

## ANALYTICAL REPORT

Job Number: 240-17796-2

Job Description: RVAAP - ECC

For:

Environmental Chemical Corp.  
33 Boston Post Road West  
Suite 40  
Marlborough, MA 01752  
Attention: Mr. Jackson Kiker



Approved for release.  
Mark J Loeb  
Project Manager II  
12/27/2012 5:54 PM

---

Mark J Loeb  
Project Manager II  
mark.loeb@testamericainc.com  
12/27/2012

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	4
Report Narrative . . . . .	4
Sample Summary . . . . .	6
Executive Summary . . . . .	7
Method Summary . . . . .	30
Method / Analyst Summary . . . . .	31
Sample Datasheets . . . . .	32
QC Data Summary . . . . .	55
Data Qualifiers . . . . .	68
QC Association Summary . . . . .	69
Lab Chronicle . . . . .	71
Reagent Traceability . . . . .	77
COAs . . . . .	84
Certification Summary . . . . .	112
Inorganic Sample Data . . . . .	113
Metals Data . . . . .	113
Met Cover Page . . . . .	114
Met Sample Data . . . . .	115
Met QC Data . . . . .	138
Met ICV/CCV . . . . .	138
Met CRQL . . . . .	142
Met Blanks . . . . .	145
Met ICSA/ICSAB . . . . .	152
Met MS/MSD/PDS . . . . .	156
Met Dup/Trip . . . . .	160

# Table of Contents

Met LCS/LCSD .....	162
Met Serial Dilution .....	164
Met MDL .....	166
Met Linear Ranges .....	168
Met Preparation Log .....	169
Met Analysis Run Log .....	171
Met ICP/MS Int Stds .....	183
Met Raw Data .....	189
Met Prep Data .....	380
Subcontracted Data .....	385
Shipping and Receiving Documents .....	386
Client Chain of Custody .....	387
Sample Receipt Checklist .....	394

## CASE NARRATIVE

**Client: Environmental Chemical Corp.**

**Project: RVAAP - ECC**

**Report Number: 240-17796-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6020 Metals analysis was performed at the TestAmerica Pittsburgh Laboratory,

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

### **RECEIPT**

The samples were received on 11/16/2012 6:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 1.0° C, 1.2° C, 1.2° C, 1.4° C, 1.4° C, 1.6° C, 1.8° C, 2.0° C, 2.2° C and 2.2° C.

### **TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATION**

Samples 076SB-0023M-0001-SO (240-17796-1), 076SS-0022M-0001-SO (240-17796-2), 076SB-0024M-0001-SO (240-17796-3), 076SB-0025M-0001-SO (240-17796-4), 076SB-0026M-0001-SO (240-17796-5), 076SB-0027M-0001-SO (240-17796-6), 076SB-0028M-0001-SO (240-17796-7), 076SB-0029M-0001-SO (240-17796-8), 076SB-0053M-0001-SO (240-17796-9), 076SS-0007M-0001-SO (240-17796-10), 076SB-0054M-0001-SO (240-17796-11), 076SB-0055M-0001-SO (240-17796-12), 076SB-0056M-0001-SO (240-17796-13), 076SB-0057M-0001-SO (240-17796-14), 076SB-0058M-0001-SO (240-17796-15), 076SB-0059M-0001-SO (240-17796-16), 076SB-0060M-0001-SO (240-17796-22), 076SB-0061M-0001-SO (240-17796-23), 076SB-0062M-0001-SO (240-17796-24), 076SB-0063M-0001-SO (240-17796-25), 076SB-0064M-0001-SO (240-17796-26), 076SB-0065M-0001-SO (240-17796-27) and 076SB-0066M-0001-SO (240-17796-28) were analyzed for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 6020 DoD. The samples began the drying and disaggregation process on 11/21/2012, were prepared on 11/27/2012 and 11/28/2012 and analyzed on 12/22/2012 and 12/23/2012.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Several analytes were detected in method blanks MB 180-59062/1-A and MB 180-59171/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated

sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Aluminum, Iron and Zinc failed the recovery criteria high for the MS of sample 076SB-0023M-0001-SOMS (240-17796-1) in batch 180-59262.

Calcium failed the recovery criteria low for the MS of sample 076SB-0064M-0001-SOMS (240-17796-26) in batch 180-59262. Aluminum, Iron and Manganese failed the recovery criteria high.

The matrix spike (MS) recoveries for the following sample associated with batch 59171 were outside control limits for antimony and thallium.: 076SB-0064M-0001-SO (240-17796-26). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of several analytes, the matrix spike (MS) for batch 59171 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike (MS) recoveries for the following sample associated with batch 59062 were outside control limits for antimony and thallium.: 076SB-0023M-0001-SO (240-17796-1). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of several analytes, the matrix spike(MS) for batch 59062 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

The interference check standard solution (ICSA) associated with batches 59062 and 59171 showed results for one or more elements at a level greater than the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
240-17796-1	076SB-0023M-0001-SO	Solid	11/15/2012 0915	11/16/2012 1842
240-17796-2	076SS-0022M-0001-SO	Solid	11/15/2012 1225	11/16/2012 1842
240-17796-3	076SB-0024M-0001-SO	Solid	11/15/2012 1020	11/16/2012 1842
240-17796-4	076SB-0025M-0001-SO	Solid	11/15/2012 0900	11/16/2012 1842
240-17796-5	076SB-0026M-0001-SO	Solid	11/15/2012 0920	11/16/2012 1842
240-17796-6	076SB-0027M-0001-SO	Solid	11/15/2012 0940	11/16/2012 1842
240-17796-7	076SB-0028M-0001-SO	Solid	11/15/2012 1000	11/16/2012 1842
240-17796-8	076SB-0029M-0001-SO	Solid	11/15/2012 1225	11/16/2012 1842
240-17796-9	076SB-0053M-0001-SO	Solid	11/15/2012 1555	11/16/2012 1842
240-17796-10	076SS-0007M-0001-SO	Solid	11/15/2012 1545	11/16/2012 1842
240-17796-11	076SB-0054M-0001-SO	Solid	11/15/2012 1555	11/16/2012 1842
240-17796-12	076SB-0055M-0001-SO	Solid	11/15/2012 1345	11/16/2012 1842
240-17796-13	076SB-0056M-0001-SO	Solid	11/15/2012 1410	11/16/2012 1842
240-17796-14	076SB-0057M-0001-SO	Solid	11/15/2012 1440	11/16/2012 1842
240-17796-15	076SB-0058M-0001-SO	Solid	11/15/2012 1530	11/16/2012 1842
240-17796-16	076SB-0059M-0001-SO	Solid	11/15/2012 1600	11/16/2012 1842
240-17796-22	076SB-0060M-0001-SO	Solid	11/15/2012 1735	11/16/2012 1842
240-17796-23	076SB-0061M-0001-SO	Solid	11/15/2012 1735	11/16/2012 1842
240-17796-24	076SB-0062M-0001-SO	Solid	11/15/2012 1705	11/16/2012 1842
240-17796-25	076SB-0063M-0001-SO	Solid	11/15/2012 1715	11/16/2012 1842
240-17796-26	076SB-0064M-0001-SO	Solid	11/15/2012 1725	11/16/2012 1842
240-17796-27	076SB-0065M-0001-SO	Solid	11/15/2012 1740	11/16/2012 1842
240-17796-28	076SB-0066M-0001-SO	Solid	11/15/2012 1650	11/16/2012 1842

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-1</b>	<b>076SB-0023M-0001-SO</b>					
Silver		0.021	J	0.094	mg/Kg	6020/DOD
Aluminum		7300		2.8	mg/Kg	6020/DOD
Arsenic		11		0.094	mg/Kg	6020/DOD
Barium		50	Q	0.94	mg/Kg	6020/DOD
Beryllium		0.44		0.094	mg/Kg	6020/DOD
Calcium		950		9.4	mg/Kg	6020/DOD
Cadmium		0.14	Q	0.094	mg/Kg	6020/DOD
Chromium		18		0.19	mg/Kg	6020/DOD
Cobalt		7.3	Q	0.047	mg/Kg	6020/DOD
Copper		12	Q	0.19	mg/Kg	6020/DOD
Iron		22000		4.7	mg/Kg	6020/DOD
Magnesium		1500		9.4	mg/Kg	6020/DOD
Manganese		590	Q	0.47	mg/Kg	6020/DOD
Sodium		21		9.4	mg/Kg	6020/DOD
Nickel		16	Q	0.094	mg/Kg	6020/DOD
Lead		12		0.094	mg/Kg	6020/DOD
Antimony		0.11	J	0.19	mg/Kg	6020/DOD
Thallium		0.15		0.094	mg/Kg	6020/DOD
Vanadium		16		0.094	mg/Kg	6020/DOD
Zinc		46	Q	0.47	mg/Kg	6020/DOD
Potassium		570		9.4	mg/Kg	6020/DOD
Selenium		0.52		0.47	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-2</b>	<b>076SS-0022M-0001-SO</b>					
Silver		0.026	J	0.098	mg/Kg	6020/DOD
Aluminum		8400		2.9	mg/Kg	6020/DOD
Arsenic		11		0.098	mg/Kg	6020/DOD
Barium		51	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.51		0.098	mg/Kg	6020/DOD
Calcium		4300		9.8	mg/Kg	6020/DOD
Cadmium		0.13	Q	0.098	mg/Kg	6020/DOD
Chromium		17		0.20	mg/Kg	6020/DOD
Cobalt		8.2	Q	0.049	mg/Kg	6020/DOD
Copper		13	Q	0.20	mg/Kg	6020/DOD
Iron		22000		4.9	mg/Kg	6020/DOD
Magnesium		2200		9.8	mg/Kg	6020/DOD
Manganese		400	Q	0.49	mg/Kg	6020/DOD
Sodium		44		9.8	mg/Kg	6020/DOD
Nickel		17	Q	0.098	mg/Kg	6020/DOD
Lead		13		0.098	mg/Kg	6020/DOD
Antimony		0.10	J	0.20	mg/Kg	6020/DOD
Thallium		0.14		0.098	mg/Kg	6020/DOD
Vanadium		16		0.098	mg/Kg	6020/DOD
Zinc		40	Q	0.49	mg/Kg	6020/DOD
Potassium		800		9.8	mg/Kg	6020/DOD
Selenium		0.56		0.49	mg/Kg	6020/DOD



## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-3</b>	<b>076SB-0024M-0001-SO</b>					
Silver		0.020	J	0.093	mg/Kg	6020/DOD
Aluminum		5900		2.8	mg/Kg	6020/DOD
Arsenic		14		0.093	mg/Kg	6020/DOD
Barium		41	Q	0.93	mg/Kg	6020/DOD
Beryllium		0.37		0.093	mg/Kg	6020/DOD
Calcium		890		9.3	mg/Kg	6020/DOD
Cadmium		0.14	Q	0.093	mg/Kg	6020/DOD
Chromium		13		0.19	mg/Kg	6020/DOD
Cobalt		7.2	Q	0.046	mg/Kg	6020/DOD
Copper		16	Q	0.19	mg/Kg	6020/DOD
Iron		22000		4.6	mg/Kg	6020/DOD
Magnesium		1600		9.3	mg/Kg	6020/DOD
Manganese		470	Q	0.46	mg/Kg	6020/DOD
Sodium		22		9.3	mg/Kg	6020/DOD
Nickel		18	Q	0.093	mg/Kg	6020/DOD
Lead		11		0.093	mg/Kg	6020/DOD
Antimony		0.11	J	0.19	mg/Kg	6020/DOD
Thallium		0.12		0.093	mg/Kg	6020/DOD
Vanadium		12		0.093	mg/Kg	6020/DOD
Zinc		51	Q	0.46	mg/Kg	6020/DOD
Potassium		620		9.3	mg/Kg	6020/DOD
Selenium		0.43	J	0.46	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-4</b>	<b>076SB-0025M-0001-SO</b>					
Silver		0.019	J	0.091	mg/Kg	6020/DOD
Aluminum		6600		2.7	mg/Kg	6020/DOD
Arsenic		12		0.091	mg/Kg	6020/DOD
Barium		41	Q	0.91	mg/Kg	6020/DOD
Beryllium		0.35		0.091	mg/Kg	6020/DOD
Calcium		1100		9.1	mg/Kg	6020/DOD
Cadmium		0.17	Q	0.091	mg/Kg	6020/DOD
Chromium		17		0.18	mg/Kg	6020/DOD
Cobalt		7.0	Q	0.045	mg/Kg	6020/DOD
Copper		17	Q	0.18	mg/Kg	6020/DOD
Iron		21000		4.5	mg/Kg	6020/DOD
Magnesium		1800		9.1	mg/Kg	6020/DOD
Manganese		300	Q	0.45	mg/Kg	6020/DOD
Sodium		26		9.1	mg/Kg	6020/DOD
Nickel		19	Q	0.091	mg/Kg	6020/DOD
Lead		11		0.091	mg/Kg	6020/DOD
Antimony		0.092	J	0.18	mg/Kg	6020/DOD
Thallium		0.13		0.091	mg/Kg	6020/DOD
Vanadium		13		0.091	mg/Kg	6020/DOD
Zinc		50	Q	0.45	mg/Kg	6020/DOD
Potassium		620		9.1	mg/Kg	6020/DOD
Selenium		0.39	J	0.45	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-5</b>	<b>076SB-0026M-0001-SO</b>					
Silver		0.022	J	0.073	mg/Kg	6020/DOD
Aluminum		6300		2.2	mg/Kg	6020/DOD
Arsenic		13		0.073	mg/Kg	6020/DOD
Barium		37	Q	0.73	mg/Kg	6020/DOD
Beryllium		0.39		0.073	mg/Kg	6020/DOD
Calcium		700		7.3	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.073	mg/Kg	6020/DOD
Chromium		16		0.15	mg/Kg	6020/DOD
Cobalt		8.5	Q	0.036	mg/Kg	6020/DOD
Copper		15	Q	0.15	mg/Kg	6020/DOD
Iron		21000		3.6	mg/Kg	6020/DOD
Magnesium		1700		7.3	mg/Kg	6020/DOD
Manganese		450	Q	0.36	mg/Kg	6020/DOD
Sodium		20		7.3	mg/Kg	6020/DOD
Nickel		18	Q	0.073	mg/Kg	6020/DOD
Lead		13		0.073	mg/Kg	6020/DOD
Antimony		0.095	J	0.15	mg/Kg	6020/DOD
Thallium		0.13		0.073	mg/Kg	6020/DOD
Vanadium		13		0.073	mg/Kg	6020/DOD
Zinc		49	Q	0.36	mg/Kg	6020/DOD
Potassium		620		7.3	mg/Kg	6020/DOD
Selenium		0.41		0.36	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-6</b>	<b>076SB-0027M-0001-SO</b>					
Silver		0.037	J	0.087	mg/Kg	6020/DOD
Aluminum		7200		2.6	mg/Kg	6020/DOD
Arsenic		16		0.087	mg/Kg	6020/DOD
Barium		62	Q	0.87	mg/Kg	6020/DOD
Beryllium		0.47		0.087	mg/Kg	6020/DOD
Calcium		980		8.7	mg/Kg	6020/DOD
Cadmium		0.16	Q	0.087	mg/Kg	6020/DOD
Chromium		16		0.17	mg/Kg	6020/DOD
Cobalt		8.6	Q	0.043	mg/Kg	6020/DOD
Copper		11	Q	0.17	mg/Kg	6020/DOD
Iron		20000		4.3	mg/Kg	6020/DOD
Magnesium		1300		8.7	mg/Kg	6020/DOD
Manganese		930	Q	0.43	mg/Kg	6020/DOD
Sodium		17		8.7	mg/Kg	6020/DOD
Nickel		18	Q	0.087	mg/Kg	6020/DOD
Lead		16		0.087	mg/Kg	6020/DOD
Antimony		0.29		0.17	mg/Kg	6020/DOD
Thallium		0.12		0.087	mg/Kg	6020/DOD
Vanadium		14		0.087	mg/Kg	6020/DOD
Zinc		45	Q	0.43	mg/Kg	6020/DOD
Potassium		560		8.7	mg/Kg	6020/DOD
Selenium		0.46		0.43	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-7</b>	<b>076SB-0028M-0001-SO</b>					
Silver		0.013	J	0.076	mg/Kg	6020/DOD
Aluminum		6100		2.3	mg/Kg	6020/DOD
Arsenic		13		0.076	mg/Kg	6020/DOD
Barium		37	Q	0.76	mg/Kg	6020/DOD
Beryllium		0.34		0.076	mg/Kg	6020/DOD
Calcium		630		7.6	mg/Kg	6020/DOD
Cadmium		0.13	Q	0.076	mg/Kg	6020/DOD
Chromium		12		0.15	mg/Kg	6020/DOD
Cobalt		7.8	Q	0.038	mg/Kg	6020/DOD
Copper		15	Q	0.15	mg/Kg	6020/DOD
Iron		20000		3.8	mg/Kg	6020/DOD
Magnesium		1600		7.6	mg/Kg	6020/DOD
Manganese		380	Q	0.38	mg/Kg	6020/DOD
Sodium		17		7.6	mg/Kg	6020/DOD
Nickel		15	Q	0.076	mg/Kg	6020/DOD
Lead		11		0.076	mg/Kg	6020/DOD
Antimony		0.090	J	0.15	mg/Kg	6020/DOD
Thallium		0.099		0.076	mg/Kg	6020/DOD
Vanadium		13		0.076	mg/Kg	6020/DOD
Zinc		46	Q	0.38	mg/Kg	6020/DOD
Potassium		580		7.6	mg/Kg	6020/DOD
Selenium		0.51		0.38	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-8</b>	<b>076SB-0029M-0001-SO</b>					
Silver		0.024	J	0.085	mg/Kg	6020/DOD
Aluminum		6000		2.6	mg/Kg	6020/DOD
Arsenic		11		0.085	mg/Kg	6020/DOD
Barium		48	Q	0.85	mg/Kg	6020/DOD
Beryllium		0.47		0.085	mg/Kg	6020/DOD
Calcium		1600		8.5	mg/Kg	6020/DOD
Cadmium		0.17	Q	0.085	mg/Kg	6020/DOD
Chromium		18		0.17	mg/Kg	6020/DOD
Cobalt		7.2	Q	0.043	mg/Kg	6020/DOD
Copper		13	Q	0.17	mg/Kg	6020/DOD
Iron		24000		4.3	mg/Kg	6020/DOD
Magnesium		1400		8.5	mg/Kg	6020/DOD
Manganese		710	Q	0.43	mg/Kg	6020/DOD
Sodium		27		8.5	mg/Kg	6020/DOD
Nickel		17	Q	0.085	mg/Kg	6020/DOD
Lead		16		0.085	mg/Kg	6020/DOD
Antimony		0.11	J	0.17	mg/Kg	6020/DOD
Thallium		0.11		0.085	mg/Kg	6020/DOD
Vanadium		14		0.085	mg/Kg	6020/DOD
Zinc		50	Q	0.43	mg/Kg	6020/DOD
Potassium		500		8.5	mg/Kg	6020/DOD
Selenium		0.43		0.43	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-9</b>	<b>076SB-0053M-0001-SO</b>					
Silver		0.024	J	0.081	mg/Kg	6020/DOD
Aluminum		7700		2.4	mg/Kg	6020/DOD
Arsenic		12		0.081	mg/Kg	6020/DOD
Barium		36	Q	0.81	mg/Kg	6020/DOD
Beryllium		0.39		0.081	mg/Kg	6020/DOD
Calcium		1700		8.1	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.081	mg/Kg	6020/DOD
Chromium		17		0.16	mg/Kg	6020/DOD
Cobalt		7.3	Q	0.040	mg/Kg	6020/DOD
Copper		15	Q	0.16	mg/Kg	6020/DOD
Iron		20000		4.0	mg/Kg	6020/DOD
Magnesium		2300		8.1	mg/Kg	6020/DOD
Manganese		270	Q	0.40	mg/Kg	6020/DOD
Sodium		32		8.1	mg/Kg	6020/DOD
Nickel		20	Q	0.081	mg/Kg	6020/DOD
Lead		11		0.081	mg/Kg	6020/DOD
Antimony		0.064	J	0.16	mg/Kg	6020/DOD
Thallium		0.11		0.081	mg/Kg	6020/DOD
Vanadium		14		0.081	mg/Kg	6020/DOD
Zinc		45	Q	0.40	mg/Kg	6020/DOD
Potassium		750		8.1	mg/Kg	6020/DOD
Selenium		0.32	J	0.40	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-10</b>	<b>076SS-0007M-0001-SO</b>					
Silver		0.22		0.097	mg/Kg	6020/DOD
Aluminum		7800		2.9	mg/Kg	6020/DOD
Arsenic		9.2		0.097	mg/Kg	6020/DOD
Barium		52	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.41		0.097	mg/Kg	6020/DOD
Calcium		2400		9.7	mg/Kg	6020/DOD
Cadmium		0.29	Q	0.097	mg/Kg	6020/DOD
Chromium		18		0.19	mg/Kg	6020/DOD
Cobalt		6.1	Q	0.049	mg/Kg	6020/DOD
Copper		14	Q	0.19	mg/Kg	6020/DOD
Iron		19000		4.9	mg/Kg	6020/DOD
Magnesium		1600		9.7	mg/Kg	6020/DOD
Manganese		290	Q	0.49	mg/Kg	6020/DOD
Sodium		25		9.7	mg/Kg	6020/DOD
Nickel		16	Q	0.097	mg/Kg	6020/DOD
Lead		20		0.097	mg/Kg	6020/DOD
Antimony		0.12	J	0.19	mg/Kg	6020/DOD
Thallium		0.12		0.097	mg/Kg	6020/DOD
Vanadium		16		0.097	mg/Kg	6020/DOD
Zinc		52	Q	0.49	mg/Kg	6020/DOD
Potassium		600		9.7	mg/Kg	6020/DOD
Selenium		0.50		0.49	mg/Kg	6020/DOD



## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-11</b>	<b>076SB-0054M-0001-SO</b>					
Silver		0.027	J	0.072	mg/Kg	6020/DOD
Aluminum		6700		2.2	mg/Kg	6020/DOD
Arsenic		14		0.072	mg/Kg	6020/DOD
Barium		30	Q	0.72	mg/Kg	6020/DOD
Beryllium		0.38		0.072	mg/Kg	6020/DOD
Calcium		5000		7.2	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.072	mg/Kg	6020/DOD
Chromium		15		0.14	mg/Kg	6020/DOD
Cobalt		8.6	Q	0.036	mg/Kg	6020/DOD
Copper		17	Q	0.14	mg/Kg	6020/DOD
Iron		22000		3.6	mg/Kg	6020/DOD
Magnesium		3400		7.2	mg/Kg	6020/DOD
Manganese		360	Q	0.36	mg/Kg	6020/DOD
Sodium		40		7.2	mg/Kg	6020/DOD
Nickel		22	Q	0.072	mg/Kg	6020/DOD
Lead		9.8		0.072	mg/Kg	6020/DOD
Antimony		0.058	J	0.14	mg/Kg	6020/DOD
Thallium		0.11		0.072	mg/Kg	6020/DOD
Vanadium		12		0.072	mg/Kg	6020/DOD
Zinc		50	Q	0.36	mg/Kg	6020/DOD
Potassium		890		7.2	mg/Kg	6020/DOD
Selenium		0.46		0.36	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-12</b>	<b>076SB-0055M-0001-SO</b>					
Silver		0.027	J	0.088	mg/Kg	6020/DOD
Aluminum		7200		2.6	mg/Kg	6020/DOD
Arsenic		15		0.088	mg/Kg	6020/DOD
Barium		29	Q	0.88	mg/Kg	6020/DOD
Beryllium		0.41		0.088	mg/Kg	6020/DOD
Calcium		5800		8.8	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.088	mg/Kg	6020/DOD
Chromium		13		0.18	mg/Kg	6020/DOD
Cobalt		9.4	Q	0.044	mg/Kg	6020/DOD
Copper		16	Q	0.18	mg/Kg	6020/DOD
Iron		23000		4.4	mg/Kg	6020/DOD
Magnesium		3800		8.8	mg/Kg	6020/DOD
Manganese		350	Q	0.44	mg/Kg	6020/DOD
Sodium		42		8.8	mg/Kg	6020/DOD
Nickel		22	Q	0.088	mg/Kg	6020/DOD
Lead		9.7		0.088	mg/Kg	6020/DOD
Antimony		0.053	J	0.18	mg/Kg	6020/DOD
Thallium		0.11		0.088	mg/Kg	6020/DOD
Vanadium		12		0.088	mg/Kg	6020/DOD
Zinc		47	Q	0.44	mg/Kg	6020/DOD
Potassium		940		8.8	mg/Kg	6020/DOD
Selenium		0.38	J	0.44	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-13</b>	<b>076SB-0056M-0001-SO</b>					
Silver		0.023	J	0.070	mg/Kg	6020/DOD
Aluminum		7300		2.1	mg/Kg	6020/DOD
Arsenic		12		0.070	mg/Kg	6020/DOD
Barium		34	Q	0.70	mg/Kg	6020/DOD
Beryllium		0.37		0.070	mg/Kg	6020/DOD
Calcium		2500		7.0	mg/Kg	6020/DOD
Cadmium		0.17	Q	0.070	mg/Kg	6020/DOD
Chromium		23		0.14	mg/Kg	6020/DOD
Cobalt		7.5	Q	0.035	mg/Kg	6020/DOD
Copper		19	Q	0.14	mg/Kg	6020/DOD
Iron		21000		3.5	mg/Kg	6020/DOD
Magnesium		2500		7.0	mg/Kg	6020/DOD
Manganese		330	Q	0.35	mg/Kg	6020/DOD
Sodium		33		7.0	mg/Kg	6020/DOD
Nickel		23	Q	0.070	mg/Kg	6020/DOD
Lead		10		0.070	mg/Kg	6020/DOD
Antimony		0.065	J	0.14	mg/Kg	6020/DOD
Thallium		0.11		0.070	mg/Kg	6020/DOD
Vanadium		13		0.070	mg/Kg	6020/DOD
Zinc		49	Q	0.35	mg/Kg	6020/DOD
Potassium		780		7.0	mg/Kg	6020/DOD
Selenium		0.46		0.35	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-14</b>	<b>076SB-0057M-0001-SO</b>					
Silver		0.026	J	0.098	mg/Kg	6020/DOD
Aluminum		8500		2.9	mg/Kg	6020/DOD
Arsenic		15		0.098	mg/Kg	6020/DOD
Barium		37	Q	0.98	mg/Kg	6020/DOD
Beryllium		0.46		0.098	mg/Kg	6020/DOD
Calcium		4000		9.8	mg/Kg	6020/DOD
Cadmium		0.13	Q	0.098	mg/Kg	6020/DOD
Chromium		19		0.20	mg/Kg	6020/DOD
Cobalt		8.5	Q	0.049	mg/Kg	6020/DOD
Copper		18	Q	0.20	mg/Kg	6020/DOD
Iron		23000		4.9	mg/Kg	6020/DOD
Magnesium		3200		9.8	mg/Kg	6020/DOD
Manganese		330	Q	0.49	mg/Kg	6020/DOD
Sodium		47		9.8	mg/Kg	6020/DOD
Nickel		23	Q	0.098	mg/Kg	6020/DOD
Lead		11		0.098	mg/Kg	6020/DOD
Antimony		0.063	J	0.20	mg/Kg	6020/DOD
Thallium		0.12		0.098	mg/Kg	6020/DOD
Vanadium		14		0.098	mg/Kg	6020/DOD
Zinc		62	Q	0.49	mg/Kg	6020/DOD
Potassium		1200		9.8	mg/Kg	6020/DOD
Selenium		0.38	J	0.49	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-15</b>	<b>076SB-0058M-0001-SO</b>					
Silver		0.022	J	0.088	mg/Kg	6020/DOD
Aluminum		8000		2.6	mg/Kg	6020/DOD
Arsenic		16		0.088	mg/Kg	6020/DOD
Barium		32	Q	0.88	mg/Kg	6020/DOD
Beryllium		0.47		0.088	mg/Kg	6020/DOD
Calcium		4100		8.8	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.088	mg/Kg	6020/DOD
Chromium		15		0.18	mg/Kg	6020/DOD
Cobalt		9.1	Q	0.044	mg/Kg	6020/DOD
Copper		16	Q	0.18	mg/Kg	6020/DOD
Iron		23000		4.4	mg/Kg	6020/DOD
Magnesium		3700		8.8	mg/Kg	6020/DOD
Manganese		350	Q	0.44	mg/Kg	6020/DOD
Sodium		43		8.8	mg/Kg	6020/DOD
Nickel		23	Q	0.088	mg/Kg	6020/DOD
Lead		9.4		0.088	mg/Kg	6020/DOD
Antimony		0.050	J	0.18	mg/Kg	6020/DOD
Thallium		0.11		0.088	mg/Kg	6020/DOD
Vanadium		13		0.088	mg/Kg	6020/DOD
Zinc		58	Q	0.44	mg/Kg	6020/DOD
Potassium		1100		8.8	mg/Kg	6020/DOD
Selenium		0.36	J	0.44	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-16</b>	<b>076SB-0059M-0001-SO</b>					
Silver		0.030	J	0.094	mg/Kg	6020/DOD
Aluminum		6600		2.8	mg/Kg	6020/DOD
Arsenic		12		0.094	mg/Kg	6020/DOD
Barium		31	Q	0.94	mg/Kg	6020/DOD
Beryllium		0.37		0.094	mg/Kg	6020/DOD
Calcium		2200		9.4	mg/Kg	6020/DOD
Cadmium		0.15	Q	0.094	mg/Kg	6020/DOD
Chromium		13		0.19	mg/Kg	6020/DOD
Cobalt		7.6	Q	0.047	mg/Kg	6020/DOD
Copper		15	Q	0.19	mg/Kg	6020/DOD
Iron		20000		4.7	mg/Kg	6020/DOD
Magnesium		2600		9.4	mg/Kg	6020/DOD
Manganese		300	Q	0.47	mg/Kg	6020/DOD
Sodium		37		9.4	mg/Kg	6020/DOD
Nickel		19	Q	0.094	mg/Kg	6020/DOD
Lead		10		0.094	mg/Kg	6020/DOD
Antimony		0.053	J	0.19	mg/Kg	6020/DOD
Thallium		0.10		0.094	mg/Kg	6020/DOD
Vanadium		12		0.094	mg/Kg	6020/DOD
Zinc		46	Q	0.47	mg/Kg	6020/DOD
Potassium		920		9.4	mg/Kg	6020/DOD
Selenium		0.41	J	0.47	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-22</b>	<b>076SB-0060M-0001-SO</b>					
Silver		0.028	J	0.096	mg/Kg	6020/DOD
Aluminum		6800		2.9	mg/Kg	6020/DOD
Arsenic		6.7		0.096	mg/Kg	6020/DOD
Barium		52	Q	0.96	mg/Kg	6020/DOD
Beryllium		0.60		0.096	mg/Kg	6020/DOD
Calcium		14000		9.6	mg/Kg	6020/DOD
Cadmium		0.16	Q	0.096	mg/Kg	6020/DOD
Chromium		13		0.19	mg/Kg	6020/DOD
Cobalt		4.2	Q	0.048	mg/Kg	6020/DOD
Copper		8.7	Q	0.19	mg/Kg	6020/DOD
Iron		14000		4.8	mg/Kg	6020/DOD
Magnesium		2400		9.6	mg/Kg	6020/DOD
Manganese		650	Q	0.48	mg/Kg	6020/DOD
Sodium		78		9.6	mg/Kg	6020/DOD
Nickel		10	Q	0.096	mg/Kg	6020/DOD
Lead		14		0.096	mg/Kg	6020/DOD
Antimony		0.18	J	0.19	mg/Kg	6020/DOD
Thallium		0.072	J	0.096	mg/Kg	6020/DOD
Vanadium		11		0.096	mg/Kg	6020/DOD
Zinc		33	Q	0.48	mg/Kg	6020/DOD
Potassium		810		9.6	mg/Kg	6020/DOD
Selenium		0.55		0.48	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-23</b>	<b>076SB-0061M-0001-SO</b>					
Silver		0.029	J	0.092	mg/Kg	6020/DOD
Aluminum		7900		2.8	mg/Kg	6020/DOD
Arsenic		14		0.092	mg/Kg	6020/DOD
Barium		53	Q	0.92	mg/Kg	6020/DOD
Beryllium		0.46		0.092	mg/Kg	6020/DOD
Calcium		1600		9.2	mg/Kg	6020/DOD
Cadmium		0.17	Q	0.092	mg/Kg	6020/DOD
Chromium		16		0.18	mg/Kg	6020/DOD
Cobalt		8.6	Q	0.046	mg/Kg	6020/DOD
Copper		16	Q	0.18	mg/Kg	6020/DOD
Iron		22000		4.6	mg/Kg	6020/DOD
Magnesium		2400		9.2	mg/Kg	6020/DOD
Manganese		350	Q	0.46	mg/Kg	6020/DOD
Sodium		37		9.2	mg/Kg	6020/DOD
Nickel		22	Q	0.092	mg/Kg	6020/DOD
Lead		11		0.092	mg/Kg	6020/DOD
Antimony		0.072	J	0.18	mg/Kg	6020/DOD
Thallium		0.11		0.092	mg/Kg	6020/DOD
Vanadium		14		0.092	mg/Kg	6020/DOD
Zinc		53	Q	0.46	mg/Kg	6020/DOD
Potassium		1100		9.2	mg/Kg	6020/DOD
Selenium		0.40	J	0.46	mg/Kg	6020/DOD



## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-24</b>	<b>076SB-0062M-0001-SO</b>					
Silver		0.052	J	0.097	mg/Kg	6020/DOD
Aluminum		7300		2.9	mg/Kg	6020/DOD
Arsenic		10		0.097	mg/Kg	6020/DOD
Barium		63	Q	0.97	mg/Kg	6020/DOD
Beryllium		0.46		0.097	mg/Kg	6020/DOD
Calcium		4000		9.7	mg/Kg	6020/DOD
Cadmium		0.24	Q	0.097	mg/Kg	6020/DOD
Chromium		16		0.19	mg/Kg	6020/DOD
Cobalt		6.0	Q	0.049	mg/Kg	6020/DOD
Copper		14	Q	0.19	mg/Kg	6020/DOD
Iron		19000		4.9	mg/Kg	6020/DOD
Magnesium		2300		9.7	mg/Kg	6020/DOD
Manganese		410	Q	0.49	mg/Kg	6020/DOD
Sodium		36		9.7	mg/Kg	6020/DOD
Nickel		18	Q	0.097	mg/Kg	6020/DOD
Lead		9.5		0.097	mg/Kg	6020/DOD
Antimony		0.058	J	0.19	mg/Kg	6020/DOD
Thallium		0.087	J	0.097	mg/Kg	6020/DOD
Vanadium		13		0.097	mg/Kg	6020/DOD
Zinc		42	Q	0.49	mg/Kg	6020/DOD
Potassium		1100		9.7	mg/Kg	6020/DOD
Selenium		0.43	J	0.49	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-25</b>	<b>076SB-0063M-0001-SO</b>					
Silver		0.027	J	0.078	mg/Kg	6020/DOD
Aluminum		7700		2.3	mg/Kg	6020/DOD
Arsenic		11		0.078	mg/Kg	6020/DOD
Barium		42	Q	0.78	mg/Kg	6020/DOD
Beryllium		0.38		0.078	mg/Kg	6020/DOD
Calcium		1300		7.8	mg/Kg	6020/DOD
Cadmium		0.16	Q	0.078	mg/Kg	6020/DOD
Chromium		14		0.16	mg/Kg	6020/DOD
Cobalt		7.5	Q	0.039	mg/Kg	6020/DOD
Copper		13	Q	0.16	mg/Kg	6020/DOD
Iron		19000		3.9	mg/Kg	6020/DOD
Magnesium		2000		7.8	mg/Kg	6020/DOD
Manganese		250	Q	0.39	mg/Kg	6020/DOD
Sodium		44		7.8	mg/Kg	6020/DOD
Nickel		17	Q	0.078	mg/Kg	6020/DOD
Lead		13		0.078	mg/Kg	6020/DOD
Antimony		0.13	J	0.16	mg/Kg	6020/DOD
Thallium		0.094		0.078	mg/Kg	6020/DOD
Vanadium		14		0.078	mg/Kg	6020/DOD
Zinc		44	Q	0.39	mg/Kg	6020/DOD
Potassium		1200		7.8	mg/Kg	6020/DOD
Selenium		0.47		0.39	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-26</b>	<b>076SB-0064M-0001-SO</b>					
Silver		0.021	J	0.092	mg/Kg	6020/DOD
Aluminum		6600		2.8	mg/Kg	6020/DOD
Arsenic		15		0.092	mg/Kg	6020/DOD
Barium		43	Q	0.92	mg/Kg	6020/DOD
Beryllium		0.43		0.092	mg/Kg	6020/DOD
Calcium		3700		9.2	mg/Kg	6020/DOD
Cadmium		0.19	Q	0.092	mg/Kg	6020/DOD
Chromium		18		0.18	mg/Kg	6020/DOD
Cobalt		8.1	Q	0.046	mg/Kg	6020/DOD
Copper		17	Q	0.18	mg/Kg	6020/DOD
Iron		22000		4.6	mg/Kg	6020/DOD
Magnesium		2100		9.2	mg/Kg	6020/DOD
Manganese		330	Q	0.46	mg/Kg	6020/DOD
Sodium		29		9.2	mg/Kg	6020/DOD
Nickel		21	Q	0.092	mg/Kg	6020/DOD
Lead		14		0.092	mg/Kg	6020/DOD
Antimony		0.12	J	0.18	mg/Kg	6020/DOD
Thallium		0.15		0.092	mg/Kg	6020/DOD
Vanadium		12		0.092	mg/Kg	6020/DOD
Zinc		54	Q	0.46	mg/Kg	6020/DOD
Potassium		810		9.2	mg/Kg	6020/DOD
Selenium		0.61		0.46	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-27</b>	<b>076SB-0065M-0001-SO</b>					
Silver		0.026	J	0.074	mg/Kg	6020/DOD
Aluminum		8000		2.2	mg/Kg	6020/DOD
Arsenic		16		0.074	mg/Kg	6020/DOD
Barium		69	Q	0.74	mg/Kg	6020/DOD
Beryllium		0.59		0.074	mg/Kg	6020/DOD
Calcium		7100		7.4	mg/Kg	6020/DOD
Cadmium		0.21	Q	0.074	mg/Kg	6020/DOD
Chromium		18		0.15	mg/Kg	6020/DOD
Cobalt		7.5	Q	0.037	mg/Kg	6020/DOD
Copper		21	Q	0.15	mg/Kg	6020/DOD
Iron		19000		3.7	mg/Kg	6020/DOD
Magnesium		2500		7.4	mg/Kg	6020/DOD
Manganese		500	Q	0.37	mg/Kg	6020/DOD
Sodium		48		7.4	mg/Kg	6020/DOD
Nickel		20	Q	0.074	mg/Kg	6020/DOD
Lead		13		0.074	mg/Kg	6020/DOD
Antimony		0.18		0.15	mg/Kg	6020/DOD
Thallium		0.12		0.074	mg/Kg	6020/DOD
Vanadium		15		0.074	mg/Kg	6020/DOD
Zinc		50	Q	0.37	mg/Kg	6020/DOD
Potassium		870		7.4	mg/Kg	6020/DOD
Selenium		0.64		0.37	mg/Kg	6020/DOD

