910	1.496	2.631	2.289	16.170	11040.000
%RSD		2.959	10.920	9.550	1.429	0.759	0.598	4.532	4.800	13.450	0.764
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	12:35:39	245.800	229.600	99.362%	99.283%	0.812	1.033	1.007	5.970	261.200	1.036
2	12:35:43	249.600	200.100	101.646%	100.477%	0.721	1.076	1.046	5.265	262.800	0.935
3	12:35:47	247.000	262.000	101.746%	100.648%	0.886	0.939	1.004	5.577	260.400	0.986
x		247.500	230.600	100.918%	100.136%	0.806	1.016	1.019	5.604	261.500	0.986
σ		1.937	30.970	1.349%	0.744%	0.083	0.070	0.023	0.353	1.215	0.050
%RSD		0.783	13.440	1.336	0.743	10.250	6.899	2.304	6.302	0.465	5.094
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:35:39	1.055	1.000	1.111	0.969	101.918%	1.195	0.973	1.052	98.496%	0.967
2	12:35:43	1.001	1.051	1.028	1.196	103.995%	1.045	1.004	1.048	101.070%	0.993
3	12:35:47	0.997	0.814	0.996	1.084	103.804%	1.115	0.961	0.971	101.586%	0.976
x		1.018	0.955	1.045	1.083	103.239%	1.118	0.979	1.024	100.384%	0.979
σ		0.032	0.125	0.060	0.114	1.148%	0.075	0.022	0.046	1.656%	0.013
%RSD		3.177	13.050	5.701	10.490	1.112	6.716	2.261	4.472	1.649	1.366
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:35:39	1.047	1.016	0.528	1.181	99.619%	1.052	1.051	0.986	98.827%	1.040
2	12:35:43	0.981	0.992	0.506	0.986	103.000%	1.046	1.092	1.013	100.898%	1.014
3	12:35:47	0.940	0.975	0.505	0.991	103.087%	1.081	0.986	1.051	101.263%	1.030
x		0.989	0.994	0.513	1.053	101.902%	1.060	1.043	1.017	100.329%	1.028
σ		0.054	0.021	0.013	0.111	1.977%	0.019	0.053	0.033	1.314%	0.013
%RSD		5.469	2.090	2.491	10.580	1.941	1.774	5.120	3.232	1.310	1.254
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:35:39	0.208	1.038	1.050	97.496%	1.041					
2	12:35:43	0.219	1.079	1.021	100.136%	1.045					
3	12:35:47	0.214	1.029	1.003	100.425%	1.016					
x		0.214	1.049	1.025	99.352%	1.034					
σ		0.006	0.027	0.023	1.614%	0.016					
%RSD		2.710	2.545	2.291	1.624	1.520					

237882_10175_CRDL_B1

10/18/2019 12:42:48 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	12:42:52	4.767	5.193	4.927	509.800	495.500	496.300	252.700	251.000	124.900	1439000.000
2	12:42:56	4.894	5.105	4.785	506.900	505.600	503.300	260.100	273.600	108.500	1433000.000
3	12:42:59	5.063	4.989	5.293	506.800	501.500	496.500	255.800	247.700	126.000	1401000.000
x		4.908	5.096	5.002	507.800	500.900	498.700	256.200	257.400	119.800	1424000.000
σ		0.148	0.102	0.262	1.726	5.106	3.966	3.692	14.080	9.813	20000.000
%RSD		3.026	2.008	5.236	0.340	1.019	0.795	1.441	5.471	8.191	1.404
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	12:42:52	501.500	463.400	98.665%	98.647%	5.387	5.039	5.020	6.232	507.400	5.032
2	12:42:56	495.800	482.100	100.499%	98.460%	5.309	5.173	5.090	5.254	514.500	5.019
3	12:42:59	491.500	442.900	101.580%	100.017%	4.920	5.031	4.987	5.711	506.000	4.998
x		496.300	462.800	100.248%	99.042%	5.205	5.081	5.032	5.732	509.300	5.016
σ		5.051	19.630	1.473%	0.850%	0.250	0.080	0.053	0.490	4.575	0.017
%RSD		1.018	4.242	1.470	0.858	4.804	1.567	1.047	8.544	0.898	0.337
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:52	5.204	4.827	5.273	4.840	100.258%	5.418	5.428	5.012	97.959%	4.897
2	12:42:56	5.132	5.186	5.090	5.161	103.717%	5.169	5.356	4.970	99.837%	4.943
3	12:42:59	5.142	5.052	5.125	4.834	104.311%	5.124	5.306	4.916	100.249%	5.029
x		5.159	5.021	5.162	4.945	102.762%	5.237	5.363	4.966	99.348%	4.956
σ		0.039	0.181	0.097	0.187	2.189%	0.158	0.061	0.048	1.220%	0.067
%RSD		0.749	3.615	1.879	3.776	2.130	3.025	1.142	0.963	1.228	1.351
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:52	4.900	4.981	2.579	5.314	99.522%	5.096	5.221	5.134	97.744%	4.976
2	12:42:56	5.087	5.133	2.605	5.225	101.973%	5.196	5.173	5.077	99.668%	5.029
3	12:42:59	5.051	5.057	2.612	5.175	102.122%	5.111	5.417	5.011	99.639%	5.091
x		5.013	5.057	2.598	5.238	101.206%	5.134	5.270	5.074	99.017%	5.032
σ		0.099	0.076	0.017	0.071	1.460%	0.054	0.129	0.061	1.103%	0.058
%RSD		1.982	1.499	0.658	1.347	1.443	1.047	2.455	1.208	1.114	1.143
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:42:52	0.538	5.057	4.995	97.624%	4.980					
2	12:42:56	0.657	5.015	5.044	100.216%	5.012					
3	12:42:59	0.695	5.041	5.055	100.310%	5.001					
x		0.630	5.038	5.031	99.383%	4.998					
σ		0.082	0.021	0.032	1.524%	0.017					
%RSD		13.040	0.416	0.636	1.534	0.335					

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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	12:50:05	0.194	-0.059	0.148	<u>TM 52820.000</u>	<u>M 47380.000</u>	<u>M 47420.000</u>	6.911	<u>M 53900.000</u>	3173.000	<u>T 1484000.000</u>
2	12:50:08	0.192	-0.050	-0.199	<u>TM 52160.000</u>	<u>M 47630.000</u>	<u>M 48170.000</u>	13.500	<u>M 55550.000</u>	3203.000	<u>T 1491000.000</u>
3	12:50:12	0.230	-0.055	-0.099	<u>TM 52170.000</u>	<u>M 47750.000</u>	<u>M 47920.000</u>	12.520	<u>M 54910.000</u>	3104.000	<u>T 1471000.000</u>
X		0.205	-0.055	-0.050	<u>TM 52380.000</u>	<u>M 47590.000</u>	<u>M 47840.000</u>	10.980	<u>M 54790.000</u>	3160.000	<u>T 1482000.000</u>
σ		0.021	0.005	0.179	<u>TM 376.600</u>	<u>M 189.700</u>	<u>M 381.300</u>	3.555	<u>M 832.400</u>	50.970	<u>T 10180.000</u>
%RSD		10.270	8.826	359.600	<u>TM 0.719</u>	<u>M 0.399</u>	<u>M 0.797</u>	32.390	<u>M 1.519</u>	1.613	<u>T 0.687</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	12:50:05	<u>TM 54220.000</u>	<u>M 50000.000</u>	93.031%	94.412%	<u>M 1005.000</u>	-0.189	0.077	5.157	<u>TM 54870.000</u>	-0.002
2	12:50:08	<u>TM 54290.000</u>	<u>M 51240.000</u>	93.495%	93.698%	<u>M 1027.000</u>	-0.073	0.122	4.949	<u>TM 54570.000</u>	0.078
3	12:50:12	<u>TM 53560.000</u>	<u>M 50410.000</u>	94.722%	94.201%	<u>M 1013.000</u>	0.076	0.111	4.519	<u>TM 53910.000</u>	0.044
X		<u>TM 54020.000</u>	<u>M 50550.000</u>	93.749%	94.103%	<u>M 1015.000</u>	-0.062	0.104	4.875	<u>TM 54450.000</u>	0.040
σ		<u>TM 400.000</u>	<u>M 631.700</u>	0.874%	0.367%	<u>M 11.050</u>	0.133	0.024	0.325	<u>TM 492.800</u>	0.041
%RSD		<u>TM 0.740</u>	<u>M 1.250</u>	0.932	0.390	<u>M 1.088</u>	213.100	22.830	6.672	<u>TM 0.905</u>	101.500
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:50:05	0.023	0.012	0.057	-0.470	92.830%	0.026	-0.054	0.404	91.131%	0.075
2	12:50:08	0.041	-0.015	0.056	-0.398	94.978%	0.007	-0.135	0.394	92.911%	0.059
3	12:50:12	0.020	-0.042	0.033	-0.266	94.959%	0.006	0.055	0.388	93.644%	0.042
X		0.028	-0.015	0.048	-0.378	94.256%	0.013	-0.045	0.395	92.562%	0.059
σ		0.011	0.027	0.014	0.104	1.235%	0.011	0.095	0.008	1.292%	0.017
%RSD		40.070	181.100	27.950	27.430	1.310	85.150	213.700	2.005	1.396	28.740
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:50:05	<u>M 1012.000</u>	-0.087	-0.040	0.070	94.395%	0.133	-0.011	0.073	94.899%	-0.036
2	12:50:08	<u>M 1016.000</u>	-0.032	-0.040	0.022	96.556%	0.105	-0.004	0.073	97.832%	-0.032
3	12:50:12	<u>M 1016.000</u>	-0.078	-0.053	0.033	97.913%	0.108	-0.025	0.062	98.884%	-0.023
X		<u>M 1015.000</u>	-0.065	-0.044	0.042	96.288%	0.115	-0.013	0.069	97.205%	-0.030
σ		<u>M 2.405</u>	0.030	0.008	0.025	1.774%	0.015	0.011	0.006	2.065%	0.007
%RSD		<u>M 0.237</u>	45.230	17.090	59.710	1.843	13.300	79.690	8.863	2.124	22.130
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:50:05	0.007	-0.077	-0.018	90.445%	-0.045					
2	12:50:08	0.011	-0.093	-0.014	93.350%	-0.049					
3	12:50:12	0.019	-0.097	-0.018	94.525%	-0.050					
X		0.012	-0.089	-0.017	92.773%	-0.048					
σ		0.007	0.010	0.002	2.100%	0.002					
%RSD		53.180	11.640	13.550	2.264	5.156					

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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	12:57:17	94.240	94.480	93.760	<u>TM 51680.000</u>	<u>M 46990.000</u>	<u>M 47170.000</u>	4771.000	<u>M 58210.000</u>	3114.000	<u>T 1540000.000</u>
2	12:57:21	92.440	95.490	92.470	<u>TM 50590.000</u>	<u>M 47090.000</u>	<u>M 47300.000</u>	4787.000	<u>M 58730.000</u>	3061.000	<u>T 1525000.000</u>
3	12:57:24	93.890	93.520	90.580	<u>TM 51450.000</u>	<u>M 47580.000</u>	<u>M 47680.000</u>	4822.000	<u>M 58800.000</u>	3202.000	<u>T 1535000.000</u>
X		93.530	94.500	92.270	<u>TM 51240.000</u>	<u>M 47220.000</u>	<u>M 47380.000</u>	4793.000	<u>M 58580.000</u>	3126.000	<u>T 1533000.000</u>
σ		0.954	0.985	1.595	<u>TM 571.700</u>	<u>M 317.200</u>	<u>M 268.100</u>	26.360	<u>M 324.600</u>	71.510	<u>T 7476.000</u>
%RSD		1.020	1.042	1.729	<u>TM 1.116</u>	<u>M 0.672</u>	<u>M 0.566</u>	0.550	<u>M 0.554</u>	2.288	<u>T 0.488</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	12:57:17	<u>TM 52530.000</u>	<u>M 50550.000</u>	96.857%	95.705%	<u>M 1094.000</u>	101.900	100.500	22.300	<u>TM 53060.000</u>	99.990
2	12:57:21	<u>TM 52170.000</u>	<u>M 50750.000</u>	98.919%	95.622%	<u>M 1109.000</u>	101.500	101.100	23.020	<u>TM 52310.000</u>	100.300
3	12:57:24	<u>TM 52560.000</u>	<u>M 50450.000</u>	98.773%	96.769%	<u>M 1100.000</u>	103.300	102.000	20.320	<u>TM 52640.000</u>	102.000
X		<u>TM 52420.000</u>	<u>M 50580.000</u>	98.183%	96.032%	<u>M 1101.000</u>	102.200	101.200	21.880	<u>TM 52670.000</u>	100.800
σ		<u>TM 218.000</u>	<u>M 150.100</u>	1.151%	0.640%	<u>M 7.756</u>	0.949	0.749	1.398	<u>TM 373.000</u>	1.047
%RSD		<u>TM 0.416</u>	<u>M 0.297</u>	1.172	0.666	<u>M 0.705</u>	0.929	0.740	6.389	<u>TM 0.708</u>	1.039
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:17	101.000	99.360	101.000	104.700	96.175%	104.900	106.200	102.200	94.838%	100.200
2	12:57:21	101.700	100.600	101.700	107.000	98.755%	105.300	106.200	102.700	97.050%	100.700
3	12:57:24	102.600	100.800	101.600	106.100	99.964%	105.700	105.800	103.100	98.330%	100.800
X		101.800	100.300	101.400	105.900	98.298%	105.300	106.100	102.700	96.739%	100.600
σ		0.798	0.798	0.392	1.133	1.936%	0.400	0.260	0.480	1.766%	0.336
%RSD		0.784	0.796	0.386	1.069	1.969	0.380	0.245	0.468	1.826	0.334
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:17	<u>M 1113.000</u>	98.400	49.470	105.100	99.144%	103.800	105.200	102.000	100.515%	103.600
2	12:57:21	<u>M 1117.000</u>	99.390	50.250	105.600	102.182%	104.600	105.600	100.700	103.869%	104.900
3	12:57:24	<u>M 1109.000</u>	99.050	49.880	104.100	103.857%	104.900	105.600	101.400	104.579%	105.000
X		<u>M 1113.000</u>	98.950	49.860	104.900	101.727%	104.400	105.500	101.400	102.988%	104.500
σ		<u>M 4.104</u>	0.502	0.390	0.758	2.390%	0.571	0.234	0.647	2.171%	0.775
%RSD		<u>M 0.369</u>	0.507	0.781	0.723	2.349	0.547	0.222	0.638	2.108	0.742
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	12:57:17	4.911	101.400	101.400	96.884%	103.200					
2	12:57:21	5.326	101.700	101.500	99.974%	103.900					
3	12:57:24	5.530	102.600	101.900	100.781%	103.700					
X		5.255	101.900	101.600	99.213%	103.600					
σ		0.315	0.640	0.263	2.057%	0.355					
%RSD		6.000	0.628	0.259	2.073	0.343					

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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	13:04:33	97.300	98.390	98.410	5030.000	4891.000	5005.000	4878.000	5356.000	105.200	1492000.000
2	13:04:37	96.980	99.830	100.200	5030.000	4848.000	5025.000	4897.000	5352.000	117.100	1476000.000
3	13:04:40	96.800	98.490	98.780	4986.000	4860.000	5022.000	4852.000	5257.000	113.000	1462000.000
x		97.030	98.900	99.120	5015.000	4867.000	5018.000	4876.000	5322.000	111.700	1476000.000
σ		0.251	0.808	0.930	25.010	21.950	10.970	22.460	55.980	6.027	14990.000
%RSD		0.258	0.817	0.938	0.499	0.451	0.219	0.461	1.052	5.394	1.015
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	13:04:33	5012.000	4973.000	103.634%	100.366%	99.380	100.700	102.700	21.200	5104.000	101.100
2	13:04:37	5071.000	4822.000	106.627%	99.961%	97.560	102.100	102.500	18.410	5083.000	101.600
3	13:04:40	5041.000	4935.000	107.227%	100.333%	97.030	101.700	102.900	18.740	5125.000	101.600
x		5041.000	4910.000	105.829%	100.220%	97.990	101.500	102.700	19.450	5104.000	101.400
σ		29.230	78.430	1.925%	0.225%	1.232	0.739	0.239	1.526	20.990	0.295
%RSD		0.580	1.597	1.819	0.225	1.257	0.728	0.233	7.844	0.411	0.291
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:04:33	103.800	104.600	106.100	107.300	104.698%	104.800	104.800	100.600	103.582%	100.500
2	13:04:37	102.600	104.200	105.500	104.900	109.682%	103.200	103.700	101.800	105.128%	100.900
3	13:04:40	103.600	104.300	105.800	104.800	108.298%	104.500	103.700	101.300	106.266%	100.700
x		103.300	104.400	105.800	105.700	107.559%	104.200	104.100	101.200	104.992%	100.700
σ		0.660	0.206	0.313	1.429	2.573%	0.843	0.602	0.594	1.347%	0.172
%RSD		0.639	0.197	0.295	1.352	2.392	0.809	0.578	0.586	1.283	0.171
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:04:33	101.000	102.800	52.160	105.700	106.269%	105.000	106.300	101.100	106.877%	101.700
2	13:04:37	101.200	104.000	52.610	106.200	110.505%	105.000	105.700	100.900	109.700%	101.900
3	13:04:40	102.000	104.000	52.720	106.100	110.141%	104.700	107.100	101.000	110.267%	102.500
x		101.400	103.600	52.500	106.000	108.972%	104.900	106.400	101.000	108.948%	102.100
σ		0.547	0.663	0.297	0.231	2.348%	0.160	0.678	0.103	1.816%	0.429
%RSD		0.540	0.640	0.566	0.218	2.155	0.153	0.637	0.102	1.667	0.420
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:04:33	5.006	99.830	101.200	106.696%	98.590					
2	13:04:37	5.061	100.600	101.500	110.534%	98.940					
3	13:04:40	5.084	100.100	101.700	110.947%	99.170					
x		5.050	100.200	101.400	109.392%	98.900					
σ		0.040	0.393	0.263	2.344%	0.290					
%RSD		0.787	0.392	0.259	2.143	0.294					

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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	13:11:46	-0.010	-0.049	0.315	5.567	5.957	4.563	3.790	-4.686	128.200	1413000.000
2	13:11:50	0.005	-0.005	-0.109	7.287	5.662	5.068	-0.490	9.713	115.100	1381000.000
3	13:11:54	0.020	-0.022	-0.291	4.393	4.298	3.271	1.136	-14.760	108.500	1371000.000
x		0.005	-0.025	-0.028	5.749	5.306	4.301	1.479	-3.244	117.300	1388000.000
σ		0.015	0.022	0.311	1.456	0.885	0.927	2.160	12.300	10.040	22000.000
%RSD		304.600	85.940	1107.000	25.320	16.680	21.550	146.100	379.100	8.565	1.584
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	13:11:46	-2.394	-4.526	99.393%	100.630%	0.153	-0.021	0.001	5.130	4.651	0.014
2	13:11:50	-5.692	22.860	101.630%	100.786%	-0.022	-0.081	-0.005	5.396	6.068	-0.004
3	13:11:54	-7.036	2.288	101.435%	100.583%	0.046	-0.137	-0.009	5.396	3.286	-0.021
x		-5.040	6.873	100.819%	100.666%	0.059	-0.079	-0.005	5.307	4.668	-0.003
σ		2.389	14.260	1.239%	0.106%	0.088	0.058	0.005	0.154	1.391	0.018
%RSD		47.390	207.400	1.229	0.106	150.400	72.970	110.200	2.899	29.790	524.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:11:46	0.014	-0.054	-0.029	-0.366	99.371%	-0.048	-0.017	-0.001	99.637%	0.012
2	13:11:50	0.023	-0.009	-0.060	-0.407	102.626%	-0.062	0.083	-0.006	100.122%	0.021
3	13:11:54	0.009	-0.080	-0.055	-0.396	102.635%	-0.011	0.049	-0.003	101.000%	0.016
x		0.015	-0.048	-0.048	-0.389	101.544%	-0.040	0.038	-0.004	100.253%	0.016
σ		0.007	0.036	0.017	0.021	1.882%	0.027	0.051	0.003	0.691%	0.005
%RSD		46.640	74.470	34.340	5.521	1.853	66.000	132.700	69.050	0.689	30.100
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:11:46	0.130	-0.013	-0.009	-0.016	98.259%	0.008	-0.039	0.008	99.787%	0.011
2	13:11:50	0.187	0.001	-0.021	-0.030	100.475%	0.037	-0.018	0.074	101.025%	0.027
3	13:11:54	0.135	-0.046	-0.008	-0.052	101.302%	-0.013	0.007	0.023	102.540%	-0.009
x		0.150	-0.019	-0.013	-0.033	100.012%	0.011	-0.017	0.035	101.117%	0.009
σ		0.031	0.024	0.007	0.018	1.574%	0.025	0.023	0.034	1.379%	0.018
%RSD		20.920	124.300	56.110	56.200	1.574	238.000	136.100	98.670	1.364	193.200
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:11:46	0.026	0.018	0.004	100.329%	0.004					
2	13:11:50	0.009	0.029	0.006	102.140%	0.014					
3	13:11:54	0.017	-0.000	-0.008	102.653%	0.001					
x		0.018	0.016	0.001	101.707%	0.007					
σ		0.009	0.015	0.007	1.221%	0.007					
%RSD		49.940	95.900	1160.000	1.200	102.900					

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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	13:18:59	-0.042	-0.044	-0.252	20.850	0.923	9.309	6.489	17.070	128.300	1271000.000
2	13:19:03	-0.056	-0.044	-0.286	24.000	2.993	10.580	9.542	34.930	128.900	1265000.000
3	13:19:07	-0.069	-0.049	-0.576	22.750	2.362	9.726	8.707	4.813	132.300	1272000.000
x		-0.056	-0.045	-0.371	22.530	2.093	9.873	8.246	18.930	129.900	1270000.000
σ		0.013	0.003	0.178	1.584	1.061	0.649	1.578	15.140	2.140	4106.000
%RSD		24.160	6.109	47.960	7.030	50.680	6.577	19.130	79.970	1.648	0.323
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	13:18:59	-14.780	16.800	99.312%	99.155%	0.355	-0.052	0.180	4.636	2.589	-0.027
2	13:19:03	-10.260	9.345	102.125%	100.285%	0.273	-0.068	0.180	4.730	2.323	0.003
3	13:19:07	-7.517	9.520	102.306%	100.505%	0.240	-0.072	0.207	4.627	1.727	-0.030
x		-10.850	11.890	101.248%	99.982%	0.289	-0.064	0.189	4.664	2.213	-0.018
σ		3.670	4.255	1.679%	0.724%	0.059	0.010	0.016	0.057	0.441	0.018
%RSD		33.820	35.790	1.658	0.724	20.390	16.140	8.342	1.214	19.950	101.300
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:18:59	-0.042	0.074	0.089	1.792	102.747%	-0.064	-0.048	-0.039	97.899%	-0.035
2	13:19:03	-0.043	0.077	0.078	2.135	104.279%	-0.060	-0.112	-0.045	100.732%	-0.038
3	13:19:07	-0.042	0.068	0.066	2.128	105.862%	-0.099	-0.098	-0.073	101.771%	-0.061
x		-0.043	0.073	0.078	2.019	104.296%	-0.075	-0.086	-0.052	100.134%	-0.045
σ		0.001	0.004	0.012	0.196	1.558%	0.021	0.033	0.018	2.004%	0.015
%RSD		1.636	5.984	15.140	9.709	1.493	28.790	38.760	34.990	2.001	32.460
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:18:59	0.054	-0.063	-0.052	-0.107	99.682%	35.500	-0.090	-0.025	98.198%	-0.057
2	13:19:03	0.044	-0.036	-0.040	-0.086	102.469%	35.990	-0.109	-0.027	101.209%	-0.043
3	13:19:07	0.065	-0.073	-0.032	-0.089	104.065%	35.940	-0.110	-0.040	102.004%	-0.051
x		0.055	-0.057	-0.042	-0.094	102.072%	35.810	-0.103	-0.030	100.470%	-0.050
σ		0.011	0.019	0.010	0.011	2.218%	0.273	0.011	0.008	2.007%	0.007
%RSD		19.450	33.880	25.070	12.090	2.173	0.762	10.970	27.180	1.998	14.100
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:18:59	0.018	-0.090	-0.050	98.344%	-0.054					
2	13:19:03	0.013	-0.079	-0.053	101.413%	-0.053					
3	13:19:07	0.013	-0.087	-0.056	102.852%	-0.052					
x		0.015	-0.085	-0.053	100.869%	-0.053					
σ		0.003	0.006	0.003	2.303%	0.001					
%RSD		20.640	7.042	5.255	2.283	1.829					

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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	13:26:13	-0.061	-0.071	2.474	3349.000	2039.000	10.720	28.920	17350.000	928.500	1120000.000
2	13:26:17	-0.056	-0.071	1.988	3369.000	2013.000	10.640	34.220	17370.000	984.700	1124000.000
3	13:26:21	-0.054	-0.068	2.225	3327.000	1983.000	9.918	25.610	17140.000	961.700	1099000.000
x		-0.057	-0.070	2.229	3348.000	2012.000	10.420	29.580	17280.000	958.300	1114000.000
σ		0.004	0.002	0.243	21.280	27.780	0.441	4.344	126.800	28.290	13470.000
%RSD		6.160	3.032	10.900	0.635	1.381	4.233	14.690	0.734	2.952	1.208
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	13:26:13	TM 25840.000	235.300	109.664%	104.530%	0.327	0.026	0.250	5.772	42.280	0.953
2	13:26:17	TM 25960.000	289.300	112.011%	104.520%	0.027	0.008	0.175	5.814	42.070	0.913
3	13:26:21	TM 25510.000	272.400	114.967%	106.370%	0.479	-0.083	0.236	6.561	41.120	0.956
x		TM 25770.000	265.700	112.214%	105.140%	0.278	-0.016	0.221	6.049	41.820	0.941
σ		TM 231.100	27.610	2.658%	1.065%	0.230	0.059	0.040	0.444	0.620	0.024
%RSD		TM 0.897	10.390	2.368	1.013	82.820	364.300	18.090	7.334	1.482	2.561
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:26:13	-0.038	0.124	3.413	44.860	110.862%	-0.134	0.577	0.162	106.779%	-0.009
2	13:26:17	-0.033	0.077	3.674	45.650	114.328%	-0.112	0.745	0.156	110.099%	-0.012
3	13:26:21	-0.036	0.118	3.655	45.250	115.253%	-0.135	0.680	0.173	111.885%	-0.012
x		-0.036	0.107	3.581	45.250	113.481%	-0.127	0.667	0.164	109.588%	-0.011
σ		0.003	0.026	0.145	0.394	2.315%	0.013	0.085	0.008	2.591%	0.002
%RSD		6.966	24.350	4.055	0.870	2.040	10.240	12.720	5.100	2.364	15.820
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:26:13	0.217	-0.061	-0.038	-0.084	107.422%	33.700	0.173	0.035	105.222%	-0.026
2	13:26:17	0.182	-0.109	-0.037	-0.091	111.140%	33.830	0.135	0.049	108.565%	-0.036
3	13:26:21	0.172	-0.093	-0.041	-0.102	112.054%	33.840	0.119	0.040	108.833%	-0.045
x		0.190	-0.088	-0.039	-0.092	110.205%	33.790	0.142	0.041	107.540%	-0.036
σ		0.024	0.024	0.002	0.009	2.453%	0.082	0.028	0.007	2.012%	0.010
%RSD		12.550	27.700	5.852	9.702	2.226	0.243	19.430	17.220	1.871	27.690
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:26:13	0.029	-0.097	0.021	104.868%	-0.056					
2	13:26:17	0.028	-0.096	0.023	108.315%	-0.058					
3	13:26:21	0.023	-0.106	0.020	109.441%	-0.059					
x		0.027	-0.100	0.022	107.541%	-0.058					
σ		0.003	0.005	0.002	2.383%	0.001					
%RSD		11.010	5.312	7.536	2.216	2.275					