## EXECUTIVE SUMMARY - Detections

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-17796-28</b>	<b>076SB-0066M-0001-SO</b>					
Silver		0.035	J	0.087	mg/Kg	6020/DOD
Aluminum		8600		2.6	mg/Kg	6020/DOD
Arsenic		12		0.087	mg/Kg	6020/DOD
Barium		69	Q	0.87	mg/Kg	6020/DOD
Beryllium		0.61		0.087	mg/Kg	6020/DOD
Calcium		7300		8.7	mg/Kg	6020/DOD
Cadmium		0.20	Q	0.087	mg/Kg	6020/DOD
Chromium		17		0.17	mg/Kg	6020/DOD
Cobalt		7.8	Q	0.043	mg/Kg	6020/DOD
Copper		14	Q	0.17	mg/Kg	6020/DOD
Iron		20000		4.3	mg/Kg	6020/DOD
Magnesium		2700		8.7	mg/Kg	6020/DOD
Manganese		560	Q	0.43	mg/Kg	6020/DOD
Sodium		55		8.7	mg/Kg	6020/DOD
Nickel		18	Q	0.087	mg/Kg	6020/DOD
Lead		26		0.087	mg/Kg	6020/DOD
Antimony		0.11	J	0.17	mg/Kg	6020/DOD
Thallium		0.13		0.087	mg/Kg	6020/DOD
Vanadium		16		0.087	mg/Kg	6020/DOD
Zinc		55	Q	0.43	mg/Kg	6020/DOD
Potassium		790		8.7	mg/Kg	6020/DOD
Selenium		0.61		0.43	mg/Kg	6020/DOD

## METHOD SUMMARY

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Solid</b>			
Metals (ICP/MS)	TAL PIT	SW846 6020/DOD	
Preparation, Metals	TAL PIT		SW846 3050B

### Lab References:

TAL PIT = TestAmerica Pittsburgh

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**METHOD / ANALYST SUMMARY**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 6020/DOD	Reinheimer, Bill	BR

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0023M-0001-SO

Lab Sample ID: 240-17796-1

Date Sampled: 11/15/2012 0915

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.06 g
Analysis Date: 12/22/2012 2140		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J	0.011	0.094
Aluminum		7300		0.27	2.8
Arsenic		11		0.017	0.094
Barium		50	Q	0.010	0.94
Beryllium		0.44		0.0071	0.094
Calcium		950		1.3	9.4
Cadmium		0.14	Q	0.012	0.094
Chromium		18		0.021	0.19
Cobalt		7.3	Q	0.0023	0.047
Copper		12	Q	0.031	0.19
Iron		22000		1.0	4.7
Magnesium		1500		1.0	9.4
Manganese		590	Q	0.015	0.47
Sodium		21		2.5	9.4
Nickel		16	Q	0.011	0.094
Lead		12		0.015	0.094
Antimony		0.11	J	0.043	0.19
Thallium		0.15		0.0096	0.094
Vanadium		16		0.028	0.094
Zinc		46	Q	0.061	0.47
Potassium		570		3.0	9.4
Selenium		0.52		0.048	0.47



## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SS-0022M-0001-SO

Lab Sample ID: 240-17796-2

Date Sampled: 11/15/2012 1225

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	12/22/2012 2220			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.026	J	0.011	0.098
Aluminum		8400		0.28	2.9
Arsenic		11		0.018	0.098
Barium		51	Q	0.010	0.98
Beryllium		0.51		0.0074	0.098
Calcium		4300		1.3	9.8
Cadmium		0.13	Q	0.013	0.098
Chromium		17		0.022	0.20
Cobalt		8.2	Q	0.0024	0.049
Copper		13	Q	0.032	0.20
Iron		22000		1.1	4.9
Magnesium		2200		1.1	9.8
Manganese		400	Q	0.016	0.49
Sodium		44		2.6	9.8
Nickel		17	Q	0.011	0.098
Lead		13		0.015	0.098
Antimony		0.10	J	0.045	0.20
Thallium		0.14		0.010	0.098
Vanadium		16		0.029	0.098
Zinc		40	Q	0.064	0.49
Potassium		800		3.1	9.8
Selenium		0.56		0.050	0.49

**Analytical Data**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0024M-0001-SO**

Lab Sample ID: 240-17796-3

Date Sampled: 11/15/2012 1020

Client Matrix: Solid

Date Received: 11/16/2012 1842

**6020/DOD Metals (ICP/MS)**

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	12/22/2012 2224			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.020	J	0.011	0.093
Aluminum		5900		0.26	2.8
Arsenic		14		0.017	0.093
Barium		41	Q	0.0099	0.93
Beryllium		0.37		0.0069	0.093
Calcium		890		1.2	9.3
Cadmium		0.14	Q	0.012	0.093
Chromium		13		0.021	0.19
Cobalt		7.2	Q	0.0022	0.046
Copper		16	Q	0.031	0.19
Iron		22000		1.0	4.6
Magnesium		1600		1.0	9.3
Manganese		470	Q	0.015	0.46
Sodium		22		2.5	9.3
Nickel		18	Q	0.010	0.093
Lead		11		0.014	0.093
Antimony		0.11	J	0.043	0.19
Thallium		0.12		0.0094	0.093
Vanadium		12		0.028	0.093
Zinc		51	Q	0.060	0.46
Potassium		620		2.9	9.3
Selenium		0.43	J	0.047	0.46

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0025M-0001-SO**

Lab Sample ID: 240-17796-4

Date Sampled: 11/15/2012 0900

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.10 g
Analysis Date: 12/22/2012 2228		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.019	J	0.010	0.091
Aluminum		6600		0.26	2.7
Arsenic		12		0.016	0.091
Barium		41	Q	0.0097	0.91
Beryllium		0.35		0.0068	0.091
Calcium		1100		1.2	9.1
Cadmium		0.17	Q	0.012	0.091
Chromium		17		0.020	0.18
Cobalt		7.0	Q	0.0022	0.045
Copper		17	Q	0.030	0.18
Iron		21000		0.98	4.5
Magnesium		1800		0.98	9.1
Manganese		300	Q	0.014	0.45
Sodium		26		2.4	9.1
Nickel		19	Q	0.010	0.091
Lead		11		0.014	0.091
Antimony		0.092	J	0.042	0.18
Thallium		0.13		0.0093	0.091
Vanadium		13		0.027	0.091
Zinc		50	Q	0.059	0.45
Potassium		620		2.9	9.1
Selenium		0.39	J	0.046	0.45

Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Client Sample ID: 076SB-0026M-0001-SO

Lab Sample ID: 240-17796-5

Date Sampled: 11/15/2012 0920

Client Matrix: Solid

Date Received: 11/16/2012 1842

6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD      Analysis Batch: 180-59262      Instrument ID: M  
Prep Method: 3050B      Prep Batch: 180-59062      Lab File ID: M21222A.xml  
Dilution: 1.0      Initial Weight/Volume: 1.37 g  
Analysis Date: 12/22/2012 2233      Final Weight/Volume: 100 mL  
Prep Date: 11/27/2012 1006

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.022	J	0.0083	0.073
Aluminum		6300		0.21	2.2
Arsenic		13		0.013	0.073
Barium		37	Q	0.0078	0.73
Beryllium		0.39		0.0055	0.073
Calcium		700		0.97	7.3
Cadmium		0.15	Q	0.0096	0.073
Chromium		16		0.016	0.15
Cobalt		8.5	Q	0.0018	0.036
Copper		15	Q	0.024	0.15
Iron		21000		0.79	3.6
Magnesium		1700		0.79	7.3
Manganese		450	Q	0.012	0.36
Sodium		20		1.9	7.3
Nickel		18	Q	0.0082	0.073
Lead		13		0.011	0.073
Antimony		0.095	J	0.034	0.15
Thallium		0.13		0.0074	0.073
Vanadium		13		0.022	0.073
Zinc		49	Q	0.047	0.36
Potassium		620		2.3	7.3
Selenium		0.41		0.037	0.36

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0027M-0001-SO

Lab Sample ID: 240-17796-6

Date Sampled: 11/15/2012 0940

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.15 g
Analysis Date: 12/22/2012 2237		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.037	J	0.0099	0.087
Aluminum		7200		0.25	2.6
Arsenic		16		0.016	0.087
Barium		62	Q	0.0093	0.87
Beryllium		0.47		0.0065	0.087
Calcium		980		1.2	8.7
Cadmium		0.16	Q	0.011	0.087
Chromium		16		0.019	0.17
Cobalt		8.6	Q	0.0021	0.043
Copper		11	Q	0.029	0.17
Iron		20000		0.94	4.3
Magnesium		1300		0.94	8.7
Manganese		930	Q	0.014	0.43
Sodium		17		2.3	8.7
Nickel		18	Q	0.0098	0.087
Lead		16		0.013	0.087
Antimony		0.29		0.040	0.17
Thallium		0.12		0.0089	0.087
Vanadium		14		0.026	0.087
Zinc		45	Q	0.056	0.43
Potassium		560		2.7	8.7
Selenium		0.46		0.044	0.43

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0028M-0001-SO

Lab Sample ID: 240-17796-7

Date Sampled: 11/15/2012 1000

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.31 g
Analysis Date: 12/22/2012 2241		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.013	J	0.0087	0.076
Aluminum		6100		0.22	2.3
Arsenic		13		0.014	0.076
Barium		37	Q	0.0082	0.76
Beryllium		0.34		0.0057	0.076
Calcium		630		1.0	7.6
Cadmium		0.13	Q	0.010	0.076
Chromium		12		0.017	0.15
Cobalt		7.8	Q	0.0018	0.038
Copper		15	Q	0.025	0.15
Iron		20000		0.82	3.8
Magnesium		1600		0.82	7.6
Manganese		380	Q	0.012	0.38
Sodium		17		2.0	7.6
Nickel		15	Q	0.0086	0.076
Lead		11		0.012	0.076
Antimony		0.090	J	0.035	0.15
Thallium		0.099		0.0078	0.076
Vanadium		13		0.023	0.076
Zinc		46	Q	0.049	0.38
Potassium		580		2.4	7.6
Selenium		0.51		0.039	0.38

**Analytical Data**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0029M-0001-SO**

Lab Sample ID: 240-17796-8

Date Sampled: 11/15/2012 1225

Client Matrix: Solid

Date Received: 11/16/2012 1842

**6020/DOD Metals (ICP/MS)**

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	12/22/2012 2301			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.024	J	0.0097	0.085
Aluminum		6000		0.24	2.6
Arsenic		11		0.015	0.085
Barium		48	Q	0.0091	0.85
Beryllium		0.47		0.0064	0.085
Calcium		1600		1.1	8.5
Cadmium		0.17	Q	0.011	0.085
Chromium		18		0.019	0.17
Cobalt		7.2	Q	0.0021	0.043
Copper		13	Q	0.028	0.17
Iron		24000		0.92	4.3
Magnesium		1400		0.92	8.5
Manganese		710	Q	0.014	0.43
Sodium		27		2.3	8.5
Nickel		17	Q	0.0097	0.085
Lead		16		0.013	0.085
Antimony		0.11	J	0.039	0.17
Thallium		0.11		0.0087	0.085
Vanadium		14		0.026	0.085
Zinc		50	Q	0.055	0.43
Potassium		500		2.7	8.5
Selenium		0.43		0.044	0.43

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0053M-0001-SO**

Lab Sample ID: 240-17796-9

Date Sampled: 11/15/2012 1555

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.24 g
Analysis Date: 12/22/2012 2305		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.024	J	0.0092	0.081
Aluminum		7700		0.23	2.4
Arsenic		12		0.015	0.081
Barium		36	Q	0.0086	0.81
Beryllium		0.39		0.0060	0.081
Calcium		1700		1.1	8.1
Cadmium		0.15	Q	0.011	0.081
Chromium		17		0.018	0.16
Cobalt		7.3	Q	0.0019	0.040
Copper		15	Q	0.027	0.16
Iron		20000		0.87	4.0
Magnesium		2300		0.87	8.1
Manganese		270	Q	0.013	0.40
Sodium		32		2.1	8.1
Nickel		20	Q	0.0091	0.081
Lead		11		0.012	0.081
Antimony		0.064	J	0.037	0.16
Thallium		0.11		0.0082	0.081
Vanadium		14		0.024	0.081
Zinc		45	Q	0.052	0.40
Potassium		750		2.5	8.1
Selenium		0.32	J	0.041	0.40



## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SS-0007M-0001-SO**

Lab Sample ID: 240-17796-10

Date Sampled: 11/15/2012 1545

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	12/22/2012 2309			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.22		0.011	0.097
Aluminum		7800		0.28	2.9
Arsenic		9.2		0.018	0.097
Barium		52	Q	0.010	0.97
Beryllium		0.41		0.0073	0.097
Calcium		2400		1.3	9.7
Cadmium		0.29	Q	0.013	0.097
Chromium		18		0.022	0.19
Cobalt		6.1	Q	0.0023	0.049
Copper		14	Q	0.032	0.19
Iron		19000		1.0	4.9
Magnesium		1600		1.0	9.7
Manganese		290	Q	0.015	0.49
Sodium		25		2.6	9.7
Nickel		16	Q	0.011	0.097
Lead		20		0.015	0.097
Antimony		0.12	J	0.045	0.19
Thallium		0.12		0.0099	0.097
Vanadium		16		0.029	0.097
Zinc		52	Q	0.063	0.49
Potassium		600		3.1	9.7
Selenium		0.50		0.049	0.49

Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Client Sample ID: 076SB-0054M-0001-SO

Lab Sample ID: 240-17796-11

Date Sampled: 11/15/2012 1555

Client Matrix: Solid

Date Received: 11/16/2012 1842

6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD      Analysis Batch: 180-59262      Instrument ID: M  
Prep Method: 3050B      Prep Batch: 180-59062      Lab File ID: M21222A.xml  
Dilution: 1.0      Initial Weight/Volume: 1.39 g  
Analysis Date: 12/22/2012 2314      Final Weight/Volume: 100 mL  
Prep Date: 11/27/2012 1006

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.027	J	0.0082	0.072
Aluminum		6700		0.20	2.2
Arsenic		14		0.013	0.072
Barium		30	Q	0.0077	0.72
Beryllium		0.38		0.0054	0.072
Calcium		5000		0.95	7.2
Cadmium		0.15	Q	0.0095	0.072
Chromium		15		0.016	0.14
Cobalt		8.6	Q	0.0017	0.036
Copper		17	Q	0.024	0.14
Iron		22000		0.77	3.6
Magnesium		3400		0.78	7.2
Manganese		360	Q	0.011	0.36
Sodium		40		1.9	7.2
Nickel		22	Q	0.0081	0.072
Lead		9.8		0.011	0.072
Antimony		0.058	J	0.033	0.14
Thallium		0.11		0.0073	0.072
Vanadium		12		0.022	0.072
Zinc		50	Q	0.047	0.36
Potassium		890		2.3	7.2
Selenium		0.46		0.037	0.36

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0055M-0001-SO

Lab Sample ID: 240-17796-12

Date Sampled: 11/15/2012 1345

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.14 g
Analysis Date: 12/22/2012 2318		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.027	J	0.010	0.088
Aluminum		7200		0.25	2.6
Arsenic		15		0.016	0.088
Barium		29	Q	0.0094	0.88
Beryllium		0.41		0.0066	0.088
Calcium		5800		1.2	8.8
Cadmium		0.15	Q	0.012	0.088
Chromium		13		0.020	0.18
Cobalt		9.4	Q	0.0021	0.044
Copper		16	Q	0.029	0.18
Iron		23000		0.94	4.4
Magnesium		3800		0.95	8.8
Manganese		350	Q	0.014	0.44
Sodium		42		2.3	8.8
Nickel		22	Q	0.0099	0.088
Lead		9.7		0.014	0.088
Antimony		0.053	J	0.040	0.18
Thallium		0.11		0.0089	0.088
Vanadium		12		0.026	0.088
Zinc		47	Q	0.057	0.44
Potassium		940		2.8	8.8
Selenium		0.38	J	0.045	0.44

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0056M-0001-SO**

Lab Sample ID: 240-17796-13

Date Sampled: 11/15/2012 1410

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.43 g
Analysis Date:	12/22/2012 2322			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.023	J	0.0080	0.070
Aluminum		7300		0.20	2.1
Arsenic		12		0.013	0.070
Barium		34	Q	0.0075	0.70
Beryllium		0.37		0.0052	0.070
Calcium		2500		0.93	7.0
Cadmium		0.17	Q	0.0092	0.070
Chromium		23		0.016	0.14
Cobalt		7.5	Q	0.0017	0.035
Copper		19	Q	0.023	0.14
Iron		21000		0.75	3.5
Magnesium		2500		0.75	7.0
Manganese		330	Q	0.011	0.35
Sodium		33		1.9	7.0
Nickel		23	Q	0.0079	0.070
Lead		10		0.011	0.070
Antimony		0.065	J	0.032	0.14
Thallium		0.11		0.0071	0.070
Vanadium		13		0.021	0.070
Zinc		49	Q	0.045	0.35
Potassium		780		2.2	7.0
Selenium		0.46		0.036	0.35

**Analytical Data**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0057M-0001-SO**

Lab Sample ID: 240-17796-14

Date Sampled: 11/15/2012 1440

Client Matrix: Solid

Date Received: 11/16/2012 1842

**6020/DOD Metals (ICP/MS)**

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	12/22/2012 2327			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.026	J	0.011	0.098
Aluminum		8500		0.28	2.9
Arsenic		15		0.018	0.098
Barium		37	Q	0.010	0.98
Beryllium		0.46		0.0074	0.098
Calcium		4000		1.3	9.8
Cadmium		0.13	Q	0.013	0.098
Chromium		19		0.022	0.20
Cobalt		8.5	Q	0.0024	0.049
Copper		18	Q	0.032	0.20
Iron		23000		1.1	4.9
Magnesium		3200		1.1	9.8
Manganese		330	Q	0.016	0.49
Sodium		47		2.6	9.8
Nickel		23	Q	0.011	0.098
Lead		11		0.015	0.098
Antimony		0.063	J	0.045	0.20
Thallium		0.12		0.010	0.098
Vanadium		14		0.029	0.098
Zinc		62	Q	0.064	0.49
Potassium		1200		3.1	9.8
Selenium		0.38	J	0.050	0.49

# Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Client Sample ID: 076SB-0058M-0001-SO

Lab Sample ID: 240-17796-15

Date Sampled: 11/15/2012 1530

Client Matrix: Solid

Date Received: 11/16/2012 1842

## 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	12/22/2012 2331			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.022	J	0.010	0.088
Aluminum		8000		0.25	2.6
Arsenic		16		0.016	0.088
Barium		32	Q	0.0094	0.88
Beryllium		0.47		0.0066	0.088
Calcium		4100		1.2	8.8
Cadmium		0.15	Q	0.012	0.088
Chromium		15		0.020	0.18
Cobalt		9.1	Q	0.0021	0.044
Copper		16	Q	0.029	0.18
Iron		23000		0.94	4.4
Magnesium		3700		0.95	8.8
Manganese		350	Q	0.014	0.44
Sodium		43		2.3	8.8
Nickel		23	Q	0.0099	0.088
Lead		9.4		0.014	0.088
Antimony		0.050	J	0.040	0.18
Thallium		0.11		0.0089	0.088
Vanadium		13		0.026	0.088
Zinc		58	Q	0.057	0.44
Potassium		1100		2.8	8.8
Selenium		0.36	J	0.045	0.44

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0059M-0001-SO

Lab Sample ID: 240-17796-16

Date Sampled: 11/15/2012 1600

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.06 g
Analysis Date: 12/22/2012 2335		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.030	J	0.011	0.094
Aluminum		6600		0.27	2.8
Arsenic		12		0.017	0.094
Barium		31	Q	0.010	0.94
Beryllium		0.37		0.0071	0.094
Calcium		2200		1.3	9.4
Cadmium		0.15	Q	0.012	0.094
Chromium		13		0.021	0.19
Cobalt		7.6	Q	0.0023	0.047
Copper		15	Q	0.031	0.19
Iron		20000		1.0	4.7
Magnesium		2600		1.0	9.4
Manganese		300	Q	0.015	0.47
Sodium		37		2.5	9.4
Nickel		19	Q	0.011	0.094
Lead		10		0.015	0.094
Antimony		0.053	J	0.043	0.19
Thallium		0.10		0.0096	0.094
Vanadium		12		0.028	0.094
Zinc		46	Q	0.061	0.47
Potassium		920		3.0	9.4
Selenium		0.41	J	0.048	0.47

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0060M-0001-SO**

Lab Sample ID: 240-17796-22

Date Sampled: 11/15/2012 1735

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.04 g
Analysis Date: 12/22/2012 2340		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.028	J	0.011	0.096
Aluminum		6800		0.27	2.9
Arsenic		6.7		0.017	0.096
Barium		52	Q	0.010	0.96
Beryllium		0.60		0.0072	0.096
Calcium		14000		1.3	9.6
Cadmium		0.16	Q	0.013	0.096
Chromium		13		0.021	0.19
Cobalt		4.2	Q	0.0023	0.048
Copper		8.7	Q	0.032	0.19
Iron		14000		1.0	4.8
Magnesium		2400		1.0	9.6
Manganese		650	Q	0.015	0.48
Sodium		78		2.6	9.6
Nickel		10	Q	0.011	0.096
Lead		14		0.015	0.096
Antimony		0.18	J	0.044	0.19
Thallium		0.072	J	0.0098	0.096
Vanadium		11		0.029	0.096
Zinc		33	Q	0.062	0.48
Potassium		810		3.0	9.6
Selenium		0.55		0.049	0.48



## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0061M-0001-SO**

Lab Sample ID: 240-17796-23

Date Sampled: 11/15/2012 1735

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	12/22/2012 2359			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.029	J	0.010	0.092
Aluminum		7900		0.26	2.8
Arsenic		14		0.017	0.092
Barium		53	Q	0.0098	0.92
Beryllium		0.46		0.0069	0.092
Calcium		1600		1.2	9.2
Cadmium		0.17	Q	0.012	0.092
Chromium		16		0.020	0.18
Cobalt		8.6	Q	0.0022	0.046
Copper		16	Q	0.030	0.18
Iron		22000		0.99	4.6
Magnesium		2400		0.99	9.2
Manganese		350	Q	0.015	0.46
Sodium		37		2.4	9.2
Nickel		22	Q	0.010	0.092
Lead		11		0.014	0.092
Antimony		0.072	J	0.042	0.18
Thallium		0.11		0.0094	0.092
Vanadium		14		0.027	0.092
Zinc		53	Q	0.059	0.46
Potassium		1100		2.9	9.2
Selenium		0.40	J	0.047	0.46

**Analytical Data**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0062M-0001-SO**

Lab Sample ID: 240-17796-24

Date Sampled: 11/15/2012 1705

Client Matrix: Solid

Date Received: 11/16/2012 1842

**6020/DOD Metals (ICP/MS)**

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	12/23/2012 0004			Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.052	J	0.011	0.097
Aluminum		7300		0.28	2.9
Arsenic		10		0.018	0.097
Barium		63	Q	0.010	0.97
Beryllium		0.46		0.0073	0.097
Calcium		4000		1.3	9.7
Cadmium		0.24	Q	0.013	0.097
Chromium		16		0.022	0.19
Cobalt		6.0	Q	0.0023	0.049
Copper		14	Q	0.032	0.19
Iron		19000		1.0	4.9
Magnesium		2300		1.0	9.7
Manganese		410	Q	0.015	0.49
Sodium		36		2.6	9.7
Nickel		18	Q	0.011	0.097
Lead		9.5		0.015	0.097
Antimony		0.058	J	0.045	0.19
Thallium		0.087	J	0.0099	0.097
Vanadium		13		0.029	0.097
Zinc		42	Q	0.063	0.49
Potassium		1100		3.1	9.7
Selenium		0.43	J	0.049	0.49

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0063M-0001-SO

Lab Sample ID: 240-17796-25

Date Sampled: 11/15/2012 1715

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59320	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59062	Lab File ID: M21223A.xml
Dilution: 1.0		Initial Weight/Volume: 1.29 g
Analysis Date: 12/23/2012 1913		Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.027	J	0.0088	0.078
Aluminum		7700		0.22	2.3
Arsenic		11		0.014	0.078
Barium		42	Q	0.0083	0.78
Beryllium		0.38		0.0058	0.078
Calcium		1300		1.0	7.8
Cadmium		0.16	Q	0.010	0.078
Chromium		14		0.017	0.16
Cobalt		7.5	Q	0.0019	0.039
Copper		13	Q	0.026	0.16
Iron		19000		0.83	3.9
Magnesium		2000		0.84	7.8
Manganese		250	Q	0.012	0.39
Sodium		44		2.1	7.8
Nickel		17	Q	0.0088	0.078
Lead		13		0.012	0.078
Antimony		0.13	J	0.036	0.16
Thallium		0.094		0.0079	0.078
Vanadium		14		0.023	0.078
Zinc		44	Q	0.050	0.39
Potassium		1200		2.4	7.8
Selenium		0.47		0.039	0.39

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID: 076SB-0064M-0001-SO**

Lab Sample ID: 240-17796-26

Date Sampled: 11/15/2012 1725

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59171	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.09 g
Analysis Date: 12/23/2012 0022		Final Weight/Volume: 100 mL
Prep Date: 11/28/2012 1240		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.021	J	0.010	0.092
Aluminum		6600		0.26	2.8
Arsenic		15		0.017	0.092
Barium		43	Q	0.0098	0.92
Beryllium		0.43		0.0069	0.092
Calcium		3700		1.2	9.2
Cadmium		0.19	Q	0.012	0.092
Chromium		18		0.020	0.18
Cobalt		8.1	Q	0.0022	0.046
Copper		17	Q	0.030	0.18
Iron		22000		0.99	4.6
Magnesium		2100		0.99	9.2
Manganese		330	Q	0.015	0.46
Sodium		29		2.4	9.2
Nickel		21	Q	0.010	0.092
Lead		14		0.014	0.092
Antimony		0.12	J	0.042	0.18
Thallium		0.15		0.0094	0.092
Vanadium		12		0.027	0.092
Zinc		54	Q	0.059	0.46
Potassium		810		2.9	9.2
Selenium		0.61		0.047	0.46

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0065M-0001-SO

Lab Sample ID: 240-17796-27

Date Sampled: 11/15/2012 1740

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method: 6020/DOD	Analysis Batch: 180-59262	Instrument ID: M
Prep Method: 3050B	Prep Batch: 180-59171	Lab File ID: M21222A.xml
Dilution: 1.0		Initial Weight/Volume: 1.36 g
Analysis Date: 12/23/2012 0059		Final Weight/Volume: 100 mL
Prep Date: 11/28/2012 1240		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.026	J	0.0084	0.074
Aluminum		8000		0.21	2.2
Arsenic		16		0.013	0.074
Barium		69	Q	0.0079	0.74
Beryllium		0.59		0.0055	0.074
Calcium		7100		0.98	7.4
Cadmium		0.21	Q	0.0097	0.074
Chromium		18		0.016	0.15
Cobalt		7.5	Q	0.0018	0.037
Copper		21	Q	0.024	0.15
Iron		19000		0.79	3.7
Magnesium		2500		0.79	7.4
Manganese		500	Q	0.012	0.37
Sodium		48		2.0	7.4
Nickel		20	Q	0.0083	0.074
Lead		13		0.011	0.074
Antimony		0.18		0.034	0.15
Thallium		0.12		0.0075	0.074
Vanadium		15		0.022	0.074
Zinc		50	Q	0.048	0.37
Potassium		870		2.3	7.4
Selenium		0.64		0.037	0.37

## Analytical Data

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Client Sample ID:** 076SB-0066M-0001-SO

Lab Sample ID: 240-17796-28

Date Sampled: 11/15/2012 1650

Client Matrix: Solid

Date Received: 11/16/2012 1842

### 6020/DOD Metals (ICP/MS)

Analysis Method:	6020/DOD	Analysis Batch:	180-59262	Instrument ID:	M
Prep Method:	3050B	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	12/23/2012 0104			Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Silver		0.035	J	0.0099	0.087
Aluminum		8600		0.25	2.6
Arsenic		12		0.016	0.087
Barium		69	Q	0.0093	0.87
Beryllium		0.61		0.0065	0.087
Calcium		7300		1.2	8.7
Cadmium		0.20	Q	0.011	0.087
Chromium		17		0.019	0.17
Cobalt		7.8	Q	0.0021	0.043
Copper		14	Q	0.029	0.17
Iron		20000		0.94	4.3
Magnesium		2700		0.94	8.7
Manganese		560	Q	0.014	0.43
Sodium		55		2.3	8.7
Nickel		18	Q	0.0098	0.087
Lead		26		0.013	0.087
Antimony		0.11	J	0.040	0.17
Thallium		0.13		0.0089	0.087
Vanadium		16		0.026	0.087
Zinc		55	Q	0.056	0.43
Potassium		790		2.7	8.7
Selenium		0.61		0.044	0.43

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Method Blank - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: MB 180-59062/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/22/2012 2129  
 Prep Date: 11/27/2012 1006  
 Leach Date: N/A

Analysis Batch: 180-59262  
 Prep Batch: 180-59062  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: M  
 Lab File ID: M21222A.xml  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	DL	LOQ
Silver	0.030	U	0.011	0.10
Aluminum	0.495	J	0.28	3.0
Arsenic	0.050	U	0.018	0.10
Barium	0.020	U Q	0.011	1.0
Beryllium	0.010	U	0.0075	0.10
Calcium	1.43	J	1.3	10
Cadmium	0.030	U Q	0.013	0.10
Chromium	0.040	U	0.022	0.20
Cobalt	0.010	U Q	0.0024	0.050
Copper	0.060	U Q	0.033	0.20
Iron	2.37	J	1.1	5.0
Magnesium	2.0	U	1.1	10
Manganese	0.030	U Q	0.016	0.50
Sodium	5.0	U	2.7	10
Nickel	0.030	U Q	0.011	0.10
Lead	0.030	U	0.015	0.10
Antimony	0.10	U	0.046	0.20
Thallium	0.020	U	0.010	0.10
Vanadium	0.060	U	0.030	0.10
Zinc	0.20	U Q	0.065	0.50
Potassium	6.0	U	3.2	10
Selenium	0.10	U	0.051	0.50

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Method Blank - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: MB 180-59062/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/23/2012 1908  
 Prep Date: 11/27/2012 1006  
 Leach Date: N/A

Analysis Batch: 180-59320  
 Prep Batch: 180-59062  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: M  
 Lab File ID: M21223A.xml  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	DL	LOQ
Silver	0.030	U	0.011	0.10
Aluminum	0.652	J	0.28	3.0
Arsenic	0.050	U	0.018	0.10
Barium	0.020	U Q	0.011	1.0
Beryllium	0.010	U	0.0075	0.10
Calcium	1.81	J	1.3	10
Cadmium	0.030	U Q	0.013	0.10
Chromium	0.040	U	0.022	0.20
Cobalt	0.010	U Q	0.0024	0.050
Copper	0.060	U Q	0.033	0.20
Iron	2.0	U	1.1	5.0
Magnesium	2.0	U	1.1	10
Manganese	0.0391	J Q	0.016	0.50
Sodium	5.0	U	2.7	10
Nickel	0.030	U Q	0.011	0.10
Lead	0.030	U	0.015	0.10
Antimony	0.10	U	0.046	0.20
Thallium	0.020	U	0.010	0.10
Vanadium	0.060	U	0.030	0.10
Zinc	0.0780	J Q	0.065	0.50
Potassium	6.0	U	3.2	10
Selenium	0.10	U	0.051	0.50



## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Lab Control Sample - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: LCS 180-59062/2-A	Analysis Batch: 180-59262	Instrument ID: M
Client Matrix: Solid	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 1.00 g
Analysis Date: 12/22/2012 2133	Units: mg/Kg	Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	10.0	8.96	90	60 - 114	
Aluminum	1000	831	83	80 - 120	
Arsenic	100	87.6	88	73 - 110	
Barium	100	84.3	84	70 - 110	Q
Beryllium	100	85.7	86	79 - 110	
Calcium	1000	901	90	80 - 120	
Cadmium	100	88.5	89	74 - 110	Q
Chromium	100	91.8	92	70 - 110	
Cobalt	100	89.7	90	74 - 110	Q
Copper	100	88.8	89	73 - 110	Q
Iron	1000	939	94	80 - 120	
Magnesium	1000	839	84	80 - 120	
Manganese	100	92.7	93	80 - 120	Q
Sodium	1000	834	83	80 - 120	
Nickel	100	87.9	88	75 - 110	Q
Lead	100	89.8	90	75 - 110	
Antimony	10.0	8.52	85	68 - 113	
Thallium	25.0	21.5	86	71 - 110	
Vanadium	100	90.5	91	72 - 110	
Zinc	100	92.0	92	72 - 113	Q
Potassium	1000	861	86	80 - 120	
Selenium	100	91.2	91	65 - 110	

**Quality Control Results**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Matrix Spike - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-1	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	12/22/2012 2208	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.021 J	9.43	7.77	82	75 - 125	
Aluminum	7300	943	10900	373	70 - 130	4
Arsenic	11	9.43	22.2	115	23 - 131	
Barium	50	9.43	60.1	110	10 - 199	Q 4
Beryllium	0.44	9.43	8.88	89	58 - 112	
Calcium	950	943	1940	105	70 - 130	
Cadmium	0.14	9.43	8.22	86	58 - 110	Q
Chromium	18	9.43	29.8	125	10 - 199	
Cobalt	7.3	9.43	15.5	86	55 - 110	Q
Copper	12	9.43	20.6	95	10 - 199	Q
Iron	22000	943	24400	276	70 - 130	4
Magnesium	1500	943	2560	116	70 - 130	
Manganese	590	9.43	588	13	10 - 199	Q 4
Sodium	21	943	800	83	70 - 130	
Nickel	16	9.43	26.5	109	10 - 176	Q
Lead	12	9.43	20.6	90	10 - 199	
Antimony	0.11 J	9.43	2.32	23	75 - 125	J
Thallium	0.15	9.43	7.57	79	82 - 110	J
Vanadium	16	9.43	27.9	125	39 - 129	
Zinc	46	9.43	70.8	265	10 - 199	Q 4
Potassium	570	943	1600	109	70 - 130	
Selenium	0.52	9.43	9.06	91	39 - 116	

**Post Digestion Spike - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-1	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	12/22/2012 2212	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.021 J	4.72	4.53	96	80 - 120	
Aluminum	7300	189	7380	18	80 - 120	
Arsenic	11	3.77	14.5	85	80 - 120	
Barium	50	189	218	89	80 - 120	Q
Beryllium	0.44	4.72	4.76	92	80 - 120	

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Post Digestion Spike - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: 240-17796-1	Analysis Batch: 180-59262	Instrument ID: M
Client Matrix: Solid	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 1.06 g
Analysis Date: 12/22/2012 2212	Units: mg/Kg	Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		
Leach Date: N/A		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Calcium	950	4720	5110	88	80 - 120	
Cadmium	0.14	4.72	4.47	92	80 - 120	Q
Chromium	18	18.9	34.8	89	80 - 120	
Cobalt	7.3	47.2	52.4	96	80 - 120	Q
Copper	12	23.6	32.7	89	80 - 120	Q
Iron	22000	94.3	21300	-540	80 - 120	
Magnesium	1500	4720	5420	84	80 - 120	
Manganese	590	47.2	616	62	80 - 120	Q
Sodium	21	4720	4150	87	80 - 120	
Nickel	16	47.2	58.3	89	80 - 120	Q
Lead	12	1.89	14.1	105	80 - 120	
Antimony	0.11	J 47.2	39.7	84	80 - 120	
Thallium	0.15	4.72	4.71	97	80 - 120	
Vanadium	16	47.2	61.8	97	80 - 120	
Zinc	46	47.2	86.1	85	80 - 120	Q
Potassium	570	4720	4590	85	80 - 120	
Selenium	0.52	0.943	1.45	99	80 - 120	

**Quality Control Results**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Serial Dilution - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-1	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	12/22/2012 2159	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Silver	0.021 J	0.14	NC	10	U
Aluminum	7300	7480	1.7	10	D
Arsenic	11	11.2	1.2	10	D
Barium	50	50.6	1.6	10	D Q
Beryllium	0.44	0.450	1.6	10	J D
Calcium	950	979	2.7	10	D
Cadmium	0.14	0.114	NC	10	J D Q
Chromium	18	17.9	0.91	10	D
Cobalt	7.3	7.19	2.1	10	D Q
Copper	12	11.6	0.28	10	D Q
Iron	22000	22600	3.8	10	D
Magnesium	1500	1410	4.2	10	D
Manganese	590	588	0.32	10	D Q
Sodium	21	21.1	NC	10	J D
Nickel	16	16.1	0.82	10	D Q
Lead	12	12.0	1.1	10	D
Antimony	0.11 J	0.47	NC	10	U
Thallium	0.15	0.134	NC	10	J D
Vanadium	16	15.8	1.8	10	D
Zinc	46	48.2	5.1	10	D Q
Potassium	570	592	3.3	10	D
Selenium	0.52	0.47	NC	10	U

**Duplicate - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-1	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59062	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	12/22/2012 2204	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/27/2012 1006				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Silver	0.021 J	0.0215	4	20	J
Aluminum	7300	7680	4	20	
Arsenic	11	11.6	2	20	
Barium	50	51.5	3	20	Q
Beryllium	0.44	0.435	2	20	
Calcium	950	957	0.4	20	
Cadmium	0.14	0.125	10	20	Q

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Duplicate - Batch: 180-59062**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: 240-17796-1	Analysis Batch: 180-59262	Instrument ID: M
Client Matrix: Solid	Prep Batch: 180-59062	Lab File ID: M21222A.xml
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 1.06 g
Analysis Date: 12/22/2012 2204	Units: mg/Kg	Final Weight/Volume: 100 mL
Prep Date: 11/27/2012 1006		
Leach Date: N/A		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium	18	17.7	2	20	
Cobalt	7.3	7.34	0.08	20	Q
Copper	12	11.6	0.2	20	Q
Iron	22000	20700	5	20	
Magnesium	1500	1500	2	20	
Manganese	590	571	3	20	Q
Sodium	21	20.7	1	20	
Nickel	16	16.1	0.3	20	Q
Lead	12	12.6	3	20	
Antimony	0.11	J 0.105	2	20	J
Thallium	0.15	0.132	13	20	
Vanadium	16	16.0	0.2	20	
Zinc	46	44.9	2	20	Q
Potassium	570	595	4	20	
Selenium	0.52	0.426	19	20	J

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Method Blank - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: MB 180-59171/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/23/2012 0014  
 Prep Date: 11/28/2012 1240  
 Leach Date: N/A

Analysis Batch: 180-59262  
 Prep Batch: 180-59171  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: M  
 Lab File ID: M21222A.xml  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	DL	LOQ
Silver	0.030	U	0.011	0.10
Aluminum	0.695	J	0.28	3.0
Arsenic	0.050	U	0.018	0.10
Barium	0.020	U Q	0.011	1.0
Beryllium	0.010	U	0.0075	0.10
Calcium	1.44	J	1.3	10
Cadmium	0.030	U Q	0.013	0.10
Chromium	0.040	U	0.022	0.20
Cobalt	0.010	U Q	0.0024	0.050
Copper	0.060	U Q	0.033	0.20
Iron	2.32	J	1.1	5.0
Magnesium	2.0	U	1.1	10
Manganese	0.0199	J Q	0.016	0.50
Sodium	5.0	U	2.7	10
Nickel	0.030	U Q	0.011	0.10
Lead	0.030	U	0.015	0.10
Antimony	0.10	U	0.046	0.20
Thallium	0.020	U	0.010	0.10
Vanadium	0.060	U	0.030	0.10
Zinc	0.20	U Q	0.065	0.50
Potassium	6.0	U	3.2	10
Selenium	0.10	U	0.051	0.50

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Lab Control Sample - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	LCS 180-59171/2-A	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	12/23/2012 0018	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	10.0	9.03	90	60 - 114	
Aluminum	1000	822	82	80 - 120	
Arsenic	100	82.5	82	73 - 110	
Barium	100	86.7	87	70 - 110	Q
Beryllium	100	86.8	87	79 - 110	
Calcium	1000	908	91	80 - 120	
Cadmium	100	86.7	87	74 - 110	Q
Chromium	100	92.8	93	70 - 110	
Cobalt	100	90.7	91	74 - 110	Q
Copper	100	88.1	88	73 - 110	Q
Iron	1000	948	95	80 - 120	
Magnesium	1000	829	83	80 - 120	
Manganese	100	94.5	94	80 - 120	Q
Sodium	1000	836	84	80 - 120	
Nickel	100	87.8	88	75 - 110	Q
Lead	100	88.5	89	75 - 110	
Antimony	10.0	8.45	85	68 - 113	
Thallium	25.0	20.9	84	71 - 110	
Vanadium	100	92.0	92	72 - 110	
Zinc	100	85.8	86	72 - 113	Q
Potassium	1000	869	87	80 - 120	
Selenium	100	82.7	83	65 - 110	

**Quality Control Results**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Matrix Spike - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-26	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	12/23/2012 0035	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.021 J	9.17	7.86	85	75 - 125	
Aluminum	6600	917	8110	165	70 - 130	4
Arsenic	15	9.17	22.7	86	23 - 131	
Barium	43	9.17	51.8	96	10 - 199	Q 4
Beryllium	0.43	9.17	7.99	82	58 - 112	
Calcium	3700	917	4090	46	70 - 130	4
Cadmium	0.19	9.17	7.44	79	58 - 110	Q
Chromium	18	9.17	26.6	98	10 - 199	
Cobalt	8.1	9.17	16.7	93	55 - 110	Q
Copper	17	9.17	26.3	97	10 - 199	Q
Iron	22000	917	23500	213	70 - 130	4
Magnesium	2100	917	2960	97	70 - 130	
Manganese	330	9.17	372	404	10 - 199	Q 4
Sodium	29	917	788	83	70 - 130	
Nickel	21	9.17	31.0	104	10 - 176	Q
Lead	14	9.17	22.1	93	10 - 199	
Antimony	0.12 J	9.17	2.22	23	75 - 125	J
Thallium	0.15	9.17	7.53	80	82 - 110	J
Vanadium	12	9.17	21.5	99	39 - 129	
Zinc	54	9.17	63.9	107	10 - 199	Q 4
Potassium	810	917	1610	87	70 - 130	
Selenium	0.61	9.17	7.26	73	39 - 116	

**Post Digestion Spike - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-26	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	12/23/2012 0040	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.021 J	4.59	4.65	101	80 - 120	
Aluminum	6600	183	6600	2	80 - 120	
Arsenic	15	3.67	18.3	94	80 - 120	
Barium	43	183	215	94	80 - 120	Q
Beryllium	0.43	4.59	4.59	91	80 - 120	



## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Post Digestion Spike - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: 240-17796-26	Analysis Batch: 180-59262	Instrument ID: M
Client Matrix: Solid	Prep Batch: 180-59171	Lab File ID: M21222A.xml
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 1.09 g
Analysis Date: 12/23/2012 0040	Units: mg/Kg	Final Weight/Volume: 100 mL
Prep Date: 11/28/2012 1240		
Leach Date: N/A		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Calcium	3700	4590	7550	84	80 - 120	
Cadmium	0.19	4.59	4.67	98	80 - 120	Q
Chromium	18	18.3	34.9	94	80 - 120	
Cobalt	8.1	45.9	53.8	99	80 - 120	Q
Copper	17	22.9	38.5	92	80 - 120	Q
Iron	22000	91.7	21400	-150	80 - 120	
Magnesium	2100	4590	5620	77	80 - 120	J
Manganese	330	45.9	374	85	80 - 120	Q
Sodium	29	4590	3760	81	80 - 120	
Nickel	21	45.9	63.3	91	80 - 120	Q
Lead	14	1.83	15.5	102	80 - 120	
Antimony	0.12	J 45.9	39.2	85	80 - 120	
Thallium	0.15	4.59	4.58	97	80 - 120	
Vanadium	12	45.9	58.7	101	80 - 120	
Zinc	54	45.9	94.5	88	80 - 120	Q
Potassium	810	4590	4600	83	80 - 120	
Selenium	0.61	0.917	1.41	88	80 - 120	

**Quality Control Results**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Serial Dilution - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-26	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	12/23/2012 0027	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Silver	0.021 J	0.14	NC	10	U
Aluminum	6600	6940	5.1	10	D
Arsenic	15	15.1	1.8	10	D
Barium	43	44.8	4.2	10	D Q
Beryllium	0.43	0.441	3.0	10	J D
Calcium	3700	3620	1.4	10	D
Cadmium	0.19	0.184	NC	10	J D Q
Chromium	18	17.9	1.7	10	D
Cobalt	8.1	8.04	1.1	10	D Q
Copper	17	17.7	1.6	10	D Q
Iron	22000	23000	6.5	10	D
Magnesium	2100	2170	4.5	10	D
Manganese	330	341	1.9	10	D Q
Sodium	29	29.5	NC	10	J D
Nickel	21	21.7	1.4	10	D Q
Lead	14	13.2	2.7	10	D
Antimony	0.12 J	0.46	NC	10	U
Thallium	0.15	0.150	NC	10	J D
Vanadium	12	12.5	0.30	10	D
Zinc	54	59.2	9.6	10	D Q
Potassium	810	838	3.0	10	D
Selenium	0.61	0.46	NC	10	U

**Duplicate - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID:	240-17796-26	Analysis Batch:	180-59262	Instrument ID:	M
Client Matrix:	Solid	Prep Batch:	180-59171	Lab File ID:	M21222A.xml
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	12/23/2012 0031	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/28/2012 1240				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Silver	0.021 J	0.0208	3	20	J
Aluminum	6600	6870	4	20	
Arsenic	15	15.0	0.9	20	
Barium	43	44.4	3	20	Q
Beryllium	0.43	0.443	3	20	
Calcium	3700	4560	22	20	J
Cadmium	0.19	0.195	3	20	Q

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Duplicate - Batch: 180-59171**

**Method: 6020/DOD  
Preparation: 3050B**

Lab Sample ID: 240-17796-26	Analysis Batch: 180-59262	Instrument ID: M
Client Matrix: Solid	Prep Batch: 180-59171	Lab File ID: M21222A.xml
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 1.09 g
Analysis Date: 12/23/2012 0031	Units: mg/Kg	Final Weight/Volume: 100 mL
Prep Date: 11/28/2012 1240		
Leach Date: N/A		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium	18	16.8	5	20	
Cobalt	8.1	8.16	0.4	20	Q
Copper	17	17.4	0.6	20	Q
Iron	22000	21100	2	20	
Magnesium	2100	2190	6	20	
Manganese	330	340	1	20	Q
Sodium	29	34.6	18	20	
Nickel	21	21.1	2	20	Q
Lead	14	13.6	0.1	20	
Antimony	0.12 J	0.118	2	20	J
Thallium	0.15	0.106	36	20	
Vanadium	12	12.6	1	20	
Zinc	54	54.0	0.1	20	Q
Potassium	810	852	5	20	
Selenium	0.61	0.483	23	20	

## DATA REPORTING QUALIFIERS

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 180-59062</b>					
LCS 180-59062/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-59062/1-A	Method Blank	T	Solid	3050B	
240-17796-1	076SB-0023M-0001-SO	T	Solid	3050B	
240-17796-1DU	Duplicate	T	Solid	3050B	
240-17796-1MS	Matrix Spike	T	Solid	3050B	
240-17796-2	076SS-0022M-0001-SO	T	Solid	3050B	
240-17796-3	076SB-0024M-0001-SO	T	Solid	3050B	
240-17796-4	076SB-0025M-0001-SO	T	Solid	3050B	
240-17796-5	076SB-0026M-0001-SO	T	Solid	3050B	
240-17796-6	076SB-0027M-0001-SO	T	Solid	3050B	
240-17796-7	076SB-0028M-0001-SO	T	Solid	3050B	
240-17796-8	076SB-0029M-0001-SO	T	Solid	3050B	
240-17796-9	076SB-0053M-0001-SO	T	Solid	3050B	
240-17796-10	076SS-0007M-0001-SO	T	Solid	3050B	
240-17796-11	076SB-0054M-0001-SO	T	Solid	3050B	
240-17796-12	076SB-0055M-0001-SO	T	Solid	3050B	
240-17796-13	076SB-0056M-0001-SO	T	Solid	3050B	
240-17796-14	076SB-0057M-0001-SO	T	Solid	3050B	
240-17796-15	076SB-0058M-0001-SO	T	Solid	3050B	
240-17796-16	076SB-0059M-0001-SO	T	Solid	3050B	
240-17796-22	076SB-0060M-0001-SO	T	Solid	3050B	
240-17796-23	076SB-0061M-0001-SO	T	Solid	3050B	
240-17796-24	076SB-0062M-0001-SO	T	Solid	3050B	
240-17796-25	076SB-0063M-0001-SO	T	Solid	3050B	
<b>Prep Batch: 180-59171</b>					
LCS 180-59171/2-A	Lab Control Sample	T	Solid	3050B	
MB 180-59171/1-A	Method Blank	T	Solid	3050B	
240-17796-26	076SB-0064M-0001-SO	T	Solid	3050B	
240-17796-26DU	Duplicate	T	Solid	3050B	
240-17796-26MS	Matrix Spike	T	Solid	3050B	
240-17796-27	076SB-0065M-0001-SO	T	Solid	3050B	
240-17796-28	076SB-0066M-0001-SO	T	Solid	3050B	

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Analysis Batch:180-59262</b>					
LCS 180-59062/2-A	Lab Control Sample	T	Solid	6020/DOD	180-59062
MB 180-59062/1-A	Method Blank	T	Solid	6020/DOD	180-59062
LCS 180-59171/2-A	Lab Control Sample	T	Solid	6020/DOD	180-59171
MB 180-59171/1-A	Method Blank	T	Solid	6020/DOD	180-59171
240-17796-1	076SB-0023M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-1DU	Duplicate	T	Solid	6020/DOD	180-59062
240-17796-1MS	Matrix Spike	T	Solid	6020/DOD	180-59062
240-17796-2	076SS-0022M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-3	076SB-0024M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-4	076SB-0025M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-5	076SB-0026M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-6	076SB-0027M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-7	076SB-0028M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-8	076SB-0029M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-9	076SB-0053M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-10	076SS-0007M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-11	076SB-0054M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-12	076SB-0055M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-13	076SB-0056M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-14	076SB-0057M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-15	076SB-0058M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-16	076SB-0059M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-22	076SB-0060M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-23	076SB-0061M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-24	076SB-0062M-0001-SO	T	Solid	6020/DOD	180-59062
240-17796-26	076SB-0064M-0001-SO	T	Solid	6020/DOD	180-59171
240-17796-26DU	Duplicate	T	Solid	6020/DOD	180-59171
240-17796-26MS	Matrix Spike	T	Solid	6020/DOD	180-59171
240-17796-27	076SB-0065M-0001-SO	T	Solid	6020/DOD	180-59171
240-17796-28	076SB-0066M-0001-SO	T	Solid	6020/DOD	180-59171
<b>Analysis Batch:180-59320</b>					
MB 180-59062/1-A	Method Blank	T	Solid	6020/DOD	180-59062
240-17796-25	076SB-0063M-0001-SO	T	Solid	6020/DOD	180-59062

**Report Basis**

T = Total

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

### Laboratory Chronicle

Lab ID: 240-17796-1

Client ID: 076SB-0023M-0001-SO

Sample Date/Time: 11/15/2012 09:15

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-1-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-1-A		180-59262	180-59062	12/22/2012 21:40	1	TAL PIT	BR

Lab ID: 240-17796-1 MS

Client ID: 076SB-0023M-0001-SO

Sample Date/Time: 11/15/2012 09:15

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-1-C MS		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-1-C MS		180-59262	180-59062	12/22/2012 22:08	1	TAL PIT	BR

Lab ID: 240-17796-1 DU

Client ID: 076SB-0023M-0001-SO

Sample Date/Time: 11/15/2012 09:15

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-1-B DU		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-1-B DU		180-59262	180-59062	12/22/2012 22:04	1	TAL PIT	BR

Lab ID: 240-17796-1 SD

Client ID: 076SB-0023M-0001-SO

Sample Date/Time: 11/15/2012 09:15

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-1-A SD ^5		180-59262	180-59062	11/27/2012 10:06	5	TAL PIT	BR
A:6020/DOD	240-17796-F-1-A SD ^5		180-59262	180-59062	12/22/2012 21:59	5	TAL PIT	BR
P:3050B	240-17796-F-1-A PDS		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-1-A PDS		180-59262	180-59062	12/22/2012 22:12	1	TAL PIT	BR

Lab ID: 240-17796-2

Client ID: 076SS-0022M-0001-SO

Sample Date/Time: 11/15/2012 12:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-2-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-2-A		180-59262	180-59062	12/22/2012 22:20	1	TAL PIT	BR

Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Laboratory Chronicle

Lab ID: 240-17796-3

Client ID: 076SB-0024M-0001-SO

Sample Date/Time: 11/15/2012 10:20

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-3-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-3-A		180-59262	180-59062	12/22/2012 22:24	1	TAL PIT	BR

Lab ID: 240-17796-4

Client ID: 076SB-0025M-0001-SO

Sample Date/Time: 11/15/2012 09:00

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-4-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-4-A		180-59262	180-59062	12/22/2012 22:28	1	TAL PIT	BR

Lab ID: 240-17796-5

Client ID: 076SB-0026M-0001-SO

Sample Date/Time: 11/15/2012 09:20

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-5-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-5-A		180-59262	180-59062	12/22/2012 22:33	1	TAL PIT	BR

Lab ID: 240-17796-6

Client ID: 076SB-0027M-0001-SO

Sample Date/Time: 11/15/2012 09:40

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-6-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-6-A		180-59262	180-59062	12/22/2012 22:37	1	TAL PIT	BR

Lab ID: 240-17796-7

Client ID: 076SB-0028M-0001-SO

Sample Date/Time: 11/15/2012 10:00

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-7-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-7-A		180-59262	180-59062	12/22/2012 22:41	1	TAL PIT	BR

Lab ID: 240-17796-8

Client ID: 076SB-0029M-0001-SO

Sample Date/Time: 11/15/2012 12:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-8-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-8-A		180-59262	180-59062	12/22/2012 23:01	1	TAL PIT	BR



Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

Laboratory Chronicle

Lab ID: 240-17796-9

Client ID: 076SB-0053M-0001-SO

Sample Date/Time: 11/15/2012 15:55

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-9-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-9-A		180-59262	180-59062	12/22/2012 23:05	1	TAL PIT	BR

Lab ID: 240-17796-10

Client ID: 076SS-0007M-0001-SO

Sample Date/Time: 11/15/2012 15:45

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-10-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-10-A		180-59262	180-59062	12/22/2012 23:09	1	TAL PIT	BR

Lab ID: 240-17796-11

Client ID: 076SB-0054M-0001-SO

Sample Date/Time: 11/15/2012 15:55

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-11-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-11-A		180-59262	180-59062	12/22/2012 23:14	1	TAL PIT	BR

Lab ID: 240-17796-12

Client ID: 076SB-0055M-0001-SO

Sample Date/Time: 11/15/2012 13:45

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-12-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-12-A		180-59262	180-59062	12/22/2012 23:18	1	TAL PIT	BR

Lab ID: 240-17796-13

Client ID: 076SB-0056M-0001-SO

Sample Date/Time: 11/15/2012 14:10

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-13-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-13-A		180-59262	180-59062	12/22/2012 23:22	1	TAL PIT	BR

Lab ID: 240-17796-14

Client ID: 076SB-0057M-0001-SO

Sample Date/Time: 11/15/2012 14:40

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-14-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-14-A		180-59262	180-59062	12/22/2012 23:27	1	TAL PIT	BR

**Quality Control Results**

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Laboratory Chronicle**

**Lab ID: 240-17796-15**

**Client ID: 076SB-0058M-0001-SO**

Sample Date/Time: 11/15/2012 15:30

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-15-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-15-A		180-59262	180-59062	12/22/2012 23:31	1	TAL PIT	BR

**Lab ID: 240-17796-16**

**Client ID: 076SB-0059M-0001-SO**

Sample Date/Time: 11/15/2012 16:00

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-D-16-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-D-16-A		180-59262	180-59062	12/22/2012 23:35	1	TAL PIT	BR

**Lab ID: 240-17796-22**

**Client ID: 076SB-0060M-0001-SO**

Sample Date/Time: 11/15/2012 17:35

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-22-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-22-A		180-59262	180-59062	12/22/2012 23:40	1	TAL PIT	BR

**Lab ID: 240-17796-23**

**Client ID: 076SB-0061M-0001-SO**

Sample Date/Time: 11/15/2012 17:35

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-23-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-23-A		180-59262	180-59062	12/22/2012 23:59	1	TAL PIT	BR

**Lab ID: 240-17796-24**

**Client ID: 076SB-0062M-0001-SO**

Sample Date/Time: 11/15/2012 17:05

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-24-A		180-59262	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-24-A		180-59262	180-59062	12/23/2012 00:04	1	TAL PIT	BR

**Lab ID: 240-17796-25**

**Client ID: 076SB-0063M-0001-SO**

Sample Date/Time: 11/15/2012 17:15

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-25-A		180-59320	180-59062	11/27/2012 10:06	1	TAL PIT	BR
A:6020/DOD	240-17796-F-25-A		180-59320	180-59062	12/23/2012 19:13	1	TAL PIT	BR

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

### Laboratory Chronicle

Lab ID: 240-17796-26

Client ID: 076SB-0064M-0001-SO

Sample Date/Time: 11/15/2012 17:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-26-A		180-59262	180-59171	11/28/2012 12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-26-A		180-59262	180-59171	12/23/2012 00:22	1	TAL PIT	BR

Lab ID: 240-17796-26 MS

Client ID: 076SB-0064M-0001-SO

Sample Date/Time: 11/15/2012 17:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-26-C MS		180-59262	180-59171	11/28/2012 12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-26-C MS		180-59262	180-59171	12/23/2012 00:35	1	TAL PIT	BR

Lab ID: 240-17796-26 DU

Client ID: 076SB-0064M-0001-SO

Sample Date/Time: 11/15/2012 17:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-26-B DU		180-59262	180-59171	11/28/2012 12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-26-B DU		180-59262	180-59171	12/23/2012 00:31	1	TAL PIT	BR

Lab ID: 240-17796-26 SD

Client ID: 076SB-0064M-0001-SO

Sample Date/Time: 11/15/2012 17:25

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-26-A SD ^5		180-59262	180-59171	11/28/2012 12:40	5	TAL PIT	BR
A:6020/DOD	240-17796-F-26-A SD ^5		180-59262	180-59171	12/23/2012 00:27	5	TAL PIT	BR
P:3050B	240-17796-F-26-A PDS		180-59262	180-59171	11/28/2012 12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-26-A PDS		180-59262	180-59171	12/23/2012 00:40	1	TAL PIT	BR

Lab ID: 240-17796-27

Client ID: 076SB-0065M-0001-SO

Sample Date/Time: 11/15/2012 17:40

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	240-17796-F-27-A		180-59262	180-59171	11/28/2012 12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-27-A		180-59262	180-59171	12/23/2012 00:59	1	TAL PIT	BR

## Quality Control Results

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

### Laboratory Chronicle

Lab ID: 240-17796-28

Client ID: 076SB-0066M-0001-SO

Sample Date/Time: 11/15/2012 16:50

Received Date/Time: 11/16/2012 18:42

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	AnalYZed				
P:3050B	240-17796-F-28-A		180-59262	180-59171	11/28/2012	12:40	1	TAL PIT	BR
A:6020/DOD	240-17796-F-28-A		180-59262	180-59171	12/23/2012	01:04	1	TAL PIT	BR

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	AnalYZed				
P:3050B	MB 180-59062/1-A		180-59262	180-59062	11/27/2012	10:06	1	TAL PIT	BR
A:6020/DOD	MB 180-59062/1-A		180-59262	180-59062	12/22/2012	21:29	1	TAL PIT	BR
P:3050B	MB 180-59171/1-A		180-59262	180-59171	11/28/2012	12:40	1	TAL PIT	BR
A:6020/DOD	MB 180-59171/1-A		180-59262	180-59171	12/23/2012	00:14	1	TAL PIT	BR
P:3050B	MB 180-59062/1-A		180-59320	180-59062	11/27/2012	10:06	1	TAL PIT	BR
A:6020/DOD	MB 180-59062/1-A		180-59320	180-59062	12/23/2012	19:08	1	TAL PIT	BR

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared /		Dil	Lab	Analyst
			Batch	Prep Batch	AnalYZed				
P:3050B	LCS 180-59062/2-A		180-59262	180-59062	11/27/2012	10:06	1	TAL PIT	BR
A:6020/DOD	LCS 180-59062/2-A		180-59262	180-59062	12/22/2012	21:33	1	TAL PIT	BR
P:3050B	LCS 180-59171/2-A		180-59262	180-59171	11/28/2012	12:40	1	TAL PIT	BR
A:6020/DOD	LCS 180-59171/2-A		180-59262	180-59171	12/23/2012	00:18	1	TAL PIT	BR

#### Lab References:

TAL PIT = TestAmerica Pittsburgh

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CANMS2_00001	07/10/13		High Purity Standards, Lot 1218529			(Purchased Reagent)	Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
CANMSA) Low_00001	01/10/13		High Purity Standards, Lot 1102022			(Purchased Reagent)	Arsenic	10 ug/mL
							B	10 ug/mL
							Barium	10 ug/mL
							Beryllium	10 ug/mL
							Cadmium	10 ug/mL
							Chromium	10 ug/mL
							Cobalt	10 ug/mL
							Copper	10 ug/mL
							Lead	10 ug/mL
							Manganese	10 ug/mL
							Nickel	10 ug/mL
							Selenium	10 ug/mL
							Sr	10 ug/mL
							Thallium	10 ug/mL
Vanadium	10 ug/mL							
							Zinc	10 ug/mL
CANMSA_High_00001	09/11/13		High Purity Standards, Lot 1225405			(Purchased Reagent)	Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Manganese	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Sr	100 ug/mL
							Thallium	25 ug/mL
Vanadium	100 ug/mL							
							Zinc	100 ug/mL
CANMSB_High_00001	09/11/13		High Purity Standards, Lot 1225412			(Purchased Reagent)	Antimony	10 ug/mL
							B	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL
							Sn	10 ug/mL
							Ti	10 ug/mL
CANMSB_Low_00001	01/10/13		High Purity Standards, Lot 1102023			(Purchased Reagent)	Antimony	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sn	10 ug/mL
							Ti	10 ug/mL
MCCV1X_00031	01/06/13	12/06/12	DI Water, Lot K35N55	500 mL	MCALSPECAREV_00003	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Calcium	50 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Iron	25 ppm
							Lead	0.1 ppm
							Magnesium	50 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Potassium	50 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Sodium	50 ppm
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm
.MCALSPECB_00004	04/01/13		Inorganic Ventures, Lot F2-MEB415031		MCALSPECB_00004	10 mL	Antimony	0.1 ppm
					(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00004	04/01/13		Inorganic Ventures, Lot F2-MEB415032		(Purchased Reagent)		Antimony	5 ppm
MCR1X_00024	03/08/13	12/08/12	HNO3, Lot K09N65	250 mL	MMSCRI-1B_00002	1 mL	Aluminum	0.03 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Arsenic	0.001 ppm
							Barium	0.01 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Calcium	0.1 ppm
							Chromium	0.002 ppm
							Cobalt	0.0005 ppm
							Copper	0.002 ppm
							Iron	0.05 ppm
							Lead	0.001 ppm
							Magnesium	0.1 ppm
							Manganese	0.005 ppm
							Nickel	0.001 ppm
							Potassium	0.1 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Sodium	0.1 ppm
							Thallium	0.001 ppm
							Vanadium	0.001 ppm
							Zinc	0.005 ppm
					MMSCRI-2_00004	1 mL	Antimony	0.002 ppm
.MMSCRI-1B_00002	10/01/13		Inorganic Ventures, Lot F2-MEB439152				Aluminum	7.5 ppm
							Arsenic	0.25 ppm
							Barium	2.5 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Calcium	25 ppm
							Chromium	0.5 ppm
							Cobalt	0.125 ppm
							Copper	0.5 ppm
							Iron	12.5 ppm
							Lead	0.25 ppm
							Magnesium	25 ppm
							Manganese	1.25 ppm
							Nickel	0.25 ppm
							Potassium	25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Sodium	25 ppm
							Thallium	0.25 ppm
							Vanadium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00004	10/01/13		Inorganic Ventures, Lot F2-MEB436153				Antimony	0.5 ppm
MICPMSICV_00012	12/30/12	12/03/12	2% Nitric Acid, Lot K09N65	250 mg/L	MICPMSICV_00005	10 mg/L	Aluminum	0.4 mg/L
							Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Barium	0.08 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Beryllium	0.08 mg/L
							Cadmium	0.08 mg/L
							Calcium	40 mg/L
							Chromium	0.08 mg/L
							Cobalt	0.08 mg/L
							Copper	0.08 mg/L
							Iron	20 mg/L
							Lead	0.08 mg/L
							Magnesium	40 mg/L
							Manganese	0.4 mg/L
							Nickel	0.08 mg/L
							Potassium	40 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Sodium	40 mg/L
							Thallium	0.08 mg/L
							Vanadium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00005	12/30/12		SPEX CertiPrep, Lot 26-209JB		(Purchased Reagent)		Aluminum	10 ppm
							Antimony	2 ppm
							Arsenic	2 ppm
							Barium	2 ppm
							Beryllium	2 ppm
							Cadmium	2 ppm
							Calcium	1000 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Iron	500 ppm
							Lead	2 ppm
							Magnesium	1000 ppm
							Manganese	10 ppm
							Nickel	2 ppm
							Potassium	1000 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Sodium	1000 ppm
							Thallium	2 ppm
							Vanadium	2 ppm
							Zinc	2 ppm
MICSABX_00026	03/08/13	12/08/12	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					M6020ICS-0B_00004	1 mL	Ti	2 ppm
							Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Cobalt	0.02 ppm
							Copper	0.02 ppm
							Manganese	0.0225 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
					Zinc	0.025 ppm		
					MMSICSAB-1_00004	0.2 mL	Barium	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.02 ppm
							Thallium	0.02 ppm
Vanadium	0.02 ppm							
MMSICSAB-2_00004	0.2 mL	Antimony	0.02 ppm					
		B	0.05 ppm					
		Selenium	0.05 ppm					
		Si	0.5 ppm					
		Sn	0.1 ppm					
.M6020ICS-0A_00003	11/01/13		Inorganic Ventures, Lot F2-MEB418129		(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00004	11/01/13		Inorganic Ventures, Lot F2-MEB415126		(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Manganese	2.25 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00004	04/01/13		Inorganic Ventures, Lot F2-MEB415033		(Purchased Reagent)		Barium	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	10 ppm
							Thallium	10 ppm
							Vanadium	10 ppm
.MMSICSAB-2_00004	04/01/13		Inorganic Ventures, Lot F2-MEB361116		(Purchased Reagent)		Antimony	10 ppm
							B	25 ppm
							Selenium	25 ppm
							Si	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sn	50 ppm
MICSAX_00023	03/08/13	12/08/12	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00003	10 mL	Aluminum	100 ppm
							Calcium	100 ppm
							Iron	100 ppm
							Magnesium	100 ppm
							Mo	2 ppm
							Potassium	100 ppm
							Sodium	100 ppm
						Ti	2 ppm	
.M6020ICS-0A_00003	11/01/13		Inorganic Ventures, Lot F2-MEB418129		(Purchased Reagent)		Aluminum	1000 ppm
							Calcium	1000 ppm
							Iron	1000 ppm
							Magnesium	1000 ppm
							Mo	20 ppm
							Potassium	1000 ppm
							Sodium	1000 ppm
						Ti	20 ppm	
MSTD2X_00015	02/18/13	11/18/12	DI Water, Lot K35N55	250 mL	MCALSPECAREV_00003	10 mL	Aluminum	1 ppm
							Arsenic	0.2 ppm
							Barium	0.2 ppm
							Beryllium	0.2 ppm
							Cadmium	0.2 ppm
							Calcium	100 ppm
							Chromium	0.2 ppm
							Cobalt	0.2 ppm
							Copper	0.2 ppm
							Iron	50 ppm
							Lead	0.2 ppm
							Magnesium	100 ppm
							Manganese	1 ppm
							Nickel	0.2 ppm
							Potassium	100 ppm
							Selenium	0.2 ppm
							Silver	0.2 ppm
							Sodium	100 ppm
							Thallium	0.2 ppm
Vanadium	0.2 ppm							
						Zinc	0.2 ppm	
.MCALSPECAREV_00003	04/01/13		Inorganic Ventures, Lot F2-MEB415031		(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Calcium	2500 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iron	1250 ppm
							Lead	5 ppm
							Magnesium	2500 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Potassium	2500 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Sodium	2500 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
<b>MSTD3X_00016</b>	02/18/13	11/18/12	DI Water, Lot K35N55	250 mL	MCALSPECB_00004	10 mL	Antimony	0.2 ppm
.MCALSPECB_00004	04/01/13		Inorganic Ventures, Lot F2-MEB415032		(Purchased Reagent)		Antimony	5 ppm
<b>MTAPITTICPMS_00008</b>	03/01/13		INORGANIC VENTURES, Lot F2-MEB410066		(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Iron	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
<b>MTAPITTMCA_00008</b>	07/01/13		INORGANIC VENTURES, Lot E2-MEB404058MCA		(Purchased Reagent)		Calcium	5000 ug/mL
							Magnesium	5000 ug/mL
							Potassium	5000 ug/mL
							Sodium	5000 ug/mL
<b>MTAPITTMSC_00013</b>	07/01/13		Inorganic Ventures, Lot F2-MED427091		(Purchased Reagent)		Antimony	50 ug/mL

#350253 3/9/12 RJR



300 Technology Drive  
Christiansburg, VA 24073 • USA  
inorganicventures.com

# CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030  
fax: 540.585.3012  
info@inorganicventures.com

**1.0 INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM** Custom Solution  
Catalog No.: TAPITT-CAL-SPECA-REV  
Lot Number: **F2-MEB415031**  
Matrix: 3% HNO<sub>3</sub>(v/v)

2,500 µg/mL ea:

Ca, K, Mg, Na,

1,250 µg/mL ea:

Fe,

25 µg/mL ea:

Al, Mn,

5 µg/mL ea:

Ag, As, Ba, Be, Cd, Co, Cr<sub>3</sub>, Cu, Ni,

Pb, Se, Sr, Tl, V, Zn

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	25.00 ± 0.18 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	4.999 ± 0.036 µg/mL
Beryllium, Be	5.002 ± 0.036 µg/mL	Cadmium, Cd	5.000 ± 0.032 µg/mL	Calcium, Ca	2,500 ± 16 µg/mL
Chromium+3, Cr <sub>3</sub>	5.001 ± 0.032 µg/mL	Cobalt, Co	5.003 ± 0.032 µg/mL	Copper, Cu	5.001 ± 0.032 µg/mL
Iron, Fe	1,250 ± 8 µg/mL	Lead, Pb	5.002 ± 0.032 µg/mL	Magnesium, Mg	2,500 ± 16 µg/mL
Manganese, Mn	25.02 ± 0.15 µg/mL	Nickel, Ni	4.999 ± 0.028 µg/mL	Potassium, K	2,500 ± 16 µg/mL
Selenium, Se	5.002 ± 0.028 µg/mL	Silver, Ag	4.999 ± 0.032 µg/mL	Sodium, Na	2,500 ± 16 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	5.002 ± 0.032 µg/mL	Vanadium, V	4.999 ± 0.032 µg/mL
Zinc, Zn	5.001 ± 0.028 µg/mL				

Certified Density: 1.051 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \sum (s_i)^2 \right]^{1/2}$$

2 = the coverage factor.