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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	13:33:28	43.720	45.270	87.740	<u>15380.000</u>	13000.000	2524.000	282.800	<u>M30500.000</u>	1295.000	<u>1085000.000</u>
2	13:33:32	45.790	48.000	98.030	14820.000	12870.000	2538.000	271.200	<u>M30310.000</u>	1283.000	<u>1066000.000</u>
3	13:33:35	45.710	48.210	97.190	14900.000	13070.000	2580.000	299.600	<u>M31100.000</u>	1327.000	<u>1077000.000</u>
X		45.070	47.160	94.320	<u>15030.000</u>	12980.000	2547.000	284.600	<u>M30640.000</u>	1302.000	<u>1076000.000</u>
σ		1.169	1.641	5.711	<u>304.600</u>	103.400	29.160	14.270	<u>M412.200</u>	22.860	<u>19911.000</u>
%RSD		2.595	3.479	6.055	<u>2.026</u>	0.796	1.145	5.017	<u>M1.345</u>	1.756	<u>0.921</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	13:33:28	<u>TM101000.000</u>	3128.000	115.795%	111.222%	51.020	51.340	51.210	13.120	2636.000	51.860
2	13:33:32	<u>TM98750.000</u>	3114.000	117.836%	115.100%	49.260	51.380	50.680	13.070	2570.000	50.070
3	13:33:35	<u>TM99920.000</u>	2980.000	117.780%	116.738%	51.350	51.740	50.650	13.340	2615.000	50.540
X		<u>TM99900.000</u>	3074.000	117.137%	114.353%	50.540	51.490	50.850	13.180	2607.000	50.820
σ		<u>TM1133.000</u>	81.620	1.163%	2.833%	1.123	0.219	0.312	0.145	33.280	0.927
%RSD		<u>TM1.135</u>	2.655	0.992	2.477	2.222	0.425	0.613	1.099	1.277	1.823
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:33:28	51.490	51.650	55.500	287.900	114.878%	53.750	56.640	51.140	111.704%	29.890
2	13:33:32	50.490	52.090	54.700	286.000	118.354%	53.880	56.520	50.650	114.928%	29.830
3	13:33:35	50.810	51.280	54.920	287.000	119.389%	53.920	56.880	51.170	116.342%	30.090
X		50.930	51.670	55.040	287.000	117.541%	53.850	56.680	50.980	114.324%	29.940
σ		0.508	0.405	0.413	0.966	2.363%	0.085	0.182	0.294	2.377%	0.137
%RSD		0.998	0.783	0.751	0.337	2.010	0.159	0.321	0.577	2.079	0.457
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:33:28	48.380	-0.061	26.230	54.680	112.217%	81.380	57.360	51.750	110.888%	-0.057
2	13:33:32	48.610	-0.082	26.240	54.370	114.634%	81.060	56.830	51.440	112.359%	-0.050
3	13:33:35	48.450	-0.085	26.230	54.820	115.300%	82.120	57.570	52.030	113.846%	-0.051
X		48.480	-0.076	26.230	54.620	114.050%	81.520	57.250	51.740	112.364%	-0.053
σ		0.120	0.013	0.006	0.229	1.623%	0.548	0.381	0.297	1.479%	0.004
%RSD		0.247	16.970	0.022	0.420	1.423	0.673	0.665	0.574	1.316	6.921
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:33:28	1.217	49.770	50.600	105.343%	51.360					
2	13:33:32	1.256	49.700	50.720	108.062%	51.960					
3	13:33:35	1.302	50.130	50.540	109.043%	51.710					
X		1.258	49.860	50.620	107.482%	51.680					
σ		0.043	0.233	0.093	1.917%	0.303					
%RSD		3.380	0.467	0.183	1.784	0.586					

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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	13:40:41	1.228	0.004	15.850	<u>TM 99320.000</u>	5236.000	33.080	113.600	<u>M 58530.000</u>	4353.000	<u>T 1216000.000</u>
2	13:40:45	1.283	-0.013	14.530	<u>TM 97090.000</u>	5142.000	32.350	106.200	<u>M 58350.000</u>	4394.000	<u>T 1199000.000</u>
3	13:40:48	1.312	-0.024	14.260	<u>TM 97520.000</u>	5154.000	32.100	109.000	<u>M 58130.000</u>	4353.000	<u>T 1194000.000</u>
x		1.274	-0.011	14.880	<u>TM 97970.000</u>	5177.000	32.510	109.600	<u>M 58340.000</u>	4367.000	<u>T 1203000.000</u>
σ		0.043	0.014	0.848	<u>TM 1182.000</u>	51.110	0.510	3.740	<u>M 200.000</u>	23.480	<u>T 11170.000</u>
%RSD		3.351	133.200	5.700	<u>TM 1.206</u>	0.987	1.568	3.413	<u>M 0.343</u>	0.538	<u>T 0.928</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	13:40:41	<u>TM 72730.000</u>	12150.000	101.781%	104.163%	3.509	43.850	14.420	7.842	843.500	70.490
2	13:40:45	<u>TM 71700.000</u>	11920.000	105.917%	104.562%	2.757	43.360	14.170	6.000	829.000	70.150
3	13:40:48	<u>TM 71970.000</u>	11860.000	105.006%	102.519%	2.688	43.740	14.560	6.126	832.000	70.230
x		<u>TM 72130.000</u>	11980.000	104.234%	103.748%	2.985	43.650	14.380	6.656	834.800	70.290
σ		<u>TM 535.400</u>	149.400	2.173%	1.083%	0.455	0.260	0.199	1.029	7.684	0.176
%RSD		<u>TM 0.742</u>	1.247	2.085	1.044	15.250	0.595	1.383	15.460	0.920	0.250
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:40:41	5.229	27.820	<u>TM 2500.000</u>	<u>M 679.500</u>	103.473%	331.400	55.550	155.800	106.337%	0.089
2	13:40:45	5.204	27.910	<u>TM 2424.000</u>	<u>M 678.800</u>	106.199%	333.000	55.830	155.600	109.518%	0.060
3	13:40:48	5.193	27.780	<u>TM 2453.000</u>	<u>M 684.100</u>	105.863%	333.000	55.390	156.400	109.248%	0.054
x		5.209	27.840	<u>TM 2459.000</u>	<u>M 680.800</u>	105.178%	332.500	55.590	155.900	108.367%	0.067
σ		0.019	0.067	<u>TM 38.210</u>	<u>M 2.916</u>	1.487%	0.939	0.222	0.421	1.764%	0.018
%RSD		0.356	0.242	<u>TM 1.554</u>	<u>M 0.428</u>	1.413	0.282	0.400	0.270	1.628	27.400
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:40:41	16.300	-0.078	44.010	207.700	101.077%	17.780	0.390	1.235	103.313%	-0.033
2	13:40:45	16.190	-0.074	43.720	208.000	104.617%	18.000	0.403	1.167	105.233%	-0.032
3	13:40:48	16.550	-0.075	44.050	208.700	104.199%	18.070	0.353	1.227	106.149%	-0.037
x		16.350	-0.076	43.930	208.100	103.298%	17.950	0.382	1.210	104.898%	-0.034
σ		0.180	0.002	0.180	0.509	1.934%	0.149	0.026	0.037	1.447%	0.003
%RSD		1.102	2.582	0.409	0.244	1.873	0.832	6.837	3.057	1.379	7.765
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:40:41	1.203	-0.009	0.950	96.946%	0.506					
2	13:40:45	1.158	-0.006	0.961	99.278%	0.501					
3	13:40:48	1.186	-0.029	0.950	99.743%	0.505					
x		1.182	-0.015	0.954	98.656%	0.504					
σ		0.023	0.012	0.006	1.499%	0.003					
%RSD		1.910	84.650	0.666	1.519	0.527					

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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	13:47:54	2.474	-0.004	25.030	<u>TM 189500.000</u>	10030.000	69.090	203.900	<u>M 119500.000</u>	8743.000	<u>T 948600.000</u>
2	13:47:57	2.478	-0.024	26.360	<u>TM 189000.000</u>	10030.000	70.740	211.100	<u>M 121700.000</u>	8865.000	<u>T 947100.000</u>
3	13:48:01	2.418	0.031	26.950	<u>TM 187700.000</u>	10110.000	70.970	206.700	<u>M 120900.000</u>	8870.000	<u>T 939800.000</u>
X		2.457	0.001	26.110	<u>TM 188700.000</u>	10060.000	70.270	207.200	<u>M 120700.000</u>	8826.000	<u>T 945200.000</u>
σ		0.033	0.028	0.981	<u>TM 942.400</u>	44.350	1.024	3.597	<u>M 1116.000</u>	71.900	<u>T 4713.000</u>
%RSD		1.358	2566.000	3.757	<u>TM 0.499</u>	0.441	1.457	1.736	<u>M 0.924</u>	0.815	<u>T 0.499</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	13:47:54	<u>TM 142700.000</u>	24160.000	109.150%	108.689%	6.769	86.300	28.080	7.881	1631.000	138.000
2	13:47:57	<u>TM 142600.000</u>	24030.000	108.935%	109.111%	6.352	86.880	28.780	6.598	1680.000	142.200
3	13:48:01	<u>TM 142400.000</u>	24380.000	110.771%	109.702%	6.629	87.210	28.410	5.784	1643.000	138.800
X		<u>TM 142500.000</u>	24190.000	109.619%	109.167%	6.583	86.800	28.420	6.754	1651.000	139.700
σ		<u>TM 169.700</u>	176.300	1.004%	0.509%	0.212	0.462	0.353	1.057	25.300	2.239
%RSD		<u>TM 0.119</u>	0.729	0.916	0.466	3.223	0.532	1.241	15.650	1.532	1.603
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:47:54	10.200	54.300	<u>TM 4682.000</u>	<u>M 1357.000</u>	109.865%	<u>M 688.800</u>	120.900	293.400	118.344%	0.075
2	13:47:57	10.350	55.990	<u>TM 4741.000</u>	<u>M 1391.000</u>	108.597%	<u>M 707.900</u>	119.900	296.500	119.053%	0.100
3	13:48:01	9.999	53.970	<u>TM 4618.000</u>	<u>M 1363.000</u>	113.048%	<u>M 694.800</u>	119.100	295.900	120.110%	0.082
X		10.180	54.750	<u>TM 4680.000</u>	<u>M 1370.000</u>	110.503%	<u>M 697.200</u>	120.000	295.300	119.169%	0.086
σ		0.177	1.080	<u>TM 61.490</u>	<u>M 18.110</u>	2.293%	<u>M 9.790</u>	0.944	1.631	0.889%	0.013
%RSD		1.736	1.973	<u>TM 1.314</u>	<u>M 1.321</u>	2.075	<u>M 1.404</u>	0.787	0.552	0.746	15.510
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:47:54	31.320	-0.032	83.860	411.000	106.059%	35.550	0.659	2.275	108.088%	-0.040
2	13:47:57	31.880	-0.067	84.790	413.400	108.372%	35.920	0.741	2.294	110.530%	-0.044
3	13:48:01	32.140	-0.082	84.680	414.500	109.393%	36.280	0.764	2.265	112.413%	-0.041
X		31.780	-0.060	84.440	413.000	107.941%	35.920	0.721	2.278	110.344%	-0.042
σ		0.414	0.026	0.511	1.779	1.708%	0.365	0.055	0.015	2.168%	0.002
%RSD		1.304	42.840	0.605	0.431	1.582	1.015	7.600	0.644	1.965	5.570
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:47:54	2.443	0.002	1.944	99.463%	1.038					
2	13:47:57	2.421	0.007	1.931	102.363%	1.034					
3	13:48:01	2.367	-0.003	1.911	103.567%	1.014					
X		2.410	0.002	1.929	101.798%	1.029					
σ		0.039	0.005	0.016	2.109%	0.013					
%RSD		1.634	235.200	0.855	2.072	1.267					

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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	13:55:06	-0.062	-0.076	0.326	5425.000	2593.000	14.860	43.880	19060.000	1473.000	1140000.000
2	13:55:10	-0.064	-0.084	0.133	5439.000	2596.000	14.870	38.260	18840.000	1423.000	1106000.000
3	13:55:13	-0.071	-0.080	-0.121	5365.000	2565.000	13.440	41.050	18630.000	1425.000	1107000.000
x		-0.066	-0.080	0.113	5409.000	2585.000	14.390	41.060	18850.000	1440.000	1118000.000
σ		0.005	0.004	0.224	39.240	17.450	0.820	2.813	215.200	28.230	19260.000
%RSD		6.975	5.246	199.300	0.725	0.675	5.699	6.850	1.142	1.960	1.723
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	13:55:06	TM 33820.000	1827.000	107.168%	105.714%	0.309	0.202	0.358	6.071	18.440	2.554
2	13:55:10	TM 32990.000	1813.000	110.687%	106.615%	0.395	0.127	0.332	6.184	18.920	2.480
3	13:55:13	TM 32820.000	1683.000	113.043%	106.637%	0.135	0.132	0.306	6.226	17.590	2.405
x		TM 33210.000	1775.000	110.299%	106.322%	0.280	0.154	0.332	6.160	18.310	2.479
σ		TM 534.100	79.330	2.956%	0.527%	0.132	0.042	0.026	0.080	0.672	0.075
%RSD		TM 1.608	4.470	2.680	0.496	47.280	27.190	7.724	1.303	3.670	3.010
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:06	0.034	0.145	6.178	65.970	110.223%	0.983	4.302	1.386	106.912%	-0.047
2	13:55:10	0.030	0.160	5.633	65.280	113.255%	1.036	4.598	1.315	110.132%	-0.053
3	13:55:13	0.012	0.128	4.444	64.940	115.660%	0.778	3.755	1.232	111.039%	-0.048
x		0.025	0.144	5.418	65.400	113.046%	0.932	4.218	1.311	109.361%	-0.049
σ		0.012	0.016	0.887	0.526	2.725%	0.136	0.427	0.077	2.169%	0.004
%RSD		46.810	11.190	16.370	0.805	2.410	14.620	10.130	5.881	1.983	7.117
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:06	0.124	-0.093	0.043	0.287	107.091%	36.690	0.060	0.089	106.685%	-0.030
2	13:55:10	0.115	-0.085	0.042	0.254	110.885%	37.170	0.015	0.086	109.892%	-0.038
3	13:55:13	0.120	-0.065	0.032	0.183	112.388%	37.150	0.051	0.049	110.531%	-0.040
x		0.120	-0.081	0.039	0.241	110.121%	37.000	0.042	0.075	109.036%	-0.036
σ		0.005	0.014	0.006	0.053	2.730%	0.272	0.024	0.022	2.061%	0.005
%RSD		3.917	17.460	15.790	22.000	2.479	0.734	56.260	30.020	1.890	15.260
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	13:55:06	0.591	-0.092	-0.055	106.900%	-0.061					
2	13:55:10	0.546	-0.094	-0.056	110.079%	-0.062					
3	13:55:13	0.425	-0.098	-0.064	111.057%	-0.063					
x		0.521	-0.095	-0.059	109.345%	-0.062					
σ		0.086	0.003	0.005	2.174%	0.001					
%RSD		16.440	3.531	8.630	1.988	1.174					

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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	14:02:19	48.850	49.820	97.590	<u>T 15710.000</u>	12770.000	2546.000	299.000	<u>M 25590.000</u>	1409.000	<u>T 1130000.000</u>
2	14:02:23	47.350	49.630	96.760	15460.000	12860.000	2548.000	291.400	<u>M 26010.000</u>	1404.000	<u>T 1119000.000</u>
3	14:02:27	47.140	49.200	95.970	<u>T 15660.000</u>	12880.000	2584.000	285.200	<u>M 26190.000</u>	1423.000	<u>T 1116000.000</u>
X		47.780	49.550	96.780	<u>T 15610.000</u>	12840.000	2559.000	291.900	<u>M 25930.000</u>	1412.000	<u>T 1122000.000</u>
σ		0.930	0.316	0.809	<u>T 132.500</u>	58.530	21.350	6.944	<u>M 306.100</u>	9.778	<u>T 7448.000</u>
%RSD		1.946	0.638	0.836	<u>T 0.849</u>	0.456	0.834	2.379	<u>M 1.181</u>	0.693	<u>T 0.664</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	14:02:19	<u>TM 95990.000</u>	5980.000	113.277%	116.074%	50.830	51.960	50.980	14.330	2607.000	54.700
2	14:02:23	<u>TM 95930.000</u>	5842.000	114.897%	114.692%	51.290	51.830	51.070	12.820	2610.000	54.840
3	14:02:27	<u>TM 95890.000</u>	5875.000	114.416%	113.398%	52.820	51.760	51.410	13.110	2623.000	55.370
X		<u>TM 95930.000</u>	5899.000	114.197%	114.721%	51.640	51.850	51.150	13.420	2613.000	54.970
σ		<u>TM 52.790</u>	72.020	0.832%	1.338%	1.044	0.100	0.223	0.797	8.861	0.356
%RSD		<u>TM 0.055</u>	1.221	0.729	1.166	2.022	0.194	0.436	5.939	0.339	0.648
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:19	51.050	51.790	54.340	289.500	113.752%	53.630	58.490	52.600	111.431%	28.750
2	14:02:23	51.400	51.370	54.380	294.300	115.296%	53.940	58.340	53.120	114.595%	28.830
3	14:02:27	52.020	51.890	54.430	296.900	115.062%	54.680	61.010	53.340	113.245%	29.020
X		51.490	51.680	54.380	293.600	114.703%	54.090	59.280	53.020	113.090%	28.860
σ		0.492	0.277	0.043	3.768	0.832%	0.540	1.500	0.382	1.588%	0.137
%RSD		0.956	0.536	0.080	1.284	0.726	0.998	2.530	0.721	1.404	0.475
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:19	48.430	-0.089	26.190	54.410	110.839%	86.130	56.710	51.280	110.488%	-0.036
2	14:02:23	47.860	-0.093	26.130	54.950	113.534%	86.470	56.990	51.960	112.899%	-0.036
3	14:02:27	48.320	-0.088	26.300	54.800	113.978%	86.060	57.000	52.070	113.380%	-0.032
X		48.200	-0.090	26.210	54.720	112.783%	86.220	56.900	51.770	112.256%	-0.035
σ		0.301	0.002	0.086	0.279	1.698%	0.221	0.165	0.428	1.550%	0.003
%RSD		0.624	2.420	0.329	0.509	1.506	0.256	0.289	0.827	1.381	7.528
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:02:19	1.767	50.240	50.750	105.177%	52.010					
2	14:02:23	1.861	49.860	50.930	108.161%	51.980					
3	14:02:27	1.851	50.660	51.110	108.762%	52.080					
X		1.826	50.250	50.930	107.367%	52.030					
σ		0.052	0.398	0.181	1.920%	0.053					
%RSD		2.846	0.792	0.355	1.788	0.103					

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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	14:09:32	47.280	49.570	97.290	15610.000	12880.000	2582.000	289.900	<u>M 25670.000</u>	1417.000	<u>T 1257000.000</u>
2	14:09:36	47.090	49.240	94.240	<u>T 15640.000</u>	12770.000	2565.000	287.700	<u>M 25480.000</u>	1371.000	<u>T 1222000.000</u>
3	14:09:40	46.640	48.520	96.500	15430.000	12820.000	2580.000	290.100	<u>M 25720.000</u>	1384.000	<u>T 1227000.000</u>
X		47.000	49.110	96.010	<u>T 15560.000</u>	12820.000	2576.000	289.200	<u>M 25620.000</u>	1391.000	<u>T 1235000.000</u>
σ		0.328	0.535	1.581	<u>T 114.600</u>	53.170	9.424	1.321	<u>M 128.500</u>	23.780	<u>T 18850.000</u>
%RSD		0.698	1.089	1.647	<u>T 0.736</u>	0.415	0.366	0.457	<u>M 0.501</u>	1.710	<u>T 1.526</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	14:09:32	<u>TM 95890.000</u>	7448.000	107.047%	109.549%	50.950	51.770	51.120	13.790	2629.000	57.930
2	14:09:36	<u>TM 93520.000</u>	7169.000	110.307%	110.076%	50.490	51.110	50.860	15.130	2626.000	58.050
3	14:09:40	<u>TM 93950.000</u>	7314.000	109.783%	110.826%	52.010	51.860	51.140	14.670	2628.000	58.430
X		<u>TM 94450.000</u>	7310.000	109.046%	110.150%	51.150	51.580	51.040	14.530	2628.000	58.140
σ		<u>TM 1261.000</u>	139.400	1.751%	0.642%	0.777	0.408	0.158	0.682	1.600	0.258
%RSD		<u>TM 1.335</u>	1.907	1.606	0.583	1.519	0.791	0.310	4.696	0.061	0.444
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:09:32	51.490	51.380	53.670	287.500	107.668%	53.900	57.470	54.520	106.712%	28.730
2	14:09:36	51.400	50.880	53.150	289.400	110.466%	53.670	60.410	54.620	108.611%	28.610
3	14:09:40	51.430	50.950	53.280	288.500	111.844%	53.890	57.140	54.820	109.007%	28.850
X		51.440	51.070	53.360	288.500	109.993%	53.820	58.340	54.650	108.110%	28.730
σ		0.047	0.273	0.268	0.923	2.128%	0.130	1.803	0.154	1.227%	0.120
%RSD		0.092	0.535	0.503	0.320	1.935	0.242	3.091	0.282	1.135	0.419
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:09:32	48.540	-0.100	26.340	55.040	106.797%	85.000	56.950	51.960	107.525%	-0.056
2	14:09:36	48.830	-0.072	26.300	54.290	109.637%	85.790	56.450	52.780	109.423%	-0.055
3	14:09:40	49.100	-0.052	26.470	54.630	110.033%	86.350	57.280	52.260	110.593%	-0.060
X		48.820	-0.075	26.370	54.650	108.822%	85.710	56.890	52.330	109.181%	-0.057
σ		0.278	0.024	0.091	0.378	1.765%	0.677	0.419	0.414	1.548%	0.003
%RSD		0.569	32.490	0.346	0.692	1.622	0.790	0.737	0.791	1.418	4.485
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:09:32	1.720	50.260	50.820	103.223%	52.020					
2	14:09:36	1.862	50.610	51.220	106.038%	52.480					
3	14:09:40	1.719	50.240	50.970	106.812%	51.950					
X		1.767	50.370	51.000	105.358%	52.150					
σ		0.082	0.211	0.198	1.889%	0.286					
%RSD		4.646	0.419	0.389	1.793	0.549					

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10/18/2019 2:16:42 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	14:16:45	43.930	44.970	87.000	<u>14950.000</u>	12020.000	2457.000	284.000	24190.000	1371.000	<u>1095000.000</u>
2	14:16:49	43.220	45.430	91.130	14720.000	12180.000	2473.000	297.300	24320.000	1383.000	<u>1080000.000</u>
3	14:16:53	43.790	44.930	90.650	<u>14700.000</u>	12020.000	2460.000	282.900	24090.000	1390.000	<u>1070000.000</u>
x		43.650	45.110	89.590	<u>14790.000</u>	12070.000	2463.000	288.000	24200.000	1381.000	<u>1082000.000</u>
σ		0.375	0.278	2.258	<u>142.500</u>	95.110	8.730	8.026	115.000	9.147	<u>12430.000</u>
%RSD		0.860	0.616	2.520	<u>10.964</u>	0.788	0.354	2.786	0.475	0.662	<u>1.150</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	14:16:45	<u>TM 91610.000</u>	4237.000	112.701%	112.843%	48.410	48.250	47.690	15.170	2448.000	49.630
2	14:16:49	<u>TM 91130.000</u>	4096.000	113.348%	113.654%	47.790	49.480	48.460	12.160	2504.000	50.690
3	14:16:53	<u>TM 89730.000</u>	4269.000	115.137%	113.415%	49.330	48.860	47.950	13.150	2463.000	50.160
x		<u>TM 90820.000</u>	4201.000	113.729%	113.304%	48.510	48.870	48.030	13.490	2472.000	50.160
σ		<u>TM 976.800</u>	91.720	1.262%	0.417%	0.774	0.614	0.394	1.537	28.920	0.532
%RSD		<u>TM 1.076</u>	2.184	1.109	0.368	1.596	1.256	0.820	11.390	1.170	1.061
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:16:45	48.190	48.700	50.610	275.500	112.790%	51.770	56.850	49.030	110.842%	49.150
2	14:16:49	49.110	49.030	51.270	280.600	114.752%	51.630	58.690	49.240	113.175%	49.190
3	14:16:53	48.260	48.700	51.250	277.200	115.271%	51.570	58.420	48.780	113.214%	49.250
x		48.520	48.810	51.040	277.800	114.271%	51.650	57.990	49.020	112.410%	49.190
σ		0.510	0.189	0.378	2.627	1.309%	0.101	0.995	0.230	1.358%	0.049
%RSD		1.052	0.387	0.740	0.946	1.145	0.196	1.715	0.469	1.208	0.099
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:16:45	45.730	-0.083	22.800	51.560	110.667%	86.980	54.350	48.630	109.925%	-0.033
2	14:16:49	45.740	-0.078	22.910	50.850	113.478%	87.430	54.900	48.880	112.836%	-0.048
3	14:16:53	46.120	-0.071	22.910	51.480	113.944%	88.020	54.770	49.000	114.237%	-0.039
x		45.870	-0.077	22.870	51.300	112.697%	87.480	54.670	48.840	112.333%	-0.040
σ		0.224	0.006	0.063	0.386	1.773%	0.522	0.289	0.188	2.200%	0.008
%RSD		0.488	7.914	0.275	0.752	1.573	0.597	0.528	0.386	1.958	19.660
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:16:45	1.899	47.480	48.040	105.645%	49.440					
2	14:16:49	1.796	47.770	48.120	108.893%	49.580					
3	14:16:53	1.732	47.780	48.430	109.583%	49.410					
x		1.809	47.680	48.190	108.040%	49.480					
σ		0.084	0.169	0.205	2.103%	0.089					
%RSD		4.646	0.353	0.426	1.947	0.181					

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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	14:24:00	-0.062	-0.064	1.067	4303.000	2675.000	2.415	31.990	21760.000	1496.000	1295000.000
2	14:24:03	-0.035	-0.040	0.432	4285.000	2722.000	4.533	32.530	22390.000	1460.000	1270000.000
3	14:24:07	-0.047	-0.064	0.548	4327.000	2745.000	2.566	34.300	22050.000	1478.000	1274000.000
x		-0.048	-0.056	0.682	4305.000	2714.000	3.171	32.940	22070.000	1478.000	1280000.000
σ		0.013	0.014	0.338	21.330	35.670	1.182	1.208	314.500	18.090	13650.000
%RSD		27.460	25.120	49.580	0.495	1.314	37.270	3.668	1.425	1.224	1.067
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	14:24:00	TM 43120.000	1650.000	107.902%	106.189%	0.168	0.114	0.267	7.175	29.550	0.974
2	14:24:03	TM 42430.000	1619.000	110.613%	107.551%	0.377	-0.104	0.243	7.932	29.370	0.965
3	14:24:07	TM 42590.000	1724.000	110.158%	107.287%	0.125	0.100	0.253	7.220	30.930	0.953
x		TM 42710.000	1665.000	109.558%	107.009%	0.224	0.037	0.254	7.442	29.950	0.964
σ		TM 360.500	53.650	1.452%	0.722%	0.135	0.122	0.012	0.425	0.851	0.011
%RSD		TM 0.844	3.223	1.325	0.675	60.380	334.000	4.641	5.706	2.840	1.089
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:00	0.038	0.105	1.703	40.470	108.093%	0.925	2.825	0.928	105.653%	0.057
2	14:24:03	0.043	0.124	1.692	40.650	111.535%	0.991	3.138	0.879	109.576%	0.015
3	14:24:07	0.045	0.094	1.719	40.590	111.278%	0.961	2.700	0.912	109.133%	0.033
x		0.042	0.108	1.705	40.570	110.302%	0.959	2.888	0.906	108.121%	0.035
σ		0.004	0.015	0.014	0.093	1.917%	0.033	0.226	0.025	2.148%	0.021
%RSD		8.954	14.180	0.804	0.228	1.738	3.463	7.818	2.772	1.987	60.960
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:00	0.007	-0.072	-0.042	-0.084	106.089%	34.520	-0.004	0.031	105.482%	-0.030
2	14:24:03	0.018	-0.064	-0.038	-0.076	109.790%	34.600	0.013	0.049	108.866%	-0.042
3	14:24:07	0.024	-0.113	-0.041	-0.059	109.631%	34.800	0.008	0.060	108.761%	-0.034
x		0.017	-0.083	-0.041	-0.073	108.503%	34.640	0.006	0.047	107.703%	-0.036
σ		0.009	0.026	0.002	0.013	2.092%	0.140	0.009	0.014	1.924%	0.006
%RSD		51.440	31.590	5.201	17.290	1.928	0.405	154.200	30.780	1.787	17.390
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:24:00	1.881	-0.070	0.123	102.544%	-0.049					
2	14:24:03	1.886	-0.069	0.132	106.437%	-0.042					
3	14:24:07	1.891	-0.071	0.136	107.170%	-0.042					
x		1.886	-0.070	0.130	105.384%	-0.044					
σ		0.005	0.001	0.006	2.486%	0.004					
%RSD		0.268	2.053	4.904	2.359	8.759					

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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	14:31:14	96.670	97.590	96.270	5050.000	5008.000	5084.000	4849.000	5325.000	112.700	1498000.000
2	14:31:18	96.300	97.620	98.050	5062.000	4966.000	5073.000	4875.000	5264.000	103.900	1475000.000
3	14:31:22	97.050	97.930	97.140	5131.000	4950.000	5126.000	4836.000	5471.000	111.300	1490000.000
x		96.670	97.710	97.150	5081.000	4975.000	5094.000	4853.000	5353.000	109.300	1488000.000
σ		0.371	0.186	0.893	43.880	29.670	27.680	19.650	106.700	4.775	11600.000
%RSD		0.384	0.190	0.919	0.864	0.596	0.543	0.405	1.993	4.369	0.779
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	14:31:14	5032.000	4970.000	106.974%	105.067%	100.800	100.500	101.500	21.640	5084.000	101.100
2	14:31:18	5024.000	4929.000	109.033%	104.480%	103.500	101.000	100.800	21.180	5097.000	101.300
3	14:31:22	5093.000	4735.000	109.765%	104.981%	100.200	100.900	101.900	20.740	5106.000	101.600
x		5050.000	4878.000	108.591%	104.843%	101.500	100.800	101.400	21.180	5096.000	101.300
σ		37.720	125.400	1.447%	0.317%	1.760	0.260	0.568	0.449	11.090	0.278
%RSD		0.747	2.571	1.333	0.303	1.734	0.258	0.560	2.121	0.218	0.274
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:14	102.400	103.000	104.700	104.700	108.090%	103.100	104.100	100.800	104.290%	100.200
2	14:31:18	103.100	103.900	104.700	104.800	110.882%	104.400	102.600	100.800	107.213%	100.700
3	14:31:22	102.800	103.100	105.500	105.300	111.711%	104.400	104.200	100.700	108.698%	100.100
x		102.700	103.300	105.000	104.900	110.228%	104.000	103.600	100.800	106.734%	100.300
σ		0.357	0.467	0.507	0.350	1.897%	0.729	0.924	0.077	2.243%	0.335
%RSD		0.347	0.452	0.483	0.334	1.721	0.701	0.892	0.076	2.101	0.333
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:14	100.500	102.800	52.440	104.700	106.914%	105.000	106.000	101.400	106.553%	101.100
2	14:31:18	101.200	103.500	52.200	106.300	110.724%	104.600	106.700	102.600	109.425%	101.600
3	14:31:22	100.300	102.400	52.000	105.200	111.434%	105.600	106.400	102.300	110.055%	102.600
x		100.700	102.900	52.210	105.400	109.691%	105.000	106.400	102.100	108.678%	101.800
σ		0.483	0.579	0.223	0.795	2.430%	0.490	0.371	0.632	1.867%	0.748
%RSD		0.480	0.563	0.427	0.755	2.216	0.467	0.348	0.620	1.718	0.734
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:31:14	4.777	100.700	102.000	104.937%	99.690					
2	14:31:18	4.724	100.400	101.700	108.697%	99.060					
3	14:31:22	4.980	101.000	102.200	109.730%	100.200					
x		4.827	100.700	102.000	107.788%	99.640					
σ		0.135	0.322	0.276	2.523%	0.563					
%RSD		2.795	0.319	0.270	2.341	0.565					