$\left[ \sum (s_i)^2 \right]^{1/2}$  = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

#### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

#### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212	Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502	Al	EDTA	928	928
As	Calculated		See Sec. 4.2	As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2	Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2	Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	050825	Ca	EDTA	928	928
Cd	ICP Assay	3108	060531	Cd	EDTA	928	928
Co	ICP Assay	3113	00630	Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2	Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017	Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031	Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2	K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302	Mg	EDTA	928	928
Mn	ICP Assay	3132	050429	Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2	Na	ICP Assay	3152a	010728
Ni	ICP Assay	3136	000612	Ni	EDTA	928	928
Pb	ICP Assay	3128	030721	Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2	Se	ICP Assay	3149	992106
Sr	ICP Assay	3153a	990906	Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2	Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706	V	EDTA	928	928
Zn	ICP Assay	3168a	080123	Zn	EDTA	928	928

- 4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).
- 4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.
- 4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES IN $\mu\text{g/mL}$ - N/A

### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:  
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry  
For the validation of analytical methods  
For the preparation of "working reference samples"  
For interference studies and the determination of correction coefficients  
For detection limit and linearity studies  
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep Tightly sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . Do Not pipette from the container. Do Not return portions removed from pipetting to container.

**Element Specific Information** - For specific information regarding any element: Contact technical staff.

**Uranium Note:** If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

**Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

### 9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

### 10.0 QUALITY STANDARD DOCUMENTATION

#### 10.1 ISO 9001 Quality Management System Registration - QMI File Number 010105

#### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 883.01

#### 10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers" - Reference Materials Production - Accredited A2LA Certificate Number 883.02

#### 10.4 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licensing of Production and Utilization Facilities

#### 10.5 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance

**11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY**

**11.1 Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

**11.2 Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

**11.3 Chemical Stability** - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

**Certification Date:** March 06, 2012

**Expiration Date:** **EXPIRES**  
01 APR 2013

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:** Donna Senn, Product Documentation Technician



**Certificate Approved By:** Brian Alexander, PhD., Quality Control Supervisor



**Certifying Officer:** Paul Gaines, PhD., Senior Technical Director



**1.0 INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM** Custom Solution  
 Catalog No.: TAPITT-CAL-SPECB  
 Lot Number: **F2-MEB415032**  
 Matrix: tr. HF, 3% HNO<sub>3</sub>(v/v)

250 µg/mL ea:

Si,

5 µg/mL ea:

B, Mo, Sb, Sn, Ti

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	5.002 ± 0.045 µg/mL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.002 ± 0.035 µg/mL
Silicon, Si	250.1 ± 1.2 µg/mL	Tin, Sn	5.002 ± 0.041 µg/mL	Titanium, Ti	5.002 ± 0.039 µg/mL

**Certified Density:** 1.016 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \sum (s_i)^2 \right]^{1/2}$$

2 = the coverage factor.

$\left[ \sum (s_i)^2 \right]^{1/2}$  = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.



#### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2	B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2	Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2	Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2	Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2	Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2	Ti	ICP Assay	3162a	060808

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

#### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:

HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry

For the validation of analytical methods

For the preparation of "working reference samples"

For interference studies and the determination of correction coefficients

For detection limit and linearity studies

For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep **Tightly** sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

**Uranium Note:** If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

**HF Note:** This standard should not be prepared or stored in glass.

#### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

#### 9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

- 10.1 ISO 9001 Quality Management System Registration  
- QMI File Number 010105
- 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"  
- Chemical Testing - Accredited A2LA Certificate Number 883.01
- 10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"  
- Reference Materials Production - Accredited A2LA Certificate Number 883.02
- 10.4 10CFR50 Appendix B - Nuclear Regulatory Commission  
- Domestic Licensing of Production and Utilization Facilities
- 10.5 10CFR21 - Nuclear Regulatory Commission  
- Reporting Defects and Non-Compliance

## 11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: **EXPIRES**  
01 MAR 2013

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn, Product Documentation  
Technician



Certificate Approved By: Brian Alexander, PhD., Quality Control Supervisor



Certifying Officer: Paul Gaines, PhD., Senior Technical Director



#350255 3/9/12 RJR



300 Technology Drive  
Christiansburg, VA 24073 • USA  
inorganicventures.com

# CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030  
fax: 540.585.3012  
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



2.0 **DESCRIPTION OF CRM** Custom Solution  
Catalog No.: TAPITT-MSICSAB-1  
Lot Number: **F2-MEB415033**  
Matrix: 3% HNO<sub>3</sub>(v/v)

10 µg/mL ea:

Ba, Be, Pb, Sr, Tl, V

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.07 µg/mL	Beryllium, Be	10.00 ± 0.07 µg/mL	Lead, Pb	10.00 ± 0.06 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	10.00 ± 0.06 µg/mL	Vanadium, V	10.00 ± 0.06 µg/mL

**Certified Density:** 1.014 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \sum (s_i)^2 \right]^{1/2}$$

2 = the coverage factor.

$\left[ \sum (s_i)^2 \right]^{1/2}$  = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

#### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ba	Gravimetric		See Sec. 4.2	Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2	Be	ICP Assay	3105a	892707
Pb	ICP Assay	3128	030721	Pb	EDTA	928	928
Sr	ICP Assay	3153a	990906	Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2	Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706	V	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

#### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:  
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry  
For the validation of analytical methods  
For the preparation of "working reference samples"  
For interference studies and the determination of correction coefficients  
For detection limit and linearity studies  
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep **Tightly** sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

#### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

#### 9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

#### 10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration  
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"  
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"  
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission  
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission  
- Reporting Defects and Non-Compliance

## 11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

**11.1 Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

**11.2 Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

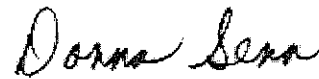
**11.3 Chemical Stability** - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 06, 2012

Expiration Date: **EXPIRES**  
01 2013

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS


Certificate Prepared By: Donna Senn, Product Documentation  
Technician



Certificate Approved By: Brian Alexander, PhD., Quality Control Supervisor



Certifying Officer: Paul Gaines, PhD., Senior Technical Director



**1.0 INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM** Custom Solution  
 Catalog No.: TAPITT-MSICSAB-2  
 Lot Number: **E2-MEB361116**  
 Matrix: tr. HF, 3% HNO<sub>3</sub>(v/v)

250 µg/mL ea:

Si,

50 µg/mL ea:

Sn,

25 µg/mL ea:

B, Se,

10 µg/mL ea:

Sb

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	10.01 ± 0.05 µg/mL	Boron, B	24.98 ± 0.18 µg/mL	Selenium, Se	25.03 ± 0.33 µg/mL
Silicon, Si	249.8 ± 0.6 µg/mL	Tin, Sn	49.97 ± 0.34 µg/mL		

**Certified Density:** 1.018 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 [(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

#### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	070514	Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229	Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106	Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204	Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330				

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

#### 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

#### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:  
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry  
For the validation of analytical methods  
For the preparation of "working reference samples"  
For interference studies and the determination of correction coefficients  
For detection limit and linearity studies  
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep Tightly sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . Do Not pipette from the container. Do Not return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

#### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

#### 9.0 HOMOGENEITY - This solution was mixed according to in-house procedure IV-MPM-004 and is guaranteed to be homogeneous.

#### 10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration  
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"  
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"  
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission  
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission  
- Reporting Defects and Non-Compliance

**11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY**

**11.1 Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

**11.2 Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

**11.3 Chemical Stability** - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

**Certification Date:** January 26, 2011

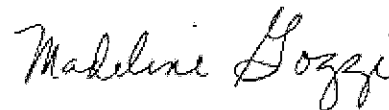
**Expiration Date:** **EXPIRES**  
01 2013

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:** Donna Senn, Product Documentation Technician



**Certificate Approved By:** Madeline Gozzi, Quality Control Supervisor



**Certifying Officer:** Paul Gaines, PhD., Senior Technical Director





CH 713/2012

**1.0 INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM** Custom Solution  
 Catalog No.: TAPITT-MS-A  
 Lot Number: **E2-MEB404058MCA**  
 Matrix: 3% HNO<sub>3</sub>(v/v)

5,000 µg/mL ea:

Ca, K, Mg, Na

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Calcium, Ca	5,000 ± 32 µg/mL	Magnesium, Mg	5,000 ± 32 µg/mL	Potassium, K	5,000 ± 32 µg/mL
Sodium, Na	5,000 ± 32 µg/mL				

**Certified Density:** 1.073 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

 $(\bar{x}) = \text{mean}$ 
 $x_i = \text{individual results}$ 
 $n = \text{number of measurements}$ 

$$\text{Uncertainty } (\pm) = \frac{2 [(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

 $\sum s_i = \text{The summation of all significant estimated errors}$ 

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

#### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ca	ICP Assay	3109a	050825	Ca	EDTA	928	928
K	Gravimetric		See Sec. 4.2	K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302	Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2	Na	ICP Assay	3152a	010728

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

#### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:  
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry  
For the validation of analytical methods  
For the preparation of "working reference samples"  
For interference studies and the determination of correction coefficients  
For detection limit and linearity studies  
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep **Tightly** sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

**Element Specific Information** - For specific information regarding any element: Contact technical staff.

**Uranium Note:** If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

#### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

#### 9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

#### 10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001 Quality Management System Registration**  
- QMI File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**  
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"**  
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**  
- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**  
- Reporting Defects and Non-Compliance


**11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY**

**11.1 Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

**11.2 Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

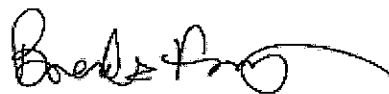
~~11.3 Chemical Stability~~ - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

**Certification Date:** January 13, 2012

**Expiration Date:** 

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:** Brenda Francis  
Product Documentation Technician



**Certificate Approved By:** Brian Alexander  
PHD., Quality Control Supervisor



**Certifying Officer:** Paul Gaines  
PHD., Senior Technical Director



**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product code** TAPITMS-A  
**Product name** Multi-element Solution Standard in Dilute Nitric Acid  
**Common Name** Contains: 5000 µg/mL ea: Ca, K, Mg, Na  
**Manufacturer, importer, supplier** Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073  
web: www.inorganicventures.com  
**Emergency telephone number** 800-424-9300 CHEMTREC (24 hrs)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% Weight	ACGIH*	OSHA*
7732-18-5	Water	~93.3	N/A	N/A
7697-37-2	Nitric Acid	~3	2 ppm TWA	2 ppm TWA; 5 mg/m3 TWA
7757-79-1	Potassium nitrate	~1.3	N/A	N/A
497-19-8	Sodium Carbonate	~1.2	N/A	N/A
1305-78-8	Calcium Oxide	~0.7	2 mg/m3 TWA	5 mg/m3 TWA
7439-95-4	Magnesium	~0.5	N/A	N/A

\* ACGIH - Occupational Exposure Limits - TWAs

\* OSHA - Final PELs - Time Weighted Averages (TWAs)

**3. HAZARDS IDENTIFICATION**
**Emergency Overview**

- Vapours may be irritating to eyes, nose, throat, and lungs
- Corrosive

**Eye contact**

- Contact with eyes may cause irritation

**Skin contact**

- Substance may cause slight skin irritation

**Inhalation**

- May cause irritation of respiratory tract

**Ingestion**

- Harmful if swallowed

**4. FIRST AID MEASURES**
**General advice**

- Show this safety data sheet to the doctor in attendance

**Skin contact**

- Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
- Consult a physician if necessary

**Eye contact**

- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- Keep eye wide open while rinsing
- If eye irritation persists, consult a specialist

**Inhalation**

- Move to fresh air in case of accidental inhalation of vapours
- If breathing is difficult, give oxygen
- Consult a physician if necessary

**Ingestion**

- Call a physician or Poison Control Centre immediately
- If swallowed, seek medical advice immediately and show this container or label
- If conscious, drink plenty of water

**5. FIRE-FIGHTING MEASURES**
**Flash point**

NA

**Suitable extinguishing media**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Specific hazards**

- Thermal decomposition can lead to release of irritating gases and vapours

Specific methods	<ul style="list-style-type: none"> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations</li> </ul>
Special protective equipment for firefighters	<ul style="list-style-type: none"> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
NFPA (National Fire Protection Association)	<ul style="list-style-type: none"> <li>Health - 2</li> <li>Fire Hazard - 0</li> <li>Reactivity - 0</li> </ul>
Under conditions giving incomplete combustion, hazardous gases produced may consist of:	<ul style="list-style-type: none"> <li>nitrogen oxides (NOx).</li> </ul>

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none"> <li>Evacuate personnel to safe areas</li> <li>Keep people away from and upwind of spill/leak</li> <li>Wear personal protective equipment</li> <li>Ensure adequate ventilation</li> </ul>
Environmental precautions	<ul style="list-style-type: none"> <li>Prevent further leakage or spillage if safe to do so</li> <li>Prevent product from entering drains</li> </ul>
Methods for cleaning up	<ul style="list-style-type: none"> <li>Dam up</li> <li>Neutralize with lime milk or soda and flush with plenty of water</li> <li>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> <li>After cleaning, flush away traces with water</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

Technical measures/Precautions	<ul style="list-style-type: none"> <li>Use only in area provided with appropriate exhaust ventilation</li> </ul>
Safe handling advice	<ul style="list-style-type: none"> <li>Wear personal protective equipment</li> </ul>

### Storage

Technical measures/Precautions	<ul style="list-style-type: none"> <li>Keep in properly labelled containers</li> <li>Store at room temperature in the original container</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place</li> </ul>
Incompatible products	<ul style="list-style-type: none"> <li>organic materials</li> <li>reducing agents</li> </ul>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Personal protective equipment</b>	
Hand protection	<ul style="list-style-type: none"> <li>impervious gloves</li> </ul>
Eye protection	<ul style="list-style-type: none"> <li>tightly fitting safety goggles</li> </ul>
Respiratory protection	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> </ul>
Skin and body protection	<ul style="list-style-type: none"> <li>Chemical resistant apron</li> <li>Lab coat</li> </ul>
Hygiene measures	<ul style="list-style-type: none"> <li>When using, do not eat, drink or smoke</li> <li>Regular cleaning of equipment, work area and clothing</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form	liquid.
Appearance	clear
Colour	colorless.
Odour	None.

### Important Health Safety and Environmental Information

pH	0 to 2
Boiling point/range	100°C
Flash point	N/A

Vapour pressure  
Water solubility

NA.  
miscible.

## 10. STABILITY AND REACTIVITY

Stability	<ul style="list-style-type: none"><li>Stable under normal conditions</li><li>Hazardous polymerization does not occur</li></ul>
Materials to avoid	<ul style="list-style-type: none"><li>organic materials</li><li>reducing agents</li></ul>
Hazardous decomposition products	<ul style="list-style-type: none"><li>nitrogen oxides (NOx)</li></ul>

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Component Information

CAS	Chemical Name	% Weight	LD50/oral/rat =	LD50/dermal/rat =
7732-18-5	Water	~93.3	N/A	N/A
7697-37-2	Nitric Acid	~3	Inhalation LC50 Rat: 130 mg/kg/4H	Inhalation LC50 Rat: 130 mg/kg/4H
7757-79-1	Potassium nitrate	~1.3	Oral LD50 Rat: 3750 mg/kg	Oral LD50 Rat: 3750 mg/kg
497-19-8	Sodium Carbonate	~1.2	Oral LD50 Rat: 4090 mg/kg	Oral LD50 Rat: 4090 mg/kg
1305-78-8	Calcium Oxide	~0.7	N/A	N/A
7439-95-4	Magnesium	~0.5	N/A	N/A

### Product Information

Local effects	Na- . KNO3 - . Poison.
Skin irritation	May cause skin irritation and/or dermatitis.
Eye irritation	May cause eye irritation with susceptible persons.
Inhalation	May cause irritation of respiratory tract.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Chronic toxicity	Avoid repeated exposure. KNO3 - . Chronic exposure may cause: Methemoglobinemia, anemia, and nephritis.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

### Component Information

CAS	Chemical Name	% Weight	EFAD*	EFFSD*	EMD - Ecotoxicity*
7732-18-5	Water	~93.3	N/A	N/A	N/A
7697-37-2	Nitric Acid	~3	N/A	N/A	N/A
7757-79-1	Potassium nitrate	~1.3	N/A	N/A	N/A
497-19-8	Sodium Carbonate	~1.2	N/A	96 Hr LC50 bluegill: 320 mg/L (static)	N/A
1305-78-8	Calcium Oxide	~0.7	N/A	N/A	N/A
7439-95-4	Magnesium	~0.5	N/A	N/A	N/A

\* EFAD - Ecotoxicity - Freshwater Algae Data

\* EFFSD - Ecotoxicity - Freshwater Fish Species Data

\* EMD - Ecotoxicity - Microtox Data

### Product Information

Do not allow material to contaminate ground water or sewage system

### Other information

**13. DISPOSAL CONSIDERATIONS**

Waste from residues / unused products	<ul style="list-style-type: none"> <li>In accordance with local and national regulations</li> </ul>
Contaminated packaging	<ul style="list-style-type: none"> <li>Empty containers should be taken for local recycling, recovery or waste disposal</li> </ul>

**14. TRANSPORT INFORMATION****DOT**

UN-No UN3264 / Class 8  
 Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s  
 Packing group III

**IATA-DGR**

UN-No UN3264 / Class 8  
 Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s  
 Packing group III

**15. REGULATORY INFORMATION****U.S. INVENTORIES:**

CAS	Chemical Name	% Weight	CPCL*	NJRTK*	CERCLA/SARA*
7732-18-5	Water	~93.3	N/A	N/A	N/A
7697-37-2	Nitric Acid	~3	N/A	sn 1356	1000 lb final RQ; 454 kg final RQ
7757-79-1	Potassium nitrate	~1.3	N/A	sn 1574	N/A
497-19-8	Sodium Carbonate	~1.2	N/A	N/A	N/A
1305-78-8	Calcium Oxide	~0.7	N/A	sn 0325	N/A
7439-95-4	Magnesium	~0.5	N/A	sn 1136	N/A

\* CPCL - California - Proposition 65 - Carcinogens List

\* NJRTK - New Jersey - Department of Health RTK List

\* CERCLA/SARA - Hazardous Substances and their Reportable Quantities

**INTERNATIONAL INVENTORIES:**

CAS	Chemical Name	% Weight	WHMIS*	EINECCS - European Union*
7732-18-5	Water	~93.3	Uncontrolled product according to WHMIS classification criteria	231-791-2
7697-37-2	Nitric Acid	~3	C, E (including 60%, 61.3%, 63%, 67%, 67.18%, 70%, 90%); E (10%)	231-714-2
7757-79-1	Potassium nitrate	~1.3	C	231-818-8
497-19-8	Sodium Carbonate	~1.2	N/A	207-838-8
1305-78-8	Calcium Oxide	~0.7	E	215-138-9
7439-95-4	Magnesium	~0.5	B4, B6	231-104-6

\* WHMIS - Canada - WHMIS - Classifications of Substances

\* EINECCS - European Union - European inventory of Existing Commercial Chemical Substances (EINECCS)

**16. OTHER INFORMATION**

The above information is believed to be accurate and represents the best information available to us. It has been compiled from the data presented in various technical publications and our experience and should only be used as a guide for handling this product. It is the user's responsibility to determine the suitability of this information for their particular purposes. We assume that only qualified individuals, trained and familiar with procedures suitable to this product will handle this material. Inorganic Ventures, Inc. assumes no responsibility and shall not be held liable for any damage resulting from misuse of this product.

CH 7/3/2012

**1.0 INORGANIC VENTURES** is an ISO Guide-34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM** Custom Solution  
 Catalog No.: TAPITT-MS-C  
 Lot Number: **F2-MEB427091**  
 Matrix: tr. HF, 3% HNO<sub>3</sub>(v/v)

1,000 µg/mL ea:

Si,

200 µg/mL ea:

Sn,

100 µg/mL ea:

Mo, Ti,

50 µg/mL ea:

Sb

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	50.03 ± 0.38 µg/mL	Molybdenum, Mo	100.0 ± 0.8 µg/mL	Silicon, Si	1,000 ± 5 µg/mL
Tin, Sn	200.0 ± 1.3 µg/mL	Titanium, Ti	100.0 ± 0.7 µg/mL		

**Certified Density:** 1.019 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \sum (s_i)^2 \right]^{1/2}$$

2 = the coverage factor.

$\left[ \sum (s_i)^2 \right]^{1/2}$  = The square root of the sum of the squares of the most common errors (where s stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.



#### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

##### 4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2	Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2	Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2	Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2	Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808				

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

#### 6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:  
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry  
For the validation of analytical methods  
For the preparation of "working reference samples"  
For interference studies and the determination of correction coefficients  
For detection limit and linearity studies  
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**Storage & Handling** - Keep Tightly sealed when not in use. Store and use at  $20 \pm 4^\circ\text{C}$ . Do Not pipette from the container. Do Not return portions removed from pipetting to container.

**Element Specific Information** - For specific information regarding any element: Contact technical staff.

**Uranium Note:** If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

**HF Note:** This standard should not be prepared or stored in glass.

#### 8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

#### 9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

**10.0 QUALITY STANDARD DOCUMENTATION**

- 10.1 ISO 9001 Quality Management System Registration  
- QMI File Number 010105
- 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"  
- Chemical Testing - Accredited A2LA Certificate Number 883.01
- 10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"  
- Reference Materials Production - Accredited A2LA Certificate Number 883.02
- 10.4 10CFR50 Appendix B - Nuclear Regulatory Commission  
- Domestic Licensing of Production and Utilization Facilities
- 10.5 10CFR21 - Nuclear Regulatory Commission  
- Reporting Defects and Non-Compliance

**11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY**

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.


11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: June 21, 2012

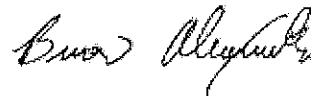
Expiration Date: **EXPIRES**  
01/2013

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

Certificate Prepared By: Donna Senn  
Product Documentation Technician



Certificate Approved By: Brian Alexander  
PhD., Quality Control Supervisor



Certifying Officer: Paul Gaines  
PhD., Senior Technical Director



**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product code** TAPITMS-C  
**Product name** Multi-element Solution Standard in Dilute Nitric Acid trace Hydrofluoric Acid  
**Common Name** Contains: 1000 µg/mL Si; 200 µg/mL Sn; 100 µg/mL ea: Mo, Ti; 50 µg/mL Sb  
**Manufacturer, importer, supplier** Inorganic Ventures  
 300 Technology Drive  
 Christiansburg, VA 24073  
 Web: www.inorganicventures.com  
**Emergency telephone number** 800-424-9300 CHEMTREC (24 hrs)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% Weight	ACGIH*	OSHA*
7732-18-5	Water	~96.80	N/A	N/A
7697-37-2	Nitric Acid	~3	2 ppm TWA	2 ppm TWA; 5 mg/m <sup>3</sup> TWA
7664-39-3	Hydrogen fluoride	<0.1	0.5 ppm TWA (as F)	3 ppm TWA
60676-86-0	Silica, fused	~0.2	0.1 mg/m <sup>3</sup> TWA (respirable fraction)	N/A

\* ACGIH - Occupational Exposure Limits - TWAs

\* OSHA - Final PELs - Time Weighted Averages (TWAs)

**3. HAZARDS IDENTIFICATION**
**Emergency Overview**

- Vapours may be irritating to eyes, nose, throat, and lungs
- Corrosive

**Eye contact**

- Contact with eyes may cause irritation

**Skin contact**

- Causes severe burns

**Inhalation**

- May cause irritation of respiratory tract

**Ingestion**

- Harmful if swallowed

**4. FIRST AID MEASURES**
**General advice**

- Show this safety data sheet to the doctor in attendance

**Skin contact**

- Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
- First treatment with calcium gluconate paste
- Immediate medical attention is required

**Eye contact**

- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- Keep eye wide open while rinsing
- Immediate medical attention is required

**Inhalation**

- Move to fresh air in case of accidental inhalation of vapours
- If breathing is difficult, give oxygen
- Immediate medical attention is required

**Ingestion**

- Call a physician or Poison Control Centre immediately
- If swallowed, seek medical advice immediately and show this container or label
- If conscious, drink plenty of water

**Notes to physician**

- Treat symptomatically

**Protection of first-aiders**

- Use personal protective equipment

**5. FIRE-FIGHTING MEASURES**

Flash point	NA
Suitable extinguishing media	<ul style="list-style-type: none"> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</li> </ul>
Specific hazards	<ul style="list-style-type: none"> <li>Thermal decomposition can lead to release of irritating gases and vapours</li> </ul>
Specific methods	<ul style="list-style-type: none"> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations</li> </ul>
Special protective equipment for firefighters	<ul style="list-style-type: none"> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
NFPA (National Fire Protection Association)	<ul style="list-style-type: none"> <li>Health - 2</li> <li>Fire Hazard - 0</li> <li>Reactivity - 0</li> </ul>
Under conditions giving incomplete combustion, hazardous gases produced may consist of:	<ul style="list-style-type: none"> <li>nitrogen oxides (NO<sub>x</sub>).</li> <li>F<sup>+</sup></li> </ul>

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none"> <li>Evacuate personnel to safe areas</li> <li>Keep people away from and upwind of spill/leak</li> <li>Wear personal protective equipment</li> <li>Ensure adequate ventilation</li> </ul>
Environmental precautions	<ul style="list-style-type: none"> <li>Prevent further leakage or spillage if safe to do so</li> <li>Prevent product from entering drains</li> </ul>
Methods for cleaning up	<ul style="list-style-type: none"> <li>Dam up</li> <li>Neutralize with lime milk or soda and flush with plenty of water</li> <li>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> <li>After cleaning, flush away traces with water</li> </ul>

#### 7. HANDLING AND STORAGE

##### Handling

Technical measures/Precautions	<ul style="list-style-type: none"> <li>Use only in area provided with appropriate exhaust ventilation</li> </ul>
Safe handling advice	<ul style="list-style-type: none"> <li>Wear personal protective equipment</li> <li>Use product only in closed system</li> </ul>

##### Storage

Technical measures/Precautions	<ul style="list-style-type: none"> <li>Keep in properly labelled containers</li> <li>Store at room temperature in the original container</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place</li> </ul>
Incompatible products	<ul style="list-style-type: none"> <li>organic materials</li> <li>reducing agents</li> </ul>

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>Personal protective equipment</b>	
Hand protection	<ul style="list-style-type: none"> <li>impervious gloves</li> </ul>
Eye protection	<ul style="list-style-type: none"> <li>tightly fitting safety goggles</li> </ul>
Respiratory protection	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> </ul>
Skin and body protection	<ul style="list-style-type: none"> <li>Chemical resistant apron</li> <li>Lab coat</li> </ul>
Hygiene measures	<ul style="list-style-type: none"> <li>When using, do not eat, drink or smoke</li> <li>Regular cleaning of equipment, work area and clothing</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form	liquid.
Appearance	clear
Colour	colorless.
Odour	None.

### Important Health Safety and Environmental Information

pH	0 to 2
Boiling point/range	100°C
Flash point	NA
Vapour density	NA.
Water solubility	miscible.

## 10. STABILITY AND REACTIVITY

Stability	<ul style="list-style-type: none"> <li>• Stable under normal conditions</li> <li>• Hazardous polymerization does not occur</li> </ul>
Materials to avoid	<ul style="list-style-type: none"> <li>• organic materials</li> <li>• reducing agents</li> </ul>
Hazardous decomposition products	<ul style="list-style-type: none"> <li>• nitrogen oxides (NO<sub>x</sub>)</li> <li>• F<sup>-</sup></li> </ul>

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

CAS	Chemical Name	% Weight	LD50/oral/rat =	LD50/dermal/rat =
7732-18-5	Water	~96.80	N/A	N/A
7697-37-2	Nitric Acid	~3	Inhalation LC50 Rat: 130 mg/kg/4H	Inhalation LC50 Rat: 130 mg/kg/4H
7664-39-3	Hydrogen fluoride	<0.1	Inhalation LC50 Rat: 1276 ppm/1H	Inhalation LC50 Rat: 1276 ppm/1H
60676-86-0	Silica, fused	~0.2	N/A	N/A

#### Product Information

<b>Local effects</b>	HF is toxic and can cause severe burns that are not apparent immediately.
<b>Skin irritation</b>	Causes severe burns.
<b>Eye irritation</b>	Irritant.
<b>Inhalation</b>	Irritant.
<b>Ingestion</b>	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Harmful if swallowed.
<b>Chronic toxicity</b>	Avoid repeated exposure. Prolonged exposure may cause chronic effects.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

#### Component Information

CAS	Chemical Name	% Weight	EFAD*	EFFSD*	EMD - Ecotoxicity*
7732-18-5	Water	~96.80	N/A	N/A	N/A
7697-37-2	Nitric Acid	~3	N/A	N/A	N/A
7664-39-3	Hydrogen fluoride	<0.1	N/A	N/A	N/A
60676-86-0	Silica, fused	~0.2	N/A	N/A	N/A

- \* EFAD - Ecotoxicity - Freshwater Algae Data
- \* EFFSD - Ecotoxicity - Freshwater Fish Species Data
- \* EMD - Ecotoxicity - Microtox Data

**Product Information**

Do not allow material to contaminate ground water or sewage system

**Other information**

**13. DISPOSAL CONSIDERATIONS**

Waste from residues / unused products	<ul style="list-style-type: none"> <li>In accordance with local and national regulations</li> </ul>
Contaminated packaging	<ul style="list-style-type: none"> <li>Empty containers should be taken for local recycling, recovery or waste disposal</li> </ul>

**14. TRANSPORT INFORMATION**

**DOT**

UN-No UN3264 / Class 8  
 Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s  
 Packing group III

**IATA-DGR**

UN-No UN3264 / Class 8  
 Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s  
 Packing group III

**15. REGULATORY INFORMATION**

**U.S. INVENTORIES:**

CAS	Chemical Name	% Weight	CPCL*	NJRTK*	CERCLA/SARA*
7732-18-5	Water	~96.80	N/A	N/A	N/A
7697-37-2	Nitric Acid	~3	N/A	sn 1356	1000 lb final RQ; 454 kg final RQ
7664-39-3	Hydrogen fluoride	<0.1	N/A	sn 1014	100 lb final RQ; 45.4 kg final RQ
60676-86-0	Silica, fused	~0.2	N/A	sn 1656	N/A

- \* CPCL - California - Proposition 65 - Carcinogens List
- \* NJRTK - New Jersey - Department of Health RTK List
- \* CERCLA/SARA - Hazardous Substances and their Reportable Quantities

**INTERNATIONAL INVENTORIES:**

CAS	Chemical Name	% Weight	WHMIS*	EINECCS - European Union*
7732-18-5	Water	~96.80	Uncontrolled product according to WHMIS classification criteria	231-791-2
7697-37-2	Nitric Acid	~3	C, E (including 60%, 61.3%, 63%, 67%, 67.18%, 70%, 90%); E (10%)	231-714-2
7664-39-3	Hydrogen fluoride	<0.1	D1A, E; D1B (including 12%, 24%, 48-50%, 52%, 70%)	231-634-8
60676-86-0	Silica, fused	~0.2	Uncontrolled product according to WHMIS classification criteria	262-373-8

- \* WHMIS - Canada - WHMIS - Classifications of Substances
- \* EINECCS - European Union - European inventory of Existing Commercial Chemical Substances (EINECCS)

**16. OTHER INFORMATION**

The above information is believed to be accurate and represents the best information available to us. It has been compiled from the data presented in various technical publications and our experience and should only be used as a guide for handling this product. It is the user's responsibility to determine the

suitability of this information for their particular purposes. We assume that only qualified individuals, trained and familiar with procedures suitable to this product will handle this material. Inorganic Ventures, Inc. assumes no responsibility and shall not be held liable for any damage resulting from misuse of this product.

# Certification Summary

Client: Environmental Chemical Corp.  
Project/Site: RVAAP - ECC

TestAmerica Job ID: 240-17796-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAP	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAP	4	E871008
TestAmerica Pittsburgh	Illinois	NELAP	5	002602
TestAmerica Pittsburgh	Kansas	NELAP	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAP	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAP	1	203011
TestAmerica Pittsburgh	New Jersey	NELAP	2	PA005
TestAmerica Pittsburgh	New York	NELAP	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAP	3	02-00416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAP	8	STLP
TestAmerica Pittsburgh	Virginia	NELAP	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.



# **METALS**

COVER PAGE  
METALS

Lab Name: TestAmerica Pittsburgh

Job Number: 240-17796-2

SDG No.: \_\_\_\_\_

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
076SB-0023M-0001-SO	240-17796-1
076SS-0022M-0001-SO	240-17796-2
076SB-0024M-0001-SO	240-17796-3
076SB-0025M-0001-SO	240-17796-4
076SB-0026M-0001-SO	240-17796-5
076SB-0027M-0001-SO	240-17796-6
076SB-0028M-0001-SO	240-17796-7
076SB-0029M-0001-SO	240-17796-8
076SB-0053M-0001-SO	240-17796-9
076SS-0007M-0001-SO	240-17796-10
076SB-0054M-0001-SO	240-17796-11
076SB-0055M-0001-SO	240-17796-12
076SB-0056M-0001-SO	240-17796-13
076SB-0057M-0001-SO	240-17796-14
076SB-0058M-0001-SO	240-17796-15
076SB-0059M-0001-SO	240-17796-16
076SB-0060M-0001-SO	240-17796-22
076SB-0061M-0001-SO	240-17796-23
076SB-0062M-0001-SO	240-17796-24
076SB-0063M-0001-SO	240-17796-25
076SB-0064M-0001-SO	240-17796-26
076SB-0065M-0001-SO	240-17796-27
076SB-0066M-0001-SO	240-17796-28

Comments:

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0023M-0001-SO

Lab Sample ID: 240-17796-1

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 09:15

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7300	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	11	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	50	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.44	0.094	0.0094	0.0071	mg/Kg			1	6020/DOD
Calcium	950	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.14	0.094	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	18	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	7.3	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	12	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	22000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1500	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	590	0.47	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	21	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	16	0.094	0.028	0.011	mg/Kg		Q	1	6020/DOD
Lead	12	0.094	0.028	0.015	mg/Kg			1	6020/DOD
Antimony	0.11	0.19	0.094	0.043	mg/Kg	J		1	6020/DOD
Thallium	0.15	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	16	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	46	0.47	0.19	0.061	mg/Kg		Q	1	6020/DOD
Potassium	570	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.52	0.47	0.094	0.048	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SS-0022M-0001-SO

Lab Sample ID: 240-17796-2

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 12:25

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8400	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	51	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.51	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	4300	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.13	0.098	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	17	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	8.2	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	13	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	22000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2200	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	400	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	44	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.098	0.029	0.011	mg/Kg		Q	1	6020/DOD
Lead	13	0.098	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.10	0.20	0.098	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.14	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	16	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	40	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	800	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.56	0.49	0.098	0.050	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0024M-0001-SO

Lab Sample ID: 240-17796-3

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 10:20

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.020	0.093	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	5900	2.8	0.56	0.26	mg/Kg			1	6020/DOD
Arsenic	14	0.093	0.046	0.017	mg/Kg			1	6020/DOD
Barium	41	0.93	0.019	0.0099	mg/Kg		Q	1	6020/DOD
Beryllium	0.37	0.093	0.0093	0.0069	mg/Kg			1	6020/DOD
Calcium	890	9.3	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.14	0.093	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	13	0.19	0.037	0.021	mg/Kg			1	6020/DOD
Cobalt	7.2	0.046	0.0093	0.0022	mg/Kg		Q	1	6020/DOD
Copper	16	0.19	0.056	0.031	mg/Kg		Q	1	6020/DOD
Iron	22000	4.6	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1600	9.3	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	470	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	22	9.3	4.6	2.5	mg/Kg			1	6020/DOD
Nickel	18	0.093	0.028	0.010	mg/Kg		Q	1	6020/DOD
Lead	11	0.093	0.028	0.014	mg/Kg			1	6020/DOD
Antimony	0.11	0.19	0.093	0.043	mg/Kg	J		1	6020/DOD
Thallium	0.12	0.093	0.019	0.0094	mg/Kg			1	6020/DOD
Vanadium	12	0.093	0.056	0.028	mg/Kg			1	6020/DOD
Zinc	51	0.46	0.19	0.060	mg/Kg		Q	1	6020/DOD
Potassium	620	9.3	5.6	2.9	mg/Kg			1	6020/DOD
Selenium	0.43	0.46	0.093	0.047	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0025M-0001-SO

Lab Sample ID: 240-17796-4

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 09:00

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.019	0.091	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	6600	2.7	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	12	0.091	0.045	0.016	mg/Kg			1	6020/DOD
Barium	41	0.91	0.018	0.0097	mg/Kg		Q	1	6020/DOD
Beryllium	0.35	0.091	0.0091	0.0068	mg/Kg			1	6020/DOD
Calcium	1100	9.1	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.17	0.091	0.027	0.012	mg/Kg		Q	1	6020/DOD
Chromium	17	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	7.0	0.045	0.0091	0.0022	mg/Kg		Q	1	6020/DOD
Copper	17	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	21000	4.5	1.8	0.98	mg/Kg			1	6020/DOD
Magnesium	1800	9.1	1.8	0.98	mg/Kg			1	6020/DOD
Manganese	300	0.45	0.027	0.014	mg/Kg		Q	1	6020/DOD
Sodium	26	9.1	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	19	0.091	0.027	0.010	mg/Kg		Q	1	6020/DOD
Lead	11	0.091	0.027	0.014	mg/Kg			1	6020/DOD
Antimony	0.092	0.18	0.091	0.042	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.091	0.018	0.0093	mg/Kg			1	6020/DOD
Vanadium	13	0.091	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	50	0.45	0.18	0.059	mg/Kg		Q	1	6020/DOD
Potassium	620	9.1	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.39	0.45	0.091	0.046	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0026M-0001-SO

Lab Sample ID: 240-17796-5

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 09:20

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.022	0.073	0.022	0.0083	mg/Kg	J		1	6020/DOD
Aluminum	6300	2.2	0.44	0.21	mg/Kg			1	6020/DOD
Arsenic	13	0.073	0.036	0.013	mg/Kg			1	6020/DOD
Barium	37	0.73	0.015	0.0078	mg/Kg		Q	1	6020/DOD
Beryllium	0.39	0.073	0.0073	0.0055	mg/Kg			1	6020/DOD
Calcium	700	7.3	1.8	0.97	mg/Kg			1	6020/DOD
Cadmium	0.15	0.073	0.022	0.0096	mg/Kg		Q	1	6020/DOD
Chromium	16	0.15	0.029	0.016	mg/Kg			1	6020/DOD
Cobalt	8.5	0.036	0.0073	0.0018	mg/Kg		Q	1	6020/DOD
Copper	15	0.15	0.044	0.024	mg/Kg		Q	1	6020/DOD
Iron	21000	3.6	1.5	0.79	mg/Kg			1	6020/DOD
Magnesium	1700	7.3	1.5	0.79	mg/Kg			1	6020/DOD
Manganese	450	0.36	0.022	0.012	mg/Kg		Q	1	6020/DOD
Sodium	20	7.3	3.6	1.9	mg/Kg			1	6020/DOD
Nickel	18	0.073	0.022	0.0082	mg/Kg		Q	1	6020/DOD
Lead	13	0.073	0.022	0.011	mg/Kg			1	6020/DOD
Antimony	0.095	0.15	0.073	0.034	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.073	0.015	0.0074	mg/Kg			1	6020/DOD
Vanadium	13	0.073	0.044	0.022	mg/Kg			1	6020/DOD
Zinc	49	0.36	0.15	0.047	mg/Kg		Q	1	6020/DOD
Potassium	620	7.3	4.4	2.3	mg/Kg			1	6020/DOD
Selenium	0.41	0.36	0.073	0.037	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0027M-0001-SO

Lab Sample ID: 240-17796-6

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 09:40

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.037	0.087	0.026	0.0099	mg/Kg	J		1	6020/DOD
Aluminum	7200	2.6	0.52	0.25	mg/Kg			1	6020/DOD
Arsenic	16	0.087	0.043	0.016	mg/Kg			1	6020/DOD
Barium	62	0.87	0.017	0.0093	mg/Kg		Q	1	6020/DOD
Beryllium	0.47	0.087	0.0087	0.0065	mg/Kg			1	6020/DOD
Calcium	980	8.7	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.16	0.087	0.026	0.011	mg/Kg		Q	1	6020/DOD
Chromium	16	0.17	0.035	0.019	mg/Kg			1	6020/DOD
Cobalt	8.6	0.043	0.0087	0.0021	mg/Kg		Q	1	6020/DOD
Copper	11	0.17	0.052	0.029	mg/Kg		Q	1	6020/DOD
Iron	20000	4.3	1.7	0.94	mg/Kg			1	6020/DOD
Magnesium	1300	8.7	1.7	0.94	mg/Kg			1	6020/DOD
Manganese	930	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	17	8.7	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	18	0.087	0.026	0.0098	mg/Kg		Q	1	6020/DOD
Lead	16	0.087	0.026	0.013	mg/Kg			1	6020/DOD
Antimony	0.29	0.17	0.087	0.040	mg/Kg			1	6020/DOD
Thallium	0.12	0.087	0.017	0.0089	mg/Kg			1	6020/DOD
Vanadium	14	0.087	0.052	0.026	mg/Kg			1	6020/DOD
Zinc	45	0.43	0.17	0.056	mg/Kg		Q	1	6020/DOD
Potassium	560	8.7	5.2	2.7	mg/Kg			1	6020/DOD
Selenium	0.46	0.43	0.087	0.044	mg/Kg			1	6020/DOD



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0028M-0001-SO

Lab Sample ID: 240-17796-7

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 10:00

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.013	0.076	0.023	0.0087	mg/Kg	J		1	6020/DOD
Aluminum	6100	2.3	0.46	0.22	mg/Kg			1	6020/DOD
Arsenic	13	0.076	0.038	0.014	mg/Kg			1	6020/DOD
Barium	37	0.76	0.015	0.0082	mg/Kg		Q	1	6020/DOD
Beryllium	0.34	0.076	0.0076	0.0057	mg/Kg			1	6020/DOD
Calcium	630	7.6	1.9	1.0	mg/Kg			1	6020/DOD
Cadmium	0.13	0.076	0.023	0.010	mg/Kg		Q	1	6020/DOD
Chromium	12	0.15	0.031	0.017	mg/Kg			1	6020/DOD
Cobalt	7.8	0.038	0.0076	0.0018	mg/Kg		Q	1	6020/DOD
Copper	15	0.15	0.046	0.025	mg/Kg		Q	1	6020/DOD
Iron	20000	3.8	1.5	0.82	mg/Kg			1	6020/DOD
Magnesium	1600	7.6	1.5	0.82	mg/Kg			1	6020/DOD
Manganese	380	0.38	0.023	0.012	mg/Kg		Q	1	6020/DOD
Sodium	17	7.6	3.8	2.0	mg/Kg			1	6020/DOD
Nickel	15	0.076	0.023	0.0086	mg/Kg		Q	1	6020/DOD
Lead	11	0.076	0.023	0.012	mg/Kg			1	6020/DOD
Antimony	0.090	0.15	0.076	0.035	mg/Kg	J		1	6020/DOD
Thallium	0.099	0.076	0.015	0.0078	mg/Kg			1	6020/DOD
Vanadium	13	0.076	0.046	0.023	mg/Kg			1	6020/DOD
Zinc	46	0.38	0.15	0.049	mg/Kg		Q	1	6020/DOD
Potassium	580	7.6	4.6	2.4	mg/Kg			1	6020/DOD
Selenium	0.51	0.38	0.076	0.039	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0029M-0001-SO

Lab Sample ID: 240-17796-8

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 12:25

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.024	0.085	0.026	0.0097	mg/Kg	J		1	6020/DOD
Aluminum	6000	2.6	0.51	0.24	mg/Kg			1	6020/DOD
Arsenic	11	0.085	0.043	0.015	mg/Kg			1	6020/DOD
Barium	48	0.85	0.017	0.0091	mg/Kg		Q	1	6020/DOD
Beryllium	0.47	0.085	0.0085	0.0064	mg/Kg			1	6020/DOD
Calcium	1600	8.5	2.1	1.1	mg/Kg			1	6020/DOD
Cadmium	0.17	0.085	0.026	0.011	mg/Kg		Q	1	6020/DOD
Chromium	18	0.17	0.034	0.019	mg/Kg			1	6020/DOD
Cobalt	7.2	0.043	0.0085	0.0021	mg/Kg		Q	1	6020/DOD
Copper	13	0.17	0.051	0.028	mg/Kg		Q	1	6020/DOD
Iron	24000	4.3	1.7	0.92	mg/Kg			1	6020/DOD
Magnesium	1400	8.5	1.7	0.92	mg/Kg			1	6020/DOD
Manganese	710	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	27	8.5	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	17	0.085	0.026	0.0097	mg/Kg		Q	1	6020/DOD
Lead	16	0.085	0.026	0.013	mg/Kg			1	6020/DOD
Antimony	0.11	0.17	0.085	0.039	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.085	0.017	0.0087	mg/Kg			1	6020/DOD
Vanadium	14	0.085	0.051	0.026	mg/Kg			1	6020/DOD
Zinc	50	0.43	0.17	0.055	mg/Kg		Q	1	6020/DOD
Potassium	500	8.5	5.1	2.7	mg/Kg			1	6020/DOD
Selenium	0.43	0.43	0.085	0.044	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0053M-0001-SO

Lab Sample ID: 240-17796-9

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 15:55

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.024	0.081	0.024	0.0092	mg/Kg	J		1	6020/DOD
Aluminum	7700	2.4	0.48	0.23	mg/Kg			1	6020/DOD
Arsenic	12	0.081	0.040	0.015	mg/Kg			1	6020/DOD
Barium	36	0.81	0.016	0.0086	mg/Kg		Q	1	6020/DOD
Beryllium	0.39	0.081	0.0081	0.0060	mg/Kg			1	6020/DOD
Calcium	1700	8.1	2.0	1.1	mg/Kg			1	6020/DOD
Cadmium	0.15	0.081	0.024	0.011	mg/Kg		Q	1	6020/DOD
Chromium	17	0.16	0.032	0.018	mg/Kg			1	6020/DOD
Cobalt	7.3	0.040	0.0081	0.0019	mg/Kg		Q	1	6020/DOD
Copper	15	0.16	0.048	0.027	mg/Kg		Q	1	6020/DOD
Iron	20000	4.0	1.6	0.87	mg/Kg			1	6020/DOD
Magnesium	2300	8.1	1.6	0.87	mg/Kg			1	6020/DOD
Manganese	270	0.40	0.024	0.013	mg/Kg		Q	1	6020/DOD
Sodium	32	8.1	4.0	2.1	mg/Kg			1	6020/DOD
Nickel	20	0.081	0.024	0.0091	mg/Kg		Q	1	6020/DOD
Lead	11	0.081	0.024	0.012	mg/Kg			1	6020/DOD
Antimony	0.064	0.16	0.081	0.037	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.081	0.016	0.0082	mg/Kg			1	6020/DOD
Vanadium	14	0.081	0.048	0.024	mg/Kg			1	6020/DOD
Zinc	45	0.40	0.16	0.052	mg/Kg		Q	1	6020/DOD
Potassium	750	8.1	4.8	2.5	mg/Kg			1	6020/DOD
Selenium	0.32	0.40	0.081	0.041	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SS-0007M-0001-SO

Lab Sample ID: 240-17796-10

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 15:45

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.22	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Aluminum	7800	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	9.2	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	52	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.41	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	2400	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.29	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	18	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	6.1	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	14	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	19000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1600	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	290	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	25	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	16	0.097	0.029	0.011	mg/Kg		Q	1	6020/DOD
Lead	20	0.097	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.12	0.19	0.097	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.12	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	16	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	52	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	600	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.50	0.49	0.097	0.049	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0054M-0001-SO

Lab Sample ID: 240-17796-11

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 15:55

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.072	0.022	0.0082	mg/Kg	J		1	6020/DOD
Aluminum	6700	2.2	0.43	0.20	mg/Kg			1	6020/DOD
Arsenic	14	0.072	0.036	0.013	mg/Kg			1	6020/DOD
Barium	30	0.72	0.014	0.0077	mg/Kg		Q	1	6020/DOD
Beryllium	0.38	0.072	0.0072	0.0054	mg/Kg			1	6020/DOD
Calcium	5000	7.2	1.8	0.95	mg/Kg			1	6020/DOD
Cadmium	0.15	0.072	0.022	0.0095	mg/Kg		Q	1	6020/DOD
Chromium	15	0.14	0.029	0.016	mg/Kg			1	6020/DOD
Cobalt	8.6	0.036	0.0072	0.0017	mg/Kg		Q	1	6020/DOD
Copper	17	0.14	0.043	0.024	mg/Kg		Q	1	6020/DOD
Iron	22000	3.6	1.4	0.77	mg/Kg			1	6020/DOD
Magnesium	3400	7.2	1.4	0.78	mg/Kg			1	6020/DOD
Manganese	360	0.36	0.022	0.011	mg/Kg		Q	1	6020/DOD
Sodium	40	7.2	3.6	1.9	mg/Kg			1	6020/DOD
Nickel	22	0.072	0.022	0.0081	mg/Kg		Q	1	6020/DOD
Lead	9.8	0.072	0.022	0.011	mg/Kg			1	6020/DOD
Antimony	0.058	0.14	0.072	0.033	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.072	0.014	0.0073	mg/Kg			1	6020/DOD
Vanadium	12	0.072	0.043	0.022	mg/Kg			1	6020/DOD
Zinc	50	0.36	0.14	0.047	mg/Kg		Q	1	6020/DOD
Potassium	890	7.2	4.3	2.3	mg/Kg			1	6020/DOD
Selenium	0.46	0.36	0.072	0.037	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0055M-0001-SO

Lab Sample ID: 240-17796-12

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 13:45

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.088	0.026	0.010	mg/Kg	J		1	6020/DOD
Aluminum	7200	2.6	0.53	0.25	mg/Kg			1	6020/DOD
Arsenic	15	0.088	0.044	0.016	mg/Kg			1	6020/DOD
Barium	29	0.88	0.018	0.0094	mg/Kg		Q	1	6020/DOD
Beryllium	0.41	0.088	0.0088	0.0066	mg/Kg			1	6020/DOD
Calcium	5800	8.8	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.15	0.088	0.026	0.012	mg/Kg		Q	1	6020/DOD
Chromium	13	0.18	0.035	0.020	mg/Kg			1	6020/DOD
Cobalt	9.4	0.044	0.0088	0.0021	mg/Kg		Q	1	6020/DOD
Copper	16	0.18	0.053	0.029	mg/Kg		Q	1	6020/DOD
Iron	23000	4.4	1.8	0.94	mg/Kg			1	6020/DOD
Magnesium	3800	8.8	1.8	0.95	mg/Kg			1	6020/DOD
Manganese	350	0.44	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	42	8.8	4.4	2.3	mg/Kg			1	6020/DOD
Nickel	22	0.088	0.026	0.0099	mg/Kg		Q	1	6020/DOD
Lead	9.7	0.088	0.026	0.014	mg/Kg			1	6020/DOD
Antimony	0.053	0.18	0.088	0.040	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.088	0.018	0.0089	mg/Kg			1	6020/DOD
Vanadium	12	0.088	0.053	0.026	mg/Kg			1	6020/DOD
Zinc	47	0.44	0.18	0.057	mg/Kg		Q	1	6020/DOD
Potassium	940	8.8	5.3	2.8	mg/Kg			1	6020/DOD
Selenium	0.38	0.44	0.088	0.045	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0056M-0001-SO

Lab Sample ID: 240-17796-13

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 14:10

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.023	0.070	0.021	0.0080	mg/Kg	J		1	6020/DOD
Aluminum	7300	2.1	0.42	0.20	mg/Kg			1	6020/DOD
Arsenic	12	0.070	0.035	0.013	mg/Kg			1	6020/DOD
Barium	34	0.70	0.014	0.0075	mg/Kg		Q	1	6020/DOD
Beryllium	0.37	0.070	0.0070	0.0052	mg/Kg			1	6020/DOD
Calcium	2500	7.0	1.7	0.93	mg/Kg			1	6020/DOD
Cadmium	0.17	0.070	0.021	0.0092	mg/Kg		Q	1	6020/DOD
Chromium	23	0.14	0.028	0.016	mg/Kg			1	6020/DOD
Cobalt	7.5	0.035	0.0070	0.0017	mg/Kg		Q	1	6020/DOD
Copper	19	0.14	0.042	0.023	mg/Kg		Q	1	6020/DOD
Iron	21000	3.5	1.4	0.75	mg/Kg			1	6020/DOD
Magnesium	2500	7.0	1.4	0.75	mg/Kg			1	6020/DOD
Manganese	330	0.35	0.021	0.011	mg/Kg		Q	1	6020/DOD
Sodium	33	7.0	3.5	1.9	mg/Kg			1	6020/DOD
Nickel	23	0.070	0.021	0.0079	mg/Kg		Q	1	6020/DOD
Lead	10	0.070	0.021	0.011	mg/Kg			1	6020/DOD
Antimony	0.065	0.14	0.070	0.032	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.070	0.014	0.0071	mg/Kg			1	6020/DOD
Vanadium	13	0.070	0.042	0.021	mg/Kg			1	6020/DOD
Zinc	49	0.35	0.14	0.045	mg/Kg		Q	1	6020/DOD
Potassium	780	7.0	4.2	2.2	mg/Kg			1	6020/DOD
Selenium	0.46	0.35	0.070	0.036	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0057M-0001-SO

Lab Sample ID: 240-17796-14

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 14:40

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8500	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	15	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	37	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.46	0.098	0.0098	0.0074	mg/Kg			1	6020/DOD
Calcium	4000	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.13	0.098	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	19	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	8.5	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	23000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	3200	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	330	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	47	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	23	0.098	0.029	0.011	mg/Kg		Q	1	6020/DOD
Lead	11	0.098	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.063	0.20	0.098	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.12	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	14	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	62	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1200	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.38	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0058M-0001-SO

Lab Sample ID: 240-17796-15

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 15:30

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.022	0.088	0.026	0.010	mg/Kg	J		1	6020/DOD
Aluminum	8000	2.6	0.53	0.25	mg/Kg			1	6020/DOD
Arsenic	16	0.088	0.044	0.016	mg/Kg			1	6020/DOD
Barium	32	0.88	0.018	0.0094	mg/Kg		Q	1	6020/DOD
Beryllium	0.47	0.088	0.0088	0.0066	mg/Kg			1	6020/DOD
Calcium	4100	8.8	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.15	0.088	0.026	0.012	mg/Kg		Q	1	6020/DOD
Chromium	15	0.18	0.035	0.020	mg/Kg			1	6020/DOD
Cobalt	9.1	0.044	0.0088	0.0021	mg/Kg		Q	1	6020/DOD
Copper	16	0.18	0.053	0.029	mg/Kg		Q	1	6020/DOD
Iron	23000	4.4	1.8	0.94	mg/Kg			1	6020/DOD
Magnesium	3700	8.8	1.8	0.95	mg/Kg			1	6020/DOD
Manganese	350	0.44	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	43	8.8	4.4	2.3	mg/Kg			1	6020/DOD
Nickel	23	0.088	0.026	0.0099	mg/Kg		Q	1	6020/DOD
Lead	9.4	0.088	0.026	0.014	mg/Kg			1	6020/DOD
Antimony	0.050	0.18	0.088	0.040	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.088	0.018	0.0089	mg/Kg			1	6020/DOD
Vanadium	13	0.088	0.053	0.026	mg/Kg			1	6020/DOD
Zinc	58	0.44	0.18	0.057	mg/Kg		Q	1	6020/DOD
Potassium	1100	8.8	5.3	2.8	mg/Kg			1	6020/DOD
Selenium	0.36	0.44	0.088	0.045	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0059M-0001-SO

Lab Sample ID: 240-17796-16

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 16:00

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	6600	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	12	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	31	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.37	0.094	0.0094	0.0071	mg/Kg			1	6020/DOD
Calcium	2200	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.15	0.094	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	13	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	7.6	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	15	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	20000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2600	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	300	0.47	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	37	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	19	0.094	0.028	0.011	mg/Kg		Q	1	6020/DOD
Lead	10	0.094	0.028	0.015	mg/Kg			1	6020/DOD
Antimony	0.053	0.19	0.094	0.043	mg/Kg	J		1	6020/DOD
Thallium	0.10	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	12	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	46	0.47	0.19	0.061	mg/Kg		Q	1	6020/DOD
Potassium	920	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.41	0.47	0.094	0.048	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0060M-0001-SO

Lab Sample ID: 240-17796-22

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:35

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.028	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	6800	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	6.7	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	52	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.60	0.096	0.0096	0.0072	mg/Kg			1	6020/DOD
Calcium	14000	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	13	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	4.2	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	8.7	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	14000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2400	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	650	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	78	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	10	0.096	0.029	0.011	mg/Kg		Q	1	6020/DOD
Lead	14	0.096	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.18	0.19	0.096	0.044	mg/Kg	J		1	6020/DOD
Thallium	0.072	0.096	0.019	0.0098	mg/Kg	J		1	6020/DOD
Vanadium	11	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	33	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	810	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.55	0.48	0.096	0.049	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0061M-0001-SO

Lab Sample ID: 240-17796-23

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:35

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.092	0.028	0.010	mg/Kg	J		1	6020/DOD
Aluminum	7900	2.8	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	14	0.092	0.046	0.017	mg/Kg			1	6020/DOD
Barium	53	0.92	0.018	0.0098	mg/Kg		Q	1	6020/DOD
Beryllium	0.46	0.092	0.0092	0.0069	mg/Kg			1	6020/DOD
Calcium	1600	9.2	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.17	0.092	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	16	0.18	0.037	0.020	mg/Kg			1	6020/DOD
Cobalt	8.6	0.046	0.0092	0.0022	mg/Kg		Q	1	6020/DOD
Copper	16	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	22000	4.6	1.8	0.99	mg/Kg			1	6020/DOD
Magnesium	2400	9.2	1.8	0.99	mg/Kg			1	6020/DOD
Manganese	350	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	37	9.2	4.6	2.4	mg/Kg			1	6020/DOD
Nickel	22	0.092	0.028	0.010	mg/Kg		Q	1	6020/DOD
Lead	11	0.092	0.028	0.014	mg/Kg			1	6020/DOD
Antimony	0.072	0.18	0.092	0.042	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.092	0.018	0.0094	mg/Kg			1	6020/DOD
Vanadium	14	0.092	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	53	0.46	0.18	0.059	mg/Kg		Q	1	6020/DOD
Potassium	1100	9.2	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.40	0.46	0.092	0.047	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0062M-0001-SO

Lab Sample ID: 240-17796-24

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:05

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.052	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7300	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	10	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	63	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.46	0.097	0.0097	0.0073	mg/Kg			1	6020/DOD
Calcium	4000	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.24	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	16	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	6.0	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	14	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	19000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2300	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	410	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	36	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	18	0.097	0.029	0.011	mg/Kg		Q	1	6020/DOD
Lead	9.5	0.097	0.029	0.015	mg/Kg			1	6020/DOD
Antimony	0.058	0.19	0.097	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.087	0.097	0.019	0.0099	mg/Kg	J		1	6020/DOD
Vanadium	13	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	42	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	1100	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.43	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0063M-0001-SO

Lab Sample ID: 240-17796-25

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:15

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.078	0.023	0.0088	mg/Kg	J		1	6020/DOD
Aluminum	7700	2.3	0.47	0.22	mg/Kg			1	6020/DOD
Arsenic	11	0.078	0.039	0.014	mg/Kg			1	6020/DOD
Barium	42	0.78	0.016	0.0083	mg/Kg		Q	1	6020/DOD
Beryllium	0.38	0.078	0.0078	0.0058	mg/Kg			1	6020/DOD
Calcium	1300	7.8	1.9	1.0	mg/Kg			1	6020/DOD
Cadmium	0.16	0.078	0.023	0.010	mg/Kg		Q	1	6020/DOD
Chromium	14	0.16	0.031	0.017	mg/Kg			1	6020/DOD
Cobalt	7.5	0.039	0.0078	0.0019	mg/Kg		Q	1	6020/DOD
Copper	13	0.16	0.047	0.026	mg/Kg		Q	1	6020/DOD
Iron	19000	3.9	1.6	0.83	mg/Kg			1	6020/DOD
Magnesium	2000	7.8	1.6	0.84	mg/Kg			1	6020/DOD
Manganese	250	0.39	0.023	0.012	mg/Kg		Q	1	6020/DOD
Sodium	44	7.8	3.9	2.1	mg/Kg			1	6020/DOD
Nickel	17	0.078	0.023	0.0088	mg/Kg		Q	1	6020/DOD
Lead	13	0.078	0.023	0.012	mg/Kg			1	6020/DOD
Antimony	0.13	0.16	0.078	0.036	mg/Kg	J		1	6020/DOD
Thallium	0.094	0.078	0.016	0.0079	mg/Kg			1	6020/DOD
Vanadium	14	0.078	0.047	0.023	mg/Kg			1	6020/DOD
Zinc	44	0.39	0.16	0.050	mg/Kg		Q	1	6020/DOD
Potassium	1200	7.8	4.7	2.4	mg/Kg			1	6020/DOD
Selenium	0.47	0.39	0.078	0.039	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0064M-0001-SO

Lab Sample ID: 240-17796-26

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:25

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.092	0.028	0.010	mg/Kg	J		1	6020/DOD
Aluminum	6600	2.8	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	15	0.092	0.046	0.017	mg/Kg			1	6020/DOD
Barium	43	0.92	0.018	0.0098	mg/Kg		Q	1	6020/DOD
Beryllium	0.43	0.092	0.0092	0.0069	mg/Kg			1	6020/DOD
Calcium	3700	9.2	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.19	0.092	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	18	0.18	0.037	0.020	mg/Kg			1	6020/DOD
Cobalt	8.1	0.046	0.0092	0.0022	mg/Kg		Q	1	6020/DOD
Copper	17	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	22000	4.6	1.8	0.99	mg/Kg			1	6020/DOD
Magnesium	2100	9.2	1.8	0.99	mg/Kg			1	6020/DOD
Manganese	330	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	29	9.2	4.6	2.4	mg/Kg			1	6020/DOD
Nickel	21	0.092	0.028	0.010	mg/Kg		Q	1	6020/DOD
Lead	14	0.092	0.028	0.014	mg/Kg			1	6020/DOD
Antimony	0.12	0.18	0.092	0.042	mg/Kg	J		1	6020/DOD
Thallium	0.15	0.092	0.018	0.0094	mg/Kg			1	6020/DOD
Vanadium	12	0.092	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	54	0.46	0.18	0.059	mg/Kg		Q	1	6020/DOD
Potassium	810	9.2	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.61	0.46	0.092	0.047	mg/Kg			1	6020/DOD

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0065M-0001-SO

Lab Sample ID: 240-17796-27

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 17:40

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.074	0.022	0.0084	mg/Kg	J		1	6020/DOD
Aluminum	8000	2.2	0.44	0.21	mg/Kg			1	6020/DOD
Arsenic	16	0.074	0.037	0.013	mg/Kg			1	6020/DOD
Barium	69	0.74	0.015	0.0079	mg/Kg		Q	1	6020/DOD
Beryllium	0.59	0.074	0.0074	0.0055	mg/Kg			1	6020/DOD
Calcium	7100	7.4	1.8	0.98	mg/Kg			1	6020/DOD
Cadmium	0.21	0.074	0.022	0.0097	mg/Kg		Q	1	6020/DOD
Chromium	18	0.15	0.029	0.016	mg/Kg			1	6020/DOD
Cobalt	7.5	0.037	0.0074	0.0018	mg/Kg		Q	1	6020/DOD
Copper	21	0.15	0.044	0.024	mg/Kg		Q	1	6020/DOD
Iron	19000	3.7	1.5	0.79	mg/Kg			1	6020/DOD
Magnesium	2500	7.4	1.5	0.79	mg/Kg			1	6020/DOD
Manganese	500	0.37	0.022	0.012	mg/Kg		Q	1	6020/DOD
Sodium	48	7.4	3.7	2.0	mg/Kg			1	6020/DOD
Nickel	20	0.074	0.022	0.0083	mg/Kg		Q	1	6020/DOD
Lead	13	0.074	0.022	0.011	mg/Kg			1	6020/DOD
Antimony	0.18	0.15	0.074	0.034	mg/Kg			1	6020/DOD
Thallium	0.12	0.074	0.015	0.0075	mg/Kg			1	6020/DOD
Vanadium	15	0.074	0.044	0.022	mg/Kg			1	6020/DOD
Zinc	50	0.37	0.15	0.048	mg/Kg		Q	1	6020/DOD
Potassium	870	7.4	4.4	2.3	mg/Kg			1	6020/DOD
Selenium	0.64	0.37	0.074	0.037	mg/Kg			1	6020/DOD



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 076SB-0066M-0001-SO

Lab Sample ID: 240-17796-28

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/15/2012 16:50

Reporting Basis: WET

Date Received: 11/16/2012 18:42

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.087	0.026	0.0099	mg/Kg	J		1	6020/DOD
Aluminum	8600	2.6	0.52	0.25	mg/Kg			1	6020/DOD
Arsenic	12	0.087	0.043	0.016	mg/Kg			1	6020/DOD
Barium	69	0.87	0.017	0.0093	mg/Kg		Q	1	6020/DOD
Beryllium	0.61	0.087	0.0087	0.0065	mg/Kg			1	6020/DOD
Calcium	7300	8.7	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.20	0.087	0.026	0.011	mg/Kg		Q	1	6020/DOD
Chromium	17	0.17	0.035	0.019	mg/Kg			1	6020/DOD
Cobalt	7.8	0.043	0.0087	0.0021	mg/Kg		Q	1	6020/DOD
Copper	14	0.17	0.052	0.029	mg/Kg		Q	1	6020/DOD
Iron	20000	4.3	1.7	0.94	mg/Kg			1	6020/DOD
Magnesium	2700	8.7	1.7	0.94	mg/Kg			1	6020/DOD
Manganese	560	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	55	8.7	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	18	0.087	0.026	0.0098	mg/Kg		Q	1	6020/DOD
Lead	26	0.087	0.026	0.013	mg/Kg			1	6020/DOD
Antimony	0.11	0.17	0.087	0.040	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.087	0.017	0.0089	mg/Kg			1	6020/DOD
Vanadium	16	0.087	0.052	0.026	mg/Kg			1	6020/DOD
Zinc	55	0.43	0.17	0.056	mg/Kg		Q	1	6020/DOD
Potassium	790	8.7	5.2	2.7	mg/Kg			1	6020/DOD
Selenium	0.61	0.43	0.087	0.044	mg/Kg			1	6020/DOD

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICV Source: MICPMSICV\_00012 Concentration Units: ug/L

CCV Source: MCCV1X\_00031

Analyte	ICV 180-59262/5 12/22/2012 18:10				CCV 180-59262/10 12/22/2012 18:40				CCV 180-59262/34 12/22/2012 20:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Aluminum</b>	383		400	96	482		500	96	468		500	94
<b>Antimony</b>	79.9		80.0	100	97.3		100	97	94.6		100	95
<b>Arsenic</b>	80.9		80.0	101	95.9		100	96	97.7		100	98
<b>Barium</b>	79.6		80.0	100	94.6		100	95	94.2		100	94
<b>Beryllium</b>	78.1		80.0	98	100		100	100	97.9		100	98
<b>Cadmium</b>	81.9		80.0	102	100		100	100	97.0		100	97
<b>Calcium</b>	39300		40000	98	48700		50000	97	50200		50000	100
<b>Chromium</b>	80.1		80.0	100	98.7		100	99	97.8		100	98
<b>Cobalt</b>	79.7		80.0	100	97.4		100	97	97.0		100	97
<b>Copper</b>	80.6		80.0	101	96.5		100	96	96.9		100	97
<b>Iron</b>	19800		20000	99	25500		25000	102	25800		25000	103
<b>Lead</b>	78.5		80.0	98	96.2		100	96	95.2		100	95
<b>Magnesium</b>	38500		40000	96	47400		50000	95	47000		50000	94
<b>Manganese</b>	398		400	99	510		500	102	515		500	103
<b>Nickel</b>	80.1		80.0	100	96.3		100	96	96.7		100	97
<b>Potassium</b>	39800		40000	99	47300		50000	95	49100		50000	98
<b>Selenium</b>	82.8		80.0	103	99.4		100	99	101		100	101
<b>Silver</b>	80.9		80.0	101	97.0		100	97	94.0		100	94
<b>Sodium</b>	39100		40000	98	49600		50000	99	48700		50000	97
<b>Thallium</b>	81.2		80.0	101	95.6		100	96	94.9		100	95
<b>Vanadium</b>	78.2		80.0	98	97.8		100	98	97.5		100	97
<b>Zinc</b>	85.8		80.0	107	103		100	103	101		100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICV Source: MICPMSICV\_00012 Concentration Units: ug/L

CCV Source: MCCV1X\_00031

Analyte	CCV 180-59262/46 12/22/2012 21:47				CCV 180-59262/58 12/22/2012 22:48				CCV 180-59262/70 12/22/2012 23:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Aluminum</b>	464		500	93	465		500	93	468		500	94
<b>Antimony</b>	97.6		100	98	96.5		100	97	96.6		100	97
<b>Arsenic</b>	98.3		100	98	96.2		100	96	97.9		100	98
<b>Barium</b>	96.3		100	96	94.1		100	94	95.7		100	96
<b>Beryllium</b>	99.9		100	100	99.7		100	100	103		100	103
<b>Cadmium</b>	100		100	100	98.8		100	99	98.4		100	98
<b>Calcium</b>	49400		50000	99	49600		50000	99	50500		50000	101
<b>Chromium</b>	95.9		100	96	96.0		100	96	96.8		100	97
<b>Cobalt</b>	95.0		100	95	94.7		100	95	95.9		100	96
<b>Copper</b>	95.5		100	96	94.3		100	94	95.5		100	95
<b>Iron</b>	25600		25000	102	25700		25000	103	25900		25000	104
<b>Lead</b>	96.8		100	97	94.8		100	95	95.5		100	96
<b>Magnesium</b>	46700		50000	93	46000		50000	92	46400		50000	93
<b>Manganese</b>	511		500	102	515		500	103	521		500	104
<b>Nickel</b>	94.2		100	94	94.1		100	94	95.7		100	96
<b>Potassium</b>	48100		50000	96	47800		50000	96	48900		50000	98
<b>Selenium</b>	103		100	103	101		100	101	102		100	102
<b>Silver</b>	96.9		100	97	95.5		100	95	94.6		100	95
<b>Sodium</b>	48400		50000	97	47500		50000	95	47700		50000	95
<b>Thallium</b>	96.6		100	97	94.6		100	95	95.6		100	96
<b>Vanadium</b>	96.1		100	96	96.0		100	96	97.5		100	98
<b>Zinc</b>	100		100	100	100		100	100	101		100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICV Source: MICPMSICV\_00012 Concentration Units: ug/L

CCV Source: MCCV1X\_00031

Analyte	CCV 180-59262/82 12/23/2012 00:47				CCV 180-59262/93 12/23/2012 01:41				CCV 180-59262/96 12/23/2012 02:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Aluminum</b>	464		500	93	464		500	93	460		500	92
<b>Antimony</b>	98.1		100	98	96.5		100	97	98.0		100	98
<b>Arsenic</b>	96.0		100	96	96.3		100	96	95.5		100	95
<b>Barium</b>	97.3		100	97	95.6		100	96	97.1		100	97
<b>Beryllium</b>	103		100	103	103		100	103	103		100	103
<b>Cadmium</b>	98.9		100	99	99.1		100	99	99.1		100	99
<b>Calcium</b>	50200		50000	100	50600		50000	101	50500		50000	101
<b>Chromium</b>	97.0		100	97	97.8		100	98	96.3		100	96
<b>Cobalt</b>	94.7		100	95	95.7		100	96	94.9		100	95
<b>Copper</b>	94.1		100	94	95.4		100	95	94.2		100	94
<b>Iron</b>	25700		25000	103	25800		25000	103	25900		25000	103
<b>Lead</b>	94.2		100	94	93.5		100	93	91.8		100	92
<b>Magnesium</b>	45900		50000	92	45400		50000	91	45700		50000	91
<b>Manganese</b>	516		500	103	522		500	104	514		500	103
<b>Nickel</b>	94.2		100	94	94.5		100	94	93.4		100	93
<b>Potassium</b>	48500		50000	97	48600		50000	97	49000		50000	98
<b>Selenium</b>	99.4		100	99	100		100	100	101		100	101
<b>Silver</b>	95.1		100	95	95.0		100	95	95.0		100	95
<b>Sodium</b>	47700		50000	95	46900		50000	94	48100		50000	96
<b>Thallium</b>	94.2		100	94	93.6		100	94	91.6		100	92
<b>Vanadium</b>	97.9		100	98	97.2		100	97	97.4		100	97
<b>Zinc</b>	99.4		100	99	100		100	100	98.9		100	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICV Source: MICPMSICV\_00012 Concentration Units: ug/L