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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	14:38:27	0.008	0.023	0.152	4.556	1.789	3.386	3.051	-0.370	100.200	1412000.000
2	14:38:31	0.028	-0.017	-0.073	5.846	4.257	2.972	2.789	10.150	110.500	1374000.000
3	14:38:35	0.015	0.009	-0.434	6.872	5.154	2.999	4.672	1.274	103.800	1402000.000
x		0.017	0.005	-0.119	5.758	3.733	3.119	3.504	3.685	104.800	1396000.000
σ		0.010	0.020	0.296	1.161	1.743	0.232	1.020	5.660	5.236	19480.000
%RSD		58.700	409.000	249.400	20.160	46.680	7.435	29.100	153.600	4.994	1.395
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	14:38:27	4.550	28.810	103.573%	102.971%	0.104	0.104	0.048	6.172	3.521	0.016
2	14:38:31	3.693	11.520	105.810%	104.636%	0.097	0.091	0.062	6.112	3.126	0.051
3	14:38:35	10.090	18.220	104.488%	103.754%	0.166	0.078	0.073	6.178	4.478	0.036
x		6.111	19.520	104.624%	103.787%	0.122	0.091	0.061	6.154	3.708	0.034
σ		3.473	8.716	1.125%	0.833%	0.038	0.013	0.013	0.036	0.695	0.018
%RSD		56.830	44.660	1.075	0.802	30.740	14.300	20.540	0.591	18.750	51.150
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:27	0.023	-0.030	-0.006	-0.355	103.849%	0.088	0.099	0.021	101.558%	0.048
2	14:38:31	0.050	-0.034	0.006	-0.297	106.039%	0.078	0.179	0.029	103.463%	0.023
3	14:38:35	0.047	-0.062	-0.019	-0.333	105.241%	0.085	0.073	0.054	104.678%	0.046
x		0.040	-0.042	-0.006	-0.328	105.043%	0.084	0.117	0.035	103.233%	0.039
σ		0.015	0.017	0.013	0.029	1.108%	0.005	0.055	0.017	1.573%	0.014
%RSD		36.250	41.190	205.300	8.888	1.055	6.218	47.150	49.930	1.523	35.250
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:27	0.088	0.018	0.006	-0.003	100.670%	-0.007	-0.018	0.039	100.716%	0.020
2	14:38:31	0.112	-0.012	0.010	0.007	102.975%	-0.007	-0.010	0.119	103.109%	0.025
3	14:38:35	0.119	0.006	0.002	0.036	103.840%	-0.021	-0.020	0.067	103.299%	0.034
x		0.106	0.004	0.006	0.014	102.495%	-0.011	-0.016	0.075	102.375%	0.026
σ		0.016	0.015	0.004	0.020	1.638%	0.008	0.005	0.041	1.440%	0.007
%RSD		14.990	364.000	68.040	147.700	1.599	72.030	31.640	53.830	1.406	26.480
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:38:27	0.018	0.008	0.023	100.074%	0.024					
2	14:38:31	0.005	0.017	0.043	102.911%	0.047					
3	14:38:35	0.013	0.005	0.035	103.267%	0.046					
x		0.012	0.010	0.034	102.084%	0.039					
σ		0.007	0.007	0.010	1.749%	0.013					
%RSD		57.120	67.720	29.910	1.714	33.390					

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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	14:45:42	-0.063	-0.054	0.544	872.200	548.800	-6.889	13.600	4265.000	394.700	<u>1454000.000</u>
2	14:45:46	-0.054	-0.071	0.214	847.600	525.300	-8.549	15.960	4175.000	388.400	<u>1413000.000</u>
3	14:45:49	-0.043	-0.056	0.199	862.000	540.300	-7.345	12.170	4187.000	358.400	<u>1409000.000</u>
x		-0.054	-0.060	0.319	860.600	538.100	-7.594	13.910	4209.000	380.500	<u>1425000.000</u>
σ		0.010	0.009	0.195	12.340	11.890	0.858	1.913	49.050	19.420	<u>24780.000</u>
%RSD		18.780	15.630	60.990	1.434	2.210	11.290	13.750	1.165	5.103	<u>1.739</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	14:45:42	7931.000	370.600	101.825%	103.111%	-0.127	-0.017	-0.045	6.763	2.892	0.108
2	14:45:46	7829.000	352.600	104.962%	103.146%	-0.132	0.012	-0.041	6.558	1.967	0.118
3	14:45:49	7886.000	345.400	105.091%	96.257%	0.091	-0.033	-0.067	6.661	2.361	0.115
x		7882.000	356.200	103.959%	100.838%	-0.056	-0.013	-0.051	6.661	2.407	0.114
σ		50.870	13.020	1.850%	3.967%	0.127	0.023	0.014	0.103	0.464	0.005
%RSD		0.645	3.655	1.779	3.934	226.800	179.000	27.400	1.543	19.280	4.804
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:45:42	-0.035	-0.124	0.218	7.988	103.009%	0.197	0.392	0.126	100.268%	-0.021
2	14:45:46	-0.025	-0.105	0.210	7.617	105.218%	0.026	0.388	0.138	102.755%	-0.011
3	14:45:49	-0.037	-0.100	0.204	7.309	106.931%	0.101	0.510	0.156	104.033%	-0.001
x		-0.032	-0.110	0.211	7.638	105.053%	0.108	0.430	0.140	102.352%	-0.011
σ		0.006	0.013	0.007	0.340	1.967%	0.086	0.069	0.015	1.915%	0.010
%RSD		19.220	11.400	3.265	4.448	1.872	79.290	16.050	10.610	1.871	92.590
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:45:42	-0.046	-0.072	-0.046	-0.107	101.341%	6.684	-0.085	0.279	99.530%	-0.029
2	14:45:46	-0.059	-0.038	-0.054	-0.089	103.299%	6.715	-0.098	0.260	102.218%	-0.033
3	14:45:49	-0.042	-0.060	-0.046	-0.095	105.070%	6.679	-0.092	0.245	103.532%	-0.024
x		-0.049	-0.057	-0.049	-0.097	103.237%	6.692	-0.092	0.261	101.760%	-0.029
σ		0.009	0.017	0.005	0.009	1.865%	0.020	0.006	0.017	2.040%	0.004
%RSD		18.490	30.800	9.864	9.381	1.807	0.296	6.851	6.601	2.004	14.600
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:45:42	0.379	-0.116	-0.032	99.979%	-0.054					
2	14:45:46	0.376	-0.113	-0.028	102.922%	-0.057					
3	14:45:49	0.376	-0.119	-0.031	104.232%	-0.056					
x		0.377	-0.116	-0.030	102.378%	-0.055					
σ		0.002	0.003	0.002	2.178%	0.001					
%RSD		0.481	2.764	6.663	2.127	2.676					

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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	14:52:58	-0.050	-0.084	0.151	3943.000	2757.000	3.778	28.780	22520.000	1486.000	1208000.000
2	14:53:02	-0.064	-0.080	0.357	3863.000	2720.000	5.537	28.730	21730.000	1433.000	1193000.000
3	14:53:05	-0.050	-0.076	-0.073	3891.000	2723.000	5.845	29.630	22200.000	1448.000	1194000.000
x		-0.055	-0.080	0.145	3899.000	2733.000	5.053	29.050	22150.000	1456.000	1198000.000
σ		0.008	0.004	0.215	40.360	20.660	1.115	0.509	397.700	27.190	8592.000
%RSD		14.930	5.071	148.400	1.035	0.756	22.070	1.754	1.796	1.868	0.717
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	14:52:58	TM 42310.000	1469.000	107.612%	105.655%	-0.145	-0.042	0.285	6.576	23.690	0.985
2	14:53:02	TM 42010.000	1560.000	110.692%	105.769%	0.226	-0.054	0.310	6.958	23.680	1.015
3	14:53:05	TM 42110.000	1580.000	113.405%	106.592%	0.109	0.043	0.301	7.073	21.860	0.961
x		TM 42140.000	1536.000	110.570%	106.006%	0.063	-0.018	0.299	6.869	23.080	0.987
σ		TM 154.300	59.340	2.898%	0.511%	0.190	0.053	0.013	0.260	1.057	0.027
%RSD		TM 0.366	3.863	2.621	0.482	299.300	296.200	4.275	3.785	4.582	2.756
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:58	-0.000	0.233	2.436	36.810	108.117%	0.739	2.703	0.719	105.428%	-0.021
2	14:53:02	0.009	0.230	2.355	36.670	113.049%	0.740	2.972	0.710	108.734%	-0.043
3	14:53:05	-0.010	0.284	2.393	36.630	115.132%	0.835	2.775	0.726	111.520%	-0.034
x		-0.000	0.249	2.395	36.700	112.099%	0.771	2.817	0.718	108.561%	-0.032
σ		0.009	0.030	0.041	0.092	3.603%	0.055	0.139	0.008	3.050%	0.011
%RSD		3060.000	12.230	1.698	0.252	3.214	7.146	4.947	1.122	2.809	33.670
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:52:58	-0.009	-0.085	-0.046	-0.098	105.602%	35.880	-0.087	-0.030	104.228%	-0.021
2	14:53:02	-0.005	-0.105	-0.045	-0.096	109.201%	36.450	-0.051	-0.014	107.048%	-0.025
3	14:53:05	0.012	-0.079	-0.051	-0.096	111.614%	36.190	-0.068	-0.021	108.537%	-0.030
x		-0.001	-0.090	-0.047	-0.097	108.805%	36.170	-0.068	-0.022	106.604%	-0.025
σ		0.011	0.014	0.003	0.001	3.025%	0.284	0.018	0.008	2.189%	0.004
%RSD		1793.000	15.540	6.455	1.386	2.780	0.787	26.450	38.410	2.053	16.210
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	14:52:58	1.848	-0.106	-0.018	102.225%	-0.062					
2	14:53:02	1.832	-0.107	-0.016	105.789%	-0.062					
3	14:53:05	1.689	-0.109	-0.020	106.487%	-0.064					
x		1.789	-0.108	-0.018	104.834%	-0.063					
σ		0.087	0.002	0.002	2.286%	0.001					
%RSD		4.887	1.654	13.430	2.181	1.479					

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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	15:00:14	-0.056	-0.071	0.035	4784.000	3204.000	4.226	38.630	<u>M</u> 30280.000	1492.000	<u>T</u> 1133000.000
2	15:00:17	-0.062	-0.079	-0.114	4711.000	3179.000	3.485	31.500	<u>M</u> 30440.000	1536.000	<u>T</u> 1116000.000
3	15:00:21	-0.063	-0.092	0.045	4751.000	3153.000	4.533	33.830	<u>M</u> 30230.000	1488.000	<u>T</u> 1110000.000
x		-0.060	-0.081	-0.011	4749.000	3179.000	4.081	34.650	<u>M</u> 30320.000	1505.000	<u>T</u> 1120000.000
σ		0.004	0.011	0.089	36.630	25.040	0.539	3.633	<u>M</u> 110.300	26.820	<u>T</u> 12310.000
%RSD		5.887	13.500	777.700	0.771	0.788	13.200	10.480	<u>M</u> 0.364	1.782	<u>T</u> 1.100
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	15:00:14	<u>TM</u> 48490.000	10820.000	103.370%	101.206%	0.344	-0.157	0.454	6.020	46.370	2.870
2	15:00:17	<u>TM</u> 47570.000	10430.000	108.295%	102.136%	0.774	0.055	0.449	5.779	49.110	2.846
3	15:00:21	<u>TM</u> 47350.000	11190.000	106.666%	101.594%	0.442	0.057	0.456	5.565	47.300	2.866
x		<u>TM</u> 47800.000	10820.000	106.110%	101.645%	0.520	-0.015	0.453	5.788	47.590	2.861
σ		<u>TM</u> 606.100	380.500	2.509%	0.467%	0.225	0.123	0.004	0.228	1.391	0.013
%RSD		<u>TM</u> 1.268	3.518	2.365	0.459	43.330	823.900	0.797	3.934	2.922	0.452
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	0.008	0.457	2.217	43.680	103.931%	0.580	3.338	8.476	102.177%	-0.039
2	15:00:17	-0.004	0.353	2.316	42.800	107.672%	0.773	3.337	8.518	106.003%	-0.055
3	15:00:21	-0.007	0.379	2.290	43.970	106.910%	0.661	3.190	8.465	105.671%	-0.034
x		-0.001	0.396	2.274	43.480	106.171%	0.671	3.288	8.486	104.617%	-0.043
σ		0.008	0.055	0.052	0.609	1.977%	0.097	0.085	0.028	2.120%	0.011
%RSD		708.300	13.750	2.267	1.402	1.862	14.480	2.594	0.331	2.026	25.600
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:14	0.034	-0.093	-0.054	-0.104	102.799%	36.110	-0.060	0.262	102.948%	-0.027
2	15:00:17	0.035	-0.072	-0.055	-0.104	107.173%	36.370	-0.055	0.250	105.581%	-0.040
3	15:00:21	0.010	-0.104	-0.047	-0.093	106.596%	36.470	-0.078	0.232	106.423%	-0.013
x		0.026	-0.089	-0.052	-0.100	105.523%	36.320	-0.064	0.248	104.984%	-0.027
σ		0.014	0.016	0.004	0.007	2.376%	0.186	0.012	0.015	1.813%	0.014
%RSD		52.790	18.130	8.196	6.667	2.252	0.512	19.140	6.170	1.727	51.860
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:00:14	2.245	-0.093	-0.043	100.446%	-0.065					
2	15:00:17	2.218	-0.099	-0.052	104.155%	-0.066					
3	15:00:21	2.245	-0.107	-0.052	104.538%	-0.066					
x		2.236	-0.100	-0.049	103.046%	-0.066					
σ		0.016	0.007	0.005	2.260%	0.000					
%RSD		0.703	6.947	10.820	2.193	0.677					

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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	15:07:28	-0.064	-0.084	-0.418	4011.000	2966.000	-0.414	31.010	24170.000	1589.000	1273000.000
2	15:07:32	-0.066	-0.084	-0.112	3963.000	2955.000	-0.108	30.150	24210.000	1622.000	1248000.000
3	15:07:36	-0.068	-0.080	-0.108	3998.000	2969.000	0.293	29.690	24700.000	1602.000	1265000.000
x		-0.066	-0.083	-0.213	3991.000	2963.000	-0.076	30.280	24360.000	1604.000	1262000.000
σ		0.002	0.002	0.178	24.800	7.517	0.355	0.671	294.200	16.850	12760.000
%RSD		2.857	2.943	83.560	0.621	0.254	464.800	2.214	1.208	1.050	1.011
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	15:07:28	TM 46290.000	2780.000	107.674%	105.019%	0.057	0.091	0.274	7.958	25.150	1.733
2	15:07:32	TM 45650.000	2836.000	108.471%	105.042%	0.107	-0.007	0.267	8.161	24.860	1.850
3	15:07:36	TM 46550.000	2901.000	107.480%	104.793%	0.379	-0.052	0.273	9.148	27.140	1.773
x		TM 46160.000	2839.000	107.875%	104.951%	0.181	0.011	0.271	8.422	25.720	1.785
σ		TM 462.000	60.750	0.525%	0.138%	0.173	0.073	0.004	0.636	1.240	0.060
%RSD		TM 1.001	2.140	0.487	0.131	95.540	682.900	1.296	7.558	4.820	3.335
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:28	-0.003	0.029	2.121	42.040	106.389%	0.921	3.580	1.743	105.002%	-0.051
2	15:07:32	0.008	0.070	2.123	41.820	107.262%	0.859	3.262	1.736	106.748%	-0.047
3	15:07:36	-0.001	0.071	2.218	40.750	109.237%	0.981	3.020	1.745	107.097%	-0.066
x		0.001	0.057	2.154	41.530	107.629%	0.920	3.287	1.741	106.282%	-0.054
σ		0.006	0.024	0.055	0.690	1.460%	0.061	0.281	0.005	1.122%	0.010
%RSD		492.500	43.020	2.560	1.662	1.356	6.586	8.540	0.292	1.056	18.540
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:28	-0.005	-0.086	-0.055	-0.092	105.081%	35.800	-0.055	-0.007	103.483%	-0.033
2	15:07:32	-0.026	-0.087	-0.043	-0.081	107.087%	35.650	-0.048	-0.011	106.090%	-0.022
3	15:07:36	-0.026	-0.089	-0.054	-0.070	107.536%	36.340	-0.055	0.001	106.442%	-0.029
x		-0.019	-0.087	-0.050	-0.081	106.568%	35.930	-0.053	-0.005	105.338%	-0.028
σ		0.012	0.001	0.007	0.011	1.307%	0.363	0.004	0.006	1.616%	0.006
%RSD		62.680	1.707	13.420	14.010	1.227	1.010	8.195	113.200	1.534	20.470
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:07:28	1.855	-0.094	-0.068	100.509%	-0.067					
2	15:07:32	2.064	-0.099	-0.064	103.434%	-0.067					
3	15:07:36	1.993	-0.099	-0.065	103.918%	-0.067					
x		1.971	-0.098	-0.066	102.620%	-0.067					
σ		0.106	0.003	0.002	1.844%	0.000					
%RSD		5.388	2.927	2.890	1.797	0.214					

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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	15:14:43	-0.068	-0.068	0.077	4005.000	2891.000	6.580	30.210	24360.000	1525.000	1200000.000
2	15:14:46	-0.065	-0.084	0.042	3976.000	2876.000	6.975	34.650	24090.000	1564.000	1170000.000
3	15:14:50	-0.070	-0.097	-0.283	3996.000	2858.000	6.430	37.990	24230.000	1538.000	1175000.000
x		-0.068	-0.083	-0.054	3992.000	2875.000	6.662	34.280	24220.000	1542.000	1181000.000
σ		0.003	0.014	0.199	14.570	16.760	0.281	3.901	135.000	19.830	16090.000
%RSD		3.917	17.170	365.300	0.365	0.583	4.223	11.380	0.557	1.285	1.363
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	15:14:43	TM 47090.000	1189.000	109.604%	107.982%	0.424	-0.133	0.270	9.085	21.830	0.978
2	15:14:46	TM 46530.000	1307.000	112.436%	107.280%	0.270	-0.012	0.224	9.014	21.640	1.002
3	15:14:50	TM 46460.000	1244.000	112.796%	107.956%	0.108	0.035	0.247	9.055	21.540	1.008
x		TM 46690.000	1247.000	111.612%	107.739%	0.267	-0.036	0.247	9.051	21.670	0.996
σ		TM 344.800	59.200	1.748%	0.398%	0.158	0.086	0.023	0.035	0.148	0.016
%RSD		TM 0.739	4.747	1.566	0.369	59.020	236.600	9.219	0.392	0.682	1.562
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:14:43	-0.004	0.095	1.747	40.560	107.271%	0.704	3.829	0.522	105.689%	-0.061
2	15:14:46	0.002	0.135	1.830	40.510	111.951%	0.692	4.049	0.530	109.598%	-0.048
3	15:14:50	-0.001	0.110	1.738	40.910	113.110%	0.750	3.163	0.558	110.222%	-0.050
x		-0.001	0.114	1.771	40.660	110.777%	0.715	3.680	0.536	108.503%	-0.053
σ		0.003	0.020	0.051	0.217	3.091%	0.031	0.461	0.019	2.457%	0.007
%RSD		296.500	17.660	2.863	0.533	2.790	4.295	12.530	3.487	2.264	13.430
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:14:43	-0.009	-0.065	-0.050	-0.101	105.998%	35.880	-0.058	-0.058	105.140%	-0.060
2	15:14:46	-0.013	-0.105	-0.059	-0.099	109.302%	35.690	-0.047	-0.022	107.889%	-0.050
3	15:14:50	-0.005	-0.086	-0.046	-0.102	109.890%	35.850	-0.048	-0.040	108.238%	-0.034
x		-0.009	-0.085	-0.052	-0.101	108.397%	35.800	-0.051	-0.040	107.089%	-0.048
σ		0.004	0.020	0.007	0.002	2.098%	0.102	0.006	0.018	1.697%	0.013
%RSD		45.120	23.860	13.030	1.582	1.935	0.285	11.250	44.340	1.584	27.030
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:14:43	2.667	-0.099	-0.059	103.083%	-0.067					
2	15:14:46	2.882	-0.101	-0.063	105.948%	-0.067					
3	15:14:50	3.037	-0.096	-0.065	106.340%	-0.067					
x		2.862	-0.098	-0.062	105.124%	-0.067					
σ		0.186	0.002	0.003	1.778%	0.000					
%RSD		6.491	2.439	4.548	1.692	0.375					

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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	15:21:57	-0.053	-0.092	-0.653	4120.000	2733.000	2.016	40.410	23270.000	1447.000	1321000.000
2	15:22:01	-0.056	-0.088	-0.545	4044.000	2711.000	1.355	30.500	22500.000	1459.000	1297000.000
3	15:22:04	-0.058	-0.080	-0.581	4042.000	2734.000	0.625	32.240	22970.000	1495.000	1303000.000
x		-0.056	-0.087	-0.593	4068.000	2726.000	1.332	34.390	22910.000	1467.000	1307000.000
σ		0.003	0.006	0.055	44.860	13.070	0.696	5.292	387.800	24.590	12390.000
%RSD		4.717	7.224	9.288	1.103	0.479	52.260	15.390	1.692	1.676	0.948
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	15:21:57	TM 43550.000	1330.000	105.704%	105.806%	0.287	0.115	0.246	8.703	47.890	1.218
2	15:22:01	TM 42840.000	1316.000	109.925%	107.500%	0.660	0.055	0.264	9.612	46.020	1.197
3	15:22:04	TM 42990.000	1276.000	109.057%	106.523%	0.435	0.060	0.231	9.493	48.920	1.223
x		TM 43130.000	1307.000	108.229%	106.610%	0.461	0.077	0.247	9.269	47.610	1.213
σ		TM 377.500	28.150	2.229%	0.850%	0.188	0.033	0.017	0.494	1.470	0.014
%RSD		TM 0.875	2.154	2.060	0.797	40.760	43.280	6.831	5.330	3.088	1.154
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:21:57	-0.011	0.390	2.230	39.340	106.635%	0.999	2.886	0.423	104.688%	-0.073
2	15:22:01	0.007	0.305	2.170	39.410	110.563%	1.003	3.062	0.411	107.764%	-0.069
3	15:22:04	-0.008	0.262	2.154	39.520	111.791%	0.928	3.062	0.429	108.129%	-0.053
x		-0.004	0.319	2.185	39.420	109.663%	0.976	3.004	0.421	106.860%	-0.065
σ		0.010	0.065	0.040	0.089	2.693%	0.042	0.102	0.009	1.890%	0.010
%RSD		230.700	20.460	1.818	0.227	2.456	4.307	3.390	2.201	1.769	15.930
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:21:57	-0.014	-0.080	-0.052	-0.084	104.914%	36.320	-0.074	0.016	103.687%	-0.061
2	15:22:01	-0.016	-0.090	-0.036	-0.090	107.720%	36.240	-0.068	0.001	106.170%	-0.049
3	15:22:04	-0.018	-0.085	-0.049	-0.090	108.205%	36.570	-0.044	0.021	107.159%	-0.059
x		-0.016	-0.085	-0.046	-0.088	106.946%	36.370	-0.062	0.013	105.672%	-0.056
σ		0.002	0.005	0.009	0.004	1.777%	0.171	0.016	0.010	1.789%	0.007
%RSD		12.240	6.105	19.000	4.275	1.661	0.471	25.380	79.760	1.693	11.930
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:21:57	2.706	-0.111	-0.034	101.973%	-0.067					
2	15:22:01	2.880	-0.115	-0.036	105.131%	-0.068					
3	15:22:04	2.827	-0.111	-0.038	105.290%	-0.067					
x		2.804	-0.112	-0.036	104.131%	-0.068					
σ		0.089	0.003	0.002	1.871%	0.000					
%RSD		3.184	2.264	5.454	1.796	0.443					

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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	15:29:12	-0.059	-0.081	-0.412	11230.000	2910.000	0.030	31.620	M39530.000	1810.000	T1278000.000
2	15:29:15	-0.059	-0.093	-0.446	11250.000	2931.000	1.796	29.440	M40650.000	1811.000	T1262000.000
3	15:29:19	-0.069	-0.085	-0.524	11200.000	2890.000	-0.018	32.470	M39580.000	1737.000	T1242000.000
x		-0.062	-0.086	-0.461	11230.000	2910.000	0.602	31.180	M39920.000	1786.000	T1261000.000
σ		0.006	0.006	0.058	22.100	20.590	1.034	1.562	M635.300	42.100	T17810.000
%RSD		9.492	6.966	12.490	0.197	0.708	171.600	5.011	M1.591	2.357	T1.413
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	15:29:12	TM 31750.000	854.900	106.015%	111.892%	0.263	0.094	0.208	8.964	304.800	37.180
2	15:29:15	TM 31760.000	1008.000	108.101%	110.932%	0.100	0.259	0.230	8.529	306.200	37.720
3	15:29:19	TM 31300.000	1014.000	109.519%	109.755%	-0.124	0.212	0.228	8.198	301.400	37.540
x		TM 31600.000	959.200	107.879%	110.860%	0.079	0.188	0.222	8.564	304.100	37.480
σ		TM 260.600	90.320	1.763%	1.070%	0.194	0.085	0.012	0.384	2.481	0.272
%RSD		TM 0.825	9.416	1.634	0.965	244.800	45.320	5.353	4.485	0.816	0.726
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:29:12	0.633	0.118	10.930	380.800	105.688%	1.528	8.531	1.035	102.809%	-0.064
2	15:29:15	0.649	0.082	10.570	374.000	110.592%	1.499	8.347	1.091	106.706%	-0.060
3	15:29:19	0.625	0.122	10.720	373.600	111.152%	1.571	8.563	1.078	107.130%	-0.047
x		0.636	0.107	10.740	376.100	109.144%	1.533	8.480	1.068	105.548%	-0.057
σ		0.013	0.022	0.178	4.061	3.006%	0.036	0.117	0.029	2.382%	0.009
%RSD		1.978	20.760	1.656	1.080	2.754	2.367	1.373	2.720	2.257	15.290
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:29:12	0.262	-0.094	-0.033	-0.068	103.348%	33.370	-0.063	0.052	102.206%	-0.051
2	15:29:15	0.273	-0.092	-0.038	-0.049	106.497%	33.710	-0.051	0.067	106.385%	-0.044
3	15:29:19	0.281	-0.103	-0.044	-0.041	107.681%	33.420	-0.060	0.058	106.659%	-0.049
x		0.272	-0.096	-0.038	-0.053	105.842%	33.500	-0.058	0.059	105.084%	-0.048
σ		0.010	0.006	0.005	0.014	2.239%	0.183	0.006	0.008	2.496%	0.004
%RSD		3.516	5.961	14.280	26.430	2.116	0.546	10.590	13.450	2.375	7.832
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:29:12	0.208	-0.093	-0.066	101.246%	-0.065					
2	15:29:15	0.200	-0.096	-0.065	105.313%	-0.063					
3	15:29:19	0.202	-0.095	-0.066	106.162%	-0.063					
x		0.203	-0.095	-0.066	104.240%	-0.064					
σ		0.004	0.002	0.001	2.627%	0.001					
%RSD		2.154	2.021	0.820	2.521	1.889					

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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	15:36:25	-0.061	-0.080	-0.174	10350.000	2858.000	9.828	26.750	<u>M 35800.000</u>	1573.000	<u>T 1207000.000</u>
2	15:36:28	-0.062	-0.092	-0.307	10230.000	2811.000	9.757	24.330	<u>M 35380.000</u>	1541.000	<u>T 1175000.000</u>
3	15:36:32	-0.064	-0.088	-0.045	10220.000	2824.000	9.597	28.290	<u>M 35690.000</u>	1510.000	<u>T 1176000.000</u>
x		-0.062	-0.087	-0.176	10270.000	2831.000	9.727	26.460	<u>M 35620.000</u>	1541.000	<u>T 1186000.000</u>
σ		0.001	0.006	0.131	74.230	24.320	0.118	2.000	<u>M 219.900</u>	31.750	<u>T 18580.000</u>
%RSD		2.183	7.210	74.590	0.723	0.859	1.212	7.559	<u>M 0.617</u>	2.060	<u>T 1.567</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	15:36:25	<u>TM 31290.000</u>	1149.000	106.996%	106.974%	-0.336	0.183	0.231	7.598	170.700	30.290
2	15:36:28	<u>TM 30580.000</u>	1208.000	110.399%	107.436%	0.551	0.144	0.260	8.065	172.900	30.620
3	15:36:32	<u>TM 30660.000</u>	1251.000	110.728%	107.814%	0.285	0.113	0.267	7.697	172.400	30.450
x		<u>TM 30840.000</u>	1203.000	109.374%	107.408%	0.167	0.147	0.252	7.787	172.000	30.450
σ		<u>TM 387.100</u>	51.160	2.067%	0.421%	0.455	0.035	0.019	0.246	1.149	0.165
%RSD		<u>TM 1.255</u>	4.254	1.889	0.392	273.000	24.130	7.555	3.161	0.668	0.542
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:25	0.297	0.041	13.700	286.100	108.502%	1.115	7.162	1.085	104.818%	-0.053
2	15:36:28	0.315	0.100	13.590	289.000	110.183%	1.217	7.365	1.109	107.666%	-0.056
3	15:36:32	0.334	0.103	13.840	288.000	111.771%	1.218	7.327	1.133	107.859%	-0.063
x		0.316	0.081	13.710	287.700	110.152%	1.183	7.285	1.109	106.781%	-0.057
σ		0.018	0.035	0.126	1.504	1.635%	0.059	0.108	0.024	1.702%	0.005
%RSD		5.804	43.350	0.919	0.523	1.484	5.028	1.480	2.148	1.594	9.333
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:25	0.221	-0.101	-0.039	-0.081	104.616%	35.000	-0.091	0.081	103.821%	-0.035
2	15:36:28	0.254	-0.098	-0.027	-0.084	108.133%	34.850	-0.107	0.076	107.029%	-0.029
3	15:36:32	0.234	-0.130	-0.036	-0.065	109.039%	35.230	-0.090	0.107	107.476%	-0.038
x		0.236	-0.110	-0.034	-0.077	107.263%	35.030	-0.096	0.088	106.108%	-0.034
σ		0.017	0.018	0.006	0.011	2.336%	0.191	0.009	0.017	1.994%	0.005
%RSD		7.068	16.160	18.830	13.730	2.178	0.545	9.775	19.030	1.879	14.140
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:36:25	0.155	-0.087	0.115	102.343%	-0.066					
2	15:36:28	0.121	-0.090	0.106	106.541%	-0.065					
3	15:36:32	0.116	-0.087	0.113	107.390%	-0.065					
x		0.131	-0.088	0.111	105.425%	-0.065					
σ		0.022	0.002	0.005	2.702%	0.000					
%RSD		16.470	2.109	4.256	2.563	0.425					

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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	15:43:38	-0.063	-0.092	-0.193	11900.000	3146.000	4.809	35.290	M 41590.000	1761.000	T 1160000.000
2	15:43:42	-0.073	-0.097	0.087	11660.000	3104.000	4.433	29.250	M 40220.000	1722.000	T 1123000.000
3	15:43:45	-0.058	-0.068	-0.222	11690.000	3074.000	6.203	36.370	M 40400.000	1707.000	T 1137000.000
x		-0.065	-0.086	-0.109	11750.000	3108.000	5.148	33.640	M 40740.000	1730.000	T 1140000.000
σ		0.008	0.016	0.171	131.000	36.110	0.933	3.835	M 742.200	27.790	T 18720.000
%RSD		11.700	18.110	156.400	1.115	1.162	18.120	11.400	M 1.822	1.606	T 1.641
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	15:43:38	TM 35320.000	1276.000	105.884%	106.092%	0.705	0.061	0.236	8.066	222.200	32.110
2	15:43:42	TM 34300.000	1141.000	110.421%	107.419%	0.317	0.158	0.222	7.774	222.300	31.490
3	15:43:45	TM 34590.000	1170.000	110.919%	106.994%	0.237	0.228	0.189	7.339	220.800	31.330
x		TM 34740.000	1196.000	109.075%	106.835%	0.419	0.149	0.216	7.726	221.800	31.640
σ		TM 528.400	70.990	2.774%	0.678%	0.251	0.084	0.024	0.366	0.839	0.413
%RSD		TM 1.521	5.938	2.543	0.634	59.780	56.470	11.070	4.738	0.378	1.306
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:38	0.541	0.054	10.730	304.700	109.424%	1.459	9.498	1.158	105.085%	-0.061
2	15:43:42	0.550	0.066	10.840	305.100	111.857%	1.403	9.590	1.166	108.021%	-0.045
3	15:43:45	0.588	0.093	10.580	307.300	112.048%	1.459	9.673	1.149	108.977%	-0.060
x		0.560	0.071	10.720	305.700	111.110%	1.440	9.587	1.158	107.361%	-0.056
σ		0.025	0.020	0.131	1.394	1.463%	0.032	0.088	0.009	2.029%	0.009
%RSD		4.468	27.950	1.226	0.456	1.317	2.229	0.915	0.750	1.890	16.270
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:38	0.251	-0.121	-0.020	-0.042	105.372%	35.830	-0.083	0.174	104.529%	-0.039
2	15:43:42	0.197	-0.107	-0.038	-0.056	108.395%	35.710	-0.102	0.191	107.062%	-0.026
3	15:43:45	0.210	-0.118	-0.043	-0.054	109.638%	35.940	-0.068	0.203	108.029%	-0.029
x		0.219	-0.115	-0.034	-0.051	107.802%	35.830	-0.084	0.189	106.540%	-0.031
σ		0.028	0.008	0.012	0.007	2.194%	0.117	0.017	0.015	1.808%	0.007
%RSD		12.860	6.630	36.680	14.110	2.035	0.325	20.270	7.709	1.697	22.060
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:43:38	0.256	-0.088	-0.068	103.940%	-0.064					
2	15:43:42	0.269	-0.076	-0.068	106.946%	-0.065					
3	15:43:45	0.276	-0.079	-0.069	107.208%	-0.064					
x		0.267	-0.081	-0.068	106.031%	-0.064					
σ		0.010	0.006	0.001	1.816%	0.000					
%RSD		3.749	7.550	0.894	1.712	0.724					

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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	15:50:51	-0.071	-0.092	0.020	11820.000	3594.000	1.338	33.330	<u>M 44840.000</u>	1898.000	<u>T 1144000.000</u>
2	15:50:54	-0.071	-0.084	0.440	11830.000	3577.000	1.965	28.280	<u>M 45810.000</u>	1917.000	<u>T 1135000.000</u>
3	15:50:57	-0.065	-0.088	-0.031	11860.000	3629.000	2.279	32.550	<u>M 45650.000</u>	1898.000	<u>T 1135000.000</u>
x		-0.069	-0.088	0.143	11840.000	3600.000	1.861	31.390	<u>M 45430.000</u>	1904.000	<u>T 1138000.000</u>
σ		0.003	0.004	0.259	22.270	26.870	0.479	2.719	<u>M 523.000</u>	10.710	<u>T 5037.000</u>
%RSD		4.923	4.620	180.700	0.188	0.746	25.760	8.664	<u>M 1.151</u>	0.563	<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	15:50:51	<u>TM 38320.000</u>	1167.000	109.728%	106.720%	0.080	0.188	0.218	7.233	205.900	42.240
2	15:50:54	<u>TM 37970.000</u>	1225.000	111.848%	107.145%	-0.224	0.192	0.284	7.483	205.400	42.610
3	15:50:57	<u>TM 38080.000</u>	1195.000	111.796%	107.905%	0.116	0.071	0.193	8.099	208.500	42.640
x		<u>TM 38120.000</u>	1196.000	111.124%	107.256%	-0.009	0.150	0.232	7.605	206.600	42.500
σ		<u>TM 175.300</u>	29.140	1.209%	0.600%	0.187	0.069	0.047	0.446	1.633	0.221
%RSD		<u>TM 0.460</u>	2.437	1.088	0.560	1976.000	45.740	20.390	5.860	0.790	0.521
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:50:51	0.430	0.021	12.960	358.200	110.041%	1.830	10.050	1.639	107.164%	-0.059
2	15:50:54	0.447	0.033	13.290	359.500	112.203%	1.827	9.831	1.658	109.645%	-0.070
3	15:50:57	0.433	0.083	13.270	358.000	114.403%	1.771	9.719	1.620	109.734%	-0.075
x		0.437	0.046	13.170	358.600	112.216%	1.810	9.865	1.639	108.848%	-0.068
σ		0.009	0.033	0.184	0.846	2.181%	0.033	0.166	0.019	1.458%	0.008
%RSD		2.157	71.520	1.400	0.236	1.944	1.838	1.685	1.164	1.340	12.120
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:50:51	0.195	-0.100	-0.029	-0.084	106.998%	34.150	-0.101	0.186	106.005%	-0.055
2	15:50:54	0.245	-0.112	-0.031	-0.062	109.540%	34.390	-0.084	0.158	108.466%	-0.030
3	15:50:57	0.221	-0.105	-0.024	-0.057	111.042%	34.500	-0.088	0.163	109.602%	-0.041
x		0.220	-0.106	-0.028	-0.068	109.193%	34.350	-0.091	0.169	108.024%	-0.042
σ		0.025	0.006	0.003	0.014	2.044%	0.181	0.009	0.015	1.838%	0.012
%RSD		11.400	5.940	12.320	21.280	1.872	0.526	9.974	8.912	1.702	28.890
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:50:51	0.141	-0.048	-0.066	103.524%	-0.065					
2	15:50:54	0.112	-0.047	-0.068	106.745%	-0.065					
3	15:50:57	0.116	-0.043	-0.068	107.252%	-0.064					
x		0.123	-0.046	-0.067	105.841%	-0.065					
σ		0.016	0.003	0.001	2.022%	0.000					
%RSD		12.690	5.437	1.530	1.910	0.756					

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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	15:58:05	97.080	98.070	99.370	5115.000	4893.000	5115.000	4897.000	5460.000	113.800	1545000.000
2	15:58:09	97.830	98.820	96.530	5096.000	4936.000	5072.000	4817.000	5479.000	98.990	1496000.000
3	15:58:13	96.790	99.340	94.800	5073.000	4908.000	5043.000	4832.000	5463.000	95.910	1495000.000
x		97.240	98.740	96.900	5095.000	4912.000	5077.000	4849.000	5467.000	102.900	1512000.000
σ		0.539	0.640	2.306	20.630	21.440	36.230	42.600	10.300	9.575	28350.000
%RSD		0.554	0.649	2.379	0.405	0.436	0.714	0.878	0.188	9.304	1.875
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	15:58:05	5124.000	5119.000	107.818%	106.945%	100.200	101.300	102.000	22.260	5093.000	101.700
2	15:58:09	5059.000	4902.000	111.197%	106.764%	99.530	100.500	101.000	21.560	5053.000	101.000
3	15:58:13	5101.000	4927.000	110.927%	107.543%	99.620	100.900	101.300	23.140	5069.000	101.600
x		5094.000	4983.000	109.980%	107.084%	99.780	100.900	101.400	22.320	5072.000	101.400
σ		33.250	118.600	1.878%	0.407%	0.345	0.428	0.509	0.791	20.230	0.407
%RSD		0.653	2.380	1.707	0.380	0.346	0.425	0.502	3.544	0.399	0.401
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:58:05	103.500	103.700	106.100	107.000	107.907%	105.400	102.500	101.500	104.865%	100.600
2	15:58:09	103.100	103.000	105.300	103.900	112.015%	103.700	102.200	101.100	108.785%	100.100
3	15:58:13	102.900	104.000	105.300	104.800	112.677%	104.200	102.400	100.600	109.135%	99.770
x		103.100	103.600	105.500	105.200	110.866%	104.500	102.300	101.100	107.595%	100.200
σ		0.296	0.481	0.461	1.570	2.584%	0.885	0.140	0.430	2.371%	0.440
%RSD		0.287	0.465	0.437	1.492	2.331	0.847	0.137	0.425	2.204	0.439
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:58:05	101.200	103.400	52.630	105.800	107.586%	105.100	105.900	101.800	106.730%	102.400
2	15:58:09	100.700	102.100	52.450	104.400	111.078%	105.100	106.400	102.400	109.959%	102.100
3	15:58:13	100.100	102.900	52.370	105.600	111.329%	105.300	107.000	102.100	110.020%	102.200
x		100.700	102.800	52.480	105.300	109.998%	105.200	106.400	102.100	108.903%	102.200
σ		0.536	0.669	0.135	0.789	2.092%	0.124	0.529	0.287	1.882%	0.123
%RSD		0.532	0.651	0.258	0.749	1.902	0.118	0.497	0.281	1.728	0.120
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	15:58:05	5.094	100.400	101.900	105.051%	99.670					
2	15:58:09	5.260	100.200	102.000	108.538%	100.100					
3	15:58:13	4.796	101.300	102.000	109.208%	99.760					
x		5.050	100.600	102.000	107.599%	99.850					
σ		0.235	0.552	0.056	2.232%	0.243					
%RSD		4.653	0.548	0.055	2.074	0.243					

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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	16:05:20	-0.002	0.036	-0.450	7.298	3.359	3.481	3.822	-2.246	101.700	1436000.000
2	16:05:24	0.005	0.022	-0.349	7.797	4.078	3.801	2.524	8.712	104.100	1419000.000
3	16:05:28	0.040	0.013	-0.158	3.678	3.314	2.560	-0.485	4.278	92.390	1425000.000
x		0.015	0.024	-0.319	6.258	3.584	3.280	1.954	3.581	99.410	1427000.000
σ		0.022	0.012	0.148	2.248	0.429	0.644	2.209	5.512	6.194	8744.000
%RSD		153.500	48.490	46.480	35.920	11.970	19.640	113.100	153.900	6.231	0.613
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	16:05:20	5.698	12.100	103.014%	102.465%	-0.025	0.084	0.069	6.215	3.245	0.036
2	16:05:24	15.130	8.118	104.735%	103.457%	0.133	-0.037	0.051	6.734	4.202	0.039
3	16:05:28	3.788	18.420	104.897%	103.850%	0.068	0.234	0.048	5.424	2.549	0.024
x		8.206	12.880	104.215%	103.257%	0.059	0.094	0.056	6.124	3.332	0.033
σ		6.074	5.196	1.043%	0.714%	0.079	0.136	0.011	0.660	0.830	0.008
%RSD		74.010	40.340	1.001	0.691	134.800	144.800	20.360	10.770	24.910	23.790
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.057	-0.049	-0.033	-0.335	104.835%	0.134	0.159	0.023	100.880%	0.030
2	16:05:24	0.064	0.007	-0.039	-0.211	104.522%	0.014	0.010	0.066	103.399%	0.028
3	16:05:28	0.038	-0.066	-0.042	-0.347	106.194%	0.094	0.020	0.015	103.458%	0.026
x		0.053	-0.036	-0.038	-0.298	105.183%	0.081	0.063	0.034	102.579%	0.028
σ		0.013	0.038	0.004	0.075	0.889%	0.061	0.084	0.027	1.472%	0.002
%RSD		25.150	105.800	11.540	25.290	0.845	75.290	132.600	79.690	1.435	7.662
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.125	-0.003	0.023	0.028	101.135%	-0.019	-0.024	0.065	100.302%	0.040
2	16:05:24	0.100	0.045	0.012	0.017	102.703%	-0.042	-0.006	0.101	102.003%	0.052
3	16:05:28	0.095	-0.001	0.005	-0.002	103.485%	-0.056	-0.063	0.041	102.584%	0.020
x		0.107	0.014	0.013	0.014	102.441%	-0.039	-0.031	0.069	101.630%	0.038
σ		0.016	0.027	0.009	0.015	1.197%	0.018	0.029	0.030	1.186%	0.016
%RSD		14.720	199.800	66.790	108.600	1.168	47.200	94.780	44.140	1.167	42.990
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:05:20	0.022	0.004	0.031	99.288%	0.037					
2	16:05:24	0.018	0.004	0.043	101.335%	0.051					
3	16:05:28	0.005	-0.024	0.011	102.279%	0.021					
x		0.015	-0.005	0.028	100.967%	0.036					
σ		0.009	0.016	0.017	1.529%	0.015					
%RSD		61.620	316.800	58.240	1.514	41.860					

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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	16:12:32	-0.037	-0.071	0.297	11490.000	3411.000	9.806	32.190	<u>M 43370.000</u>	1840.000	<u>T 1199000.000</u>
2	16:12:35	-0.048	-0.076	0.503	11640.000	3486.000	12.910	42.090	<u>M 43800.000</u>	1867.000	<u>T 1184000.000</u>
3	16:12:39	-0.045	-0.076	-0.049	11810.000	3558.000	11.750	38.000	<u>M 44540.000</u>	1865.000	<u>T 1191000.000</u>
x		-0.043	-0.074	0.251	11650.000	3485.000	11.490	37.430	<u>M 43900.000</u>	1857.000	<u>T 1191000.000</u>
σ		0.006	0.003	0.279	162.500	73.510	1.567	4.978	<u>M 594.700</u>	14.890	<u>T 7331.000</u>
%RSD		12.810	3.449	111.300	1.395	2.109	13.640	13.300	<u>M 1.355</u>	0.802	<u>T 0.615</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	16:12:32	<u>TM 36550.000</u>	1876.000	108.941%	103.943%	1.129	0.153	0.246	6.657	213.000	31.490
2	16:12:35	<u>TM 35950.000</u>	1728.000	109.121%	104.930%	-0.289	0.084	0.260	7.247	218.300	32.200
3	16:12:39	<u>TM 36270.000</u>	1789.000	110.787%	105.098%	0.100	0.243	0.231	7.076	218.200	32.580
x		<u>TM 36260.000</u>	1798.000	109.616%	104.657%	0.313	0.160	0.245	6.993	216.500	32.090
σ		<u>TM 299.400</u>	73.970	1.018%	0.624%	0.733	0.080	0.014	0.303	3.025	0.554
%RSD		<u>TM 0.826</u>	4.115	0.928	0.596	233.900	49.740	5.906	4.340	1.397	1.727
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	0.406	0.312	13.060	368.300	106.262%	1.542	15.440	1.659	104.174%	0.008
2	16:12:35	0.404	0.220	13.140	373.900	110.624%	1.544	15.040	1.681	107.002%	-0.012
3	16:12:39	0.380	0.227	13.380	374.400	112.880%	1.630	15.670	1.777	109.271%	-0.020
x		0.397	0.253	13.190	372.200	109.922%	1.572	15.380	1.706	106.816%	-0.008
σ		0.014	0.051	0.166	3.412	3.364%	0.050	0.316	0.063	2.553%	0.015
%RSD		3.549	20.270	1.258	0.917	3.061	3.177	2.056	3.678	2.391	184.900
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	0.304	-0.060	-0.025	-0.011	103.302%	35.120	-0.076	0.196	102.177%	-0.025
2	16:12:35	0.331	-0.079	-0.029	-0.009	107.450%	35.510	-0.077	0.205	105.771%	-0.029
3	16:12:39	0.317	-0.082	-0.028	-0.025	109.468%	35.060	-0.050	0.217	107.978%	-0.035
x		0.317	-0.074	-0.027	-0.015	106.740%	35.230	-0.068	0.206	105.309%	-0.030
σ		0.014	0.012	0.002	0.009	3.144%	0.245	0.016	0.010	2.928%	0.005
%RSD		4.358	15.750	6.944	57.420	2.945	0.694	23.100	5.066	2.781	16.890
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:12:32	0.364	-0.013	-0.010	100.252%	-0.037					
2	16:12:35	0.408	-0.023	-0.013	104.051%	-0.043					
3	16:12:39	0.444	-0.026	-0.016	106.123%	-0.047					
x		0.405	-0.021	-0.013	103.475%	-0.042					
σ		0.040	0.007	0.003	2.978%	0.005					
%RSD		9.913	33.710	22.970	2.878	11.550					

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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	16:19:47	-0.072	-0.076	-0.555	10750.000	3065.000	6.413	35.630	M 42200.000	1768.000	T 1326000.000
2	16:19:51	-0.060	-0.068	-0.495	10620.000	3038.000	4.888	30.120	M 42040.000	1751.000	T 1293000.000
3	16:19:54	-0.066	-0.084	-0.774	10780.000	3070.000	6.480	38.760	M 43550.000	1786.000	T 1330000.000
x		-0.066	-0.076	-0.608	10720.000	3058.000	5.927	34.840	M 42600.000	1768.000	T 1316000.000
σ		0.006	0.008	0.147	86.350	17.080	0.900	4.374	M 830.100	17.610	T 20280.000
%RSD		9.119	10.560	24.140	0.806	0.559	15.190	12.560	M 1.949	0.996	T 1.540
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	16:19:47	TM 33750.000	1089.000	109.782%	108.426%	-0.101	0.113	0.149	8.410	230.600	43.430
2	16:19:51	TM 33000.000	1205.000	112.158%	108.584%	0.581	0.260	0.207	8.105	234.100	44.210
3	16:19:54	TM 33690.000	1175.000	111.806%	108.385%	0.486	0.360	0.172	7.725	232.100	44.220
x		TM 33480.000	1156.000	111.249%	108.465%	0.322	0.245	0.176	8.080	232.300	43.950
σ		TM 417.500	60.110	1.282%	0.105%	0.370	0.124	0.029	0.343	1.749	0.450
%RSD		TM 1.247	5.199	1.153	0.097	114.700	50.840	16.590	4.247	0.753	1.023
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:19:47	0.411	0.082	14.700	378.200	111.104%	1.925	10.330	1.375	107.792%	-0.056
2	16:19:51	0.359	0.159	14.880	383.400	113.921%	2.036	10.150	1.427	110.180%	-0.047
3	16:19:54	0.406	0.104	14.700	386.400	115.369%	1.984	10.730	1.390	110.696%	-0.049
x		0.393	0.115	14.760	382.700	113.465%	1.982	10.400	1.397	109.556%	-0.051
σ		0.029	0.039	0.101	4.161	2.168%	0.056	0.293	0.027	1.549%	0.005
%RSD		7.303	34.120	0.685	1.087	1.911	2.817	2.813	1.915	1.414	9.543
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:19:47	0.227	-0.093	-0.025	-0.044	106.943%	33.690	-0.049	0.138	105.721%	-0.061
2	16:19:51	0.216	-0.096	-0.017	-0.049	110.927%	33.610	-0.041	0.118	109.474%	-0.061
3	16:19:54	0.251	-0.121	-0.024	-0.057	111.703%	33.720	-0.074	0.142	110.446%	-0.063
x		0.231	-0.103	-0.022	-0.050	109.857%	33.670	-0.055	0.132	108.547%	-0.062
σ		0.018	0.015	0.004	0.007	2.554%	0.061	0.017	0.013	2.495%	0.001
%RSD		7.716	14.950	18.240	14.000	2.325	0.180	30.900	9.663	2.299	1.410
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:19:47	0.193	-0.027	-0.015	104.394%	-0.059					
2	16:19:51	0.254	-0.025	-0.013	107.775%	-0.056					
3	16:19:54	0.296	-0.026	-0.014	108.462%	-0.056					
x		0.248	-0.026	-0.014	106.877%	-0.057					
σ		0.052	0.001	0.001	2.177%	0.002					
%RSD		20.850	3.635	6.609	2.037	2.691					

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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	16:27:02	-0.042	-0.092	-0.552	<u>16740.000</u>	2388.000	16.310	38.090	<u>M40860.000</u>	1729.000	<u>T1207000.000</u>
2	16:27:05	-0.063	-0.088	-0.585	<u>T16700.000</u>	2436.000	17.910	38.200	<u>M41940.000</u>	1779.000	<u>T1216000.000</u>
3	16:27:09	-0.061	-0.080	-0.836	<u>T16660.000</u>	2402.000	17.020	33.240	<u>M41930.000</u>	1764.000	<u>T1215000.000</u>
x		-0.055	-0.087	-0.658	<u>T16700.000</u>	2409.000	17.080	36.510	<u>M41580.000</u>	1757.000	<u>T1213000.000</u>
σ		0.012	0.006	0.155	<u>T39.890</u>	24.430	0.799	2.831	<u>M617.400</u>	25.880	<u>T5026.000</u>
%RSD		21.260	7.198	23.600	<u>T0.239</u>	1.014	4.678	7.753	<u>M1.485</u>	1.473	<u>T0.414</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	16:27:02	<u>TM28240.000</u>	1269.000	105.746%	105.361%	0.204	1.751	0.211	6.967	1647.000	21.850
2	16:27:05	<u>TM28570.000</u>	1189.000	107.516%	105.503%	0.050	1.831	0.171	7.056	1666.000	22.030
3	16:27:09	<u>TM28540.000</u>	1153.000	108.234%	106.539%	0.035	1.895	0.209	6.115	1683.000	21.890
x		<u>TM28450.000</u>	1204.000	107.165%	105.801%	0.096	1.826	0.197	6.713	1665.000	21.930
σ		<u>TM181.300</u>	59.500	1.280%	0.643%	0.093	0.072	0.023	0.519	17.770	0.095
%RSD		<u>TM0.637</u>	4.943	1.195	0.608	96.920	3.928	11.520	7.739	1.067	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	16:27:02	0.995	0.320	25.830	233.300	106.728%	1.657	12.630	0.953	103.389%	-0.056
2	16:27:05	1.046	0.206	26.200	233.200	110.219%	1.700	11.710	1.019	106.684%	-0.061
3	16:27:09	1.082	0.207	26.230	234.300	111.632%	1.579	12.410	0.921	107.583%	-0.064
x		1.041	0.244	26.090	233.600	109.526%	1.646	12.250	0.964	105.885%	-0.060
σ		0.044	0.065	0.225	0.612	2.524%	0.061	0.481	0.050	2.209%	0.004
%RSD		4.191	26.810	0.862	0.262	2.305	3.736	3.927	5.191	2.086	7.057
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:27:02	1.840	-0.098	-0.036	4.288	103.519%	36.690	-0.112	0.027	103.685%	-0.061
2	16:27:05	1.715	-0.068	-0.024	4.289	107.319%	36.460	-0.100	-0.005	106.486%	-0.056
3	16:27:09	1.734	-0.111	-0.021	4.461	107.838%	36.690	-0.112	0.009	107.100%	-0.057
x		1.763	-0.092	-0.027	4.346	106.225%	36.610	-0.108	0.011	105.757%	-0.058
σ		0.067	0.022	0.008	0.100	2.358%	0.133	0.007	0.016	1.821%	0.003
%RSD		3.807	23.990	29.020	2.295	2.220	0.363	6.293	152.300	1.721	5.017
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:27:02	1.294	0.147	-0.024	101.957%	-0.057					
2	16:27:05	1.305	0.146	-0.023	105.117%	-0.054					
3	16:27:09	1.250	0.150	-0.021	105.162%	-0.057					
x		1.283	0.147	-0.023	104.079%	-0.056					
σ		0.029	0.002	0.001	1.838%	0.002					
%RSD		2.259	1.389	5.775	1.766	3.182					

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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	16:34:16	-0.073	-0.084	-0.567	13540.000	2378.000	15.140	35.950	<u>M 40610.000</u>	1700.000	<u>T 1270000.000</u>
2	16:34:20	-0.065	-0.076	-0.864	13390.000	2355.000	13.300	31.250	<u>M 40050.000</u>	1699.000	<u>T 1236000.000</u>
3	16:34:24	-0.063	-0.084	-0.665	13510.000	2339.000	11.730	33.810	<u>M 39730.000</u>	1697.000	<u>T 1234000.000</u>
x		-0.067	-0.081	-0.699	13480.000	2357.000	13.390	33.670	<u>M 40130.000</u>	1699.000	<u>T 1247000.000</u>
σ		0.005	0.005	0.152	82.010	19.690	1.707	2.353	<u>M 445.500</u>	1.678	<u>T 20310.000</u>
%RSD		7.808	6.063	21.690	0.608	0.835	12.740	6.988	<u>M 1.110</u>	0.099	<u>T 1.629</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	16:34:16	<u>TM 30280.000</u>	1101.000	104.959%	105.265%	0.393	1.030	0.167	6.418	1064.000	21.360
2	16:34:20	<u>TM 29490.000</u>	1112.000	109.152%	104.317%	-0.356	0.972	0.224	6.849	1056.000	21.360
3	16:34:24	<u>TM 29540.000</u>	1072.000	109.347%	105.485%	-0.344	1.062	0.200	6.805	1075.000	21.720
x		<u>TM 29770.000</u>	1095.000	107.819%	105.022%	-0.102	1.021	0.197	6.691	1065.000	21.480
σ		<u>TM 439.500</u>	20.950	2.479%	0.620%	0.429	0.045	0.029	0.237	9.172	0.205
%RSD		<u>TM 1.476</u>	1.913	2.299	0.591	420.000	4.434	14.560	3.544	0.861	0.957
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:16	0.608	0.141	15.140	213.200	108.205%	1.774	11.560	0.769	103.848%	-0.051
2	16:34:20	0.633	0.148	15.050	214.900	111.534%	1.797	11.880	0.772	107.312%	-0.061
3	16:34:24	0.653	0.178	15.330	214.800	111.944%	1.703	12.730	0.828	107.402%	-0.045
x		0.631	0.156	15.170	214.300	110.561%	1.758	12.050	0.790	106.187%	-0.052
σ		0.023	0.020	0.141	0.985	2.050%	0.049	0.605	0.033	2.026%	0.008
%RSD		3.577	12.780	0.926	0.460	1.855	2.794	5.020	4.205	1.908	16.070
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:16	1.767	-0.099	-0.048	3.215	103.918%	35.070	-0.106	-0.000	103.372%	-0.055
2	16:34:20	1.878	-0.137	-0.039	3.201	107.793%	35.040	-0.100	0.011	106.619%	-0.052
3	16:34:24	1.767	-0.125	-0.044	3.067	108.764%	35.190	-0.094	-0.006	108.167%	-0.065
x		1.804	-0.120	-0.043	3.161	106.825%	35.100	-0.100	0.002	106.053%	-0.057
σ		0.064	0.019	0.004	0.082	2.564%	0.078	0.006	0.009	2.447%	0.007
%RSD		3.544	16.050	10.120	2.585	2.400	0.223	5.748	491.600	2.308	11.540
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:34:16	1.185	0.128	-0.044	100.725%	-0.061					
2	16:34:20	1.131	0.111	-0.040	104.929%	-0.059					
3	16:34:24	1.216	0.116	-0.046	106.397%	-0.060					
x		1.177	0.118	-0.044	104.017%	-0.060					
σ		0.043	0.009	0.003	2.944%	0.001					
%RSD		3.648	7.242	6.881	2.830	1.754					