CCV Source: MCCV1X\_00031

Analyte	ICV 180-59320/5 12/23/2012 18:29				CCV 180-59320/10 12/23/2012 18:57				CCV 180-59320/22 12/23/2012 20:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Aluminum</b>	380		400	95	498		500	100	487		500	97
<b>Antimony</b>	79.7		80.0	100	95.3		100	95	96.9		100	97
<b>Arsenic</b>	80.2		80.0	100	98.1		100	98	95.5		100	95
<b>Barium</b>	78.3		80.0	98	91.4		100	91	95.2		100	95
<b>Beryllium</b>	77.1		80.0	96	97.9		100	98	98.3		100	98
<b>Cadmium</b>	80.1		80.0	100	97.4		100	97	97.1		100	97
<b>Calcium</b>	38600		40000	97	49300		50000	99	48500		50000	97
<b>Chromium</b>	78.3		80.0	98	100		100	100	95.7		100	96
<b>Cobalt</b>	77.6		80.0	97	99.2		100	99	95.1		100	95
<b>Copper</b>	78.5		80.0	98	98.2		100	98	94.3		100	94
<b>Iron</b>	19300		20000	96	25400		25000	102	24800		25000	99
<b>Lead</b>	77.6		80.0	97	95.4		100	95	95.6		100	96
<b>Magnesium</b>	37700		40000	94	48000		50000	96	48300		50000	97
<b>Manganese</b>	388		400	97	512		500	102	497		500	99
<b>Nickel</b>	77.8		80.0	97	98.1		100	98	94.4		100	94
<b>Potassium</b>	38700		40000	97	47700		50000	95	47000		50000	94
<b>Selenium</b>	81.5		80.0	102	99.5		100	99	101		100	101
<b>Silver</b>	79.6		80.0	99	96.4		100	96	94.0		100	94
<b>Sodium</b>	38000		40000	95	48600		50000	97	49200		50000	98
<b>Thallium</b>	80.6		80.0	101	94.8		100	95	95.3		100	95
<b>Vanadium</b>	77.1		80.0	96	99.3		100	99	94.5		100	95
<b>Zinc</b>	84.0		80.0	105	103		100	103	98.6		100	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2  
 SDG No.: \_\_\_\_\_  
 Method: 6020/DOD Instrument ID: M  
 Lab Sample ID: CRI 180-59262/7 Concentration Units: ug/L  
 CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.992	J	99	80-120
Aluminum	30.0	28.7	J	96	80-120
Arsenic	1.00	0.882	J	88	80-120
Barium	10.0	9.31	J	93	80-120
Beryllium	1.00	0.984	J	98	80-120
Calcium	100	104		104	80-120
Cadmium	1.00	0.977	J	98	80-120
Chromium	2.00	1.99	J	100	80-120
Cobalt	0.500	0.497	J	99	80-120
Copper	2.00	2.07		103	80-120
Iron	50.0	58.3		117	80-120
Magnesium	100	95.9	J	96	80-120
Manganese	5.00	5.06		101	80-120
Sodium	100	100		100	80-120
Nickel	1.00	1.09		109	80-120
Lead	1.00	0.932	J	93	80-120
Antimony	2.00	1.85	J	92	80-120
Thallium	1.00	0.891	J	89	80-120
Vanadium	1.00	0.931	J	93	80-120
Zinc	5.00	4.82	J	96	80-120
Potassium	100	93.9	J	94	80-120
Selenium	5.00	4.89	J	98	80-120

Lab Sample ID: CRI 180-59262/95 Concentration Units: ug/L  
 CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.912	J	91	80-120
Aluminum	30.0	27.0	J	90	80-120
Arsenic	1.00	0.881	J	88	80-120
Barium	10.0	9.07	J	91	80-120
Beryllium	1.00	0.977	J	98	80-120
Calcium	100	101		101	80-120
Cadmium	1.00	0.949	J	95	80-120
Chromium	2.00	1.91	J	95	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-59262/95 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.476	J	95	80-120
Copper	2.00	1.94	J	97	80-120
Iron	50.0	57.9		116	80-120
Magnesium	100	86.8	J	87	80-120
Manganese	5.00	5.31		106	80-120
Sodium	100	90.2	J	90	80-120
Nickel	1.00	0.976	J	98	80-120
Lead	1.00	0.873	J	87	80-120
Antimony	2.00	1.83	J	91	80-120
Thallium	1.00	0.817	J	82	80-120
Vanadium	1.00	0.897	J	90	80-120
Zinc	5.00	4.77	J	95	80-120
Potassium	100	86.5	J	86	80-120
Selenium	5.00	4.76	J	95	80-120

Lab Sample ID: CRI 180-59320/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.977	J	98	80-120
Aluminum	30.0	30.0		100	80-120
Arsenic	1.00	0.988	J	99	80-120
Barium	10.0	9.34	J	93	80-120
Beryllium	1.00	0.911	J	91	80-120
Calcium	100	102		102	80-120
Cadmium	1.00	1.07		107	80-120
Chromium	2.00	1.94	J	97	80-120
Cobalt	0.500	0.508		102	80-120
Copper	2.00	2.06		103	80-120
Iron	50.0	53.2		106	80-120
Magnesium	100	92.1	J	92	80-120
Manganese	5.00	5.16		103	80-120
Sodium	100	96.4	J	96	80-120
Nickel	1.00	1.01		101	80-120
Lead	1.00	0.962	J	96	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2  
 SDG No.: \_\_\_\_\_  
 Method: 6020/DOD Instrument ID: M  
 Lab Sample ID: CRI 180-59320/7 Concentration Units: ug/L  
 CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	1.98	J	99	80-120
Thallium	1.00	0.905	J	90	80-120
Vanadium	1.00	0.929	J	93	80-120
Zinc	5.00	5.44		109	80-120
Potassium	100	86.6	J	87	80-120
Selenium	5.00	4.81	J	96	80-120

Lab Sample ID: CRI 180-59320/88 Concentration Units: ug/L  
 CRQL Check Standard Source: MCRIX\_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.982	J	98	80-120
Aluminum	30.0	32.8		109	80-120
Arsenic	1.00	1.16		116	80-120
Barium	10.0	9.77	J	98	80-120
Beryllium	1.00	0.987	J	99	80-120
Calcium	100	110		110	80-120
Cadmium	1.00	1.06		106	80-120
Chromium	2.00	1.88	J	94	80-120
Cobalt	0.500	0.479	J	96	80-120
Copper	2.00	1.91	J	95	80-120
Iron	50.0	49.9	J	100	80-120
Magnesium	100	95.2	J	95	80-120
Manganese	5.00	5.68		114	80-120
Sodium	100	98.1	J	98	80-120
Nickel	1.00	0.995	J	99	80-120
Lead	1.00	0.929	J	93	80-120
Antimony	2.00	1.94	J	97	80-120
Thallium	1.00	0.878	J	88	80-120
Vanadium	1.00	0.947	J	95	80-120
Zinc	5.00	4.92	J	98	80-120
Potassium	100	86.3	J	86	80-120
Selenium	5.00	5.60		112	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.



3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-59262/6 12/22/2012 18:18		CCB1 180-59262/11 12/22/2012 18:47		CCB3 180-59262/35 12/22/2012 20:50		CCB4 180-59262/47 12/22/2012 21:55	
		Found	C	Found	C	Found	C	Found	C
<b>Aluminum</b>	30	5.0	U	5.0	U	5.0	U	5.0	U
<b>Antimony</b>	2.0	0.90	U	0.90	U	0.90	U	0.90	U
<b>Arsenic</b>	1.0	0.50	U	0.50	U	0.50	U	0.50	U
<b>Barium</b>	10	0.15	U	0.15	U	0.15	U	0.15	U
<b>Beryllium</b>	1.0	0.090	U	0.090	U	0.090	U	0.090	U
<b>Cadmium</b>	1.0	0.30	U	0.30	U	0.30	U	0.30	U
<b>Calcium</b>	100	20	U	20	U	20	U	20	U
<b>Chromium</b>	2.0	1.0	U	1.0	U	1.0	U	1.0	U
<b>Cobalt</b>	0.50	0.050	U	0.050	U	0.050	U	0.050	U
<b>Copper</b>	2.0	0.50	U	0.50	U	0.50	U	0.50	U
<b>Iron</b>	50	20	U	20	U	20	U	20	U
<b>Lead</b>	1.0	0.30	U	0.30	U	0.30	U	0.30	U
<b>Magnesium</b>	100	22	U	22	U	22	U	22	U
<b>Manganese</b>	5.0	0.30	U	0.251	J	0.318	J	0.341	J
<b>Nickel</b>	1.0	0.35	U	0.35	U	0.35	U	0.35	U
<b>Potassium</b>	100	60	U	60	U	60	U	60	U
<b>Selenium</b>	5.0	1.0	U	1.0	U	1.0	U	1.0	U
<b>Silver</b>	1.0	0.20	U	0.20	U	0.20	U	0.20	U
<b>Sodium</b>	100	55	U	55	U	55	U	55	U
<b>Thallium</b>	1.0	0.20	U	0.20	U	0.20	U	0.20	U
<b>Vanadium</b>	1.0	0.60	U	0.60	U	0.60	U	0.60	U
<b>Zinc</b>	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

Analyte	RL	CCB5 180-59262/59 12/22/2012 22:56		CCB6 180-59262/71 12/22/2012 23:55		CCB7 180-59262/83 12/23/2012 00:55		CCB8 180-59262/94 12/23/2012 01:49	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	5.0	U	5.0	U	5.0	U
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.15	U	0.15	U	0.15	U
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	20	U	20	U	20	U	20	U
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.050	U	0.050	U
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	20	U	20	U
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	22	U	22	U	22	U	22	U
Manganese	5.0	0.337	J	0.334	J	0.350	J	0.355	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	55	U	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

Analyte	RL	CCB9 180-59262/97 12/23/2012 02:16							
		Found	C	Found	C	Found	C	Found	C
<b>Aluminum</b>	30	5.0	U						
<b>Antimony</b>	2.0	0.90	U						
<b>Arsenic</b>	1.0	0.50	U						
<b>Barium</b>	10	0.15	U						
<b>Beryllium</b>	1.0	0.090	U						
<b>Cadmium</b>	1.0	0.30	U						
<b>Calcium</b>	100	20	U						
<b>Chromium</b>	2.0	1.0	U						
<b>Cobalt</b>	0.50	0.050	U						
<b>Copper</b>	2.0	0.50	U						
<b>Iron</b>	50	20	U						
<b>Lead</b>	1.0	0.30	U						
<b>Magnesium</b>	100	22	U						
<b>Manganese</b>	5.0	0.235	J						
<b>Nickel</b>	1.0	0.35	U						
<b>Potassium</b>	100	60	U						
<b>Selenium</b>	5.0	1.0	U						
<b>Silver</b>	1.0	0.20	U						
<b>Sodium</b>	100	55	U						
<b>Thallium</b>	1.0	0.20	U						
<b>Vanadium</b>	1.0	0.60	U						
<b>Zinc</b>	5.0	2.0	U						

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

Analyte	RL	ICB 180-59320/6 12/23/2012 18:37		CCB1 180-59320/11 12/23/2012 19:04		CCB2 180-59320/23 12/23/2012 20:11		Found	C
		Found	C	Found	C	Found	C		
<b>Aluminum</b>	30	5.0	U	5.0	U	2.76	J		
<b>Antimony</b>	2.0	0.90	U	0.90	U	0.90	U		
<b>Arsenic</b>	1.0	0.50	U	0.50	U	0.50	U		
<b>Barium</b>	10	0.15	U	0.15	U	0.15	U		
<b>Beryllium</b>	1.0	0.090	U	0.090	U	0.090	U		
<b>Cadmium</b>	1.0	0.30	U	0.30	U	0.30	U		
<b>Calcium</b>	100	30.2	J	29.3	J	28.8	J		
<b>Chromium</b>	2.0	1.0	U	1.0	U	1.0	U		
<b>Cobalt</b>	0.50	0.050	U	0.050	U	0.050	U		
<b>Copper</b>	2.0	0.50	U	0.50	U	0.50	U		
<b>Iron</b>	50	20	U	20	U	20	U		
<b>Lead</b>	1.0	0.30	U	0.30	U	0.30	U		
<b>Magnesium</b>	100	22	U	22	U	22	U		
<b>Manganese</b>	5.0	0.30	U	0.175	J	0.409	J		
<b>Nickel</b>	1.0	0.35	U	0.35	U	0.35	U		
<b>Potassium</b>	100	60	U	60	U	60	U		
<b>Selenium</b>	5.0	1.0	U	1.0	U	0.630	J		
<b>Silver</b>	1.0	0.20	U	0.20	U	0.20	U		
<b>Sodium</b>	100	55	U	55	U	55	U		
<b>Thallium</b>	1.0	0.20	U	0.20	U	0.20	U		
<b>Vanadium</b>	1.0	0.60	U	0.60	U	0.60	U		
<b>Zinc</b>	5.0	2.0	U	2.0	U	2.0	U		

Italicized analytes were not requested for this sequence.

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2  
 SDG No.: \_\_\_\_\_  
 Concentration Units: mg/Kg Lab Sample ID: MB 180-59062/1-A  
 Instrument Code: M Batch No.: 59262

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.030	U		6020_DoD
7429-90-5	Aluminum	0.495	J		6020_DoD
7440-38-2	Arsenic	0.050	U		6020_DoD
7440-39-3	Barium	0.020	U	Q	6020_DoD
7440-41-7	Beryllium	0.010	U		6020_DoD
7440-70-2	Calcium	1.43	J		6020_DoD
7440-43-9	Cadmium	0.030	U	Q	6020_DoD
7440-47-3	Chromium	0.040	U		6020_DoD
7440-48-4	Cobalt	0.010	U	Q	6020_DoD
7440-50-8	Copper	0.060	U	Q	6020_DoD
7439-89-6	Iron	2.37	J		6020_DoD
7439-95-4	Magnesium	2.0	U		6020_DoD
7439-96-5	Manganese	0.030	U	Q	6020_DoD
7440-23-5	Sodium	5.0	U		6020_DoD
7440-02-0	Nickel	0.030	U	Q	6020_DoD
7439-92-1	Lead	0.030	U		6020_DoD
7440-36-0	Antimony	0.10	U		6020_DoD
7440-28-0	Thallium	0.020	U		6020_DoD
7440-62-2	Vanadium	0.060	U		6020_DoD
7440-66-6	Zinc	0.20	U	Q	6020_DoD
7440-09-7	Potassium	6.0	U		6020_DoD
7782-49-2	Selenium	0.10	U		6020_DoD

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Concentration Units: mg/Kg Lab Sample ID: MB 180-59171/1-A

Instrument Code: M Batch No.: 59262

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.030	U		6020_DoD
7429-90-5	Aluminum	0.695	J		6020_DoD
7440-38-2	Arsenic	0.050	U		6020_DoD
7440-39-3	Barium	0.020	U	Q	6020_DoD
7440-41-7	Beryllium	0.010	U		6020_DoD
7440-70-2	Calcium	1.44	J		6020_DoD
7440-43-9	Cadmium	0.030	U	Q	6020_DoD
7440-47-3	Chromium	0.040	U		6020_DoD
7440-48-4	Cobalt	0.010	U	Q	6020_DoD
7440-50-8	Copper	0.060	U	Q	6020_DoD
7439-89-6	Iron	2.32	J		6020_DoD
7439-95-4	Magnesium	2.0	U		6020_DoD
7439-96-5	Manganese	0.0199	J	Q	6020_DoD
7440-23-5	Sodium	5.0	U		6020_DoD
7440-02-0	Nickel	0.030	U	Q	6020_DoD
7439-92-1	Lead	0.030	U		6020_DoD
7440-36-0	Antimony	0.10	U		6020_DoD
7440-28-0	Thallium	0.020	U		6020_DoD
7440-62-2	Vanadium	0.060	U		6020_DoD
7440-66-6	Zinc	0.20	U	Q	6020_DoD
7440-09-7	Potassium	6.0	U		6020_DoD
7782-49-2	Selenium	0.10	U		6020_DoD

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Concentration Units: mg/Kg Lab Sample ID: MB 180-59062/1-A

Instrument Code: M Batch No.: 59320

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.030	U		6020_DoD
7429-90-5	Aluminum	0.652	J		6020_DoD
7440-38-2	Arsenic	0.050	U		6020_DoD
7440-39-3	Barium	0.020	U	Q	6020_DoD
7440-41-7	Beryllium	0.010	U		6020_DoD
7440-70-2	Calcium	1.81	J		6020_DoD
7440-43-9	Cadmium	0.030	U	Q	6020_DoD
7440-47-3	Chromium	0.040	U		6020_DoD
7440-48-4	Cobalt	0.010	U	Q	6020_DoD
7440-50-8	Copper	0.060	U	Q	6020_DoD
7439-89-6	Iron	2.0	U		6020_DoD
7439-95-4	Magnesium	2.0	U		6020_DoD
7439-96-5	Manganese	0.0391	J	Q	6020_DoD
7440-23-5	Sodium	5.0	U		6020_DoD
7440-02-0	Nickel	0.030	U	Q	6020_DoD
7439-92-1	Lead	0.030	U		6020_DoD
7440-36-0	Antimony	0.10	U		6020_DoD
7440-28-0	Thallium	0.020	U		6020_DoD
7440-62-2	Vanadium	0.060	U		6020_DoD
7440-66-6	Zinc	0.0780	J	Q	6020_DoD
7440-09-7	Potassium	6.0	U		6020_DoD
7782-49-2	Selenium	0.10	U		6020_DoD

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 180-59262/8 Instrument ID: M  
 Lab File ID: M21222A.xml ICS Source: MICSAX\_00023  
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
<b>Aluminum</b>	<b>100000</b>	<b>97740</b>	<b>98</b>
<b>Antimony</b>		<b>0.221</b>	
<b>Arsenic</b>		<b>0.152</b>	
<b>Barium</b>		<b>0.226</b>	
<b>Beryllium</b>		<b>0.0060</b>	
<b>Cadmium</b>		<b>0.452</b>	
<b>Calcium</b>	<b>100000</b>	<b>106900</b>	<b>107</b>
<b>Chromium</b>		<b>0.0290</b>	
<b>Cobalt</b>		<b>0.163</b>	
<b>Copper</b>		<b>1.39</b>	
<b>Iron</b>	<b>100000</b>	<b>109800</b>	<b>110</b>
<b>Lead</b>		<b>0.197</b>	
<b>Magnesium</b>	<b>100000</b>	<b>100600</b>	<b>101</b>
<b>Manganese</b>		<b>0.333</b>	
<b>Nickel</b>		<b>0.508</b>	
<b>Potassium</b>	<b>100000</b>	<b>102100</b>	<b>102</b>
<b>Selenium</b>		<b>0.270</b>	
<b>Silver</b>		<b>0.106</b>	
<b>Sodium</b>	<b>100000</b>	<b>104800</b>	<b>105</b>
<b>Thallium</b>		<b>0.0000</b>	
<b>Vanadium</b>		<b>-0.430</b>	
<b>Zinc</b>		<b>2.84</b>	
<i>Boron</i>		<i>0.638</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>2288</i>	<i>114</i>
<i>Silicon</i>		<i>24.1</i>	
<i>Strontium</i>		<i>4.88</i>	
<i>Tin</i>		<i>0.0040</i>	
<i>Titanium</i>	<i>2000</i>	<i>2264</i>	<i>113</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Lab Sample ID: ICSAB 180-59262/9

Instrument ID: M

Lab File ID: M21222A.xml

ICS Source: MICSABX\_00026

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Aluminum</b>	<b>100000</b>	<b>94590</b>	<b>95</b>
<b>Antimony</b>	<b>20.0</b>	<b>20.3</b>	<b>101</b>
<b>Arsenic</b>	<b>20.0</b>	<b>20.0</b>	<b>100</b>
<b>Barium</b>	<b>20.0</b>	<b>20.2</b>	<b>101</b>
<b>Beryllium</b>	<b>20.0</b>	<b>20.0</b>	<b>100</b>
<b>Cadmium</b>	<b>20.0</b>	<b>20.3</b>	<b>102</b>
<b>Calcium</b>	<b>100000</b>	<b>102803</b>	<b>103</b>
<b>Chromium</b>	<b>20.0</b>	<b>20.8</b>	<b>104</b>
<b>Cobalt</b>	<b>20.0</b>	<b>20.1</b>	<b>101</b>
<b>Copper</b>	<b>20.0</b>	<b>20.3</b>	<b>102</b>
<b>Iron</b>	<b>100000</b>	<b>104167</b>	<b>104</b>
<b>Lead</b>	<b>20.0</b>	<b>21.0</b>	<b>105</b>
<b>Magnesium</b>	<b>100000</b>	<b>96903</b>	<b>97</b>
<b>Manganese</b>	<b>22.5</b>	<b>21.5</b>	<b>96</b>
<b>Nickel</b>	<b>20.0</b>	<b>19.7</b>	<b>99</b>
<b>Potassium</b>	<b>100000</b>	<b>98030</b>	<b>98</b>
<b>Selenium</b>	<b>50.0</b>	<b>50.9</b>	<b>102</b>
<b>Silver</b>	<b>20.0</b>	<b>19.8</b>	<b>99</b>
<b>Sodium</b>	<b>100000</b>	<b>101630</b>	<b>102</b>
<b>Thallium</b>	<b>20.0</b>	<b>20.8</b>	<b>104</b>
<b>Vanadium</b>	<b>20.0</b>	<b>20.5</b>	<b>103</b>
<b>Zinc</b>	<b>25.0</b>	<b>22.9</b>	<b>92</b>
<i>Boron</i>	<i>50.0</i>	<i>47.4</i>	<i>95</i>
<i>Molybdenum</i>	<i>2000</i>	<i>2153</i>	<i>108</i>
<i>Silicon</i>	<i>500</i>	<i>553</i>	<i>111</i>
<i>Strontium</i>	<i>20.0</i>	<i>23.8</i>	<i>119</i>
<i>Tin</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Titanium</i>	<i>2000</i>	<i>2161</i>	<i>108</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 180-59320/8 Instrument ID: M  
 Lab File ID: M21223A.xml ICS Source: MICSAX\_00023  
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Aluminum</b>	<b>100000</b>	<b>101400</b>	<b>101</b>
<b>Antimony</b>		<b>0.263</b>	
<b>Arsenic</b>		<b>0.167</b>	
<b>Barium</b>		<b>0.262</b>	
<b>Beryllium</b>		<b>0.0030</b>	
<b>Cadmium</b>		<b>0.315</b>	
<b>Calcium</b>	<b>100000</b>	<b>104900</b>	<b>105</b>
<b>Chromium</b>		<b>-0.0040</b>	
<b>Cobalt</b>		<b>0.155</b>	
<b>Copper</b>		<b>1.37</b>	
<b>Iron</b>	<b>100000</b>	<b>106800</b>	<b>107</b>
<b>Lead</b>		<b>0.227</b>	
<b>Magnesium</b>	<b>100000</b>	<b>102200</b>	<b>102</b>
<b>Manganese</b>		<b>0.392</b>	
<b>Nickel</b>		<b>0.472</b>	
<b>Potassium</b>	<b>100000</b>	<b>101300</b>	<b>101</b>
<b>Selenium</b>		<b>0.432</b>	
<b>Silver</b>		<b>0.0980</b>	
<b>Sodium</b>	<b>100000</b>	<b>105400</b>	<b>105</b>
<b>Thallium</b>		<b>0.0010</b>	
<b>Vanadium</b>		<b>-0.398</b>	
<b>Zinc</b>		<b>3.36</b>	
<i>Boron</i>		<i>0.772</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>2311</i>	<i>116</i>
<i>Silicon</i>		<i>27.1</i>	
<i>Strontium</i>		<i>4.75</i>	
<i>Tin</i>		<i>0.135</i>	
<i>Titanium</i>	<i>2000</i>	<i>2326</i>	<i>116</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Lab Sample ID: ICSAB 180-59320/9

Instrument ID: M

Lab File ID: M21223A.xml

ICS Source: MICSABX\_00026

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Aluminum</b>	<b>100000</b>	<b>98627</b>	<b>99</b>
<b>Antimony</b>	<b>20.0</b>	<b>21.0</b>	<b>105</b>
<b>Arsenic</b>	<b>20.0</b>	<b>20.6</b>	<b>103</b>
<b>Barium</b>	<b>20.0</b>	<b>21.0</b>	<b>105</b>
<b>Beryllium</b>	<b>20.0</b>	<b>20.8</b>	<b>104</b>
<b>Cadmium</b>	<b>20.0</b>	<b>21.0</b>	<b>105</b>
<b>Calcium</b>	<b>100000</b>	<b>101820</b>	<b>102</b>
<b>Chromium</b>	<b>20.0</b>	<b>20.6</b>	<b>103</b>
<b>Cobalt</b>	<b>20.0</b>	<b>20.3</b>	<b>102</b>
<b>Copper</b>	<b>20.0</b>	<b>20.6</b>	<b>103</b>
<b>Iron</b>	<b>100000</b>	<b>102833</b>	<b>103</b>
<b>Lead</b>	<b>20.0</b>	<b>21.7</b>	<b>108</b>
<b>Magnesium</b>	<b>100000</b>	<b>99447</b>	<b>99</b>
<b>Manganese</b>	<b>22.5</b>	<b>21.2</b>	<b>94</b>
<b>Nickel</b>	<b>20.0</b>	<b>20.0</b>	<b>100</b>
<b>Potassium</b>	<b>100000</b>	<b>98057</b>	<b>98</b>
<b>Selenium</b>	<b>50.0</b>	<b>51.1</b>	<b>102</b>
<b>Silver</b>	<b>20.0</b>	<b>20.3</b>	<b>102</b>
<b>Sodium</b>	<b>100000</b>	<b>102767</b>	<b>103</b>
<b>Thallium</b>	<b>20.0</b>	<b>21.4</b>	<b>107</b>
<b>Vanadium</b>	<b>20.0</b>	<b>20.5</b>	<b>102</b>
<b>Zinc</b>	<b>25.0</b>	<b>23.0</b>	<b>92</b>
<i>Boron</i>	<i>50.0</i>	<i>52.5</i>	<i>105</i>
<i>Molybdenum</i>	<i>2000</i>	<i>2222</i>	<i>111</i>
<i>Silicon</i>	<i>500</i>	<i>574</i>	<i>115</i>
<i>Strontium</i>	<i>20.0</i>	<i>23.8</i>	<i>119</i>
<i>Tin</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Titanium</i>	<i>2000</i>	<i>2251</i>	<i>113</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 076SB-0023M-0001-SO MS

Lab ID: 240-17796-1 MS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

% Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	7.77	0.021	J	9.43	82	75-125		6020/DOD
Aluminum	10900	7300		943	373	70-130	4	6020/DOD
Arsenic	22.2	11		9.43	115	23-131		6020/DOD
Barium	60.1	50		9.43	110	10-199	Q 4	6020/DOD
Beryllium	8.88	0.44		9.43	89	58-112		6020/DOD
Calcium	1940	950		943	105	70-130		6020/DOD
Cadmium	8.22	0.14		9.43	86	58-110	Q	6020/DOD
Chromium	29.8	18		9.43	125	10-199		6020/DOD
Cobalt	15.5	7.3		9.43	86	55-110	Q	6020/DOD
Copper	20.6	12		9.43	95	10-199	Q	6020/DOD
Iron	24400	22000		943	276	70-130	4	6020/DOD
Magnesium	2560	1500		943	116	70-130		6020/DOD
Manganese	588	590		9.43	13	10-199	Q 4	6020/DOD
Sodium	800	21		943	83	70-130		6020/DOD
Nickel	26.5	16		9.43	109	10-176	Q	6020/DOD
Lead	20.6	12		9.43	90	10-199		6020/DOD
Antimony	2.32	0.11	J	9.43	23	75-125	J	6020/DOD
Thallium	7.57	0.15		9.43	79	82-110	J	6020/DOD
Vanadium	27.9	16		9.43	125	39-129		6020/DOD
Zinc	70.8	46		9.43	265	10-199	Q 4	6020/DOD
Potassium	1600	570		943	109	70-130		6020/DOD
Selenium	9.06	0.52		9.43	91	39-116		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 076SB-0064M-0001-SO MS

Lab ID: 240-17796-26 MS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

% Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	7.86	0.021	J	9.17	85	75-125		6020/DOD
Aluminum	8110	6600		917	165	70-130	4	6020/DOD
Arsenic	22.7	15		9.17	86	23-131		6020/DOD
Barium	51.8	43		9.17	96	10-199	Q 4	6020/DOD
Beryllium	7.99	0.43		9.17	82	58-112		6020/DOD
Calcium	4090	3700		917	46	70-130	4	6020/DOD
Cadmium	7.44	0.19		9.17	79	58-110	Q	6020/DOD
Chromium	26.6	18		9.17	98	10-199		6020/DOD
Cobalt	16.7	8.1		9.17	93	55-110	Q	6020/DOD
Copper	26.3	17		9.17	97	10-199	Q	6020/DOD
Iron	23500	22000		917	213	70-130	4	6020/DOD
Magnesium	2960	2100		917	97	70-130		6020/DOD
Manganese	372	330		9.17	404	10-199	Q 4	6020/DOD
Sodium	788	29		917	83	70-130		6020/DOD
Nickel	31.0	21		9.17	104	10-176	Q	6020/DOD
Lead	22.1	14		9.17	93	10-199		6020/DOD
Antimony	2.22	0.12	J	9.17	23	75-125	J	6020/DOD
Thallium	7.53	0.15		9.17	80	82-110	J	6020/DOD
Vanadium	21.5	12		9.17	99	39-129		6020/DOD
Zinc	63.9	54		9.17	107	10-199	Q 4	6020/DOD
Potassium	1610	810		917	87	70-130		6020/DOD
Selenium	7.26	0.61		9.17	73	39-116		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 076SB-0023M-0001-SO PDS

Lab ID: 240-17796-1 PDS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.53	0.021	J	4.72	96	80-120		6020/DOD
Aluminum	7380	7300		189	18	80-120		6020/DOD
Arsenic	14.5	11		3.77	85	80-120		6020/DOD
Barium	218	50		189	89	80-120	Q	6020/DOD
Beryllium	4.76	0.44		4.72	92	80-120		6020/DOD
Calcium	5110	950		4720	88	80-120		6020/DOD
Cadmium	4.47	0.14		4.72	92	80-120	Q	6020/DOD
Chromium	34.8	18		18.9	89	80-120		6020/DOD
Cobalt	52.4	7.3		47.2	96	80-120	Q	6020/DOD
Copper	32.7	12		23.6	89	80-120	Q	6020/DOD
Iron	21300	22000		94.3	-540	80-120		6020/DOD
Magnesium	5420	1500		4720	84	80-120		6020/DOD
Manganese	616	590		47.2	62	80-120	Q	6020/DOD
Sodium	4150	21		4720	87	80-120		6020/DOD
Nickel	58.3	16		47.2	89	80-120	Q	6020/DOD
Lead	14.1	12		1.89	105	80-120		6020/DOD
Antimony	39.7	0.11	J	47.2	84	80-120		6020/DOD
Thallium	4.71	0.15		4.72	97	80-120		6020/DOD
Vanadium	61.8	16		47.2	97	80-120		6020/DOD
Zinc	86.1	46		47.2	85	80-120	Q	6020/DOD
Potassium	4590	570		4720	85	80-120		6020/DOD
Selenium	1.45	0.52		0.943	99	80-120		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 076SB-0064M-0001-SO PDS

Lab ID: 240-17796-26 PDS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.65	0.021	J	4.59	101	80-120		6020/DOD
Aluminum	6600	6600		183	2	80-120		6020/DOD
Arsenic	18.3	15		3.67	94	80-120		6020/DOD
Barium	215	43		183	94	80-120	Q	6020/DOD
Beryllium	4.59	0.43		4.59	91	80-120		6020/DOD
Calcium	7550	3700		4590	84	80-120		6020/DOD
Cadmium	4.67	0.19		4.59	98	80-120	Q	6020/DOD
Chromium	34.9	18		18.3	94	80-120		6020/DOD
Cobalt	53.8	8.1		45.9	99	80-120	Q	6020/DOD
Copper	38.5	17		22.9	92	80-120	Q	6020/DOD
Iron	21400	22000		91.7	-150	80-120		6020/DOD
Magnesium	5620	2100		4590	77	80-120	J	6020/DOD
Manganese	374	330		45.9	85	80-120	Q	6020/DOD
Sodium	3760	29		4590	81	80-120		6020/DOD
Nickel	63.3	21		45.9	91	80-120	Q	6020/DOD
Lead	15.5	14		1.83	102	80-120		6020/DOD
Antimony	39.2	0.12	J	45.9	85	80-120		6020/DOD
Thallium	4.58	0.15		4.59	97	80-120		6020/DOD
Vanadium	58.7	12		45.9	101	80-120		6020/DOD
Zinc	94.5	54		45.9	88	80-120	Q	6020/DOD
Potassium	4600	810		4590	83	80-120		6020/DOD
Selenium	1.41	0.61		0.917	88	80-120		6020/DOD

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN  
 DUPLICATES  
 METALS

Client ID: 076SB-0023M-0001-SO DU

Lab ID: 240-17796-1 DU

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

% Solids for Duplicate: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Silver	0.094	0.021 J	0.0215 J	4		6020/DOD
Aluminum	2.8	7300	7680	4		6020/DOD
Arsenic	0.094	11	11.6	2		6020/DOD
Barium	0.94	50	51.5	3	Q	6020/DOD
Beryllium	0.094	0.44	0.435	2		6020/DOD
Calcium	9.4	950	957	0.4		6020/DOD
Cadmium	0.094	0.14	0.125	10	Q	6020/DOD
Chromium	0.19	18	17.7	2		6020/DOD
Cobalt	0.047	7.3	7.34	0.08	Q	6020/DOD
Copper	0.19	12	11.6	0.2	Q	6020/DOD
Iron	4.7	22000	20700	5		6020/DOD
Magnesium	9.4	1500	1500	2		6020/DOD
Manganese	0.47	590	571	3	Q	6020/DOD
Sodium	9.4	21	20.7	1		6020/DOD
Nickel	0.094	16	16.1	0.3	Q	6020/DOD
Lead	0.094	12	12.6	3		6020/DOD
Antimony	0.19	0.11 J	0.105 J	2		6020/DOD
Thallium	0.094	0.15	0.132	13		6020/DOD
Vanadium	0.094	16	16.0	0.2		6020/DOD
Zinc	0.47	46	44.9	2	Q	6020/DOD
Potassium	9.4	570	595	4		6020/DOD
Selenium	0.47	0.52	0.426 J	19		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.