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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	16:41:29	-0.069	-0.088	-0.621	<u>17060.000</u>	2415.000	16.960	32.870	<u>M43740.000</u>	1678.000	<u>1229000.000</u>
2	16:41:33	-0.066	-0.084	-0.517	<u>16970.000</u>	2443.000	19.030	34.000	<u>M44530.000</u>	1742.000	<u>1217000.000</u>
3	16:41:37	-0.065	-0.080	-0.699	<u>16800.000</u>	2443.000	18.740	35.530	<u>M43890.000</u>	1684.000	<u>1215000.000</u>
x		-0.067	-0.084	-0.612	<u>16940.000</u>	2434.000	18.240	34.130	<u>M44050.000</u>	1701.000	<u>1220000.000</u>
σ		0.002	0.004	0.091	<u>130.800</u>	16.060	1.120	1.334	<u>M415.900</u>	35.120	<u>17342.000</u>
%RSD		2.603	4.882	14.900	<u>10.772</u>	0.660	6.141	3.907	<u>M0.944</u>	2.064	<u>10.602</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	16:41:29	<u>TM29640.000</u>	1370.000	105.899%	104.367%	0.411	1.171	0.256	6.751	770.700	22.620
2	16:41:33	<u>TM29430.000</u>	1336.000	107.254%	105.150%	0.276	1.173	0.309	6.730	778.900	22.570
3	16:41:37	<u>TM29260.000</u>	1332.000	108.382%	105.588%	-0.155	1.018	0.243	7.066	769.100	22.550
x		<u>TM29450.000</u>	1346.000	107.178%	105.035%	0.177	1.120	0.269	6.849	772.900	22.580
σ		<u>TM192.000</u>	20.920	1.243%	0.619%	0.296	0.089	0.035	0.189	5.256	0.039
%RSD		<u>TM0.652</u>	1.554	1.160	0.589	166.700	7.940	13.000	2.752	0.680	0.173
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:29	0.727	0.155	13.940	218.200	107.930%	1.857	13.090	0.805	104.602%	-0.065
2	16:41:33	0.731	0.189	13.870	219.600	110.129%	2.053	12.380	0.843	106.614%	-0.051
3	16:41:37	0.777	0.169	13.970	218.800	110.227%	1.905	12.590	0.795	107.450%	-0.066
x		0.745	0.171	13.920	218.900	109.428%	1.938	12.690	0.815	106.222%	-0.061
σ		0.028	0.017	0.050	0.738	1.299%	0.102	0.363	0.025	1.464%	0.009
%RSD		3.730	9.996	0.356	0.337	1.187	5.269	2.859	3.127	1.378	13.980
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:29	1.651	-0.087	-0.049	4.149	104.697%	34.170	-0.093	0.023	103.685%	-0.050
2	16:41:33	1.611	-0.104	-0.053	3.849	106.927%	34.610	-0.106	0.006	106.045%	-0.048
3	16:41:37	1.669	-0.132	-0.055	4.209	107.304%	35.300	-0.094	0.007	107.008%	-0.041
x		1.644	-0.108	-0.052	4.069	106.309%	34.690	-0.098	0.012	105.579%	-0.046
σ		0.030	0.022	0.004	0.193	1.409%	0.574	0.007	0.009	1.710%	0.005
%RSD		1.801	20.850	6.768	4.735	1.325	1.654	7.140	77.620	1.619	10.010
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:41:29	1.397	0.267	0.017	102.161%	-0.059					
2	16:41:33	1.345	0.281	0.014	104.501%	-0.059					
3	16:41:37	1.262	0.267	0.018	105.197%	-0.059					
x		1.335	0.272	0.016	103.953%	-0.059					
σ		0.068	0.008	0.002	1.591%	0.000					
%RSD		5.093	3.003	12.660	1.530	0.601					

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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	16:48:44	-0.062	-0.079	-0.661	12080.000	2457.000	15.170	37.250	<u>M 43990.000</u>	1718.000	<u>T 1295000.000</u>
2	16:48:47	-0.066	-0.084	-0.664	12220.000	2456.000	13.230	35.290	<u>M 44430.000</u>	1774.000	<u>T 1284000.000</u>
3	16:48:51	-0.070	-0.097	-0.910	12060.000	2463.000	11.340	34.980	<u>M 44950.000</u>	1733.000	<u>T 1276000.000</u>
x		-0.066	-0.087	-0.745	<u>12120.000</u>	<u>2458.000</u>	<u>13.250</u>	<u>35.840</u>	<u>M 44460.000</u>	<u>1742.000</u>	<u>T 1285000.000</u>
σ		0.004	0.009	0.143	85.600	3.750	1.915	1.228	<u>M 480.900</u>	28.980	<u>T 9570.000</u>
%RSD		6.240	10.280	19.150	0.706	0.153	14.450	3.426	<u>M 1.082</u>	1.664	<u>T 0.745</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	16:48:44	<u>TM 35670.000</u>	947.800	105.009%	102.081%	0.167	1.286	0.160	6.406	873.700	20.700
2	16:48:47	<u>TM 35570.000</u>	992.300	106.564%	103.868%	-0.113	1.217	0.204	6.674	890.500	20.820
3	16:48:51	<u>TM 35610.000</u>	947.500	110.053%	103.976%	-0.055	1.300	0.204	6.546	874.700	20.770
x		<u>TM 35620.000</u>	962.500	107.209%	103.308%	-0.000	1.268	0.190	6.542	879.600	20.760
σ		<u>TM 52.660</u>	25.800	2.583%	1.064%	0.147	0.045	0.026	0.134	9.445	0.058
%RSD		<u>TM 0.148</u>	2.681	2.409	1.030	35030.000	3.522	13.670	2.047	1.074	0.278
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:48:44	0.665	0.208	16.380	221.800	105.627%	2.108	12.500	0.798	103.473%	-0.057
2	16:48:47	0.673	0.174	16.560	218.700	107.681%	2.237	12.160	0.827	105.423%	-0.053
3	16:48:51	0.673	0.163	16.480	217.600	110.926%	2.116	11.980	0.875	107.772%	-0.060
x		0.670	0.182	16.480	219.400	108.078%	2.154	12.210	0.833	105.556%	-0.057
σ		0.004	0.024	0.092	2.168	2.672%	0.072	0.269	0.039	2.153%	0.004
%RSD		0.658	12.950	0.556	0.988	2.472	3.363	2.199	4.696	2.039	6.604
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:48:44	1.740	-0.104	-0.038	3.104	104.015%	34.700	-0.124	0.023	102.832%	-0.039
2	16:48:47	1.742	-0.056	-0.048	2.975	106.317%	35.000	-0.097	0.021	105.177%	-0.054
3	16:48:51	1.636	-0.128	-0.036	3.205	107.797%	34.950	-0.086	0.038	106.321%	-0.054
x		1.706	-0.096	-0.041	3.095	106.043%	34.880	-0.103	0.027	104.777%	-0.049
σ		0.061	0.036	0.006	0.116	1.906%	0.164	0.019	0.009	1.779%	0.009
%RSD		3.554	37.990	15.620	3.733	1.797	0.470	18.890	33.740	1.698	17.730
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:48:44	1.135	0.264	-0.033	101.626%	-0.059					
2	16:48:47	1.223	0.268	-0.033	103.771%	-0.059					
3	16:48:51	1.011	0.243	-0.028	105.157%	-0.060					
x		1.123	0.259	-0.031	103.518%	-0.059					
σ		0.106	0.014	0.003	1.779%	0.001					
%RSD		9.463	5.268	8.202	1.719	1.248					

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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	16:55:58	-0.069	-0.088	-0.449	12240.000	2544.000	93.250	38.910	<u>M 44560.000</u>	1840.000	<u>T 1245000.000</u>
2	16:56:02	-0.067	-0.092	0.119	12130.000	2600.000	92.750	33.310	<u>M 44690.000</u>	1849.000	<u>T 1243000.000</u>
3	16:56:06	-0.073	-0.084	-0.914	12150.000	2554.000	92.220	41.620	<u>M 43890.000</u>	1803.000	<u>T 1220000.000</u>
x		-0.069	-0.088	-0.415	12180.000	2566.000	92.740	37.950	<u>M 44380.000</u>	1831.000	<u>T 1236000.000</u>
σ		0.003	0.004	0.517	59.180	29.770	0.516	4.237	<u>M 430.300</u>	24.590	<u>T 13660.000</u>
%RSD		4.653	4.653	124.700	0.486	1.160	0.556	11.170	<u>M 0.970</u>	1.343	<u>T 1.105</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	16:55:58	<u>TM 36470.000</u>	723.300	106.518%	104.917%	0.483	2.085	0.141	6.714	813.700	22.530
2	16:56:02	<u>TM 36200.000</u>	787.900	110.501%	105.634%	0.679	2.064	0.188	6.713	812.000	22.080
3	16:56:06	<u>TM 35680.000</u>	741.200	110.869%	106.372%	0.799	2.090	0.199	7.111	808.200	22.830
x		<u>TM 36120.000</u>	750.800	109.296%	105.641%	0.653	2.080	0.176	6.846	811.300	22.480
σ		<u>TM 401.600</u>	33.350	2.413%	0.727%	0.160	0.014	0.031	0.230	2.848	0.381
%RSD		<u>TM 1.112</u>	4.442	2.208	0.689	24.420	0.667	17.400	3.354	0.351	1.696
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:58	0.890	0.152	14.580	222.800	108.371%	2.017	19.130	0.576	104.121%	-0.071
2	16:56:02	0.897	0.176	14.950	225.200	112.307%	1.973	20.210	0.609	108.772%	-0.075
3	16:56:06	0.899	0.171	15.070	224.600	111.630%	1.989	20.180	0.618	109.577%	-0.066
x		0.895	0.166	14.870	224.200	110.769%	1.993	19.840	0.601	107.490%	-0.071
σ		0.005	0.012	0.256	1.240	2.104%	0.022	0.614	0.022	2.945%	0.005
%RSD		0.522	7.427	1.719	0.553	1.900	1.110	3.096	3.636	2.740	6.513
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:58	1.845	-0.104	-0.038	6.044	104.389%	34.970	-0.111	-0.007	104.296%	-0.062
2	16:56:02	1.872	-0.079	-0.057	6.086	109.037%	35.030	-0.092	0.010	107.408%	-0.056
3	16:56:06	1.931	-0.076	-0.049	5.880	109.212%	34.730	-0.086	0.048	109.092%	-0.064
x		1.883	-0.086	-0.048	6.003	107.546%	34.910	-0.096	0.017	106.932%	-0.060
σ		0.044	0.016	0.010	0.109	2.735%	0.156	0.013	0.028	2.433%	0.004
%RSD		2.348	18.060	20.190	1.811	2.543	0.447	13.510	163.700	2.276	6.664
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	16:55:58	2.593	0.294	-0.017	101.027%	-0.051					
2	16:56:02	2.879	0.300	-0.021	104.757%	-0.049					
3	16:56:06	2.829	0.307	-0.020	106.476%	-0.052					
x		2.767	0.300	-0.019	104.087%	-0.051					
σ		0.153	0.006	0.002	2.785%	0.002					
%RSD		5.510	2.095	11.830	2.676	3.139					

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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	17:03:12	-0.070	-0.092	-0.617	14860.000	2214.000	16.740	41.120	<u>M37370.000</u>	1514.000	<u>T1309000.000</u>
2	17:03:15	-0.076	-0.092	-0.626	<u>T15460.000</u>	2241.000	15.920	35.350	<u>M37450.000</u>	1540.000	<u>T1285000.000</u>
3	17:03:19	-0.074	-0.076	-0.663	14890.000	2243.000	14.780	37.030	<u>M37260.000</u>	1595.000	<u>T1284000.000</u>
x		-0.074	-0.087	-0.635	<u>T15070.000</u>	2233.000	15.810	37.830	<u>M37360.000</u>	1550.000	<u>T1293000.000</u>
σ		0.003	0.010	0.024	<u>T339.400</u>	16.310	0.988	2.967	<u>M97.560</u>	41.040	<u>T14130.000</u>
%RSD		4.175	11.080	3.787	<u>T2.252</u>	0.730	6.249	7.841	<u>M0.261</u>	2.649	<u>T1.093</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	17:03:12	<u>TM29360.000</u>	1163.000	107.283%	105.492%	0.495	1.506	0.188	6.999	1282.000	17.430
2	17:03:15	<u>TM28710.000</u>	1318.000	107.139%	104.805%	0.337	1.634	0.183	6.983	1301.000	17.720
3	17:03:19	<u>TM28910.000</u>	1227.000	108.155%	105.217%	0.106	1.695	0.176	6.952	1279.000	17.400
x		<u>TM29000.000</u>	1236.000	107.526%	105.171%	0.313	1.612	0.182	6.978	1287.000	17.520
σ		<u>TM334.500</u>	77.670	0.550%	0.346%	0.196	0.097	0.006	0.024	12.040	0.174
%RSD		<u>TM1.154</u>	6.284	0.511	0.329	62.620	6.002	3.455	0.344	0.936	0.994
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:12	0.776	0.159	29.570	207.600	107.395%	1.863	14.520	0.998	105.301%	-0.073
2	17:03:15	0.769	0.185	29.420	209.000	108.967%	1.920	14.100	0.935	107.287%	-0.076
3	17:03:19	0.784	0.243	29.170	205.600	111.466%	1.895	13.630	0.988	107.460%	-0.062
x		0.776	0.196	29.390	207.400	109.276%	1.892	14.080	0.974	106.683%	-0.070
σ		0.008	0.044	0.203	1.728	2.053%	0.029	0.443	0.034	1.199%	0.007
%RSD		1.002	22.270	0.692	0.833	1.879	1.521	3.147	3.448	1.124	10.280
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:03:12	1.541	-0.080	-0.017	5.831	105.187%	34.090	-0.115	0.005	103.773%	-0.052
2	17:03:15	1.535	-0.122	-0.025	5.890	106.117%	34.420	-0.112	0.006	106.108%	-0.061
3	17:03:19	1.501	-0.122	-0.019	6.009	107.849%	34.490	-0.107	0.015	106.929%	-0.060
x		1.526	-0.108	-0.020	5.910	106.384%	34.330	-0.111	0.009	105.603%	-0.058
σ		0.022	0.024	0.005	0.090	1.351%	0.211	0.004	0.005	1.638%	0.005
%RSD		1.423	22.610	22.550	1.529	1.270	0.614	3.643	60.840	1.551	9.066
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:03:12	1.780	0.178	-0.006	101.479%	-0.056					
2	17:03:15	1.883	0.172	-0.017	104.403%	-0.058					
3	17:03:19	1.641	0.172	-0.015	105.479%	-0.059					
x		1.768	0.174	-0.013	103.787%	-0.058					
σ		0.121	0.004	0.006	2.070%	0.001					
%RSD		6.868	2.149	44.500	1.994	2.190					

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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	17:10:25	-0.000	-0.075	-0.602	5131.000	2259.000	13.210	28.960	21020.000	1277.000	1305000.000
2	17:10:28	-0.015	-0.097	-0.680	5126.000	2269.000	11.010	24.180	20590.000	1268.000	1284000.000
3	17:10:32	-0.022	-0.088	-0.689	5159.000	2261.000	13.120	28.600	21010.000	1302.000	1289000.000
x		-0.013	-0.087	-0.657	5139.000	2263.000	12.450	27.240	20870.000	1282.000	1293000.000
σ		0.011	0.011	0.048	17.510	5.191	1.244	2.659	243.500	17.770	10700.000
%RSD		87.550	12.410	7.291	0.341	0.229	9.994	9.759	1.167	1.386	0.828
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	17:10:25	TM 36800.000	1046.000	106.637%	102.710%	0.508	-0.041	0.339	7.270	44.540	2.017
2	17:10:28	TM 36240.000	1160.000	106.618%	103.853%	-0.136	0.088	0.310	7.248	46.150	2.148
3	17:10:32	TM 36200.000	1010.000	107.530%	104.667%	0.274	-0.158	0.301	8.463	45.990	2.120
x		TM 36410.000	1072.000	106.928%	103.744%	0.216	-0.037	0.317	7.660	45.560	2.095
σ		TM 337.400	78.220	0.521%	0.983%	0.326	0.123	0.020	0.695	0.887	0.069
%RSD		TM 0.927	7.296	0.487	0.947	151.100	336.300	6.330	9.071	1.947	3.283
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:10:25	-0.002	0.230	2.867	77.600	104.851%	0.038	2.097	0.618	103.487%	-0.063
2	17:10:28	-0.003	0.233	2.743	77.910	107.499%	-0.042	2.158	0.607	105.014%	-0.066
3	17:10:32	0.007	0.275	2.749	79.950	107.592%	0.063	2.396	0.659	105.740%	-0.059
x		0.001	0.246	2.786	78.490	106.648%	0.020	2.217	0.628	104.747%	-0.063
σ		0.006	0.025	0.070	1.280	1.556%	0.055	0.158	0.028	1.150%	0.003
%RSD		677.200	10.120	2.505	1.631	1.459	275.800	7.122	4.426	1.098	4.926
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:10:25	0.011	-0.119	-0.047	-0.098	103.901%	36.160	-0.114	0.015	102.955%	-0.056
2	17:10:28	0.008	-0.111	-0.051	-0.092	105.218%	35.600	-0.115	0.026	104.719%	-0.060
3	17:10:32	-0.004	-0.119	-0.045	-0.093	106.595%	36.000	-0.098	0.037	105.763%	-0.058
x		0.005	-0.116	-0.048	-0.094	105.238%	35.920	-0.109	0.026	104.479%	-0.058
σ		0.008	0.005	0.003	0.003	1.347%	0.286	0.010	0.011	1.419%	0.002
%RSD		169.000	4.021	6.601	3.452	1.280	0.798	8.750	42.700	1.359	3.098
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:10:25	0.562	-0.148	-0.045	100.668%	-0.067					
2	17:10:28	0.562	-0.143	-0.047	103.061%	-0.068					
3	17:10:32	0.462	-0.142	-0.046	103.922%	-0.068					
x		0.528	-0.144	-0.046	102.551%	-0.068					
σ		0.058	0.003	0.001	1.686%	0.000					
%RSD		10.910	2.269	2.989	1.644	0.427					

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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	17:17:37	47.100	48.510	99.250	<u>16410.000</u>	13510.000	2544.000	279.200	<u>M33990.000</u>	1495.000	<u>T1426000.000</u>
2	17:17:41	46.960	48.810	99.920	<u>T16010.000</u>	13520.000	2533.000	280.800	<u>M33950.000</u>	1553.000	<u>T1408000.000</u>
3	17:17:44	47.410	48.740	101.600	<u>T16080.000</u>	13510.000	2543.000	292.500	<u>M34300.000</u>	1475.000	<u>T1404000.000</u>
x		47.160	48.690	100.300	<u>T16170.000</u>	13510.000	2540.000	284.200	<u>M34080.000</u>	1508.000	<u>T1413000.000</u>
σ		0.233	0.159	1.233	<u>T209.200</u>	4.926	5.994	7.255	<u>M192.400</u>	40.650	<u>T11540.000</u>
%RSD		0.494	0.326	1.230	<u>T1.294</u>	0.036	0.236	2.553	<u>M0.565</u>	2.696	<u>T0.817</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	17:17:37	<u>TM106000.000</u>	3111.000	114.775%	114.919%	51.080	51.250	50.550	16.820	2626.000	51.660
2	17:17:41	<u>TM104500.000</u>	3045.000	116.835%	114.850%	49.630	51.990	51.040	14.430	2646.000	52.080
3	17:17:44	<u>TM103900.000</u>	3045.000	116.670%	115.576%	50.340	51.220	50.780	16.350	2649.000	51.770
x		<u>TM104800.000</u>	3067.000	116.093%	115.115%	50.350	51.490	50.790	15.870	2640.000	51.840
σ		<u>TM1069.000</u>	38.050	1.144%	0.401%	0.721	0.437	0.240	1.265	12.520	0.221
%RSD		<u>TM1.021</u>	1.241	0.986	0.348	1.432	0.849	0.473	7.971	0.474	0.427
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:37	51.840	51.490	56.100	291.600	112.620%	54.070	56.440	50.900	110.444%	12.340
2	17:17:41	51.930	51.510	56.050	297.500	114.321%	54.930	58.210	51.890	112.565%	12.210
3	17:17:44	51.880	51.800	56.170	297.500	115.465%	55.190	58.240	51.850	113.112%	12.050
x		51.880	51.600	56.110	295.500	114.135%	54.730	57.630	51.550	112.040%	12.200
σ		0.045	0.172	0.061	3.407	1.432%	0.588	1.032	0.560	1.409%	0.148
%RSD		0.087	0.334	0.109	1.153	1.254	1.074	1.791	1.086	1.258	1.218
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:37	49.170	-0.094	26.630	54.610	108.749%	76.180	56.860	51.860	109.000%	-0.055
2	17:17:41	49.440	-0.092	26.370	53.850	112.298%	76.670	56.600	52.600	111.960%	-0.068
3	17:17:44	49.480	-0.061	26.410	54.620	113.077%	76.340	57.210	51.960	111.937%	-0.054
x		49.360	-0.082	26.470	54.360	111.375%	76.400	56.890	52.140	110.965%	-0.059
σ		0.172	0.018	0.138	0.445	2.307%	0.247	0.310	0.405	1.702%	0.008
%RSD		0.349	22.230	0.522	0.819	2.071	0.324	0.544	0.778	1.534	13.170
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:17:37	1.076	51.070	51.820	101.037%	53.140					
2	17:17:41	0.956	51.100	51.890	104.430%	52.520					
3	17:17:44	0.990	50.930	51.570	105.241%	52.630					
x		1.007	51.030	51.760	103.569%	52.760					
σ		0.062	0.089	0.171	2.230%	0.330					
%RSD		6.127	0.174	0.331	2.153	0.625					

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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	17:24:49	97.210	100.200	96.260	5072.000	4867.000	5076.000	4903.000	5438.000	104.600	1533000.000
2	17:24:53	95.640	97.880	98.250	5037.000	4950.000	5079.000	4886.000	5380.000	95.520	1500000.000
3	17:24:56	96.210	96.750	97.830	5107.000	4977.000	5058.000	4865.000	5429.000	94.200	1493000.000
x		96.350	98.260	97.450	5072.000	4931.000	5071.000	4885.000	5416.000	98.100	1509000.000
σ		0.797	1.740	1.048	35.290	57.170	11.600	19.420	31.580	5.655	21410.000
%RSD		0.827	1.770	1.076	0.696	1.159	0.229	0.398	0.583	5.765	1.419
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	17:24:49	5078.000	5049.000	104.750%	103.169%	99.760	102.200	102.400	20.290	5104.000	101.600
2	17:24:53	5049.000	4955.000	107.526%	104.424%	100.500	99.830	101.100	24.980	5117.000	102.500
3	17:24:56	5076.000	4885.000	107.915%	104.249%	96.360	100.400	102.900	21.650	5100.000	101.700
x		5068.000	4963.000	106.730%	103.947%	98.880	100.800	102.200	22.310	5107.000	101.900
σ		16.130	82.010	1.726%	0.680%	2.216	1.227	0.938	2.413	8.719	0.495
%RSD		0.318	1.653	1.617	0.654	2.241	1.217	0.918	10.820	0.171	0.485
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:49	104.300	105.000	106.000	105.500	106.273%	104.300	101.700	101.200	102.497%	101.500
2	17:24:53	103.500	104.800	106.000	105.100	109.791%	105.000	104.000	101.400	105.283%	101.900
3	17:24:56	103.500	104.500	106.400	106.700	109.110%	105.000	105.000	101.700	106.067%	101.000
x		103.800	104.800	106.200	105.800	108.391%	104.800	103.600	101.400	104.616%	101.500
σ		0.469	0.225	0.224	0.833	1.866%	0.396	1.694	0.252	1.877%	0.452
%RSD		0.452	0.215	0.211	0.788	1.722	0.378	1.636	0.249	1.794	0.445
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:24:49	101.800	103.100	52.760	106.500	105.052%	105.400	107.700	102.100	104.676%	102.100
2	17:24:53	102.400	104.400	52.920	106.700	108.402%	105.000	108.400	102.000	107.683%	103.000
3	17:24:56	101.200	103.000	52.440	105.200	109.620%	104.400	106.600	101.600	108.177%	103.600
x		101.800	103.500	52.710	106.100	107.691%	104.900	107.600	101.900	106.845%	102.900
σ		0.599	0.744	0.243	0.811	2.365%	0.503	0.940	0.273	1.895%	0.769
%RSD		0.588	0.718	0.462	0.764	2.196	0.479	0.873	0.268	1.774	0.747
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:24:49	5.004	100.300	101.800	102.885%	99.430					
2	17:24:53	5.189	100.800	102.300	106.210%	100.100					
3	17:24:56	5.050	101.700	103.300	106.659%	101.600					
x		5.081	100.900	102.500	105.251%	100.400					
σ		0.096	0.671	0.761	2.062%	1.098					
%RSD		1.891	0.664	0.743	1.959	1.094					

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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	17:32:03	0.010	-0.012	-0.460	12.920	9.200	4.610	5.275	9.224	98.840	<u>1427000.000</u>
2	17:32:06	-0.008	-0.007	-0.341	9.121	6.563	3.688	1.700	3.323	89.050	<u>1416000.000</u>
3	17:32:10	0.013	-0.002	-0.219	5.415	4.907	2.773	2.981	10.490	108.000	<u>1402000.000</u>
x		0.005	-0.007	-0.340	9.153	6.890	3.690	3.319	7.678	98.640	<u>1415000.000</u>
σ		0.012	0.005	0.121	3.754	2.165	0.918	1.812	3.824	9.491	<u>12330.000</u>
%RSD		235.400	64.900	35.440	41.020	31.420	24.880	54.590	49.810	9.622	<u>10.871</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	17:32:03	31.000	22.700	100.717%	103.234%	0.113	0.138	0.112	6.051	5.285	0.100
2	17:32:06	24.680	18.490	102.915%	102.918%	-0.058	0.054	0.080	6.303	4.424	0.066
3	17:32:10	8.861	24.730	105.311%	102.490%	0.163	0.068	0.057	6.426	3.802	-0.005
x		21.520	21.970	102.981%	102.881%	0.073	0.087	0.083	6.260	4.504	0.054
σ		11.410	3.181	2.298%	0.373%	0.116	0.045	0.027	0.191	0.744	0.054
%RSD		53.010	14.480	2.231	0.363	158.900	51.970	33.010	3.053	16.530	99.470
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:03	0.087	0.043	0.032	-0.263	102.929%	0.044	0.071	0.052	99.550%	0.045
2	17:32:06	0.093	0.016	-0.018	-0.236	105.460%	0.009	0.118	0.075	101.775%	0.028
3	17:32:10	0.042	-0.050	-0.080	-0.318	104.134%	0.100	0.148	0.046	102.152%	0.021
x		0.074	0.003	-0.022	-0.272	104.174%	0.051	0.112	0.058	101.159%	0.031
σ		0.028	0.048	0.056	0.042	1.266%	0.046	0.039	0.015	1.406%	0.012
%RSD		37.750	1506.000	254.500	15.460	1.215	89.820	34.400	26.320	1.390	39.420
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:32:03	0.159	0.044	0.028	0.033	99.671%	-0.006	0.003	0.101	98.562%	0.066
2	17:32:06	0.129	0.036	0.030	0.042	101.738%	0.007	0.011	0.105	101.022%	0.065
3	17:32:10	0.103	-0.022	0.017	0.032	102.562%	-0.046	-0.046	0.061	101.754%	0.035
x		0.130	0.019	0.025	0.036	101.324%	-0.015	-0.011	0.089	100.446%	0.055
σ		0.028	0.036	0.007	0.006	1.489%	0.028	0.031	0.024	1.672%	0.018
%RSD		21.180	188.300	27.370	15.740	1.470	181.700	292.100	27.350	1.665	31.770
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:32:03	0.032	0.050	0.079	97.909%	0.080					
2	17:32:06	0.026	0.043	0.065	100.266%	0.062					
3	17:32:10	0.022	-0.011	0.018	100.319%	0.029					
x		0.027	0.027	0.054	99.498%	0.057					
σ		0.005	0.033	0.032	1.376%	0.026					
%RSD		18.080	121.100	59.400	1.383	45.070					