6-IN  
 DUPLICATES  
 METALS

Client ID: 076SB-0064M-0001-SO DU

Lab ID: 240-17796-26 DU

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

% Solids for Duplicate: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Silver	0.092	0.021 J	0.0208 J	3		6020/DOD
Aluminum	2.8	6600	6870	4		6020/DOD
Arsenic	0.092	15	15.0	0.9		6020/DOD
Barium	0.92	43	44.4	3	Q	6020/DOD
Beryllium	0.092	0.43	0.443	3		6020/DOD
Calcium	9.2	3700	4560	22	J	6020/DOD
Cadmium	0.092	0.19	0.195	3	Q	6020/DOD
Chromium	0.18	18	16.8	5		6020/DOD
Cobalt	0.046	8.1	8.16	0.4	Q	6020/DOD
Copper	0.18	17	17.4	0.6	Q	6020/DOD
Iron	4.6	22000	21100	2		6020/DOD
Magnesium	9.2	2100	2190	6		6020/DOD
Manganese	0.46	330	340	1	Q	6020/DOD
Sodium	9.2	29	34.6	18		6020/DOD
Nickel	0.092	21	21.1	2	Q	6020/DOD
Lead	0.092	14	13.6	0.1		6020/DOD
Antimony	0.18	0.12 J	0.118 J	2		6020/DOD
Thallium	0.092	0.15	0.106	36		6020/DOD
Vanadium	0.092	12	12.6	1		6020/DOD
Zinc	0.46	54	54.0	0.1	Q	6020/DOD
Potassium	9.2	810	852	5		6020/DOD
Selenium	0.46	0.61	0.483	23		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 180-59062/2-A

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

Sample Matrix: Solid

LCS Source: CANMSB\_High\_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	10.0	8.96		90	60	114		6020/DOD
Aluminum	1000	831		83	80	120		6020/DOD
Arsenic	100	87.6		88	73	110		6020/DOD
Barium	100	84.3		84	70	110	Q	6020/DOD
Beryllium	100	85.7		86	79	110		6020/DOD
Calcium	1000	901		90	80	120		6020/DOD
Cadmium	100	88.5		89	74	110	Q	6020/DOD
Chromium	100	91.8		92	70	110		6020/DOD
Cobalt	100	89.7		90	74	110	Q	6020/DOD
Copper	100	88.8		89	73	110	Q	6020/DOD
Iron	1000	939		94	80	120		6020/DOD
Magnesium	1000	839		84	80	120		6020/DOD
Manganese	100	92.7		93	80	120	Q	6020/DOD
Sodium	1000	834		83	80	120		6020/DOD
Nickel	100	87.9		88	75	110	Q	6020/DOD
Lead	100	89.8		90	75	110		6020/DOD
Antimony	10.0	8.52		85	68	113		6020/DOD
Thallium	25.0	21.5		86	71	110		6020/DOD
Vanadium	100	90.5		91	72	110		6020/DOD
Zinc	100	92.0		92	72	113	Q	6020/DOD
Potassium	1000	861		86	80	120		6020/DOD
Selenium	100	91.2		91	65	110		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 180-59171/2-A

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

Sample Matrix: Solid

LCS Source: CANMSB\_High\_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	10.0	9.03		90	60	114		6020/DOD
Aluminum	1000	822		82	80	120		6020/DOD
Arsenic	100	82.5		82	73	110		6020/DOD
Barium	100	86.7		87	70	110	Q	6020/DOD
Beryllium	100	86.8		87	79	110		6020/DOD
Calcium	1000	908		91	80	120		6020/DOD
Cadmium	100	86.7		87	74	110	Q	6020/DOD
Chromium	100	92.8		93	70	110		6020/DOD
Cobalt	100	90.7		91	74	110	Q	6020/DOD
Copper	100	88.1		88	73	110	Q	6020/DOD
Iron	1000	948		95	80	120		6020/DOD
Magnesium	1000	829		83	80	120		6020/DOD
Manganese	100	94.5		94	80	120	Q	6020/DOD
Sodium	1000	836		84	80	120		6020/DOD
Nickel	100	87.8		88	75	110	Q	6020/DOD
Lead	100	88.5		89	75	110		6020/DOD
Antimony	10.0	8.45		85	68	113		6020/DOD
Thallium	25.0	20.9		84	71	110		6020/DOD
Vanadium	100	92.0		92	72	110		6020/DOD
Zinc	100	85.8		86	72	113	Q	6020/DOD
Potassium	1000	869		87	80	120		6020/DOD
Selenium	100	82.7		83	65	110		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 240-17796-1

SDG No: \_\_\_\_\_

Lab Name: TestAmerica Pittsburgh

Job No: 240-17796-2

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Result (S)	C			
Silver	0.021	J	0.14	U	NC		6020/DOD
Aluminum	7300		7480		1.7	D	6020/DOD
Arsenic	11		11.2		1.2	D	6020/DOD
Barium	50		50.6		1.6	D Q	6020/DOD
Beryllium	0.44		0.450	J	1.6	D	6020/DOD
Calcium	950		979		2.7	D	6020/DOD
Cadmium	0.14		0.114	J	NC	D Q	6020/DOD
Chromium	18		17.9		0.91	D	6020/DOD
Cobalt	7.3		7.19		2.1	D Q	6020/DOD
Copper	12		11.6		0.28	D Q	6020/DOD
Iron	22000		22600		3.8	D	6020/DOD
Magnesium	1500		1410		4.2	D	6020/DOD
Manganese	590		588		0.32	D Q	6020/DOD
Sodium	21		21.1	J	NC	D	6020/DOD
Nickel	16		16.1		0.82	D Q	6020/DOD
Lead	12		12.0		1.1	D	6020/DOD
Antimony	0.11	J	0.47	U	NC		6020/DOD
Thallium	0.15		0.134	J	NC	D	6020/DOD
Vanadium	16		15.8		1.8	D	6020/DOD
Zinc	46		48.2		5.1	D Q	6020/DOD
Potassium	570		592		3.3	D	6020/DOD
Selenium	0.52		0.47	U	NC		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 240-17796-26

SDG No: \_\_\_\_\_

Lab Name: TestAmerica Pittsburgh

Job No: 240-17796-2

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	Method
		C		C			
Silver	0.021	J	0.14	U	NC		6020/DOD
Aluminum	6600		6940		5.1	D	6020/DOD
Arsenic	15		15.1		1.8	D	6020/DOD
Barium	43		44.8		4.2	D Q	6020/DOD
Beryllium	0.43		0.441	J	3.0	D	6020/DOD
Calcium	3700		3620		1.4	D	6020/DOD
Cadmium	0.19		0.184	J	NC	D Q	6020/DOD
Chromium	18		17.9		1.7	D	6020/DOD
Cobalt	8.1		8.04		1.1	D Q	6020/DOD
Copper	17		17.7		1.6	D Q	6020/DOD
Iron	22000		23000		6.5	D	6020/DOD
Magnesium	2100		2170		4.5	D	6020/DOD
Manganese	330		341		1.9	D Q	6020/DOD
Sodium	29		29.5	J	NC	D	6020/DOD
Nickel	21		21.7		1.4	D Q	6020/DOD
Lead	14		13.2		2.7	D	6020/DOD
Antimony	0.12	J	0.46	U	NC		6020/DOD
Thallium	0.15		0.150	J	NC	D	6020/DOD
Vanadium	12		12.5		0.30	D	6020/DOD
Zinc	54		59.2		9.6	D Q	6020/DOD
Potassium	810		838		3.0	D	6020/DOD
Selenium	0.61		0.46	U	NC		6020/DOD

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Pittsburgh

Job Number: 240-17796-2

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: M

Method: 6020/DOD

DL Date: 01/26/2010 16:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27	3	0.2849
Antimony	121	0.2	0.0459
Arsenic	75	0.1	0.0181
Barium	137	1	0.0107
Beryllium	9	0.1	0.0075
Cadmium	111	0.1	0.0132
Calcium	44	10	1.326
Chromium	52	0.2	0.0223
Cobalt	59	0.05	0.0024
Copper	65	0.2	0.033
Iron	56	5	1.077
Lead	208	0.1	0.0154
Magnesium	26	10	1.079
Manganese	55	0.5	0.0159
Nickel	60	0.1	0.0113
Potassium	39	10	3.155
Selenium	82	0.5	0.0509
Silver	107	0.1	0.0114
Sodium	23	10	2.658
Thallium	205	0.1	0.0102
Vanadium	51	0.1	0.0299
Zinc	66	0.5	0.0648

9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-17796-2  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: M  
 Method: 6020/DOD XMDL Date: 01/26/2010 16:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	2.5662
Antimony	121	2	0.459
Arsenic	75	1	0.2908
Barium	137	10	0.098
Beryllium	9	1	0.0451
Cadmium	111	1	0.132
Calcium	44	100	9.357
Chromium	52	2	0.5433
Cobalt	59	0.5	0.0263
Copper	65	2	0.2443
Iron	56	50	10.77
Lead	208	1	0.154
Magnesium	26	100	10.8
Manganese	55	5	0.159
Nickel	60	1	0.1749
Potassium	39	100	31.6
Selenium	82	5	0.509
Silver	107	1	0.114
Sodium	23	100	26.8
Thallium	205	1	0.102
Vanadium	51	1	0.299
Zinc	66	5	0.9609

11-IN  
 LINEAR RANGES  
 METALS

Lab Name: TestAmerica Pittsburgh

Job No: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M

Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020/DOD
Aluminum		450000	6020/DOD
Arsenic		4500	6020/DOD
Barium		13500	6020/DOD
Beryllium		9000	6020/DOD
Calcium		1500000	6020/DOD
Cadmium		13500	6020/DOD
Chromium		13500	6020/DOD
Cobalt		13500	6020/DOD
Copper		20000	6020/DOD
Iron		450000	6020/DOD
Magnesium		1500000	6020/DOD
Manganese		25000	6020/DOD
Sodium		450000	6020/DOD
Nickel		13500	6020/DOD
Lead		20000	6020/DOD
Antimony		13500	6020/DOD
Thallium		13500	6020/DOD
Vanadium		13500	6020/DOD
Zinc		25000	6020/DOD
Potassium		450000	6020/DOD
Selenium		4500	6020/DOD



12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Pittsburgh

Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-59062/1-A	11/27/2012 10:06	59062	1.00		100
LCS 180-59062/2-A	11/27/2012 10:06	59062	1.00		100
240-17796-1	11/27/2012 10:06	59062	1.06		100
240-17796-1 DU	11/27/2012 10:06	59062	1.06		100
240-17796-1 MS	11/27/2012 10:06	59062	1.06		100
240-17796-2	11/27/2012 10:06	59062	1.02		100
240-17796-3	11/27/2012 10:06	59062	1.08		100
240-17796-4	11/27/2012 10:06	59062	1.10		100
240-17796-5	11/27/2012 10:06	59062	1.37		100
240-17796-6	11/27/2012 10:06	59062	1.15		100
240-17796-7	11/27/2012 10:06	59062	1.31		100
240-17796-8	11/27/2012 10:06	59062	1.17		100
240-17796-9	11/27/2012 10:06	59062	1.24		100
240-17796-10	11/27/2012 10:06	59062	1.03		100
240-17796-11	11/27/2012 10:06	59062	1.39		100
240-17796-12	11/27/2012 10:06	59062	1.14		100
240-17796-13	11/27/2012 10:06	59062	1.43		100
240-17796-14	11/27/2012 10:06	59062	1.02		100
240-17796-15	11/27/2012 10:06	59062	1.14		100
240-17796-16	11/27/2012 10:06	59062	1.06		100
240-17796-22	11/27/2012 10:06	59062	1.04		100
240-17796-23	11/27/2012 10:06	59062	1.09		100
240-17796-24	11/27/2012 10:06	59062	1.03		100
240-17796-25	11/27/2012 10:06	59062	1.29		100

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-59171/1-A	11/28/2012 12:40	59171	1.00		100
LCS 180-59171/2-A	11/28/2012 12:40	59171	1.00		100
240-17796-26	11/28/2012 12:40	59171	1.09		100
240-17796-26 DU	11/28/2012 12:40	59171	1.09		100
240-17796-26 MS	11/28/2012 12:40	59171	1.09		100
240-17796-27	11/28/2012 12:40	59171	1.36		100
240-17796-28	11/28/2012 12:40	59171	1.15		100

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZ			00:00																				
ITUNE 180-59262/1			13:07																				
STD1 180-59262/2 IC	1		17:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-59262/3 IC	1		18:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-59262/4 IC	1		18:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-59262/5	1		18:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-59262/6	1		18:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-59262/7	1		18:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 180-59262/8	1		18:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-59262/9	1		18:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/10	1		18:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-59262/11	1		18:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:51																				
ZZZZZZ			18:56																				
ZZZZZZ			19:00																				
ZZZZZZ			19:08																				
ZZZZZZ			19:12																				
ZZZZZZ			19:19																				
ZZZZZZ			19:24																				
ZZZZZZ			19:28																				
ZZZZZZ			19:32																				
ZZZZZZ			19:37																				
CCV 180-59262/22			19:44																				
CCB2 180-59262/23			19:52																				
ZZZZZZ			19:56																				
ZZZZZZ			20:01																				
ZZZZZZ			20:05																				
ZZZZZZ			20:09																				
ZZZZZZ			20:13																				
ZZZZZZ			20:18																				
ZZZZZZ			20:22																				
ZZZZZZ			20:26																				
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
CCV 180-59262/34	1		20:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB3 180-59262/35	1		20:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:55																				
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:07																				
ZZZZZZ			21:12																				
ZZZZZZ			21:16																				

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				A	A	A	B	B	C	C	C	C	C	F	K	M	M	N	N	P	S	S	T
				g	l	s	a	e	a	d	o	r	u	e		g	n	a	i	b	b	se	l
zzzzzz			21:20																				
MB 180-59062/1-A	1	T	21:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-59062/2-A	1	T	21:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-1	1	T	21:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/46	1		21:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB4 180-59262/47	1		21:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-1 SD	5	T	21:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-1 DU	1	T	22:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-1 MS	1	T	22:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-1 PDS	1	T	22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-2	1	T	22:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-3	1	T	22:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-4	1	T	22:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-5	1	T	22:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-6	1	T	22:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-7	1	T	22:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/58	1		22:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB5 180-59262/59	1		22:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-8	1	T	23:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-9	1	T	23:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-10	1	T	23:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-11	1	T	23:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-12	1	T	23:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-13	1	T	23:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-14	1	T	23:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-15	1	T	23:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-16	1	T	23:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-22	1	T	23:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/70	1		23:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB6 180-59262/71	1		23:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-23	1	T	23:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-24	1	T	00:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-59171/1-A	1	T	00:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-59171/2-A	1	T	00:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-26	1	T	00:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-26 SD	5	T	00:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-26 DU	1	T	00:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-26 MS	1	T	00:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-26 PDS	1	T	00:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/82	1		00:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB7 180-59262/83	1		00:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-27	1	T	00:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
240-17796-28	1	T	01:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
zzzzzz			01:08																				
zzzzzz			01:12																				
zzzzzz			01:17																				
zzzzzz			01:21																				
zzzzzz			01:25																				
zzzzzz			01:30																				
zzzzzz			01:34																				
CCV 180-59262/93	1		01:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB8 180-59262/94	1		01:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-59262/95	1		02:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59262/96	1		02:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB9 180-59262/97	1		02:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				V	Z n																	
ZZZZZZ			00:00																			
ITUNE 180-59262/1			13:07																			
STD1 180-59262/2 IC	1		17:56	X	X																	
STD2 180-59262/3 IC	1		18:02	X	X																	
STD3 180-59262/4 IC	1		18:06	X	X																	
ICV 180-59262/5	1		18:10	X	X																	
ICB 180-59262/6	1		18:18	X	X																	
CRI 180-59262/7	1		18:22	X	X																	
ICSA 180-59262/8	1		18:27	X	X																	
ICSAB 180-59262/9	1		18:32	X	X																	
CCV 180-59262/10	1		18:40	X	X																	
CCB1 180-59262/11	1		18:47	X	X																	
ZZZZZZ			18:51																			
ZZZZZZ			18:56																			
ZZZZZZ			19:00																			
ZZZZZZ			19:08																			
ZZZZZZ			19:12																			
ZZZZZZ			19:19																			
ZZZZZZ			19:24																			
ZZZZZZ			19:28																			
ZZZZZZ			19:32																			
ZZZZZZ			19:37																			
CCV 180-59262/22			19:44																			
CCB2 180-59262/23			19:52																			
ZZZZZZ			19:56																			
ZZZZZZ			20:01																			
ZZZZZZ			20:05																			
ZZZZZZ			20:09																			
ZZZZZZ			20:13																			
ZZZZZZ			20:18																			
ZZZZZZ			20:22																			
ZZZZZZ			20:26																			
ZZZZZZ			20:31																			
ZZZZZZ			20:35																			
CCV 180-59262/34	1		20:42	X	X																	
CCB3 180-59262/35	1		20:50	X	X																	
ZZZZZZ			20:55																			
ZZZZZZ			20:59																			
ZZZZZZ			21:03																			
ZZZZZZ			21:07																			
ZZZZZZ			21:12																			
ZZZZZZ			21:16																			

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	Type	Time	Analytes																		
				V	Zn																	
ZZZZZZ			21:20																			
MB 180-59062/1-A	1	T	21:29	X	X																	
LCS 180-59062/2-A	1	T	21:33	X	X																	
240-17796-1	1	T	21:40	X	X																	
CCV 180-59262/46	1		21:47	X	X																	
CCB4 180-59262/47	1		21:55	X	X																	
240-17796-1 SD	5	T	21:59	X	X																	
240-17796-1 DU	1	T	22:04	X	X																	
240-17796-1 MS	1	T	22:08	X	X																	
240-17796-1 PDS	1	T	22:12	X	X																	
240-17796-2	1	T	22:20	X	X																	
240-17796-3	1	T	22:24	X	X																	
240-17796-4	1	T	22:28	X	X																	
240-17796-5	1	T	22:33	X	X																	
240-17796-6	1	T	22:37	X	X																	
240-17796-7	1	T	22:41	X	X																	
CCV 180-59262/58	1		22:48	X	X																	
CCB5 180-59262/59	1		22:56	X	X																	
240-17796-8	1	T	23:01	X	X																	
240-17796-9	1	T	23:05	X	X																	
240-17796-10	1	T	23:09	X	X																	
240-17796-11	1	T	23:14	X	X																	
240-17796-12	1	T	23:18	X	X																	
240-17796-13	1	T	23:22	X	X																	
240-17796-14	1	T	23:27	X	X																	
240-17796-15	1	T	23:31	X	X																	
240-17796-16	1	T	23:35	X	X																	
240-17796-22	1	T	23:40	X	X																	
CCV 180-59262/70	1		23:47	X	X																	
CCB6 180-59262/71	1		23:55	X	X																	
240-17796-23	1	T	23:59	X	X																	
240-17796-24	1	T	00:04	X	X																	
MB 180-59171/1-A	1	T	00:14	X	X																	
LCS 180-59171/2-A	1	T	00:18	X	X																	
240-17796-26	1	T	00:22	X	X																	
240-17796-26 SD	5	T	00:27	X	X																	
240-17796-26 DU	1	T	00:31	X	X																	
240-17796-26 MS	1	T	00:35	X	X																	
240-17796-26 PDS	1	T	00:40	X	X																	
CCV 180-59262/82	1		00:47	X	X																	
CCB7 180-59262/83	1		00:55	X	X																	
240-17796-27	1	T	00:59	X	X																	

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/30/1899 00:00 End Date: 12/23/2012 02:16

Lab Sample ID	D / F	T y p e	Time	Analytes															
				V	Z n														
240-17796-28	1	T	01:04	X	X														
ZZZZZZ			01:08																
ZZZZZZ			01:12																
ZZZZZZ			01:17																
ZZZZZZ			01:21																
ZZZZZZ			01:25																
ZZZZZZ			01:30																
ZZZZZZ			01:34																
CCV 180-59262/93	1		01:41	X	X														
CCB8 180-59262/94	1		01:49	X	X														
CRI 180-59262/95	1		02:01	X	X														
CCV 180-59262/96	1		02:08	X	X														
CCB9 180-59262/97	1		02:16	X	X														

Prep Types

T = Total/NA



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ITUNE 180-59320/91			13:07																				
ITUNE 180-59320/1			17:44																				
STD1 180-59320/2 IC	1		18:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-59320/3 IC	1		18:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-59320/4 IC	1		18:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-59320/5	1		18:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-59320/6	1		18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-59320/7	1		18:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 180-59320/8	1		18:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-59320/9	1		18:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59320/10	1		18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-59320/11	1		19:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-59062/1-A	1	T	19:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-17796-25	1	T	19:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:20																				
ZZZZZZ			19:25																				
ZZZZZZ			19:32																				
ZZZZZZ			19:36																				
ZZZZZZ			19:40																				
ZZZZZZ			19:45																				
ZZZZZZ			19:49																				
ZZZZZZ			19:56																				
CCV 180-59320/22	1		20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB2 180-59320/23	1		20:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:16																				
ZZZZZZ			20:20																				
ZZZZZZ			20:24																				
ZZZZZZ			20:29																				
ZZZZZZ			20:36																				
ZZZZZZ			20:40																				
ZZZZZZ			20:44																				
ZZZZZZ			20:49																				
ZZZZZZ			20:53																				
ZZZZZZ			20:57																				
CCV 180-59320/34			21:05																				
CCB3 180-59320/35			21:13																				
ZZZZZZ			21:17																				
ZZZZZZ			21:21																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:34																				
ZZZZZZ			21:38																				

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZ			21:43																				
ZZZZZZ			21:47																				
ZZZZZZ			21:51																				
ZZZZZZ			21:56																				
CCV 180-59320/46			22:03																				
CCB4 180-59320/47			22:11																				
ZZZZZZ			22:15																				
ZZZZZZ			22:20																				
ZZZZZZ			22:27																				
ZZZZZZ			22:32																				
ZZZZZZ			22:39																				
ZZZZZZ			22:43																				
ZZZZZZ			22:48																				
ZZZZZZ			22:52																				
ZZZZZZ			22:56																				
ZZZZZZ			23:03																				
CCV 180-59320/58			23:11																				
CCB5 180-59320/59			23:19																				
ZZZZZZ			23:23																				
ZZZZZZ			23:27																				
ZZZZZZ			23:32																				
ZZZZZZ			23:36																				
ZZZZZZ			23:40																				
ZZZZZZ			23:45																				
ZZZZZZ			23:49																				
ZZZZZZ			23:53																				
ZZZZZZ			23:58																				
ZZZZZZ			00:02																				
CCV 180-59320/70			00:09																				
CCB6 180-59320/71			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:26																				
ZZZZZZ			00:30																				
ZZZZZZ			00:34																				
ZZZZZZ			00:39																				
ZZZZZZ			00:43																				
ZZZZZZ			00:47																				
ZZZZZZ			00:52																				
ZZZZZZ			00:56																				
ZZZZZZ			01:00																				
CCV 180-59320/82			01:08																				
CCB7 180-59320/83			01:16																				

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZ			01:20																				
ZZZZZZ			01:24																				
ZZZZZZ			01:29																				
ZZZZZZ			01:33																				
CRI 180-59320/88	1		01:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-59320/89			01:58																				
CCB8 180-59320/90			02:05																				

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	Type	Time	Analytes															
				V	Zn														
ITUNE 180-59320/91			13:07																
ITUNE 180-59320/1			17:44																
STD1 180-59320/2 IC	1		18:13	X	X														
STD2 180-59320/3 IC	1		18:21	X	X														
STD3 180-59320/4 IC	1		18:25	X	X														
ICV 180-59320/5	1		18:29	X	X														
ICB 180-59320/6	1		18:37	X	X														
CRI 180-59320/7	1		18:41	X	X														
ICSA 180-59320/8	1		18:45	X	X														
ICSAB 180-59320/9	1		18:50	X	X														
CCV 180-59320/10	1		18:57	X	X														
CCB1 180-59320/11	1		19:04	X	X														
MB 180-59062/1-A	1	T	19:08	X	X														
240-17796-25	1	T	19:13	X	X														
ZZZZZZ			19:20																
ZZZZZZ			19:25																
ZZZZZZ			19:32																
ZZZZZZ			19:36																
ZZZZZZ			19:40																
ZZZZZZ			19:45																
ZZZZZZ			19:49																
ZZZZZZ			19:56																
CCV 180-59320/22	1		20:04	X	X														
CCB2 180-59320/23	1		20:11	X	X														
ZZZZZZ			20:16																
ZZZZZZ			20:20																
ZZZZZZ			20:24																
ZZZZZZ			20:29																
ZZZZZZ			20:36																
ZZZZZZ			20:40																
ZZZZZZ			20:44																
ZZZZZZ			20:49																
ZZZZZZ			20:53																
ZZZZZZ			20:57																
CCV 180-59320/34			21:05																
CCB3 180-59320/35			21:13																
ZZZZZZ			21:17																
ZZZZZZ			21:21																
ZZZZZZ			21:26																
ZZZZZZ			21:30																
ZZZZZZ			21:34																
ZZZZZZ			21:38																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	Type	Time	Analytes															
				V	Zn														
ZZZZZZ			21:43																
ZZZZZZ			21:47																
ZZZZZZ			21:51																
ZZZZZZ			21:56																
CCV 180-59320/46			22:03																
CCB4 180-59320/47			22:11																
ZZZZZZ			22:15																
ZZZZZZ			22:20																
ZZZZZZ			22:27																
ZZZZZZ			22:32																
ZZZZZZ			22:39																
ZZZZZZ			22:43																
ZZZZZZ			22:48																
ZZZZZZ			22:52																
ZZZZZZ			22:56																
ZZZZZZ			23:03																
CCV 180-59320/58			23:11																
CCB5 180-59320/59			23:19																
ZZZZZZ			23:23																
ZZZZZZ			23:27																
ZZZZZZ			23:32																
ZZZZZZ			23:36																
ZZZZZZ			23:40																
ZZZZZZ			23:45																
ZZZZZZ			23:49																
ZZZZZZ			23:53																
ZZZZZZ			23:58																
ZZZZZZ			00:02																
CCV 180-59320/70			00:09																
CCB6 180-59320/71			00:17																
ZZZZZZ			00:21																
ZZZZZZ			00:26																
ZZZZZZ			00:30																
ZZZZZZ			00:34																
ZZZZZZ			00:39																
ZZZZZZ			00:43																
ZZZZZZ			00:47																
ZZZZZZ			00:52																
ZZZZZZ			00:56																
ZZZZZZ			01:00																
CCV 180-59320/82			01:08																
CCB7 180-59320/83			01:16																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Instrument ID: M Method: 6020/DOD

Start Date: 12/22/2012 13:07 End Date: 12/24/2012 02:05

Lab Sample ID	D / F	T y p e	Time	Analytes															
				V	Z n														
ZZZZZZ			01:20																
ZZZZZZ			01:24																
ZZZZZZ			01:29																
ZZZZZZ			01:33																
CRI 180-59320/88	1		01:50	X	X														
CCV 180-59320/89			01:58																
CCB8 180-59320/90			02:05																

Prep Types  
T = Total/NA

15-IN  
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/22/2012 End Date: 12/23/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-59262/2 IC	17:56	100		100		100		100		100	
STD2 180-59262/3 IC	18:02	86		95		91		84		89	
STD3 180-59262/4 IC	18:06	92		100		97		96		97	
ICV 180-59262/5	18:10	91		99		99		89		93	
ICB 180-59262/6	18:18	97		107		99		97		98	
CRI 180-59262/7	18:22	90		99		94		96		97	
ICSA 180-59262/8	18:27	69		77		78		75		83	
ICSAB 180-59262/9	18:32	66		74		85		76		85	
CCV 180-59262/10	18:40	69		81		89		84		88	
CCB1 180-59262/11	18:47	90		89		92		94		98	
CCV 180-59262/34	20:42	79		88		89		86		88	
CCB3 180-59262/35	20:50	94		109		96		94		93	
MB 180-59062/1-A	21:29	102		116		102		97		94	
LCS 180-59062/2-A	21:33	79		82		81		81		82	
240-17796-1	21:40	79		82		0		75		77	
CCV 180-59262/46	21:47	74		83		81		77		79	
CCB4 180-59262/47	21:55	90		102		84		88		87	
240-17796-1 SD	21:59	84		91		99		88		89	
240-17796-1 DU	22:04	76		83		0		74		77	
240-17796-1 MS	22:08	66		72		0		67		73	
240-17796-1 PDS	22:12	72		82		0		69		75	
240-17796-2	22:20	83		90		0		77		79	
240-17796-3	22:24	77		80		0		73		75	
240-17796-4	22:28	77		79		0		70		72	
240-17796-5	22:33	73		78		0		69		71	
240-17796-6	22:37	74		77		0		69		71	
240-17796-7	22:41	72		75		0		68		70	
CCV 180-59262/58	22:48	72		76		76		71		73	
CCB5 180-59262/59	22:56	87		94		78		88		85	
240-17796-8	23:01	76		78		0		69		71	
240-17796-9	23:05	74		76		0		67		69	
240-17796-10	23:09	74		76		0		69		71	
240-17796-11	23:14	77		84		0		71		72	
240-17796-12	23:18	79		85		0		74		75	
240-17796-13	23:22	75		81		0		70		72	
240-17796-14	23:27	71		76		0		69		71	
240-17796-15	23:31	71		79		0		71		73	
240-17796-16	23:35	76		78		0		70		71	
240-17796-22	23:40	77		77		0		70		72	
CCV 180-59262/70	23:47	72		77		77		74		74	
CCB6 180-59262/71	23:55	90		93		81		87		83	
240-17796-23	23:59	73		78		0		70		71	

15-IN  
 ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
 METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/22/2012 End Date: 12/23/2012

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q		
240-17796-24	00:04	81		84		0		72		72			
MB 180-59171/1-A	00:14	89		90		78		78		76			
LCS 180-59171/2-A	00:18	78		77		74		73		73			
240-17796-26	00:22	82		84		0		73		74			
240-17796-26 SD	00:27	83		83		92		80		79			
240-17796-26 DU	00:31	81		85		0		73		74			
240-17796-26 MS	00:35	75		79		0		64		71			
240-17796-26 PDS	00:40	74		78		0		62		65			
CCV 180-59262/82	00:47	71		76		77		72		71			
CCB7 180-59262/83	00:55	94		92		81		91		82			
240-17796-27	00:59	80		85		0		70		71			
240-17796-28	01:04	80		84		0		72		72			
CCV 180-59262/93	01:41	69		71		72		66		67			
CCB8 180-59262/94	01:49	91		87		81		85		79			
CRI 180-59262/95	02:01	74		74		70		75		72			
CCV 180-59262/96	02:08	72		76		74		69		68			
CCB9 180-59262/97	02:16	99		92		82		88		84			



15-IN  
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/22/2012 End Date: 12/23/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-59262/2 IC	17:56	100		100		100					
STD2 180-59262/3 IC	18:02	90		90		81					
STD3 180-59262/4 IC	18:06	98		98		97					
ICV 180-59262/5	18:10	94		94		88					
ICB 180-59262/6	18:18	98		99		99					
CRI 180-59262/7	18:22	99		100		100					
ICSA 180-59262/8	18:27	87		87		84					
ICSAB 180-59262/9	18:32	91		92		87					
CCV 180-59262/10	18:40	95		101		93					
CCB1 180-59262/11	18:47	104		106		109					
CCV 180-59262/34	20:42	89		93		85					
CCB3 180-59262/35	20:50	95		96		102					
MB 180-59062/1-A	21:29	97		98		102					
LCS 180-59062/2-A	21:33	86		88		82					
240-17796-1	21:40	86		86		79					
CCV 180-59262/46	21:47	82		84		80					
CCB4 180-59262/47	21:55	91		92		100					
240-17796-1 SD	21:59	93		94		91					
240-17796-1 DU	22:04	86		86		79					
240-17796-1 MS	22:08	77		76		72					
240-17796-1 PDS	22:12	84		84		72					
240-17796-2	22:20	85		85		77					
240-17796-3	22:24	84		84		76					
240-17796-4	22:28	81		81		73					
240-17796-5	22:33	80		80		72					
240-17796-6	22:37	79		80		73					
240-17796-7	22:41	79		78		72					
CCV 180-59262/58	22:48	77		78		75					
CCB5 180-59262/59	22:56	85		85		93					
240-17796-8	23:01	79		80		72					
240-17796-9	23:05	78		78		70					
240-17796-10	23:09	78		78		73					
240-17796-11	23:14	82		80		70					
240-17796-12	23:18	83		82		73					
240-17796-13	23:22	83		81		71					
240-17796-14	23:27	79		78		75					
240-17796-15	23:31	82		81		76					
240-17796-16	23:35	80		80		73					
240-17796-22	23:40	79		80		74					
CCV 180-59262/70	23:47	76		77		75					
CCB6 180-59262/71	23:55	83		84		92					
240-17796-23	23:59	81		80		75					

15-IN  
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/22/2012 End Date: 12/23/2012

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q		
240-17796-24	00:04	81		80		72							
MB 180-59171/1-A	00:14	80		81		88							
LCS 180-59171/2-A	00:18	77		78		78							
240-17796-26	00:22	82		82		74							
240-17796-26 SD	00:27	84		84		86							
240-17796-26 DU	00:31	83		81		74							
240-17796-26 MS	00:35	80		79		67							
240-17796-26 PDS	00:40	78		78		67							
CCV 180-59262/82	00:47	74		75		75							
CCB7 180-59262/83	00:55	81		82		92							
240-17796-27	00:59	80		79		69							
240-17796-28	01:04	78		78		71							
CCV 180-59262/93	01:41	69		70		70							
CCB8 180-59262/94	01:49	83		84		93							
CRI 180-59262/95	02:01	76		77		86							
CCV 180-59262/96	02:08	70		71		72							
CCB9 180-59262/97	02:16	85		86		96							

15-IN  
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/23/2012 End Date: 12/24/2012

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q		
STD1 180-59320/2 IC	18:13	100		100		100		100		100			
STD2 180-59320/3 IC	18:21	94		102		95		87		92			
STD3 180-59320/4 IC	18:25	101		109		104		102		103			
ICV 180-59320/5	18:29	103		108		105		94		98			
ICB 180-59320/6	18:37	106		111		103		99		100			
CRI 180-59320/7	18:41	101		104		99		99		100			
ICSA 180-59320/8	18:45	81		89		90		82		90			
ICSAB 180-59320/9	18:50	78		88		95		82		91			
CCV 180-59320/10	18:57	82		88		94		89		96			
CCB1 180-59320/11	19:04	89		101		93		94		96			
MB 180-59062/1-A	19:08	90		101		95		93		95			
240-17796-25	19:13	85		92		0		82		87			
CCV 180-59320/22	20:04	88		95		92		88		87			
CCB2 180-59320/23	20:11	103		111		110		95		95			
CRI 180-59320/88	01:50	89		88		88		79		75			

15-IN  
 ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY  
 METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: M Start Date: 12/23/2012 End Date: 12/24/2012

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q		
STD1 180-59320/2 IC	18:13	100		100		100							
STD2 180-59320/3 IC	18:21	91		91		80							
STD3 180-59320/4 IC	18:25	102		102		99							
ICV 180-59320/5	18:29	97		97		88							
ICB 180-59320/6	18:37	100		100		99							
CRI 180-59320/7	18:41	101		101		101							
ICSA 180-59320/8	18:45	90		90		84							
ICSAB 180-59320/9	18:50	92		92		83							
CCV 180-59320/10	18:57	100		100		91							
CCB1 180-59320/11	19:04	100		100		102							
MB 180-59062/1-A	19:08	98		99		101							
240-17796-25	19:13	93		93		78							
CCV 180-59320/22	20:04	86		86		80							
CCB2 180-59320/23	20:11	96		96		98							
CRI 180-59320/88	01:50	75		76		83							

## Dilution Corrected Concentrations

STD1 686024 INT STD 12/22/2012 5:56:47 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	101.616%	0.013	-0.013	0.003	0.000	-0.146	0.028	-0.022
2	17:58:13	99.549%	0.006	0.042	0.021	0.000	0.093	-0.093	0.003
3	17:58:56	98.835%	-0.019	-0.029	-0.024	0.000	0.053	0.065	0.020
X		100.000%	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
σ		1.444%	0.017	0.037	0.023	0.000	0.128	0.083	0.021
%RSD		1.444	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	0.005	-0.203	0.000	-0.292	0.949	0.850	100.449%	-0.010
2	17:58:13	0.045	-0.032	0.000	-0.002	0.525	-0.140	100.658%	0.025
3	17:58:56	-0.050	0.235	0.000	0.294	-1.475	-0.710	98.894%	-0.016
X		-0.000	-0.000	0.000	0.000	0.000	0.000	100.000%	-0.000
σ		0.048	0.221	0.000	0.293	1.294	0.789	0.964%	0.022
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.964	0.000
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	0.027	0.016	0.002	-0.665	-0.033	0.004	-0.011	-0.005
2	17:58:13	-0.023	-0.005	-0.002	0.097	-0.091	-0.005	0.011	0.004
3	17:58:56	-0.004	-0.011	0.000	0.568	0.125	0.001	0.000	0.002
X		0.000	0.000	0.000	-0.000	-0.000	0.000	-0.000	-0.000
σ		0.025	0.014	0.002	0.622	0.112	0.004	0.011	0.005
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	-0.004	-0.030	-0.062	-0.065	0.044	-0.216	0.000	0.001
2	17:58:13	0.009	0.068	0.127	0.054	-0.015	0.218	0.000	-0.001
3	17:58:56	-0.005	-0.038	-0.066	0.011	-0.029	-0.002	0.000	0.000
X		0.000	0.000	0.000	-0.000	-0.000	0.000	0.000	-0.000
σ		0.008	0.059	0.110	0.060	0.039	0.217	0.000	0.001
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	99.340%	-0.009	0.002	99.350%	0.001	-0.001	-0.019	-0.005
2	17:58:13	100.246%	0.002	0.001	100.220%	-0.004	-0.002	0.040	0.028
3	17:58:56	100.413%	0.007	-0.003	100.430%	0.003	0.003	-0.021	-0.023
X		100.000%	0.000	-0.000	100.000%	-0.000	-0.000	0.000	0.000
σ		0.577%	0.008	0.003	0.573%	0.004	0.002	0.035	0.026
%RSD		0.577	0.000	0.000	0.573	0.000	0.000	0.000	0.000
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:57:30	98.898%	-0.024	0.001	0.013	0.011	-0.004	99.149%	98.629%
2	17:58:13	100.478%	-0.020	-0.004	0.001	-0.008	-0.001	100.552%	100.248%
3	17:58:56	100.625%	0.044	0.003	-0.014	-0.003	0.005	100.300%	101.124%
X		100.000%	-0.000	0.000	0.000	-0.000	-0.000	100.000%	100.000%
σ		0.957%	0.038	0.004	0.013	0.010	0.004	0.748%	1.266%
%RSD		0.957	0.000	0.000	0.000	0.000	0.000	0.748	1.266
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:57:30	0.004	-0.001	-0.000	-0.007	-0.001	99.221%		
2	17:58:13	-0.000	0.002	0.004	0.001	-0.000	100.669%		
3	17:58:56	-0.004	-0.001	-0.004	0.006	0.001	100.110%		
X		-0.000	0.000	0.000	-0.000	0.000	100.000%		
σ		0.004	0.002	0.004	0.007	0.001	0.731%		
%RSD		0.000	0.000	0.000	0.000	0.000	0.731		