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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	17:39:16	-0.008	-0.065	-0.070	542.100	202.800	49.210	109.000	4712.000	155.900	1474000.000
2	17:39:19	-0.013	-0.079	0.445	543.800	209.900	48.300	104.200	4829.000	160.200	1444000.000
3	17:39:23	-0.026	-0.056	0.204	540.700	203.800	51.550	106.000	4761.000	172.600	1432000.000
x		-0.016	-0.067	0.193	542.200	205.500	49.690	106.400	4768.000	162.900	1450000.000
σ		0.010	0.011	0.258	1.557	3.820	1.678	2.414	58.560	8.705	21650.000
%RSD		60.080	17.030	133.600	0.287	1.859	3.376	2.269	1.228	5.344	1.493
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	17:39:16	1422.000	9135.000	92.924%	96.579%	1.037	0.087	0.083	6.570	81.740	22.850
2	17:39:19	1408.000	9030.000	92.077%	97.833%	0.424	0.048	0.081	6.017	82.820	22.740
3	17:39:23	1420.000	8903.000	92.140%	97.707%	0.937	0.039	0.113	5.993	81.430	22.880
x		1417.000	9023.000	92.380%	97.373%	0.800	0.058	0.092	6.193	82.000	22.820
σ		7.463	116.200	0.472%	0.691%	0.329	0.025	0.018	0.327	0.728	0.074
%RSD		0.527	1.287	0.511	0.710	41.110	44.130	19.360	5.272	0.887	0.324
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:16	0.022	0.015	0.292	9.345	95.530%	0.018	0.102	5.749	92.405%	-0.015
2	17:39:19	0.015	-0.034	0.301	10.380	95.016%	-0.013	0.135	5.789	91.966%	-0.021
3	17:39:23	0.007	-0.018	0.321	9.489	95.758%	0.030	0.115	5.689	92.861%	-0.028
x		0.015	-0.012	0.305	9.739	95.435%	0.012	0.117	5.742	92.411%	-0.021
σ		0.008	0.025	0.015	0.562	0.380%	0.022	0.016	0.050	0.448%	0.006
%RSD		50.610	202.600	4.821	5.772	0.398	188.500	13.870	0.876	0.485	29.040
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:39:16	-0.034	-0.096	-0.054	-0.077	94.309%	1.537	-0.145	2.347	93.352%	-0.042
2	17:39:19	-0.051	-0.110	-0.034	-0.090	94.236%	1.561	-0.136	2.230	94.817%	-0.048
3	17:39:23	-0.051	-0.102	-0.048	-0.090	93.906%	1.608	-0.143	2.331	95.370%	-0.039
x		-0.045	-0.103	-0.046	-0.086	94.151%	1.569	-0.141	2.303	94.513%	-0.043
σ		0.010	0.007	0.010	0.008	0.215%	0.036	0.005	0.064	1.043%	0.005
%RSD		21.310	6.802	22.000	8.838	0.228	2.301	3.228	2.764	1.104	10.720
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:39:16	0.020	-0.135	0.042	94.112%	-0.048					
2	17:39:19	0.015	-0.135	0.041	95.641%	-0.050					
3	17:39:23	0.006	-0.136	0.041	96.119%	-0.047					
x		0.014	-0.135	0.041	95.291%	-0.048					
σ		0.007	0.001	0.000	1.049%	0.001					
%RSD		52.880	0.655	1.003	1.100	2.285					

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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	17:46:29	2.600	2.492	6.135	1107.000	735.700	181.200	125.300	4909.000	160.500	1457000.000
2	17:46:33	2.503	2.587	5.999	1117.000	752.400	192.800	139.700	4952.000	196.900	1417000.000
3	17:46:37	2.597	2.487	5.061	1115.000	739.200	197.500	119.400	4961.000	154.700	1439000.000
x		2.567	2.522	5.732	1113.000	742.400	190.500	128.200	4941.000	170.700	1438000.000
σ		0.055	0.057	0.585	5.458	8.829	8.389	10.440	27.720	22.860	20390.000
%RSD		2.150	2.250	10.200	0.490	1.189	4.404	8.149	0.561	13.390	1.418
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	17:46:29	4542.000	6857.000	91.254%	92.161%	3.702	2.860	2.803	5.777	212.800	24.030
2	17:46:33	4517.000	6996.000	93.101%	92.469%	4.124	2.831	2.750	5.881	220.700	24.330
3	17:46:37	4606.000	7251.000	92.933%	92.508%	2.610	2.730	2.716	6.411	217.100	24.060
x		4555.000	7035.000	92.429%	92.380%	3.478	2.807	2.756	6.023	216.900	24.140
σ		45.740	200.100	1.022%	0.190%	0.781	0.068	0.044	0.340	3.969	0.166
%RSD		1.004	2.844	1.105	0.206	22.470	2.436	1.594	5.646	1.830	0.688
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:29	2.711	2.581	3.055	20.640	93.983%	2.651	2.993	6.729	91.615%	0.345
2	17:46:33	2.659	2.676	3.068	20.450	95.650%	2.694	3.014	6.793	93.152%	0.316
3	17:46:37	2.678	2.600	3.114	20.560	96.392%	2.871	3.051	6.842	94.352%	0.330
x		2.683	2.619	3.079	20.550	95.342%	2.739	3.019	6.788	93.039%	0.331
σ		0.026	0.050	0.031	0.097	1.234%	0.117	0.030	0.057	1.372%	0.015
%RSD		0.977	1.908	1.008	0.470	1.294	4.264	0.979	0.839	1.475	4.415
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:29	2.339	-0.112	1.352	3.033	92.711%	4.071	2.590	4.346	92.062%	-0.056
2	17:46:33	2.356	-0.100	1.348	2.706	95.379%	3.965	2.542	4.482	95.182%	-0.041
3	17:46:37	2.320	-0.087	1.389	2.674	96.021%	3.974	2.649	4.501	96.231%	-0.049
x		2.339	-0.100	1.363	2.804	94.704%	4.003	2.594	4.443	94.492%	-0.049
σ		0.018	0.012	0.023	0.199	1.755%	0.059	0.053	0.085	2.169%	0.008
%RSD		0.771	12.430	1.654	7.084	1.854	1.469	2.062	1.903	2.295	15.480
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:46:29	0.052	2.368	2.595	94.141%	2.580					
2	17:46:33	0.077	2.377	2.644	96.811%	2.589					
3	17:46:37	0.076	2.400	2.643	97.641%	2.587					
x		0.068	2.382	2.627	96.197%	2.585					
σ		0.014	0.017	0.028	1.829%	0.005					
%RSD		20.700	0.693	1.066	1.901	0.192					

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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	17:53:42	2.442	2.573	5.234	1080.000	710.300	192.300	131.600	4352.000	175.700	1470000.000
2	17:53:45	2.565	2.562	5.788	1072.000	714.700	201.600	132.100	4154.000	183.200	1436000.000
3	17:53:49	2.516	2.352	4.805	1058.000	730.200	196.100	135.100	4291.000	162.400	1408000.000
x		2.508	2.495	5.276	1070.000	718.400	196.700	133.000	4266.000	173.800	1438000.000
σ		0.062	0.124	0.492	11.370	10.480	4.659	1.904	101.300	10.510	31190.000
%RSD		2.470	4.980	9.335	1.062	1.459	2.369	1.432	2.376	6.048	2.169
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	17:53:42	4461.000	6035.000	91.130%	92.161%	3.653	2.746	2.482	6.181	218.400	21.870
2	17:53:45	4455.000	5450.000	94.299%	93.035%	3.703	2.738	2.579	6.111	221.100	21.740
3	17:53:49	4382.000	5627.000	95.648%	92.760%	3.711	2.838	2.596	5.502	217.100	21.880
x		4433.000	5704.000	93.692%	92.652%	3.689	2.774	2.552	5.931	218.900	21.830
σ		43.800	300.200	2.320%	0.447%	0.032	0.056	0.061	0.374	2.026	0.081
%RSD		0.988	5.264	2.476	0.482	0.854	2.013	2.400	6.298	0.926	0.370
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:42	2.608	2.667	2.968	19.040	94.034%	2.555	2.737	5.902	91.523%	0.787
2	17:53:45	2.635	2.570	3.033	19.250	97.344%	2.528	2.773	6.013	94.084%	0.780
3	17:53:49	2.671	2.703	2.950	19.750	98.040%	2.709	2.521	6.073	94.057%	0.760
x		2.638	2.647	2.984	19.350	96.473%	2.597	2.677	5.996	93.221%	0.776
σ		0.032	0.069	0.044	0.366	2.140%	0.098	0.136	0.087	1.471%	0.014
%RSD		1.200	2.599	1.461	1.890	2.218	3.760	5.094	1.443	1.578	1.756
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:42	2.335	-0.107	1.303	2.451	93.383%	3.985	2.547	4.261	93.109%	-0.047
2	17:53:45	2.247	-0.106	1.289	2.749	94.669%	3.974	2.656	4.492	95.570%	-0.048
3	17:53:49	2.349	-0.092	1.245	2.534	96.523%	3.890	2.613	4.242	95.824%	-0.044
x		2.311	-0.102	1.279	2.578	94.858%	3.950	2.605	4.332	94.834%	-0.047
σ		0.055	0.009	0.030	0.154	1.578%	0.052	0.055	0.139	1.500%	0.002
%RSD		2.396	8.440	2.384	5.961	1.664	1.324	2.116	3.218	1.581	4.827
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	17:53:42	0.048	2.336	2.555	93.716%	2.601					
2	17:53:45	0.096	2.344	2.597	95.364%	2.566					
3	17:53:49	0.077	2.332	2.582	96.949%	2.543					
x		0.073	2.338	2.578	95.343%	2.570					
σ		0.024	0.006	0.021	1.617%	0.030					
%RSD		33.220	0.252	0.827	1.696	1.148					

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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	18:00:54	49.840	51.160	106.000	10780.000	10170.000	2571.000	352.700	10270.000	200.900	1402000.000
2	18:00:58	48.520	50.440	100.700	10690.000	10200.000	2585.000	345.100	10600.000	184.400	1368000.000
3	18:01:02	49.370	49.920	99.440	10540.000	10080.000	2505.000	350.100	10360.000	182.600	1349000.000
x		49.240	50.500	102.000	10670.000	10150.000	2554.000	349.300	10410.000	189.300	1373000.000
σ		0.671	0.623	3.501	124.100	60.250	42.930	3.855	173.300	10.090	26840.000
%RSD		1.362	1.234	3.431	1.163	0.594	1.681	1.104	1.665	5.328	1.955
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	18:00:54	TM 63900.000	11450.000	97.517%	102.404%	50.490	50.930	49.710	11.780	2613.000	71.790
2	18:00:58	TM 62150.000	11110.000	99.090%	101.689%	50.380	51.160	49.840	12.040	2619.000	71.930
3	18:01:02	TM 61500.000	11200.000	99.800%	100.767%	50.390	50.510	49.610	12.370	2599.000	72.000
x		TM 62510.000	11250.000	98.803%	101.620%	50.420	50.870	49.720	12.070	2610.000	71.910
σ		TM 1245.000	180.100	1.168%	0.821%	0.064	0.328	0.116	0.295	10.310	0.109
%RSD		TM 1.992	1.600	1.183	0.808	0.127	0.645	0.234	2.447	0.395	0.152
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:54	49.680	48.610	50.610	223.500	99.358%	50.340	50.870	55.370	96.704%	50.760
2	18:00:58	49.860	50.140	50.760	223.000	101.564%	50.630	51.080	55.350	99.128%	50.110
3	18:01:02	49.670	49.230	50.090	222.000	101.644%	50.820	52.550	54.700	99.553%	50.150
x		49.740	49.320	50.490	222.800	100.856%	50.600	51.500	55.140	98.462%	50.340
σ		0.104	0.771	0.350	0.784	1.297%	0.244	0.917	0.383	1.537%	0.362
%RSD		0.209	1.563	0.693	0.352	1.286	0.481	1.781	0.694	1.561	0.719
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:00:54	47.300	-0.064	23.460	53.070	96.855%	54.950	55.010	52.780	97.631%	-0.050
2	18:00:58	47.810	-0.064	23.410	52.640	99.666%	55.020	54.730	52.060	100.812%	-0.059
3	18:01:02	47.280	-0.063	23.450	52.410	99.990%	54.840	55.030	53.150	101.457%	-0.045
x		47.460	-0.063	23.440	52.700	98.837%	54.940	54.920	52.660	99.966%	-0.051
σ		0.299	0.001	0.029	0.335	1.724%	0.090	0.166	0.555	2.048%	0.007
%RSD		0.629	1.248	0.122	0.635	1.745	0.165	0.303	1.054	2.049	13.870
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:00:54	1.418	49.070	49.920	94.031%	51.600					
2	18:00:58	1.263	48.790	50.090	97.063%	51.620					
3	18:01:02	1.351	48.900	49.660	98.072%	51.130					
x		1.344	48.920	49.890	96.389%	51.450					
σ		0.078	0.142	0.214	2.103%	0.277					
%RSD		5.772	0.291	0.429	2.182	0.538					

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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	18:08:10	1.778	0.137	1.483	10290.000	3484.000	3051.000	4683.000	<u>m 69600.000</u>	1130.000	<u>T 1350000.000</u>
2	18:08:13	1.771	0.197	1.812	10270.000	3429.000	3035.000	4709.000	<u>m 69260.000</u>	1159.000	<u>T 1324000.000</u>
3	18:08:17	1.745	0.158	1.905	10200.000	3423.000	3030.000	4682.000	<u>m 69520.000</u>	1171.000	<u>T 1322000.000</u>
x		1.765	0.164	1.733	10260.000	3446.000	3038.000	4692.000	<u>m 69460.000</u>	1153.000	<u>T 1332000.000</u>
σ		0.017	0.031	0.222	49.090	33.820	11.000	15.360	<u>m 178.800</u>	20.930	<u>T 15270.000</u>
%RSD		0.978	18.750	12.800	0.479	0.982	0.362	0.328	<u>m 0.257</u>	1.815	<u>T 1.146</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	18:08:10	<u>TM 30660.000</u>	<u>m 95390.000</u>	85.328%	86.473%	67.310	6.781	9.194	5.520	3790.000	<u>m 528.200</u>
2	18:08:13	<u>TM 30210.000</u>	<u>m 93560.000</u>	86.960%	86.569%	68.830	6.729	9.527	5.869	3786.000	<u>m 529.300</u>
3	18:08:17	<u>TM 30270.000</u>	<u>m 93870.000</u>	87.122%	86.224%	69.590	6.981	9.153	5.468	3780.000	<u>m 528.600</u>
x		<u>TM 30380.000</u>	<u>m 94280.000</u>	86.470%	86.422%	68.580	6.830	9.291	5.619	3785.000	<u>m 528.700</u>
σ		<u>TM 245.800</u>	<u>m 978.700</u>	0.992%	0.179%	1.161	0.133	0.205	0.218	5.137	<u>m 0.567</u>
%RSD		<u>TM 0.809</u>	<u>m 1.038</u>	1.148	0.207	1.692	1.943	2.206	3.880	0.136	<u>m 0.107</u>
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:10	3.016	4.964	10.520	188.200	87.719%	3.129	5.088	58.390	92.890%	1.737
2	18:08:13	3.077	4.844	10.530	190.900	89.873%	2.916	4.613	57.700	94.943%	1.706
3	18:08:17	3.162	4.769	10.260	188.100	90.456%	2.996	4.476	58.470	95.444%	1.655
x		3.085	4.859	10.440	189.100	89.349%	3.014	4.726	58.180	94.426%	1.700
σ		0.073	0.098	0.154	1.598	1.442%	0.108	0.321	0.423	1.353%	0.041
%RSD		2.362	2.020	1.474	0.845	1.613	3.582	6.787	0.728	1.433	2.424
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:08:10	0.635	-0.086	0.015	0.479	90.758%	36.760	0.027	52.540	93.003%	-0.059
2	18:08:13	0.582	-0.066	0.012	0.408	92.340%	37.100	0.056	53.400	95.180%	-0.067
3	18:08:17	0.566	-0.092	0.013	0.476	93.313%	36.800	-0.019	53.030	95.317%	-0.063
x		0.594	-0.081	0.013	0.455	92.137%	36.890	0.021	52.990	94.500%	-0.063
σ		0.036	0.014	0.002	0.040	1.290%	0.183	0.038	0.432	1.298%	0.004
%RSD		6.049	17.200	11.520	8.817	1.400	0.496	179.900	0.815	1.374	5.928
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:08:10	0.141	0.013	3.980	92.092%	0.252					
2	18:08:13	0.174	0.017	4.010	94.350%	0.275					
3	18:08:17	0.182	0.002	3.966	94.956%	0.255					
x		0.166	0.011	3.985	93.799%	0.261					
σ		0.022	0.008	0.022	1.509%	0.012					
%RSD		13.000	71.940	0.558	1.609	4.711					

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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	18:15:26	97.610	98.900	97.310	5079.000	4892.000	5039.000	4920.000	5404.000	118.000	1534000.000
2	18:15:29	97.620	98.090	97.350	5027.000	4878.000	5036.000	4823.000	5383.000	108.000	1491000.000
3	18:15:33	96.110	99.350	97.850	5061.000	4922.000	5047.000	4838.000	5383.000	120.200	1483000.000
x		97.110	98.780	97.500	5056.000	4898.000	5041.000	4860.000	5390.000	115.400	1503000.000
σ		0.867	0.638	0.301	26.740	22.260	5.373	52.630	12.020	6.495	27280.000
%RSD		0.893	0.646	0.309	0.529	0.455	0.107	1.083	0.223	5.629	1.815
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	18:15:26	5074.000	5227.000	87.960%	85.156%	103.500	100.600	101.800	23.550	5104.000	102.400
2	18:15:29	5033.000	4893.000	90.716%	86.266%	101.600	102.300	102.800	17.870	5138.000	102.200
3	18:15:33	5034.000	4814.000	92.028%	86.412%	97.310	101.000	101.100	18.890	5088.000	101.600
x		5047.000	4978.000	90.235%	85.944%	100.800	101.300	101.900	20.100	5110.000	102.100
σ		23.580	219.000	2.077%	0.687%	3.169	0.923	0.832	3.027	25.430	0.412
%RSD		0.467	4.399	2.301	0.799	3.143	0.911	0.816	15.060	0.498	0.404
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:15:26	103.100	103.200	104.200	105.500	92.103%	103.000	104.000	100.500	89.988%	100.300
2	18:15:29	103.600	103.500	105.200	107.100	94.074%	104.000	103.500	101.500	92.177%	100.700
3	18:15:33	102.300	103.000	104.200	105.600	96.015%	104.000	104.400	102.300	92.509%	101.800
x		103.000	103.200	104.500	106.100	94.064%	103.700	104.000	101.400	91.558%	100.900
σ		0.630	0.266	0.613	0.866	1.956%	0.584	0.458	0.860	1.370%	0.778
%RSD		0.612	0.258	0.586	0.816	2.080	0.563	0.441	0.848	1.496	0.771
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:15:26	101.300	101.600	51.630	105.600	93.208%	104.800	106.900	101.500	94.806%	100.800
2	18:15:29	101.400	102.200	52.300	106.600	96.127%	105.600	107.700	102.800	97.734%	101.400
3	18:15:33	101.700	102.200	52.370	106.900	97.351%	105.700	107.000	101.800	98.622%	101.600
x		101.500	102.000	52.100	106.400	95.562%	105.400	107.200	102.000	97.054%	101.300
σ		0.181	0.338	0.409	0.721	2.129%	0.487	0.447	0.665	1.997%	0.436
%RSD		0.178	0.331	0.785	0.677	2.228	0.462	0.417	0.652	2.057	0.431
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:15:26	5.013	100.700	101.700	95.382%	101.400					
2	18:15:29	4.939	100.600	102.200	98.191%	101.400					
3	18:15:33	5.121	100.700	102.300	98.553%	101.600					
x		5.024	100.700	102.100	97.375%	101.500					
σ		0.092	0.053	0.344	1.735%	0.086					
%RSD		1.825	0.052	0.337	1.782	0.085					

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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	18:22:40	0.029	0.031	-0.287	8.848	6.088	5.181	4.500	-9.180	124.500	1429000.000
2	18:22:44	0.006	0.045	-0.383	5.717	3.731	4.168	3.225	0.053	128.700	1406000.000
3	18:22:47	0.003	0.013	-0.323	6.261	6.831	4.503	5.630	3.539	138.400	1416000.000
x		0.012	0.030	-0.331	6.942	5.550	4.617	4.452	-1.863	130.500	1417000.000
σ		0.014	0.016	0.049	1.673	1.619	0.516	1.203	6.572	7.147	11330.000
%RSD		113.200	55.090	14.670	24.100	29.160	11.180	27.020	352.900	5.475	0.799
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	18:22:40	10.520	13.910	92.637%	92.474%	-0.003	-0.083	0.031	6.432	5.307	0.198
2	18:22:44	6.357	17.380	95.371%	92.766%	-0.009	0.047	0.030	6.313	4.064	0.071
3	18:22:47	6.441	42.420	95.494%	92.388%	0.060	0.086	0.059	6.058	4.732	0.160
x		7.772	24.570	94.501%	92.543%	0.016	0.017	0.040	6.267	4.701	0.143
σ		2.378	15.550	1.615%	0.198%	0.038	0.088	0.016	0.191	0.622	0.065
%RSD		30.600	63.300	1.709	0.214	237.700	517.100	40.860	3.043	13.230	45.450
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:40	0.062	-0.027	-0.031	-0.262	93.516%	0.067	0.001	0.082	92.667%	0.056
2	18:22:44	0.037	-0.052	-0.056	-0.325	96.000%	-0.002	-0.051	0.019	94.913%	0.048
3	18:22:47	0.070	0.019	-0.046	-0.292	96.882%	-0.013	0.032	0.080	95.407%	0.069
x		0.056	-0.020	-0.044	-0.293	95.466%	0.017	-0.006	0.060	94.329%	0.058
σ		0.017	0.036	0.013	0.032	1.745%	0.043	0.042	0.036	1.461%	0.011
%RSD		30.630	178.000	29.170	10.860	1.828	248.000	678.800	59.130	1.549	18.170
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:40	0.093	0.028	0.030	0.027	92.962%	0.005	-0.001	0.096	94.013%	0.051
2	18:22:44	0.084	0.012	-0.000	0.004	95.262%	-0.046	-0.033	0.073	96.359%	0.032
3	18:22:47	0.143	0.054	0.003	0.032	96.032%	-0.019	-0.013	0.126	96.722%	0.051
x		0.107	0.031	0.011	0.021	94.752%	-0.020	-0.016	0.098	95.698%	0.045
σ		0.032	0.021	0.016	0.015	1.597%	0.026	0.016	0.027	1.471%	0.011
%RSD		29.790	68.040	150.700	71.850	1.686	128.800	104.800	27.320	1.537	24.030
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:22:40	0.015	0.019	0.050	94.097%	0.052					
2	18:22:44	0.037	-0.003	0.029	95.985%	0.033					
3	18:22:47	-0.003	0.007	0.041	96.482%	0.056					
x		0.016	0.008	0.040	95.521%	0.047					
σ		0.020	0.011	0.010	1.258%	0.012					
%RSD		123.100	136.800	25.430	1.317	26.470					

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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	18:29:50	0.896	0.842	0.936	256.700	259.600	248.300	56.460	25.030	114.200	1467000.000
2	18:29:54	0.958	0.926	0.664	264.400	256.100	250.400	54.140	37.950	118.500	1447000.000
3	18:29:57	0.934	0.965	0.594	256.500	249.700	259.600	57.350	50.840	129.100	1457000.000
x		0.929	0.911	0.731	259.200	255.100	252.800	55.980	37.940	120.600	1457000.000
σ		0.032	0.063	0.181	4.526	4.984	5.978	1.653	12.910	7.636	10230.000
%RSD		3.401	6.897	24.710	1.746	1.954	2.365	2.953	34.020	6.331	0.702
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	18:29:50	251.500	232.800	94.058%	93.869%	1.086	0.937	0.969	6.976	261.600	0.912
2	18:29:54	254.000	323.500	95.541%	93.898%	1.136	0.882	1.015	6.478	258.400	0.963
3	18:29:57	266.800	249.400	94.670%	94.553%	1.182	0.922	1.002	6.905	254.400	0.987
x		257.500	268.600	94.756%	94.107%	1.135	0.914	0.995	6.787	258.100	0.954
σ		8.188	48.300	0.745%	0.387%	0.048	0.028	0.024	0.270	3.575	0.038
%RSD		3.180	17.980	0.786	0.411	4.242	3.091	2.374	3.974	1.385	4.022
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:29:50	1.102	1.019	0.912	1.092	96.558%	0.935	0.842	0.978	93.116%	0.981
2	18:29:54	0.991	0.984	1.048	1.051	98.047%	1.054	0.979	1.002	95.163%	0.933
3	18:29:57	1.033	0.940	0.940	1.098	98.029%	1.033	1.171	0.996	95.379%	0.939
x		1.042	0.981	0.967	1.080	97.545%	1.007	0.997	0.992	94.553%	0.951
σ		0.056	0.039	0.072	0.025	0.855%	0.064	0.165	0.013	1.249%	0.026
%RSD		5.359	4.006	7.477	2.361	0.876	6.333	16.550	1.266	1.321	2.740
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:29:50	0.932	1.006	0.455	1.140	94.474%	0.951	0.887	1.017	94.028%	0.999
2	18:29:54	0.987	0.957	0.514	0.906	96.366%	0.975	1.048	0.986	95.544%	0.957
3	18:29:57	0.965	0.981	0.525	0.976	96.737%	0.953	0.956	1.057	95.457%	0.978
x		0.961	0.981	0.498	1.007	95.859%	0.960	0.964	1.020	95.010%	0.978
σ		0.028	0.025	0.038	0.121	1.214%	0.013	0.081	0.036	0.851%	0.021
%RSD		2.880	2.517	7.604	11.960	1.266	1.395	8.373	3.502	0.896	2.160
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:29:50	0.176	0.913	1.002	93.710%	1.015					
2	18:29:54	0.213	0.891	1.001	95.545%	1.010					
3	18:29:57	0.223	0.921	0.991	97.011%	1.009					
x		0.204	0.909	0.998	95.422%	1.011					
σ		0.025	0.016	0.006	1.654%	0.004					
%RSD		12.230	1.707	0.614	1.733	0.346					

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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	18:37:02	4.871	5.157	5.096	530.400	496.100	505.800	255.600	272.300	121.100	1475000.000
2	18:37:06	4.890	4.718	4.630	508.100	489.200	495.100	259.100	283.400	122.800	1440000.000
3	18:37:10	4.829	5.092	4.509	508.300	499.700	507.000	270.700	253.600	134.400	1436000.000
x		4.864	4.989	4.745	515.600	495.000	502.600	261.800	269.700	126.100	1450000.000
σ		0.031	0.237	0.310	12.790	5.330	6.549	7.919	15.070	7.233	21810.000
%RSD		0.642	4.746	6.534	2.481	1.077	1.303	3.025	5.588	5.737	1.503
Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cr	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:02	502.600	522.200	94.400%	95.731%	4.528	4.945	4.943	8.020	502.300	4.917
2	18:37:06	496.400	534.000	95.654%	96.080%	4.747	5.170	4.946	7.634	512.400	5.073
3	18:37:10	496.800	511.200	96.425%	95.509%	5.268	4.761	4.944	8.317	516.500	5.072
x		498.600	522.500	95.493%	95.773%	4.848	4.959	4.944	7.991	510.400	5.021
σ		3.478	11.390	1.023%	0.288%	0.380	0.205	0.002	0.342	7.289	0.090
%RSD		0.698	2.180	1.071	0.301	7.844	4.131	0.035	4.284	1.428	1.790
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:02	5.049	4.924	5.138	4.717	98.742%	5.187	5.435	5.161	93.556%	4.924
2	18:37:06	5.095	5.107	5.201	4.803	99.012%	5.354	4.843	5.005	95.051%	5.008
3	18:37:10	5.082	5.043	5.152	5.036	99.212%	5.308	4.836	5.025	95.674%	5.006
x		5.075	5.024	5.164	4.852	98.988%	5.283	5.038	5.064	94.760%	4.979
σ		0.024	0.093	0.033	0.165	0.236%	0.086	0.344	0.085	1.088%	0.048
%RSD		0.474	1.851	0.642	3.410	0.239	1.634	6.823	1.675	1.149	0.960
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:02	4.942	4.964	2.603	5.155	95.091%	5.166	5.246	4.870	93.505%	5.065
2	18:37:06	5.136	5.161	2.586	5.149	96.840%	5.266	5.363	5.041	95.891%	5.115
3	18:37:10	4.949	5.171	2.592	5.397	97.512%	5.093	5.350	4.981	96.201%	5.087
x		5.009	5.099	2.594	5.234	96.481%	5.175	5.320	4.964	95.199%	5.089
σ		0.110	0.117	0.009	0.141	1.250%	0.087	0.064	0.086	1.475%	0.025
%RSD		2.191	2.291	0.341	2.704	1.295	1.675	1.206	1.739	1.550	0.494
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:37:02	0.493	4.876	5.003	93.587%	5.042					
2	18:37:06	0.597	5.024	5.093	94.979%	5.039					
3	18:37:10	0.410	4.981	5.122	95.617%	5.050					
x		0.500	4.960	5.073	94.727%	5.043					
σ		0.094	0.076	0.062	1.038%	0.006					
%RSD		18.810	1.531	1.219	1.096	0.116					

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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	18:44:17	0.208	-0.082	-0.191	<u>TM 52700.000</u>	<u>M 47050.000</u>	<u>M 47200.000</u>	12.440	<u>M 54440.000</u>	3216.000	<u>T 1491000.000</u>
2	18:44:21	0.197	-0.073	-0.282	<u>TM 51670.000</u>	<u>M 46750.000</u>	<u>M 46750.000</u>	9.710	<u>M 54020.000</u>	3152.000	<u>T 1467000.000</u>
3	18:44:25	0.200	-0.063	-0.454	<u>TM 52330.000</u>	<u>M 47450.000</u>	<u>M 47370.000</u>	18.170	<u>M 54530.000</u>	3109.000	<u>T 1469000.000</u>
X		0.201	-0.073	-0.309	<u>TM 52230.000</u>	<u>M 47080.000</u>	<u>M 47110.000</u>	13.440	<u>M 54330.000</u>	3159.000	<u>T 1476000.000</u>
σ		0.006	0.010	0.134	<u>TM 525.300</u>	<u>M 351.400</u>	<u>M 322.100</u>	4.319	<u>M 274.300</u>	53.930	<u>T 13460.000</u>
%RSD		2.846	13.040	43.170	<u>TM 1.006</u>	<u>M 0.746</u>	<u>M 0.684</u>	32.130	<u>M 0.505</u>	1.707	<u>T 0.912</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	18:44:17	<u>TM 54170.000</u>	<u>M 49930.000</u>	90.716%	93.283%	<u>M 1003.000</u>	0.041	0.132	4.960	<u>TM 55610.000</u>	-0.011
2	18:44:21	<u>TM 53320.000</u>	<u>M 50280.000</u>	91.851%	93.266%	<u>M 994.800</u>	-0.156	0.112	5.673	<u>TM 54630.000</u>	-0.048
3	18:44:25	<u>TM 53730.000</u>	<u>M 50490.000</u>	92.183%	92.603%	<u>M 1000.000</u>	0.089	0.149	4.454	<u>TM 54320.000</u>	0.051
X		<u>TM 53740.000</u>	<u>M 50240.000</u>	91.583%	93.051%	<u>M 999.300</u>	-0.008	0.131	5.029	<u>TM 54850.000</u>	-0.003
σ		<u>TM 427.900</u>	<u>M 280.600</u>	0.769%	0.388%	<u>M 4.104</u>	0.130	0.019	0.613	<u>TM 673.200</u>	0.050
%RSD		<u>TM 0.796</u>	<u>M 0.559</u>	0.840	0.417	<u>M 0.411</u>	1576.000	14.280	12.190	<u>TM 1.227</u>	1890.000
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:17	0.007	0.003	0.032	-0.353	89.603%	-0.026	-0.076	0.384	88.422%	0.095
2	18:44:21	0.001	0.054	0.068	-0.394	91.809%	0.074	-0.114	0.444	89.407%	0.083
3	18:44:25	0.009	-0.008	0.036	-0.303	91.901%	-0.006	0.104	0.394	90.513%	0.061
X		0.006	0.016	0.045	-0.350	91.104%	0.014	-0.029	0.407	89.447%	0.080
σ		0.004	0.033	0.020	0.046	1.301%	0.053	0.116	0.032	1.046%	0.017
%RSD		68.540	199.600	43.760	13.050	1.428	373.400	403.600	7.843	1.169	21.720
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:44:17	<u>M 1009.000</u>	-0.045	-0.036	0.060	91.397%	0.000	-0.042	0.099	92.463%	-0.023
2	18:44:21	<u>M 1013.000</u>	-0.048	-0.033	0.014	93.301%	0.049	-0.065	0.118	94.371%	-0.031
3	18:44:25	<u>M 1015.000</u>	-0.076	-0.042	0.080	94.661%	0.033	-0.052	0.055	96.080%	-0.033
X		<u>M 1012.000</u>	-0.056	-0.037	0.051	93.120%	0.028	-0.053	0.091	94.305%	-0.029
σ		<u>M 3.508</u>	0.017	0.005	0.034	1.639%	0.025	0.011	0.032	1.810%	0.005
%RSD		<u>M 0.347</u>	29.870	13.360	66.070	1.760	89.790	20.960	35.460	1.919	17.890
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:44:17	0.027	-0.134	-0.022	86.587%	-0.049					
2	18:44:21	0.040	-0.135	-0.022	89.896%	-0.049					
3	18:44:25	0.011	-0.142	-0.023	90.470%	-0.044					
X		0.026	-0.137	-0.022	88.984%	-0.047					
σ		0.014	0.004	0.000	2.096%	0.003					
%RSD		54.880	3.187	0.602	2.355	5.963					

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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	18:51:30	92.470	92.780	89.260	<u>TM 51740.000</u>	<u>M 47150.000</u>	<u>M 46870.000</u>	4809.000	<u>M 58740.000</u>	3108.000	<u>T 1544000.000</u>
2	18:51:34	92.790	92.560	89.490	<u>TM 50660.000</u>	<u>M 46550.000</u>	<u>M 46880.000</u>	4763.000	<u>M 58800.000</u>	3028.000	<u>T 1517000.000</u>
3	18:51:38	92.360	92.950	94.360	<u>TM 50710.000</u>	<u>M 46960.000</u>	<u>M 47400.000</u>	4791.000	<u>M 59600.000</u>	3109.000	<u>T 1539000.000</u>
X		92.540	92.760	91.040	<u>TM 51040.000</u>	<u>M 46880.000</u>	<u>M 47050.000</u>	4788.000	<u>M 59050.000</u>	3082.000	<u>T 1533000.000</u>
σ		0.225	0.199	2.879	<u>TM 608.200</u>	<u>M 307.700</u>	<u>M 299.700</u>	22.890	<u>M 481.400</u>	46.080	<u>T 14450.000</u>
%RSD		0.243	0.214	3.163	<u>TM 1.192</u>	<u>M 0.656</u>	<u>M 0.637</u>	0.478	<u>M 0.815</u>	1.495	<u>T 0.943</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	18:51:30	<u>TM 52840.000</u>	<u>M 50180.000</u>	91.943%	91.510%	<u>M 1101.000</u>	101.700	100.800	21.340	<u>TM 53550.000</u>	99.560
2	18:51:34	<u>TM 51920.000</u>	<u>M 50980.000</u>	94.782%	91.926%	<u>M 1082.000</u>	101.600	99.690	23.070	<u>TM 52490.000</u>	100.700
3	18:51:38	<u>TM 52520.000</u>	<u>M 51150.000</u>	93.601%	92.512%	<u>M 1110.000</u>	102.800	101.500	19.110	<u>TM 52290.000</u>	100.300
X		<u>TM 52430.000</u>	<u>M 50770.000</u>	93.442%	91.983%	<u>M 1098.000</u>	102.000	100.700	21.170	<u>TM 52780.000</u>	100.200
σ		<u>TM 470.200</u>	<u>M 520.400</u>	1.426%	0.503%	<u>M 14.110</u>	0.689	0.920	1.989	<u>TM 676.700</u>	0.562
%RSD		<u>TM 0.897</u>	<u>M 1.025</u>	1.526	0.547	<u>M 1.286</u>	0.675	0.914	9.393	<u>TM 1.282</u>	0.561
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:30	101.100	100.600	100.300	104.200	93.104%	104.500	104.000	101.300	90.319%	100.300
2	18:51:34	100.700	98.840	99.820	103.400	97.198%	102.600	102.500	102.200	93.600%	99.990
3	18:51:38	100.600	98.560	98.490	104.000	98.306%	102.600	103.300	102.900	93.716%	100.700
X		100.800	99.320	99.520	103.900	96.203%	103.200	103.300	102.100	92.545%	100.300
σ		0.285	1.087	0.921	0.401	2.740%	1.061	0.785	0.772	1.929%	0.361
%RSD		0.282	1.095	0.925	0.386	2.848	1.028	0.760	0.756	2.084	0.360
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:30	<u>M 1118.000</u>	98.040	49.570	104.300	95.146%	104.500	106.300	102.000	96.516%	104.400
2	18:51:34	<u>M 1110.000</u>	97.320	49.310	104.200	98.862%	103.900	105.700	101.300	99.669%	104.100
3	18:51:38	<u>M 1115.000</u>	98.260	49.570	103.600	99.293%	104.700	106.200	101.300	100.406%	105.000
X		<u>M 1114.000</u>	97.870	49.480	104.000	97.767%	104.400	106.100	101.500	98.864%	104.500
σ		<u>M 4.337</u>	0.490	0.154	0.389	2.280%	0.423	0.316	0.388	2.066%	0.449
%RSD		<u>M 0.389</u>	0.500	0.312	0.374	2.332	0.405	0.298	0.382	2.090	0.430
Run	Time	201Hg	205TI	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:51:30	5.075	102.300	102.300	92.595%	105.700					
2	18:51:34	5.403	102.000	101.500	96.226%	105.000					
3	18:51:38	5.372	102.000	102.200	96.381%	105.100					
X		5.283	102.100	102.000	95.068%	105.300					
σ		0.181	0.172	0.413	2.143%	0.357					
%RSD		3.424	0.169	0.405	2.254	0.339					

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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	18:58:45	96.950	97.260	96.320	5216.000	4984.000	5153.000	4955.000	5383.000	110.800	1536000.000
2	18:58:49	95.680	96.650	97.130	5039.000	4898.000	5039.000	4825.000	5423.000	117.200	1481000.000
3	18:58:53	94.930	97.250	96.940	5076.000	4868.000	5045.000	4818.000	5393.000	110.400	1482000.000
x		95.850	97.050	96.800	5110.000	4917.000	5079.000	4866.000	5400.000	112.800	1500000.000
σ		1.023	0.347	0.424	93.060	60.170	63.980	77.360	21.020	3.827	31150.000
%RSD		1.068	0.358	0.438	1.821	1.224	1.260	1.590	0.389	3.393	2.077
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	18:58:45	5146.000	5226.000	97.925%	95.744%	103.200	102.800	103.400	21.640	5124.000	101.500
2	18:58:49	5041.000	5103.000	102.464%	95.646%	100.500	101.800	102.100	21.040	5108.000	101.500
3	18:58:53	5037.000	4705.000	104.036%	96.069%	100.100	101.100	101.400	21.100	5087.000	101.700
x		5075.000	5011.000	101.475%	95.820%	101.200	101.900	102.300	21.260	5106.000	101.600
σ		61.870	272.500	3.173%	0.221%	1.670	0.855	1.054	0.329	18.730	0.129
%RSD		1.219	5.437	3.127	0.231	1.649	0.839	1.031	1.546	0.367	0.127
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:45	103.900	104.200	104.800	103.500	103.017%	103.300	103.100	101.200	98.900%	101.500
2	18:58:49	102.900	103.600	105.500	103.200	106.440%	104.100	103.300	101.400	101.898%	101.700
3	18:58:53	102.700	104.000	105.600	105.200	107.400%	104.200	103.800	101.800	102.861%	101.300
x		103.200	103.900	105.300	104.000	105.619%	103.800	103.400	101.400	101.220%	101.500
σ		0.601	0.277	0.419	1.070	2.304%	0.505	0.382	0.311	2.065%	0.198
%RSD		0.582	0.267	0.398	1.029	2.181	0.486	0.369	0.306	2.041	0.195
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:45	101.400	103.400	52.590	106.000	101.877%	105.800	106.900	102.000	101.392%	102.500
2	18:58:49	102.200	103.900	52.920	105.900	105.354%	105.300	107.700	103.700	104.326%	102.500
3	18:58:53	102.100	103.300	52.660	106.400	105.945%	104.600	108.300	102.600	104.846%	103.000
x		101.900	103.500	52.720	106.100	104.392%	105.200	107.600	102.800	103.521%	102.600
σ		0.407	0.312	0.176	0.255	2.198%	0.561	0.708	0.878	1.862%	0.280
%RSD		0.400	0.301	0.335	0.240	2.106	0.533	0.658	0.854	1.799	0.272
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	18:58:45	5.027	101.100	102.500	100.815%	101.200					
2	18:58:49	5.075	100.500	102.300	104.346%	100.100					
3	18:58:53	4.866	100.900	102.600	104.976%	100.900					
x		4.990	100.800	102.500	103.379%	100.800					
σ		0.110	0.289	0.161	2.243%	0.564					
%RSD		2.202	0.287	0.157	2.170	0.560					

237880_10175_CCBTV6

10/18/2019 7:05:56 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	19:06:00	0.006	-0.006	-0.137	10.690	8.827	6.524	5.315	3.347	105.200	1421000.000
2	19:06:04	0.014	0.015	-0.326	4.171	3.465	5.141	1.730	-2.784	126.000	1421000.000
3	19:06:08	0.021	-0.015	-0.225	6.102	2.971	2.115	3.490	-5.185	112.700	1419000.000
x		0.014	-0.002	-0.229	6.989	5.088	4.593	3.512	-1.541	114.600	1420000.000
σ		0.008	0.015	0.095	3.350	3.248	2.255	1.793	4.400	10.510	1288.000
%RSD		55.350	882.700	41.260	47.930	63.840	49.100	51.050	285.600	9.165	0.091
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	19:06:00	6.071	15.810	101.102%	101.496%	0.178	0.138	0.070	6.254	8.532	0.075
2	19:06:04	4.248	5.607	102.011%	101.873%	0.208	0.111	0.036	6.383	4.638	0.013
3	19:06:08	1.928	12.380	102.336%	101.769%	0.174	0.095	0.025	6.282	3.888	0.012
x		4.082	11.270	101.816%	101.713%	0.187	0.115	0.044	6.306	5.686	0.033
σ		2.076	5.192	0.640%	0.195%	0.019	0.022	0.023	0.068	2.493	0.036
%RSD		50.870	46.090	0.628	0.191	9.917	18.790	53.270	1.075	43.840	108.200
Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:00	0.066	-0.026	-0.021	-0.326	101.019%	0.024	0.021	0.039	98.708%	0.063
2	19:06:04	0.041	-0.023	-0.065	-0.301	103.447%	0.026	-0.083	0.003	100.713%	0.020
3	19:06:08	0.019	-0.075	-0.079	-0.325	103.681%	0.073	-0.070	-0.000	101.785%	0.010
x		0.042	-0.041	-0.055	-0.317	102.716%	0.041	-0.044	0.014	100.402%	0.031
σ		0.023	0.029	0.030	0.014	1.474%	0.028	0.057	0.022	1.562%	0.028
%RSD		55.620	70.870	55.250	4.483	1.435	67.690	129.300	157.800	1.556	90.700
Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:00	0.253	0.041	0.034	0.034	99.236%	-0.001	-0.024	0.059	98.355%	0.066
2	19:06:04	0.153	-0.037	0.002	-0.045	100.172%	-0.053	-0.060	0.027	99.719%	0.020
3	19:06:08	0.137	-0.035	-0.000	-0.009	101.059%	-0.037	-0.057	0.054	100.852%	-0.004
x		0.181	-0.010	0.012	-0.007	100.156%	-0.030	-0.047	0.047	99.642%	0.027
σ		0.063	0.045	0.019	0.040	0.911%	0.026	0.020	0.017	1.250%	0.035
%RSD		34.850	432.000	157.700	574.500	0.910	87.140	42.580	36.990	1.255	129.900
Run	Time	201Hg	205Tl	208Pb	209Bi	238U					
		ppb	ppb	ppb	ppb	ppb					
1	19:06:00	0.023	0.036	0.052	97.640%	0.046					
2	19:06:04	0.026	-0.009	0.011	100.299%	0.017					
3	19:06:08	0.018	-0.024	0.011	100.862%	0.012					
x		0.022	0.001	0.025	99.600%	0.025					
σ		0.004	0.031	0.024	1.721%	0.019					
%RSD		19.720	3666.000	96.230	1.728	74.300					

Batch Information: MPRP 21277

Prep Method	EPA 3050B
Block ID	40HB06
Corrected Temp. (C)	91.30
Solid Matrix Lot	230312
Reviewed By Date	09/30/2019 08:58

Analysis Method	EPA 6020
Thermometer ID	151839407
Acceptance Range:	95+/-5 C
Digestion Vessel	231161
Batch Notes	HBN 335361

Extracted By	BTH
Block Temp (C)	91.3
Digestion Start Time	09/27/2019 06:52:23:246
Metals Pipette 1	40PPT69

Instrument	40BAL1
Correction Factor (C)	0
Digestion End Time	09/27/2019 11:59:01:912
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	1946901	Y	Tissue	0.5	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	SBLK	1946902	Y	Tissue	0.5	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	LCS	1946903	Y	Tissue	0.5	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J	233262 (0.25)	229194 (1)
6020 T_P	SRM	1946904	Y	Tissue	0.5	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809001	Y	Tissue	0.5032	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	MS	1946905	Y	Tissue	0.5012	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J	233262 (0.25)	229194 (1)
6020 T_P	MSD	1946906	Y	Tissue	0.5035	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J	233262 (0.25)	229194 (1)
6020 T_P	PS	40194809002	Y	Tissue	0.5106	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809003	Y	Tissue	0.5278	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809004	Y	Tissue	0.5013	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809005	Y	Tissue	0.5106	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809006	Y	Tissue	0.5384	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809007	Y	Tissue	0.5277	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809008	Y	Tissue	0.528	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809009	Y	Tissue	0.5106	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809010	Y	Tissue	0.5079	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809011	Y	Tissue	0.5037	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		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	40194809012	Y	Tissue	0.517	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809013	Y	Tissue	0.5399	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809014	Y	Tissue	0.5454	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809015	Y	Tissue	0.526	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809016	Y	Tissue	0.5298	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809017	Y	Tissue	0.5307	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809018	Y	Tissue	0.5436	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809019	Y	Tissue	0.51	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		
6020 T_P	PS	40194809020	Y	Tissue	0.5435	236060 (10)	232182 (5)	225130 (2.5)	50	10/10/19		J		

QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	BLANK	1946901		
6020 T_P	SBLK	1946902		
6020 T_P	LCS	1946903	235554 (0.25)	
6020 T_P	SRM	1946904		229870 (.5)
6020 T_P	PS	40194809001		
6020 T_P	MS	1946905	235554 (0.25)	
6020 T_P	MSD	1946906	235554 (0.25)	
6020 T_P	PS	40194809002		
6020 T_P	PS	40194809003		
6020 T_P	PS	40194809004		

QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	PS	40194809005		
6020 T_P	PS	40194809006		
6020 T_P	PS	40194809007		
6020 T_P	PS	40194809008		
6020 T_P	PS	40194809009		
6020 T_P	PS	40194809010		
6020 T_P	PS	40194809011		
6020 T_P	PS	40194809012		
6020 T_P	PS	40194809013		
6020 T_P	PS	40194809014		
6020 T_P	PS	40194809015		
6020 T_P	PS	40194809016		
6020 T_P	PS	40194809017		
6020 T_P	PS	40194809018		
6020 T_P	PS	40194809019		
6020 T_P	PS	40194809020		

Standard Notes:

229194: TVA Supplemental Spike

229870: Metals SRM TORT-3 - Rec'd 07/9/19

233262: ICPMS Biota Spike

235554: Biota Spike Silver

Batch Information: MPRP 21339

Prep Method	EPA 3050B
Block ID	40HB06
Corrected Temp. (C)	90.70
Solid Matrix Lot	230312
Reviewed By Date	10/04/2019 08:33

Analysis Method	EPA 6020
Thermometer ID	151839407
Acceptance Range:	95+/-5 C
Digestion Vessel	231161
Batch Notes	HBN 336121

Extracted By	BTH
Block Temp (C)	90.7
Digestion Start Time	10/03/2019 07:37:34:112
Metals Pipette 1	40PPT69

Instrument	40BAL1
Correction Factor (C)	0
Digestion End Time	10/03/2019 13:12:39:495
Reviewed By	DS1

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

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	1951520	Y	Tissue	0.5	236061 (10)	232182 (5)	234391 (2.5)	50	10/23/19		J		
6020 T_P	SBLK	1951521	Y	Tissue	0.5	236061 (10)	232182 (5)	234391 (2.5)	50	10/23/19		J		
6020 T_P	LCS	1951522	Y	Tissue	0.5	236061 (10)	232182 (5)	234391 (2.5)	50	10/23/19		J	233262 (0.25)	229194 (1)
6020 T_P	SRM	1951523	Y	Tissue	0.5	236061 (10)	232182 (5)	234391 (2.5)	50	10/23/19		J		
6020 T_P	PS	40194816001	Y	Tissue	0.5036	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		
6020 T_P	MS	1951524	Y	Tissue	0.5025	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J	233262 (0.25)	229194 (1)
6020 T_P	MSD	1951525	Y	Tissue	0.5001	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J	233262 (0.25)	229194 (1)
6020 T_P	PS	40194816002	Y	Tissue	0.5227	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		
6020 T_P	PS	40194816003	Y	Tissue	0.511	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		
6020 T_P	PS	40194816004	Y	Tissue	0.5009	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		
6020 T_P	PS	40193826021	Y	Tissue	0.5174	236061 (10)	232182 (5)	234391 (2.5)	50	10/24/19		J		
6020 T_P	PS	40193833021	Y	Tissue	0.5044	236061 (10)	232182 (5)	234391 (2.5)	50	10/26/19		J		
6020 T_P	PS	40193836019	Y	Tissue	0.5188	236061 (10)	232182 (5)	234391 (2.5)	50	10/24/19		J		
6020 T_P	PS	40194793021	Y	Tissue	0.517	236061 (10)	232182 (5)	234391 (2.5)	50	10/23/19		J		
6020 T_P	PS	40194797021	Y	Tissue	0.5174	236061 (10)	232182 (5)	234391 (2.5)	50	10/27/19		J		
6020 T_P	PS	40194812021	Y	Tissue	0.5164	236061 (10)	232182 (5)	234391 (2.5)	50	10/26/19		J		
6020 T_P	PS	40195132011	Y	Tissue	0.5124	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		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	40194809021	Y	Tissue	0.5105	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		
6020 T_P	PS	40194816005	Y	Tissue	0.5174	236061 (10)	232182 (5)	234391 (2.5)	50	10/25/19		J		

QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	BLANK	1951520		
6020 T_P	SBLK	1951521		
6020 T_P	LCS	1951522	236482 (0.25)	
6020 T_P	SRM	1951523		236575 (.5)
6020 T_P	PS	40194816001		
6020 T_P	MS	1951524	236482 (0.25)	
6020 T_P	MSD	1951525	236482 (0.25)	
6020 T_P	PS	40194816002		
6020 T_P	PS	40194816003		
6020 T_P	PS	40194816004		
6020 T_P	PS	40193826021		
6020 T_P	PS	40193833021		
6020 T_P	PS	40193836019		
6020 T_P	PS	40194793021		
6020 T_P	PS	40194797021		
6020 T_P	PS	40194812021		
6020 T_P	PS	40195132011		
6020 T_P	PS	40194809021		
6020 T_P	PS	40194816005		

Standard Notes:

229194: TVA Supplemental Spike

233262: ICPMS Biota Spike

236482: Biota Spike Silver

236575: Metals SRM TORT-3 - Rec'd 10/2/19

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-F-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.046		mg/kg	1	10/03/2019 13:50

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-F-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.11		mg/kg	1	10/03/2019 14:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-F-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.11		mg/kg	1	10/03/2019 14:34

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-F-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.11		mg/kg	1	10/03/2019 14:45

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.12		mg/kg	1	10/03/2019 14:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURA-O-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0075	U	mg/kg	1	10/03/2019 15:08

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-O-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0073	U	mg/kg	1	10/03/2019 15:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-O-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0072	U	mg/kg	1	10/03/2019 16:08

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-O-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809009 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0074	U	mg/kg	1	10/03/2019 16:20

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-O-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809010 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0072	U	mg/kg	1	10/03/2019 16:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-O-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809011 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0074	U	mg/kg	1	10/03/2019 16:43

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURA-L-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809012 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.18		mg/kg	1	10/03/2019 16:54

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-L-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809013 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.30		mg/kg	1	10/03/2019 17:06

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-L-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809014 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.19		mg/kg	1	10/03/2019 17:17

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-L-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809015 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.19		mg/kg	1	10/03/2019 17:28

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-L-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809016 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.12		mg/kg	1	10/03/2019 17:40

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-L-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809017 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.18		mg/kg	1	10/03/2019 18:29

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURA-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809018 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.089		mg/kg	1	10/03/2019 18:40

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURD-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809019 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.12		mg/kg	1	10/03/2019 18:52

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURU-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809020 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.11		mg/kg	1	10/03/2019 19:03

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RINSE BLANK 40194809-
021-B

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809021 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0076	U	mg/kg	1	10/03/2019 19:14

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: 236638

Continuing Calibration Verification Source: _____

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	10/03/2019 12:00				10/03/2019 15:31			10/03/2019 18:03			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	101.1	90-110	4.19	4.3	103.6	4.19	4.3	102.3	80-120

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: _____

Concentration Units: mg/kg Instrument ID: 40HG4

	Continuing Calibration Verification			
	10/03/2019 19:37			Control Limit
Analyte	True	Found	%R	
Mercury	4.19	4.3	102.0	80-120

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: 236637

Continuing Calibration Verification Source: _____

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	10/03/2019 11:47				10/03/2019 15:20			10/03/2019 17:51			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	0.3	0.29	96.5	90-110	0.29	0.29	100.9	0.29	0.29	99.9	80-120

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: _____

Concentration Units: mg/kg Instrument ID: 40HG4

	Continuing Calibration Verification			
	10/03/2019 19:26			Control Limit
Analyte	True	Found	%R	
Mercury	0.29	0.30	102.6	80-120

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

CRDL Check Standard Source: 236636 Analysis Date/Time: 10/03/2019 12:33

Concentration Units: mg/kg

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.08	0.088	109.8	60-140

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract : 0777010 CUMBERLAND FOSSIL PLAN

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	
	10/03/2019 12:19	C	10/03/2019 15:46	C	10/03/2019 18:18	C	10/03/2019 19:52	C	1951916	C
Mercury	0.020	U	0.020	U	0.020	U	0.020	U	<0.0076	U

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1951918MS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: CUF-FH-CC-CURD-F-

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	80-120	0.26	0.046	0.14	148*

* Spike Recovery outside QC Limits

10/15/2019 15:22

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FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

1951919MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue Basis: Wet Parent Sample ID: CUF-FH-CC-CURD-F-

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	80-120	0.27	0.046	0.15	154*

* Spike Recovery outside QC Limits

10/15/2019 15:22

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SAMPLE NO.

FORM VI INORGANIC-1
DUPLICATES

1951919MSD

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLANDMatrix: Tissue Concentration Units: mg/kgPercent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	0.26	0.27	3

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

1951917LCS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.25	0.28	109	80	120

FORM IX INORGANIC-1
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

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. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Preparation Method: _____ Instrument ID: 40HG4

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Mercury	0.025	0.0076	07/15/2019

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40HG4

Analysis Method: EPA 7473

Start Date: 09/25/2019 07:37

End Date: 10/03/2019 19:52

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
12795984CAL0	12795984CAL0	1	09/25/2019	07:37	X
12795985CAL1	12795985CAL1	1	09/25/2019	07:49	X
12795986CAL2	12795986CAL2	1	09/25/2019	08:00	X
12795987CAL3	12795987CAL3	1	09/25/2019	08:20	X
12795988CAL4	12795988CAL4	1	09/25/2019	08:33	X
12795989CAL5	12795989CAL5	1	09/25/2019	08:45	X
12795990CAL6	12795990CAL6	1	09/25/2019	08:59	X
12795991CAL7	12795991CAL7	1	09/25/2019	09:12	X
12795992CAL8	12795992CAL8	1	09/25/2019	09:30	X
12795993CAL9	12795993CAL9	1	09/25/2019	09:50	X
12860549CAL10	12860549CAL10	1	09/25/2019	10:14	X
12847794ICVB	12847794ICVB	1	10/03/2019	11:47	X
12847795ICVA	12847795ICVA	1	10/03/2019	12:00	X
12923255ICB	12923255ICB	1	10/03/2019	12:19	X
12847797CRDL	12847797CRDL	1	10/03/2019	12:33	X
1951916BLANK	1951916	1	10/03/2019	12:47	X
1951917LCS	1951917	1	10/03/2019	12:59	X
CUF-FH-CC-CURD-F-	40194809001	1	10/03/2019	13:50	X
1951918MS	1951918	1	10/03/2019	13:59	X
1951919MSD	1951919	1	10/03/2019	14:11	X
CUF-FH-CC-CURU-F-	40194809002	1	10/03/2019	14:22	X
CUF-FH-CC-WCD-F-	40194809003	1	10/03/2019	14:34	X
CUF-FH-CC-WCU-F-	40194809004	1	10/03/2019	14:45	X
CUF-FH-CC-F-DUP01-	40194809005	1	10/03/2019	14:57	X
CUF-FH-CC-CURA-O-	40194809006	1	10/03/2019	15:08	X
12847798CCVB	12847798CCVB	1	10/03/2019	15:20	X
12847799CCVA	12847799CCVA	1	10/03/2019	15:31	X
12847800CCB	12847800CCB	1	10/03/2019	15:46	X
CUF-FH-CC-CURD-O-	40194809007	1	10/03/2019	15:57	X
CUF-FH-CC-CURU-O-	40194809008	1	10/03/2019	16:08	X
CUF-FH-CC-WCD-O-	40194809009	1	10/03/2019	16:20	X
CUF-FH-CC-WCU-O-	40194809010	1	10/03/2019	16:31	X
CUF-FH-CC-O-DUP01-	40194809011	1	10/03/2019	16:43	X
CUF-FH-CC-CURA-L-	40194809012	1	10/03/2019	16:54	X
CUF-FH-CC-CURD-L-	40194809013	1	10/03/2019	17:06	X
CUF-FH-CC-CURU-L-	40194809014	1	10/03/2019	17:17	X
CUF-FH-CC-WCD-L-	40194809015	1	10/03/2019	17:28	X
CUF-FH-CC-WCU-L-	40194809016	1	10/03/2019	17:40	X
12847801CCVB	12847801CCVB	1	10/03/2019	17:51	X
12847802CCVA	12847802CCVA	1	10/03/2019	18:03	X
12847803CCB	12847803CCB	1	10/03/2019	18:18	X
CUF-FH-CC-L-DUP01-	40194809017	1	10/03/2019	18:29	X
CUF-FH-RS-CURA-F-	40194809018	1	10/03/2019	18:40	X
CUF-FH-RS-CURD-F-	40194809019	1	10/03/2019	18:52	X
CUF-FH-RS-CURU-F-	40194809020	1	10/03/2019	19:03	X

10/24/2019 10:52

FORM XIII INORGANIC-2
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND FOSSIL PLAN

Instrument ID: 40HG4

Analysis Method: EPA 7473

Start Date: 09/25/2019 07:37






End Date: 10/03/2019 19:52

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
RINSE BLANK 40194809-	40194809021	1	10/03/2019	19:14	X
12847804CCVB	12847804CCVB	1	10/03/2019	19:26	X
12847805CCVA	12847805CCVA	1	10/03/2019	19:37	X
12847806CCB	12847806CCB	1	10/03/2019	19:52	X

Sample listing "09252019B_40HG4_AJD.d80"

Created by "Administrator"
25.09.2019 10:44:10



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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 9-25-19 AJD 	0.0000 g 25.09.19 07:23	✓ B 25.09.19 07:23	0.0032	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
- 2	PURGE 9-25-19 AJD	0.0000 g 25.09.19 07:23	✓ B 25.09.19 07:26	0.0016	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
- 3	PURGE 9-25-19 AJD	0.0000 g 25.09.19 07:23	✓ B 25.09.19 07:29	0.0013	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
1 4	CAL0 228468_12091	0.0256 g 25.09.19 07:36	✓ C 25.09.19 07:37	0.0057	0.0000	0.0000		1.0000	<data not saved> 25.09.19 07:47	7473 Biota.m80 31.10.11 13:06
1 5	CAL1 235916_12091	0.0244 g 25.09.19 07:48	✓ C 25.09.19 07:49	0.0983	1.9520	0.0800		1.0000	<data not saved> 25.09.19 07:58	7473 Biota.m80 31.10.11 13:06
1 6	CAL2 235917_12091	0.0252 g 25.09.19 07:59	✓ C 25.09.19 08:00	0.2421	5.0400	0.2000		1.0000	<data not saved> 25.09.19 08:10	7473 Biota.m80 31.10.11 13:06
1 7	CAL3 235918_12091	0.0240 g 25.09.19 08:19	✓ C 25.09.19 08:20	0.4387	9.6000	0.4000		1.0000	<data not saved> 25.09.19 08:29	7473 Biota.m80 31.10.11 13:06
1 8	CAL4 235919_12091	0.0252 g 25.09.19 08:32	✓ C 25.09.19 08:33	0.6597	15.1200	0.6000		1.0000	<data not saved> 25.09.19 08:42	7473 Biota.m80 31.10.11 13:06
1 9	CAL5 235920_12091	0.0260 g 25.09.19 08:45	✓ C 25.09.19 08:45	0.8201	20.8000	0.8000		1.0000	<data not saved> 25.09.19 08:55	7473 Biota.m80 31.10.11 13:06
1 10	CAL6 235921_12091	0.0259 g 25.09.19 08:58	✓ C 25.09.19 08:59	0.0465	51.8000	2.0000		1.0000	<data not saved> 25.09.19 09:08	7473 Biota.m80 31.10.11 13:06
1 11	CAL7 235922_12091	0.0256 g 25.09.19 09:12	✓ C 25.09.19 09:12	0.0917	102.4000	4.0000		1.0000	<data not saved> 25.09.19 09:22	7473 Biota.m80 31.10.11 13:06
- 12	auto BV (1) 	0.0000 g 25.09.19 09:22	✓ B 25.09.19 09:22	0.0375	0.7067			1.0000	09252019CAL.c80 25.09.19 09:11	
- 13	auto BV (2)	0.0000 g 25.09.19 09:26	✓ B 25.09.19 09:25	0.0206	0.3750			1.0000	09252019CAL.c80 25.09.19 09:11	
1 14	CAL8 235923_12091	0.0255 g 25.09.19 09:29	✓ C 25.09.19 09:30	0.1367	153.0000	6.0000		1.0000	<data not saved> 25.09.19 09:39	7473 Biota.m80 31.10.11 13:06
- 15	auto BV (1) 	0.0000 g 25.09.19 09:40	✓ B 25.09.19 09:39	0.0464	0.8830			1.0000	09252019CAL.c80 25.09.19 09:29	
- 16	auto BV (2)	0.0000 g 25.09.19 09:44	✓ B 25.09.19 09:43	0.0264	0.4889			1.0000	09252019CAL.c80 25.09.19 09:29	
1 17	CAL9 235924_12091	0.0257 g 25.09.19 09:49	✓ C 25.09.19 09:50	0.1821	205.6000	8.0000		1.0000	<data not saved> 25.09.19 09:59	7473 Biota.m80 31.10.11 13:06
- 18	auto BV (1) 	0.0000 g 25.09.19 10:00	✓ B 25.09.19 09:59	0.0701	1.3537			1.0000	09252019CAL.c80 25.09.19 09:49	
- 19	auto BV (2)	0.0000 g 25.09.19 10:03	✓ B 25.09.19 10:03	0.0388	0.7316			1.0000	09252019CAL.c80 25.09.19 09:49	
- 20	auto BV (3)	0.0000 g 25.09.19 10:07	✓ B 25.09.19 10:06	0.0284	0.5278			1.0000	09252019CAL.c80 25.09.19 09:49	
- 21	auto BV (4) 	0.0000 g 25.09.19 10:10	✓ B 25.09.19 10:10	0.0205	0.3731			1.0000	09252019CAL.c80 25.09.19 09:49	

Sample listing "09252019B_40HG4_AJD.d80"

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25.09.2019 10:44:10

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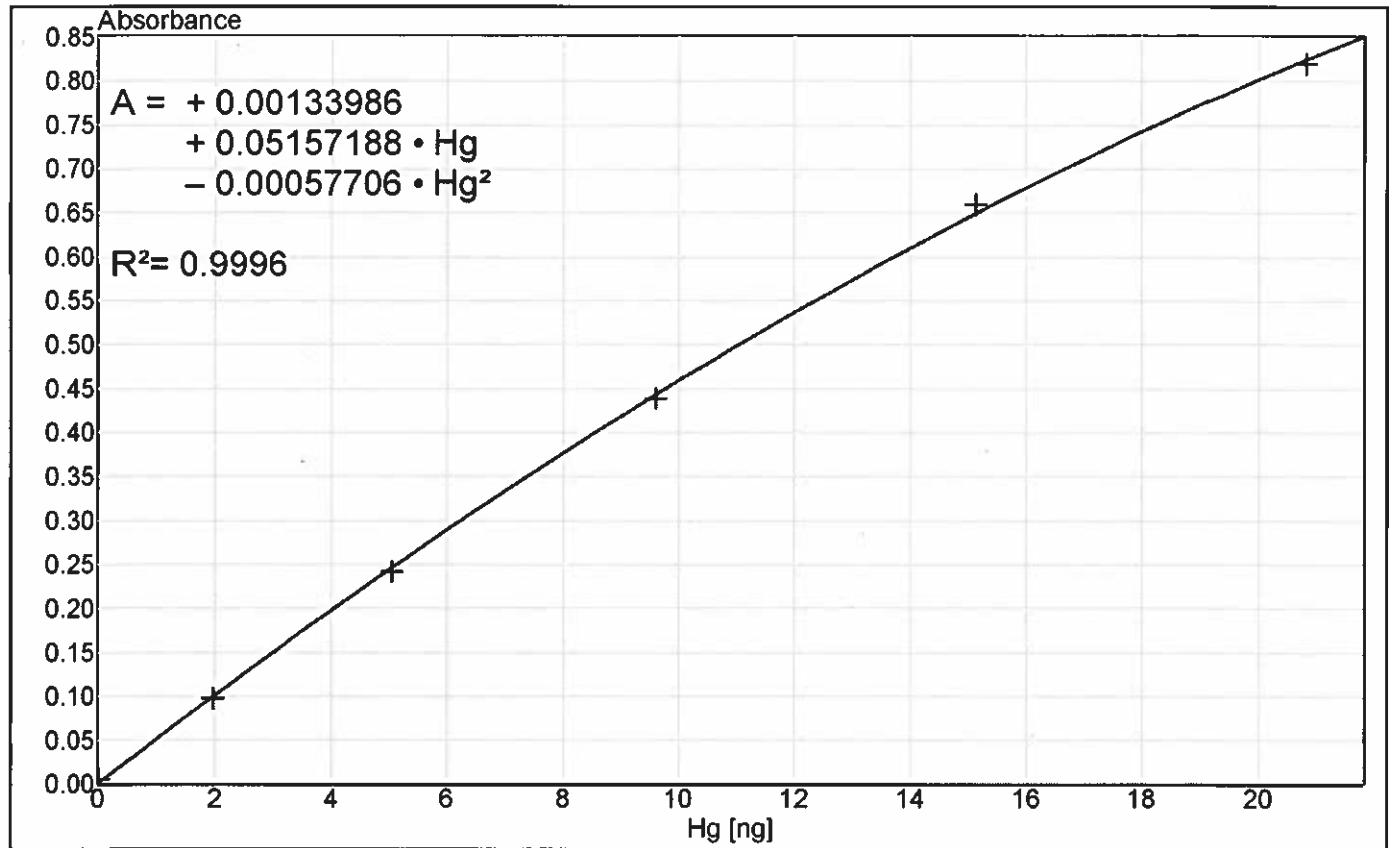
Pos Nr	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal- Factor	Calibration file Date	Method file Date
1	CA10 235925_12091	0.0254 g 25.09.19 10:14	✓ C 25.09.19 10:14	0.2230	254.0000	10.0000		1.0000	<data not saved> 25.09.19 10:24	7473 Biota.m80 31.10.11 13:06
22	-									
-	auto BV (1) 	0.0000 g 25.09.19 10:25	✓ B 25.09.19 10:24	0.0830	1.6123			1.0000	09252019CAL.c80 25.09.19 10:13	
23	-									
-	auto BV (2)	0.0000 g 25.09.19 10:28	✓ B 25.09.19 10:27	0.0453	0.8611			1.0000	09252019CAL.c80 25.09.19 10:13	
24	-									
-	auto BV (3)	0.0000 g 25.09.19 10:32	✓ B 25.09.19 10:31	0.0320	0.5985			1.0000	09252019CAL.c80 25.09.19 10:13	
25	-									
-	auto BV (4) 	0.0000 g 25.09.19 10:35	✓ B 25.09.19 10:34	0.0255	0.4710			1.0000	09252019CAL.c80 25.09.19 10:13	
26	-									

Calibration data "09252019CAL.c80"

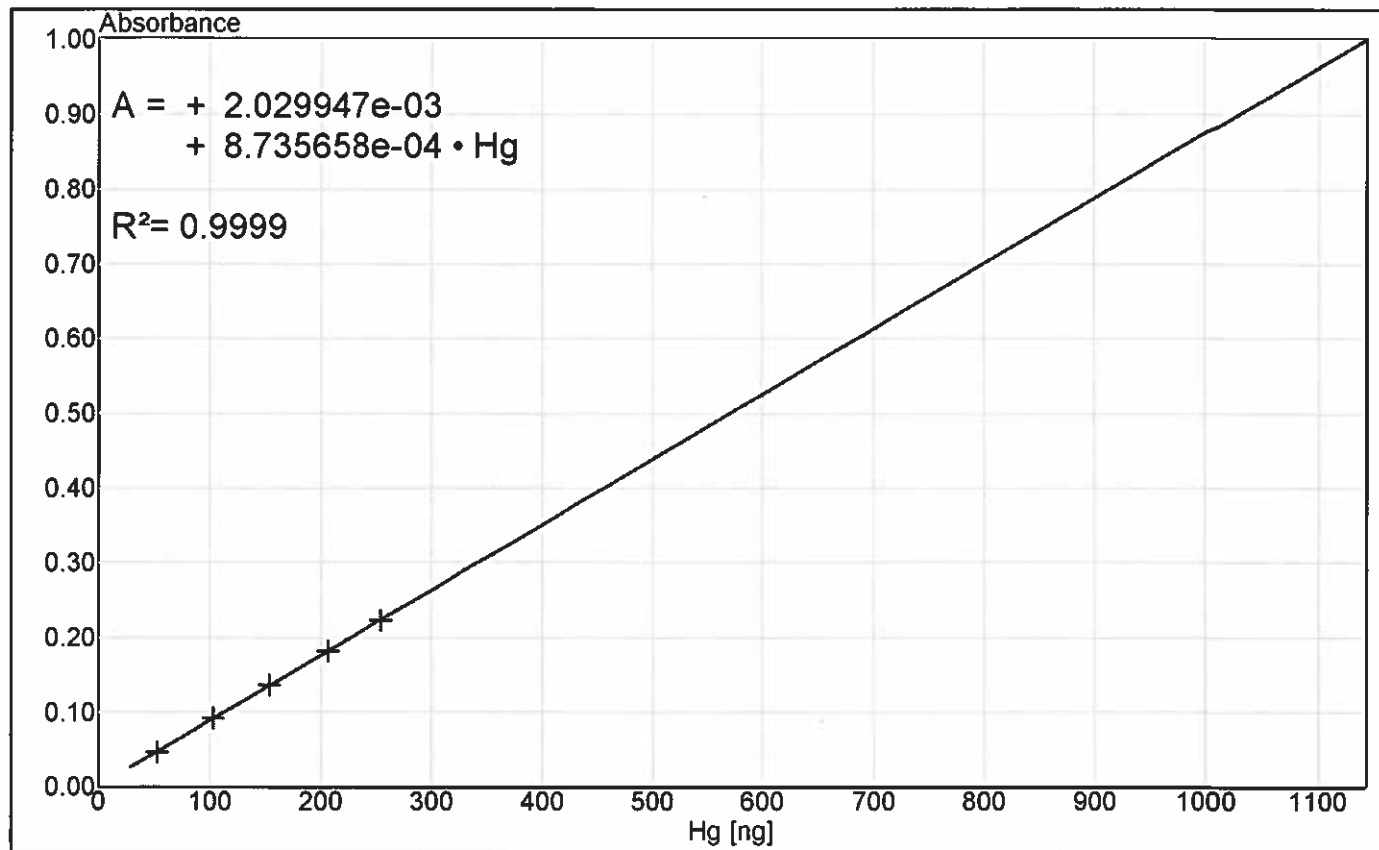
Created by "Administrator" at
25.09.2019 10:41:29

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Cell 1



Nr.		Hg [ng]	Height ^	Error ΔE [%]	Date	Remarks
1	✓	0.0000	0.0057	0.0044	25.09.2019 07:47:45	
2	✓	1.9520	0.0983	-0.0015	25.09.2019 07:59:16	
3	✓	5.0400	0.2421	-0.0045	25.09.2019 08:10:52	
4	✓	9.6000	0.4387	-0.0045	25.09.2019 08:30:11	
5	✓	15.1200	0.6597	0.0105	25.09.2019 08:43:00	
6	✓	20.8000	0.8201	-0.0043	25.09.2019 08:55:38	



Nr.		Hg [ng]	Height ^	Error ΔE [%]	Date	Remarks
1	✓	51.8000	0.0465	-0.0008	25.09.2019 09:09:23	
2	✓	102.4000	0.0917	0.0002	25.09.2019 09:22:40	
3	✓	153.0000	0.1367	0.0010	25.09.2019 09:40:34	
4	✓	205.6000	0.1821	0.0005	25.09.2019 10:00:26	
5	✓	254.0000	0.2230	-0.0009	25.09.2019 10:25:13	

Sample listing "10032019A_40HG4_AJD.d80"

Created by "Administrator"
04.10.2019 06:04:04

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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 10-3-19 AJD	0.0000 g 03.10.19 06:18	✓ B 03.10.19 11:33	0.0005	0.0000			1.0000	09252019CAL.c80 25.09.19 10:41	
2	PURGE 10-3-19 AJD	0.0000 g 3.10.19 06:18	✓ B 03.10.19 11:35	0.0002	0.0000			1.0000	09252019CAL.c80 25.09.19 10:41	
3	PURGE 10-3-19 AJD	0.0000 g 3.10.19 06:18	✓ B 03.10.19 11:39	0.0001	0.0000			1.0000	09252019CAL.c80 25.09.19 10:41	
4	ICVB 236637_12114 97%	0.0254 g 10.19 11:52	✓ 03.10.19 11:47	0.3495	7.3565	0.2896		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
5	ICVA 236638_12114 101%	0.0259 g 10.19 12:04	✓ 03.10.19 12:00	0.1164	130.9232	5.0550		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
6	auto BV (1)	0.0000 g 03.10.19 12:14	✓ B 03.10.19 12:09	0.0285	0.5294			1.0000	09252019CAL.c80 25.09.19 10:41	
7	auto BV (2)	0.0000 g 03.10.19 12:18	✓ B 03.10.19 12:13	0.0099	0.1663			1.0000	09252019CAL.c80 25.09.19 10:41	
8	CCB 236639_12114 <0.02	0.1000 g 10.19 12:24	✓ 03.10.19 12:19	0.0235	0.4318	0.0043		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
9	CRDL 236636_12114 110%	0.0253 g 03.10.19 12:37	✓ 03.10.19 12:33	0.1130	2.2203	0.0878		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
10	1951916_12113 230312 <0.02	0.1000 g 03.10.19 12:50	✓ 03.10.19 12:47	0.0246	0.4533	0.0045		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
11	1951917_12113 218069 109%	0.0490 g 03.10.19 13:04	✓ 03.10.19 12:59	0.5965	13.6158	0.2779		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
12	40194809001_12113	0.1032 g 03.10.19 13:18	✓ 03.10.19 13:50	0.2320	4.7221	0.0458		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
13	1951918_12113	0.1036 g 03.10.19 13:19	✓ 03.10.19 13:59	0.0256	26.9814	0.2604		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
14	1951919_12113	0.1033 g 03.10.19 13:20	✓ 03.10.19 14:11	0.0263	27.7827	0.2690		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
15	40194809002_12113	0.1011 g 03.10.19 13:22	✓ 03.10.19 14:22	0.4934	10.8605	0.1074		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
16	40194809003_12113	0.1066 g 03.10.19 13:23	✓ 03.10.19 14:34	0.5281	11.7621	0.1103		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
17	40194809004_12113	0.1073 g 03.10.19 13:24	✓ 03.10.19 14:45	0.5322	11.8702	0.1106		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
18	40194809005_12113	0.1016 g 03.10.19 13:24	✓ 03.10.19 14:57	0.5589	12.5830	0.1238		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
19	40194809006_12113	0.1006 g 03.10.19 13:26	✓ 03.10.19 15:08	0.0297	0.5533	0.0055		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
20	CCVB 229870_12114 100%	0.0271 g 03.10.19 13:27	✓ 03.10.19 15:20	0.3741	7.9320	0.2927		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
21	CCVA 146935_12114 104%	0.0273 g 03.10.19 13:28	✓ 03.10.19 15:31	0.1056	118.5601	4.3429		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06

Sample listing "10032019A_40HG4_AJD.d80"

Created by "Administrator"

04.10.2019 06:04:04

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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 (1)	0.0000 g 03.10.19 15:46	✓ B 03.10.19 15:43	0.0056	0.0827			1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
13	CCB 236639_12114 -0.02	0.1000 g 03.10.19 13:30	✓ 03.10.19 15:46	0.0050	0.0710	0.0007		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
14	40194809007_12113	0.1037 g 03.10.19 13:31	✓ 03.10.19 15:57	0.0379	0.7146	0.0069		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
15	40194809008_12113	0.1055 g 03.10.19 13:32	✓ 03.10.19 16:08	0.0336	0.6300	0.0060		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
16	40194809009_12113	0.1031 g 03.10.19 13:33	✓ 03.10.19 16:20	0.0296	0.5514	0.0053		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
17	40194809010_12113	0.1049 g 03.10.19 13:34	✓ 03.10.19 16:31	0.0323	0.6044	0.0058		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
18	40194809011_12113	0.1030 g 03.10.19 13:35	✓ 03.10.19 16:43	0.0339	0.6359	0.0062		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
19	40194809012_12113	0.1020 g 03.10.19 13:36	✓ 03.10.19 16:54	0.7572	18.4762	0.1811		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
20	40194809013_12113	0.1074 g 03.10.19 13:38	✓ 03.10.19 17:06	0.0300	32.0183	0.2981		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
21	40194809014_12113	0.1024 g 03.10.19 13:39	✓ 03.10.19 17:17	0.7775	19.1561	0.1871		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
22	40194809015_12113	0.1058 g 03.10.19 13:40	✓ 03.10.19 17:28	0.0195	19.9986	0.1890		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
23	40194809016_12113	0.1009 g 03.10.19 13:42	✓ 03.10.19 17:40	0.5524	12.4080	0.1230		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
24	CCVB 229870_12114 99%	0.0275 g 03.10.19 13:43	✓ 03.10.19 17:51	0.3755	7.9650	0.2896		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
25	CCVA 146935_12114 102%	0.0273 g 03.10.19 13:44	✓ 03.10.19 18:03	0.1043	117.0720	4.2884		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
26	auto BV (1)	0.0000 g 03.10.19 18:20	✓ B 03.10.19 18:14	0.0047	0.0652			1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
27	CCB 236639_12114 0.02	0.1000 g 03.10.19 13:45	✓ 03.10.19 18:18	0.0048	0.0671	0.0007		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
28	40194809017_12113	0.1015 g 03.10.19 13:45	✓ 03.10.19 18:29	0.7562	18.4432	0.1817		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
29	40194809018_12113	0.1064 g 03.10.19 13:47	✓ 03.10.19 18:40	0.4394	9.5051	0.0893		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
30	40194809019_12113	0.1077 g 03.10.19 13:48	✓ 03.10.19 18:52	0.5870	13.3506	0.1240		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
31	40194809020_12113	0.1081 g 03.10.19 13:49	✓ 03.10.19 19:03	0.5265	11.7191	0.1084		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
32	40194809021_12113	0.1001 g 03.10.19 13:51	✓ 03.10.19 19:14	0.0019	0.0109	0.0001		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06

Sample listing "10032019A_40HG4_AJD.d80"

Created by "Administrator"

04.10.2019 06:04:04

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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
32 43	CCVB 229870_12114 102%	0.0273 g 03.10.19 13:51	✓ 03.10.19 19:26	0.3820	8.1187	0.2974		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
33 44	CCVA 146935_12114 102%	0.0270 g 03.10.19 13:52	✓ 03.10.19 19:37	0.1028	115.3549	4.2724		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06
34 45	auto BV (1)	0.0000 g 03.10.19 19:55	✓ B 03.10.19 19:49	0.0053	0.0769			1.0000	09252019CAL.c80 25.09.19 10:41	
34 46	CCB 236639_12114 <0.02	0.1000 g 03.10.19 13:55	✓ 03.10.19 19:52	0.0042	0.0555	0.0006		1.0000	09252019CAL.c80 25.09.19 10:41	7473 Biota.m80 31.10.11 13:06

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-F-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.9		%	1	09/25/2019 13:29

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-F-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	79.6		%	1	09/25/2019 13:29

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
CUF-FH-CC-WCD-F-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.4		%	1	09/25/2019 13:29

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-F-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.0		%	1	09/25/2019 13:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-F-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.5		%	1	09/25/2019 13:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURA-O-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	59.0		%	1	09/25/2019 13:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-O-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	58.3		%	1	09/25/2019 13:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-O-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	57.1		%	1	09/25/2019 13:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-O-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809009 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	59.0		%	1	09/25/2019 13:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCU-O-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809010 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	59.8		%	1	09/25/2019 13:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-O-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809011 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	59.1		%	1	09/25/2019 13:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURA-L-
20190520

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809012 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.7		%	1	09/25/2019 13:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURD-L-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809013 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	81.0		%	1	09/25/2019 13:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-CURU-L-
20190507

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809014 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.8		%	1	09/25/2019 13:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-WCD-L-
20190501

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809015 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.5		%	1	09/25/2019 13:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
CUF-FH-CC-WCU-L-
20190508

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809016 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	80.4		%	1	09/25/2019 13:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-CC-L-DUP01-
20190430

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809017 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	81.3		%	1	09/25/2019 13:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURA-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809018 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	81.0		%	1	09/25/2019 13:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURD-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809019 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	82.0		%	1	09/25/2019 13:33

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CUF-FH-RS-CURU-F-
20190429

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLAND
Lab Sample ID: 40194809020 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	81.1		%	1	09/25/2019 13:33

SAMPLE NO.

FORM VI INORGANIC-1
DUPLICATES

1946079DUP

Lab Name: Pace Analytical - Green Bay SDG No. : 40194809 Contract: 0777010 CUMBERLANDMatrix: Tissue Concentration Units: %Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	10	80.9	80.9	0

Batch Information: OEXT DRY WT TVA 40194809 335214

Analysis Method	ASTM D2974-87		Analyzed By	CWN
Thermometer ID	40OVNK		Oven Temp Correction Factor	0
Reviewed By	CAH		Reviewed By Date	09/28/2019 10:14

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight Av Dish (g)	Dish Weight (g)	Wet Weight Av Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
DRYWGT RPT PS		40194809001	Y		19.11	80.89	09/25/2019 13:29:00	1.3721	0.9405	3.1988	1.3721	M	
DRYWGT RPT DUP		1946079	Y		19.13	80.87	09/25/2019 13:29:12	1.3158	0.9334	2.9319	1.3158	M	
DRYWGT RPT PS		40194809002	Y		20.43	79.57	09/25/2019 13:29:40	1.4316	0.9339	3.3699	1.4316	M	
DRYWGT RPT PS		40194809003	Y		19.62	80.38	09/25/2019 13:29:52	1.3916	0.9342	3.2658	1.3916	M	
DRYWGT RPT PS		40194809004	Y		19.96	80.04	09/25/2019 13:30:05	1.4676	0.9322	3.6144	1.4676	M	
DRYWGT RPT PS		40194809005	Y		19.45	80.55	09/25/2019 13:30:15	1.2961	0.9296	2.8138	1.2961	M	
DRYWGT RPT PS		40194809006	Y		41.03	58.97	09/25/2019 13:30:27	2.1969	0.932	4.0152	2.1969	M	
DRYWGT RPT PS		40194809007	Y		41.66	58.34	09/25/2019 13:30:39	2.1546	0.9267	3.8739	2.1546	M	
DRYWGT RPT PS		40194809008	Y		42.94	57.06	09/25/2019 13:30:49	2.2303	0.928	3.961	2.2303	M	
DRYWGT RPT PS		40194809009	Y		40.99	59.01	09/25/2019 13:31:00	2.261	0.9258	4.1832	2.261	M	
DRYWGT RPT PS		40194809010	Y		40.18	59.82	09/25/2019 13:31:10	2.1506	0.9351	3.9605	2.1506	M	
DRYWGT RPT PS		40194809011	Y		40.94	59.06	09/25/2019 13:31:25	2.4929	0.9349	4.7409	2.4929	M	
DRYWGT RPT PS		40194809012	Y		19.35	80.65	09/25/2019 13:31:35	1.2446	0.9396	2.5162	1.2446	M	
DRYWGT RPT PS		40194809013	Y		19.01	80.99	09/25/2019 13:31:49	1.3028	0.9307	2.8881	1.3028	M	
DRYWGT RPT PS		40194809014	Y		19.22	80.78	09/25/2019 13:32:01	1.2159	0.9284	2.4246	1.2159	M	
DRYWGT RPT PS		40194809015	Y		19.50	80.50	09/25/2019 13:32:14	1.2828	0.9247	2.7615	1.2828	M	
DRYWGT RPT PS		40194809016	Y		19.58	80.42	09/25/2019 13:32:25	1.3025	0.9247	2.854	1.3025	M	
DRYWGT RPT PS		40194809017	Y		18.66	81.34	09/25/2019 13:32:37	1.4421	0.9247	3.6975	1.4421	M	

Template Version: F-GB-C-034-Rev.05 (26Mar2018) Percent

Instrument	40BALL	Oven ID	40OVNK
Oven Temp In1 (C) Corr Date/Time Init	104.0 104.0 09/25/2019 14:08 CWN	Oven Temp Out1 (C) Corr Date/Time Init	104.0 104.0 09/26/2019 05:39 CWN
Batch Notes			

QC Rule	Sample Type	Lab Sample ID	Select	ID	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
DRYWT RPT PS		40194809018	Y		18.97	81.03	09/25/2019 13:32:48	1.3451	0.9269	3.1315	1.3451	M	
DRYWT RPT PS		40194809019	Y		17.99	82.01	09/25/2019 13:33:01	1.3269	0.9345	3.1157	1.3269	M	
DRYWT RPT PS		40194809020	Y		18.87	81.13	09/25/2019 13:33:10	1.4244	0.9308	3.5466	1.4244	M	

Batch Information: TVA 40194809 335212

Template Version: F-GB-O-161-Rev.00 (29May2019)

Prep Method	Prepared By		CWN	Thaw Date/Time		09/24/2019 10:47:41:624	Thaw Location	40FRG21
Prep Date Date/Time	Instrument		40BALR	Reviewed By		CAH	Reviewed By Date	09/25/2019 15:32
Batch Notes								

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Tissue Type	Nitrogen	Skin/Scale Prep	Portion	Picture Taken?	Total Weight (g)	Organs Intact?	Gender	Fillet Weight (g)	Fillet Selected	Picture Taken?
TISSUE_P	PS	40194809001	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809002	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809003	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809004	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809005	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809006	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809007	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809008	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809009	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809010	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809011	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809012	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809013	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809014	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809015	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809016	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809017	Y	FISH/ORGA NS	No	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809018	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA

QC Rule	Sample Type	Lab Sample ID	Select	Tissue Type	Nitrogen	Skin/Scale Prep	Portion	Picture Taken?	Total Weight (g)	Organs Intact?	Gender	Fillet Weight (g)	Fillet Selected	Picture Taken?
TISSUE_P	PS	40194809019	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA
TISSUE_P	PS	40194809020	Y	FISH/ORGA NS	Yes	NA	NA	NA	0	NA	NA	0	NA	NA

40194809

QC Rule	Sample Type	Lab Sample ID	Container Type	Container Lot #	# of Containers	Picture Taken?	Homogenized Weight (g)	Process Method	Sample Notes
TISSUE_P	PS	40194809001	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809002	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809003	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809004	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809005	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809006	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809007	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809008	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809009	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809010	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809011	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809012	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*
TISSUE_P	PS	40194809013	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*
TISSUE_P	PS	40194809014	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*
TISSUE_P	PS	40194809015	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*
TISSUE_P	PS	40194809016	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*

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QC Rule	Sample Type	Lab Sample ID	Container Type	Container Lot #	# of Containers	Picture Taken?	Homogenized Weight (g)	Process Method	Sample Notes
TISSUE_P	PS	40194809017	9oz Amber Glass	F-9-140-02AB	1	NA	0	Hand Diced	1*
TISSUE_P	PS	40194809018	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809019	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*
TISSUE_P	PS	40194809020	9oz Amber Glass	F-9-140-02AB	1	NA	0	Blender	1*

Sample Notes:

1*: RINSE BLANK 40194809-021-B