STD2 646077 12/22/2012 6:02:25 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	85.911%	196.500	0.266	0.348	0.000	99130.000	99370.000	99650.000
2	18:03:50	85.734%	200.300	0.525	0.345	0.000	99260.000	99480.000	99680.000
3	18:04:33	85.176%	203.300	0.305	0.280	0.000	101600.000	101200.000	100700.000
X		85.607%	200.000	0.365	0.324	0.000	100000.000	100000.000	100000.000
σ		0.384%	3.418	0.140	0.038	0.000	1394.000	998.000	577.200
%RSD		0.448	1.709	38.260	11.820	0.000	1.394	0.998	0.577
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	997.400	6.439	0.000	98780.000	98300.000	99080.000	94.345%	0.227
2	18:03:50	998.900	6.450	0.000	99030.000	99340.000	99610.000	96.100%	0.298
3	18:04:33	1004.000	6.785	0.000	102200.000	102400.000	101300.000	95.787%	0.192
X		1000.000	6.558	0.000	100000.000	100000.000	100000.000	95.410%	0.239
σ		3.266	0.197	0.000	1905.000	2109.000	1171.000	0.936%	0.054
%RSD		0.327	2.999	0.000	1.905	2.109	1.171	0.981	22.560
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	198.900	198.200	992.900	49790.000	49500.000	197.600	198.400	198.500
2	18:03:50	200.500	199.700	1006.000	49940.000	49740.000	198.700	198.900	199.100
3	18:04:33	200.600	202.100	1002.000	50270.000	50750.000	203.700	202.700	202.400
X		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		0.991	1.971	6.468	246.100	663.600	3.288	2.370	2.115
%RSD		0.495	0.986	0.647	0.492	1.327	1.644	1.185	1.057
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	197.700	197.900	198.700	199.100	195.500	195.200	0.000	197.800
2	18:03:50	199.800	200.200	199.400	199.700	200.900	201.500	0.000	200.500
3	18:04:33	202.500	201.900	201.800	201.200	203.600	203.300	0.000	201.800
X		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		2.383	1.973	1.621	1.097	4.144	4.255	0.000	2.020
%RSD		1.191	0.986	0.811	0.548	2.072	2.128	0.000	1.010
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	89.692%	0.278	0.263	83.151%	197.500	197.800	198.900	199.800
2	18:03:50	91.527%	0.294	0.281	84.615%	200.300	200.100	200.100	199.600
3	18:04:33	92.056%	0.265	0.284	84.425%	202.300	202.100	201.000	200.600
X		91.092%	0.279	0.276	84.063%	200.000	200.000	200.000	200.000
σ		1.240%	0.014	0.011	0.796%	2.398	2.182	1.033	0.543
%RSD		1.362	5.191	4.031	0.947	1.199	1.091	0.516	0.272
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:03:07	87.188%	0.008	0.082	0.072	198.600	198.500	88.252%	88.612%
2	18:03:50	89.530%	0.016	0.068	0.080	199.400	200.400	90.709%	91.092%
3	18:04:33	90.120%	-0.027	0.083	0.102	202.000	201.200	90.074%	90.669%
X		88.946%	-0.001	0.078	0.085	200.000	200.000	89.678%	90.124%
σ		1.551%	0.023	0.009	0.015	1.807	1.369	1.275%	1.327%
%RSD		1.744	1767.000	10.950	18.120	0.904	0.684	1.422	1.472
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:03:07	196.000	195.400	196.000	195.600	195.700	81.263%		
2	18:03:50	201.100	201.000	201.000	200.700	200.700	81.552%		
3	18:04:33	202.800	203.600	203.000	203.700	203.600	80.907%		
X		200.000	200.000	200.000	200.000	200.000	81.241%		
σ		3.542	4.204	3.630	4.091	3.999	0.323%		
%RSD		1.771	2.102	1.815	2.046	2.000	0.397		

STD3 646078 12/22/2012 6:06:41 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	93.421%	0.222	198.800	198.200	0.000	50.350	45.410	46.040
2	18:08:07	91.025%	0.131	203.400	203.200	0.000	46.620	41.980	40.770
3	18:08:50	90.552%	0.125	197.800	198.600	0.000	46.810	39.800	40.240
X		91.666%	0.159	200.000	200.000	0.000	47.930	42.400	42.350
σ		1.538%	0.054	2.947	2.806	0.000	2.103	2.831	3.210
%RSD		1.678	34.160	1.474	1.403	0.000	4.388	6.677	7.579
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	7.952	10020.000	0.000	39.710	53.500	134.500	101.357%	197.000
2	18:08:07	6.667	10010.000	0.000	37.810	44.380	122.200	99.574%	201.500
3	18:08:50	6.392	9972.000	0.000	37.630	49.120	120.600	98.064%	201.400
X		7.004	10000.000	0.000	38.380	49.000	125.800	99.665%	200.000
σ		0.833	24.310	0.000	1.149	4.560	7.595	1.648%	2.591
%RSD		11.890	0.243	0.000	2.994	9.307	6.040	1.654	1.296
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	0.204	0.155	0.662	155.300	151.900	0.116	0.332	2.327
2	18:08:07	0.166	0.116	0.627	75.000	74.550	0.092	0.264	2.384
3	18:08:50	0.092	0.110	0.591	50.460	53.280	0.096	0.285	2.396
X		0.154	0.127	0.627	93.600	93.230	0.101	0.293	2.369
σ		0.057	0.025	0.035	54.860	51.880	0.013	0.035	0.037
%RSD		37.140	19.330	5.638	58.610	55.650	12.720	11.870	1.552
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	2.523	3.864	3.984	0.686	3.199	2.225	0.000	0.175
2	18:08:07	2.510	4.036	3.943	0.405	1.739	0.767	0.000	0.176
3	18:08:50	2.398	3.763	3.992	0.320	1.230	0.730	0.000	0.164
X		2.477	3.888	3.973	0.471	2.056	1.240	0.000	0.172
σ		0.069	0.138	0.026	0.192	1.022	0.853	0.000	0.006
%RSD		2.775	3.543	0.656	40.720	49.710	68.740	0.000	3.668
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	96.557%	195.400	196.100	95.306%	0.187	0.203	0.210	-0.148
2	18:08:07	96.839%	201.300	201.900	96.043%	0.171	0.188	0.204	-0.153
3	18:08:50	97.063%	203.200	202.000	95.307%	0.173	0.188	0.107	-0.360
X		96.820%	200.000	200.000	95.552%	0.177	0.193	0.174	-0.220
σ		0.254%	4.060	3.397	0.425%	0.009	0.009	0.058	0.121
%RSD		0.262	2.030	1.699	0.445	4.818	4.415	33.480	54.770
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:24	96.363%	198.600	198.200	198.600	0.173	0.354	96.898%	96.838%
2	18:08:07	97.749%	200.000	199.800	200.300	0.142	0.427	97.807%	98.283%
3	18:08:50	97.956%	201.500	202.000	201.100	0.115	0.380	98.947%	99.310%
X		97.356%	200.000	200.000	200.000	0.143	0.387	97.884%	98.143%
σ		0.866%	1.458	1.948	1.291	0.029	0.037	1.027%	1.242%
%RSD		0.889	0.729	0.974	0.645	20.420	9.662	1.049	1.266
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:07:24	0.076	0.079	0.222	0.235	0.225	95.635%		
2	18:08:07	0.076	0.068	0.141	0.149	0.149	97.289%		
3	18:08:50	0.054	0.075	0.141	0.138	0.138	99.384%		
X		0.069	0.074	0.168	0.174	0.171	97.436%		
σ		0.013	0.006	0.047	0.053	0.047	1.879%		
%RSD		18.430	7.448	27.990	30.540	27.770	1.929		

ICV 660333 12/22/2012 6:10:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	91.728%	76.430	83.500	83.920	0.000	38290.000	38010.000	37960.000
2	18:12:25	89.122%	79.320	84.680	86.350	0.000	39990.000	39090.000	38980.000
3	18:13:08	91.942%	78.550	84.270	84.400	0.000	38980.000	38620.000	38590.000
X		90.930%	97.623%	105.186%	106.116%	0.000	97.716%	96.432%	96.277%
σ		1.570%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.726	1.918	0.715	1.516	0.000	2.191	1.399	1.329
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	378.600	4124.000	0.000	38850.000	38510.000	38360.000	99.600%	78.580
2	18:12:25	388.800	4290.000	0.000	40230.000	40320.000	40070.000	97.848%	82.520
3	18:13:08	383.000	4167.000	0.000	40260.000	40130.000	39500.000	98.909%	82.620
X		95.870%	104.846%	0.000	99.444%	99.132%	98.279%	98.786%	101.551%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.882%	n/a
%RSD		1.335	2.055	0.000	2.021	2.512	2.222	0.893	2.835
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	75.990	78.040	385.700	19240.000	19200.000	77.260	77.430	78.900
2	18:12:25	79.910	81.170	402.300	20240.000	20100.000	80.960	81.700	81.710
3	18:13:08	78.670	81.020	404.500	20060.000	20010.000	80.850	81.210	81.260
X		97.737%	100.095%	99.375%	99.243%	98.857%	99.613%	100.140%	100.784%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.561	2.200	2.589	2.686	2.496	2.646	2.920	1.871
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	79.330	84.080	83.780	79.410	81.270	79.410	0.000	72.950
2	18:12:25	81.610	87.660	88.860	82.410	85.310	84.740	0.000	76.800
3	18:13:08	80.870	85.650	87.520	80.930	83.280	84.180	0.000	75.610
X		100.751%	107.248%	108.397%	101.147%	104.112%	103.473%	0.000	93.900%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.444	2.092	3.037	1.859	2.426	3.535	0.000	2.626
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	97.510%	77.710	79.500	88.363%	78.580	78.530	80.480	79.680
2	18:12:25	98.138%	81.810	83.290	88.290%	82.740	82.660	83.100	83.260
3	18:13:08	100.076%	80.810	82.260	89.912%	81.500	81.290	81.980	82.250
X		98.575%	100.138%	102.104%	88.855%	101.175%	101.031%	102.317%	102.161%
σ		1.337%	n/a	n/a	0.916%	n/a	n/a	n/a	n/a
%RSD		1.357	2.664	2.400	1.031	2.634	2.604	1.604	2.261
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:11:42	91.427%	79.180	78.000	77.840	77.690	77.280	92.004%	92.217%
2	18:12:25	92.536%	83.170	81.470	80.730	81.100	80.990	94.412%	94.551%
3	18:13:08	94.922%	81.780	80.330	79.450	80.160	80.610	95.629%	96.174%
X		92.962%	101.720%	99.918%	99.174%	99.563%	99.536%	94.015%	94.314%
σ		1.786%	n/a	n/a	n/a	n/a	n/a	1.845%	1.989%
%RSD		1.921	2.490	2.217	1.830	2.212	2.561	1.962	2.109
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:11:42	78.710	78.690	76.400	75.520	76.150	86.734%		
2	18:12:25	82.980	83.150	80.580	80.070	80.130	87.547%		
3	18:13:08	81.690	81.660	79.340	79.120	79.090	89.536%		
X		101.408%	101.458%	98.470%	97.797%	98.068%	87.939%		
σ		n/a	n/a	n/a	n/a	n/a	1.442%		
%RSD		2.697	2.797	2.728	3.065	2.632	1.639		



ICB 12/22/2012 6:18:16 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	98.679%	0.018	1.061	0.960	0.000	0.662	0.171	0.115
2	18:19:42	96.974%	-0.032	1.012	0.854	0.000	0.473	0.125	-0.016
3	18:20:25	96.210%	-0.007	0.685	0.760	0.000	0.526	0.236	0.021
X		97.287%	-0.007	0.919	0.858	0.000	0.554	0.177	0.040
σ		1.264%	0.025	0.205	0.100	0.000	0.097	0.056	0.067
%RSD		1.299	348.800	22.260	11.650	0.000	17.550	31.690	167.700
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	-0.628	0.722	0.000	-0.564	-1.463	0.233	107.875%	0.002
2	18:19:42	-0.691	0.293	0.000	-1.473	-0.591	1.232	105.667%	-0.028
3	18:20:25	-0.700	-0.318	0.000	-3.154	-0.383	1.759	106.509%	-0.084
X		-0.673	0.233	0.000	-1.730	-0.812	1.074	106.683%	-0.037
σ		0.039	0.523	0.000	1.314	0.573	0.775	1.115%	0.044
%RSD		5.825	224.800	0.000	75.960	70.580	72.140	1.045	118.500
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	-0.007	-0.014	0.019	5.806	7.903	-0.002	-0.005	-0.041
2	18:19:42	0.003	-0.011	0.009	3.435	6.631	-0.001	-0.017	-0.037
3	18:20:25	-0.017	-0.024	0.009	-0.915	3.277	0.002	-0.009	-0.025
X		-0.007	-0.016	0.013	2.775	5.937	-0.000	-0.011	-0.034
σ		0.010	0.006	0.006	3.408	2.390	0.002	0.006	0.008
%RSD		145.800	39.610	45.830	122.800	40.260	612.500	55.380	24.140
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	-0.040	-0.255	-0.108	0.020	0.310	0.214	0.000	-0.000
2	18:19:42	-0.035	-0.250	-0.211	-0.173	0.243	-0.466	0.000	0.001
3	18:20:25	-0.022	-0.431	-0.241	-0.137	0.010	-0.552	0.000	-0.002
X		-0.032	-0.312	-0.187	-0.096	0.188	-0.268	0.000	-0.000
σ		0.010	0.103	0.070	0.103	0.158	0.419	0.000	0.001
%RSD		29.740	33.130	37.240	106.700	84.130	156.400	0.000	678.400
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	98.058%	0.350	0.358	96.346%	-0.001	0.001	0.092	0.058
2	18:19:42	98.610%	0.297	0.297	96.598%	0.006	0.006	0.026	0.005
3	18:20:25	100.360%	0.225	0.226	98.099%	0.002	0.004	0.011	0.004
X		99.010%	0.291	0.294	97.014%	0.003	0.004	0.043	0.023
σ		1.202%	0.063	0.066	0.948%	0.004	0.002	0.043	0.031
%RSD		1.214	21.530	22.440	0.977	136.600	59.290	101.200	136.100
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:18:59	97.002%	-0.179	-0.063	-0.054	-0.033	-0.002	96.573%	97.122%
2	18:19:42	97.490%	-0.172	-0.064	-0.050	-0.012	0.001	97.853%	98.701%
3	18:20:25	99.616%	-0.278	-0.064	-0.055	-0.018	0.002	100.563%	100.842%
X		98.036%	-0.210	-0.064	-0.053	-0.021	0.000	98.329%	98.888%
σ		1.390%	0.059	0.000	0.002	0.011	0.002	2.037%	1.867%
%RSD		1.418	28.200	0.704	4.697	51.230	534.600	2.072	1.888
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:18:59	-0.003	0.001	0.040	0.028	0.033	96.594%		
2	18:19:42	0.000	0.004	0.020	0.018	0.020	98.380%		
3	18:20:25	-0.004	-0.001	0.003	0.016	0.007	101.673%		
X		-0.002	0.001	0.021	0.021	0.020	98.882%		
σ		0.002	0.002	0.019	0.007	0.013	2.576%		
%RSD		101.100	168.000	89.510	31.560	66.560	2.605		

CRI 668876 12/22/2012 6:22:37 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	92.819%	1.023	5.571	5.767	0.000	99.820	94.770	95.090
2	18:24:03	89.365%	0.937	5.454	6.118	0.000	100.100	96.810	96.910
3	18:24:46	88.488%	0.991	5.766	5.989	0.000	100.100	96.040	95.600
X		90.224%	98.365%	111.941%	119.164%	0.000	99.988%	95.873%	95.869%
σ		2.290%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.538	4.417	2.819	2.984	0.000	0.145	1.071	0.982
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	28.740	502.700	0.000	94.200	106.900	102.600	101.105%	4.713
2	18:24:03	28.560	500.700	0.000	92.000	102.500	104.500	98.652%	4.763
3	18:24:46	28.930	514.300	0.000	95.380	90.360	104.600	96.334%	4.956
X		95.807%	101.180%	0.000	93.860%	99.924%	103.908%	98.697%	96.212%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.386%	n/a
%RSD		0.634	1.449	0.000	1.831	8.581	1.075	2.417	2.674
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	0.922	1.943	4.983	58.520	60.900	0.497	1.070	2.103
2	18:24:03	0.932	2.002	5.001	56.710	58.380	0.499	1.090	2.091
3	18:24:46	0.940	2.034	5.193	59.750	59.960	0.495	1.102	2.090
X		93.129%	99.640%	1011.772%	116.649%	119.498%	99.402%	108.707%	104.734%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.987	2.311	2.308	2.621	2.132	0.386	1.491	0.351
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	2.063	4.903	4.695	0.875	5.509	4.790	0.000	4.926
2	18:24:03	2.144	4.800	4.828	0.868	5.472	4.584	0.000	4.841
3	18:24:46	1.999	4.765	4.886	0.903	5.141	5.310	0.000	4.843
X		103.435%	96.446%	96.057%	88.198%	107.479%	97.887%	0.000	97.401%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.520	1.488	2.044	2.127	3.769	7.648	0.000	0.995
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	93.170%	4.488	4.580	95.517%	1.017	0.993	0.985	1.108
2	18:24:03	94.515%	4.905	4.743	95.998%	0.966	0.996	0.945	1.093
3	18:24:46	94.211%	4.594	4.805	95.781%	0.992	1.009	1.000	1.123
X		93.965%	93.249%	94.189%	95.765%	99.161%	99.909%	97.664%	110.790%
σ		0.705%	n/a	n/a	0.241%	n/a	n/a	n/a	n/a
%RSD		0.751	4.650	2.461	0.252	2.540	0.895	2.893	1.343
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:23:20	95.680%	4.806	1.800	1.855	9.210	9.149	97.526%	97.412%
2	18:24:03	97.849%	5.049	1.859	1.863	9.388	9.430	100.279%	100.370%
3	18:24:46	98.224%	4.775	1.881	1.847	9.077	9.362	99.532%	101.013%
X		97.251%	97.531%	92.338%	92.743%	92.251%	93.135%	99.112%	99.598%
σ		1.374%	n/a	n/a	n/a	n/a	n/a	1.423%	1.921%
%RSD		1.412	3.076	2.265	0.448	1.690	1.568	1.436	1.929
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:23:20	0.910	0.882	0.973	0.947	0.925	99.111%		
2	18:24:03	0.914	0.889	0.923	0.990	0.928	100.796%		
3	18:24:46	0.887	0.903	0.931	0.912	0.944	101.290%		
X		90.380%	89.145%	94.261%	94.950%	93.219%	100.399%		
σ		n/a	n/a	n/a	n/a	n/a	1.142%		
%RSD		1.614	1.183	2.860	4.080	1.139	1.138		

ICSA 668877 12/22/2012 6:27:58 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	70.789%	0.024	0.765	0.665	0.000	103500.000	99420.000	100600.000
2	18:29:24	69.142%	0.001	0.671	0.716	0.000	105300.000	98250.000	100400.000
3	18:30:07	67.511%	-0.006	0.498	0.533	0.000	105500.000	99520.000	100800.000
X		69.147%	0.006	0.644	0.638	0.000	104800.000	99060.000	100600.000
σ		1.639%	0.016	0.136	0.095	0.000	1094.000	706.200	187.400
%RSD		2.371	246.800	21.040	14.810	0.000	1.044	0.713	0.186
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	96820.000	24.490	0.000	101500.000	104900.000	106300.000	78.188%	2255.000
2	18:29:24	98520.000	23.890	0.000	101800.000	105200.000	106300.000	76.602%	2271.000
3	18:30:07	97860.000	23.770	0.000	102900.000	106800.000	108000.000	74.869%	2265.000
X		97740.000	24.050	0.000	102100.000	105600.000	106900.000	76.553%	2264.000
σ		854.900	0.385	0.000	735.800	1040.000	1003.000	1.660%	7.744
%RSD		0.875	1.599	0.000	0.721	0.985	0.939	2.169	0.342
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	-0.392	0.047	0.330	109100.000	108600.000	0.167	0.538	0.991
2	18:29:24	-0.383	0.005	0.329	109400.000	109700.000	0.158	0.607	0.950
3	18:30:07	-0.514	0.035	0.340	110900.000	110200.000	0.163	0.378	0.974
X		-0.430	0.029	0.333	109800.000	109500.000	0.163	0.508	0.972
σ		0.073	0.022	0.006	948.900	791.300	0.004	0.117	0.020
%RSD		17.000	75.210	1.810	0.864	0.723	2.666	23.120	2.088
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	1.449	2.980	1.739	-0.008	0.520	0.133	0.000	4.822
2	18:29:24	1.367	2.877	1.579	0.190	0.726	0.233	0.000	4.865
3	18:30:07	1.342	2.669	1.679	0.273	0.656	0.445	0.000	4.961
X		1.386	2.842	1.666	0.152	0.634	0.270	0.000	4.883
σ		0.056	0.159	0.081	0.144	0.105	0.159	0.000	0.071
%RSD		4.047	5.584	4.881	94.930	16.530	58.920	0.000	1.458
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	77.190%	2241.000	2256.000	74.328%	0.098	0.100	0.573	0.230
2	18:29:24	78.482%	2289.000	2296.000	75.448%	0.118	0.095	0.372	0.160
3	18:30:07	78.526%	2300.000	2310.000	75.250%	0.102	0.102	0.413	0.357
X		78.066%	2277.000	2288.000	75.009%	0.106	0.099	0.452	0.249
σ		0.759%	31.490	28.080	0.598%	0.011	0.004	0.106	0.100
%RSD		0.972	1.383	1.227	0.797	9.967	4.013	23.460	40.190
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:28:41	81.345%	0.041	0.237	0.263	0.235	0.226	84.458%	84.337%
2	18:29:24	83.922%	0.045	0.207	0.271	0.232	0.244	87.681%	88.066%
3	18:30:07	84.178%	-0.073	0.218	0.260	0.206	0.209	88.834%	89.614%
X		83.148%	0.004	0.221	0.265	0.224	0.226	86.991%	87.339%
σ		1.567%	0.066	0.015	0.006	0.016	0.017	2.268%	2.713%
%RSD		1.884	1575.000	6.867	2.115	7.127	7.589	2.608	3.106
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:28:41	-0.003	-0.000	0.201	0.231	0.209	82.628%		
2	18:29:24	-0.004	-0.000	0.185	0.194	0.191	83.814%		
3	18:30:07	-0.004	-0.000	0.194	0.181	0.191	83.936%		
X		-0.004	-0.000	0.194	0.202	0.197	83.460%		
σ		0.000	0.000	0.008	0.026	0.010	0.722%		
%RSD		11.850	26.450	4.147	12.850	5.267	0.866		

ICSAB 668878 12/22/2012 6:32:19 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	66.043%	20.210	47.020	48.940	0.000	102800.000	97360.000	98830.000
2	18:33:44	66.152%	19.270	44.920	45.560	0.000	98590.000	91050.000	93280.000
3	18:34:27	64.405%	20.440	46.370	47.700	0.000	103500.000	96890.000	98600.000
X		65.533%	99.864%	92.207%	94.800%	0.000	101.605%	95.100%	96.905%
σ		0.979%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.493	3.109	2.329	3.603	0.000	2.593	3.699	3.238
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	96660.000	566.400	0.000	99740.000	103500.000	103400.000	75.578%	2204.000
2	18:33:44	91310.000	535.200	0.000	95040.000	99590.000	99810.000	75.046%	2106.000
3	18:34:27	95800.000	557.500	0.000	99310.000	103900.000	105200.000	72.654%	2174.000
X		94.586%	110.604%	0.000	98.032%	102.350%	102.790%	74.426%	108.064%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.558%	n/a
%RSD		3.038	2.901	0.000	2.652	2.346	2.662	2.093	2.340
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	20.850	21.100	21.670	105100.000	105100.000	20.310	19.970	20.170
2	18:33:44	19.880	20.300	20.840	101300.000	101400.000	19.640	18.830	19.450
3	18:34:27	20.900	20.990	22.010	106100.000	105300.000	20.490	20.410	20.220
X		102.719%	103.973%	93.504%	104.183%	103.925%	100.731%	98.684%	99.735%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.796	2.096	2.780	2.412	2.128	2.221	4.128	2.174
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	20.720	23.480	21.430	20.530	53.130	52.260	0.000	24.030
2	18:33:44	19.670	22.110	21.070	19.300	50.130	49.390	0.000	23.390
3	18:34:27	20.580	23.160	21.350	20.280	52.500	51.100	0.000	24.090
X		101.625%	91.673%	85.135%	100.180%	103.840%	101.833%	0.000	119.193%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.806	3.130	0.884	3.229	3.039	2.831	0.000	1.618
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	84.099%	2120.000	2162.000	74.908%	20.010	20.110	20.460	20.130
2	18:33:44	86.710%	2044.000	2104.000	76.641%	19.350	19.100	19.620	19.630
3	18:34:27	85.158%	2140.000	2192.000	75.541%	20.130	20.270	20.890	20.460
X		85.322%	105.070%	107.638%	75.697%	99.156%	99.116%	101.621%	100.378%
σ		1.313%	n/a	n/a	0.876%	n/a	n/a	n/a	n/a
%RSD		1.539	2.393	2.076	1.158	2.124	3.204	3.188	2.084
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:01	83.986%	102.000	20.560	20.390	20.110	20.210	88.501%	89.187%
2	18:33:44	86.538%	99.240	19.690	19.930	19.660	19.340	93.264%	94.293%
3	18:34:27	85.600%	103.400	20.570	20.510	20.370	20.930	91.636%	93.275%
X		85.375%	101.526%	101.365%	101.387%	100.234%	100.806%	91.134%	92.252%
σ		1.291%	n/a	n/a	n/a	n/a	n/a	2.421%	2.703%
%RSD		1.512	2.069	2.469	1.504	1.803	3.936	2.656	2.930
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:33:01	20.820	20.650	21.080	20.960	20.990	85.007%		
2	18:33:44	20.120	20.160	20.530	20.510	20.530	88.863%		
3	18:34:27	21.350	21.530	21.610	21.490	21.590	86.906%		
X		103.818%	103.903%	105.369%	104.938%	105.184%	86.925%		
σ		n/a	n/a	n/a	n/a	n/a	1.928%		
%RSD		2.992	3.323	2.550	2.345	2.541	2.218		

CCV 664806 12/22/2012 6:40:17 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	69.473%	100.000	95.910	95.270	0.000	49280.000	46630.000	47270.000
2	18:41:43	69.584%	99.880	93.240	94.030	0.000	49050.000	46280.000	46930.000
3	18:42:26	67.105%	100.700	96.960	96.700	0.000	50320.000	47070.000	47860.000
X		68.721%	100.198%	95.373%	95.332%	0.000	99.100%	93.316%	94.708%
σ		1.400%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.038	0.448	2.010	1.406	0.000	1.371	0.854	0.991
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	483.500	4949.000	0.000	47090.000	47480.000	48070.000	83.333%	97.710
2	18:41:43	477.900	4898.000	0.000	47180.000	48570.000	48620.000	81.389%	99.170
3	18:42:26	484.400	4981.000	0.000	47550.000	48620.000	49390.000	79.473%	100.900
X		96.386%	98.852%	0.000	94.546%	96.446%	97.390%	81.398%	99.248%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.930%	n/a
%RSD		0.736	0.847	0.000	0.513	1.342	1.359	2.371	1.589
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	96.200	96.910	503.100	24990.000	24810.000	96.340	95.130	93.990
2	18:41:43	97.880	99.100	513.100	25630.000	25470.000	97.690	96.830	96.630
3	18:42:26	99.370	100.000	514.700	26020.000	25580.000	98.270	97.040	95.740
X		97.814%	98.682%	102.061%	102.189%	101.145%	97.431%	96.333%	95.453%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.622	1.623	1.237	2.033	1.629	1.016	1.085	1.410
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	95.010	101.200	101.500	94.070	98.430	97.050	0.000	93.130
2	18:41:43	97.170	102.700	103.200	95.860	101.000	99.070	0.000	94.950
3	18:42:26	97.220	104.600	104.200	97.860	102.400	102.000	0.000	96.870
X		96.464%	102.857%	102.942%	95.928%	100.607%	99.390%	0.000	94.987%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.305	1.661	1.320	1.979	2.011	2.529	0.000	1.969
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	89.355%	97.000	97.090	84.102%	95.210	95.630	98.590	98.830
2	18:41:43	89.317%	100.100	100.300	84.123%	96.770	96.900	99.200	100.100
3	18:42:26	88.732%	101.600	103.300	83.500%	99.050	99.350	102.100	103.000
X		89.135%	99.566%	100.226%	83.908%	97.009%	97.293%	99.949%	100.621%
σ		0.349%	n/a	n/a	0.353%	n/a	n/a	n/a	n/a
%RSD		0.392	2.361	3.099	0.421	1.987	1.944	1.856	2.103
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:00	87.699%	94.810	95.340	95.310	93.390	93.700	92.738%	99.579%
2	18:41:43	89.384%	96.740	96.890	96.170	93.670	93.660	95.111%	101.140%
3	18:42:26	88.141%	100.000	99.670	100.000	97.530	96.510	95.852%	102.237%
X		88.408%	97.196%	97.302%	97.164%	94.866%	94.625%	94.567%	100.985%
σ		0.874%	n/a	n/a	n/a	n/a	n/a	1.627%	1.336%
%RSD		0.988	2.718	2.256	2.578	2.440	1.730	1.720	1.323
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:41:00	93.440	93.580	94.730	94.480	94.400	91.754%		
2	18:41:43	95.270	95.330	96.060	95.810	95.910	93.328%		
3	18:42:26	98.190	97.910	98.440	98.610	98.410	93.958%		
X		95.634%	95.608%	96.408%	96.304%	96.242%	93.013%		
σ		n/a	n/a	n/a	n/a	n/a	1.135%		
%RSD		2.508	2.276	1.948	2.189	2.103	1.220		

CCB1 12/22/2012 6:47:33 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	93.724%	-0.023	0.536	0.489	0.000	1.977	1.113	1.267
2	18:48:59	88.722%	-0.017	0.541	0.493	0.000	2.217	1.173	1.118
3	18:49:42	87.831%	-0.021	0.217	0.379	0.000	1.980	1.272	1.168
X		90.092%	-0.020	0.432	0.453	0.000	2.058	1.186	1.184
σ		3.177%	0.003	0.186	0.065	0.000	0.137	0.081	0.075
%RSD		3.526	14.920	43.010	14.230	0.000	6.670	6.805	6.370
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	-0.046	-1.382	0.000	-2.497	2.890	2.539	90.498%	0.048
2	18:48:59	0.026	-1.465	0.000	-1.745	0.064	3.318	88.002%	0.085
3	18:49:42	0.035	-1.693	0.000	-2.978	4.891	2.793	87.264%	0.011
X		0.005	-1.513	0.000	-2.407	2.615	2.883	88.588%	0.048
σ		0.044	0.161	0.000	0.621	2.425	0.398	1.695%	0.037
%RSD		862.800	10.660	0.000	25.820	92.740	13.790	1.914	77.400
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	0.014	0.033	0.246	9.530	13.580	0.001	-0.005	-0.046
2	18:48:59	0.036	0.046	0.264	7.020	9.652	-0.004	0.030	-0.024
3	18:49:42	-0.004	-0.013	0.242	3.027	7.189	-0.003	-0.005	-0.033
X		0.016	0.022	0.251	6.526	10.140	-0.002	0.007	-0.034
σ		0.020	0.031	0.011	3.279	3.222	0.002	0.020	0.011
%RSD		128.200	140.500	4.532	50.250	31.780	111.400	298.200	31.530
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	-0.027	-0.101	-0.095	-0.111	0.349	-0.520	0.000	0.005
2	18:48:59	-0.038	-0.132	-0.146	-0.018	0.304	-0.166	0.000	0.002
3	18:49:42	-0.038	-0.146	-0.223	-0.054	0.226	-0.239	0.000	0.007
X		-0.035	-0.127	-0.155	-0.061	0.293	-0.308	0.000	0.004
σ		0.006	0.023	0.065	0.047	0.062	0.187	0.000	0.003
%RSD		17.920	18.380	41.660	76.680	21.160	60.650	0.000	58.560
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	91.594%	1.054	1.018	93.566%	0.005	-0.001	-0.068	-0.053
2	18:48:59	92.476%	0.961	1.000	94.236%	-0.002	-0.000	0.014	0.003
3	18:49:42	92.557%	0.881	0.800	94.319%	0.002	0.001	-0.029	-0.016
X		92.209%	0.965	0.939	94.041%	0.002	-0.000	-0.028	-0.022
σ		0.534%	0.087	0.121	0.413%	0.003	0.001	0.041	0.028
%RSD		0.579	8.971	12.870	0.439	202.900	1247.000	146.800	128.700
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:48:16	96.958%	-0.141	-0.036	-0.039	-0.018	0.004	102.679%	104.053%
2	18:48:59	98.607%	-0.191	-0.029	-0.051	-0.033	0.005	104.303%	105.815%
3	18:49:42	99.474%	-0.280	-0.053	-0.054	-0.021	0.007	105.955%	107.403%
X		98.347%	-0.204	-0.039	-0.048	-0.024	0.005	104.312%	105.757%
σ		1.278%	0.070	0.012	0.008	0.008	0.002	1.638%	1.676%
%RSD		1.300	34.440	31.070	15.960	34.190	36.810	1.570	1.585
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:48:16	0.003	0.008	0.032	0.023	0.026	106.734%		
2	18:48:59	0.006	0.009	0.012	0.016	0.011	108.710%		
3	18:49:42	0.007	0.009	0.015	0.007	0.013	110.518%		
X		0.006	0.009	0.020	0.016	0.017	108.654%		
σ		0.002	0.001	0.011	0.008	0.008	1.893%		
%RSD		43.340	5.957	53.270	53.100	48.480	1.742		

240-17602-F-8-A 12/22/2012 6:51:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	71.270%	7.308	31.570	32.120	0.000	572.400	46080.000	47650.000
2	18:53:18	72.389%	7.318	32.840	32.970	0.000	576.600	46300.000	48090.000
3	18:54:01	74.446%	7.234	31.790	32.480	0.000	561.500	45910.000	47660.000
x		72.702%	7.287	32.070	32.520	0.000	570.100	46100.000	47800.000
σ		1.611%	0.046	0.676	0.427	0.000	7.787	192.200	250.900
%RSD		2.216	0.634	2.109	1.313	0.000	1.366	0.417	0.525
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	130500.000	1753.000	0.000	13310.000	102700.000	104300.000	86.215%	663.100
2	18:53:18	133000.000	1801.000	0.000	13730.000	105000.000	106300.000	85.225%	673.600
3	18:54:01	130500.000	1774.000	0.000	13610.000	104700.000	106200.000	85.360%	681.000
x		131300.000	1776.000	0.000	13550.000	104100.000	105600.000	85.600%	672.600
σ		1452.000	23.830	0.000	219.200	1251.000	1115.000	0.537%	8.959
%RSD		1.105	1.342	0.000	1.618	1.201	1.056	0.627	1.332
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	221.900	216.600	3035.000	289400.000	300200.000	126.300	300.800	213.400
2	18:53:18	227.900	224.000	3094.000	293900.000	307000.000	129.000	305.100	217.700
3	18:54:01	229.100	224.300	3108.000	294100.000	307000.000	129.200	306.900	218.500
x		226.300	221.600	3079.000	292400.000	304700.000	128.200	304.200	216.600
σ		3.843	4.349	38.880	2633.000	3891.000	1.608	3.147	2.780
%RSD		1.698	1.962	1.263	0.900	1.277	1.255	1.034	1.284
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	213.800	649.600	660.300	126.900	3.132	6.286	0.000	199.000
2	18:53:18	219.500	662.100	669.200	128.500	3.051	6.482	0.000	201.900
3	18:54:01	218.300	659.900	675.000	130.000	3.203	6.988	0.000	201.800
x		217.200	657.200	668.200	128.500	3.129	6.585	0.000	200.900
σ		3.039	6.696	7.386	1.540	0.076	0.362	0.000	1.686
%RSD		1.399	1.019	1.105	1.198	2.440	5.499	0.000	0.840
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	0.000	18.460	18.500	78.013%	0.384	0.268	2.191	1.651
2	18:53:18	0.000	18.770	18.710	78.467%	0.372	0.245	2.316	1.690
3	18:54:01	0.000	18.930	18.590	78.385%	0.403	0.235	2.208	1.674
x		0.000	18.720	18.600	78.288%	0.386	0.250	2.238	1.671
σ		0.000	0.239	0.106	0.242%	0.016	0.017	0.068	0.019
%RSD		0.000	1.278	0.569	0.308	4.025	6.680	3.019	1.161
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:52:35	84.449%	17.670	1.476	1.503	775.500	778.800	95.409%	94.724%
2	18:53:18	85.513%	17.020	1.369	1.400	782.400	777.800	95.416%	94.601%
3	18:54:01	85.395%	16.140	1.328	1.385	792.500	789.500	94.849%	94.226%
x		85.119%	16.940	1.391	1.429	783.500	782.000	95.225%	94.517%
σ		0.583%	0.769	0.077	0.065	8.553	6.502	0.325%	0.259%
%RSD		0.685	4.542	5.513	4.517	1.092	0.831	0.342	0.274
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:52:35	1.989	2.030	155.600	154.000	154.400	79.846%		
2	18:53:18	2.010	2.051	157.400	155.900	156.400	79.453%		
3	18:54:01	2.138	2.090	158.100	156.500	157.400	78.853%		
x		2.046	2.057	157.000	155.500	156.000	79.384%		
σ		0.081	0.030	1.301	1.279	1.548	0.500%		
%RSD		3.952	1.469	0.829	0.823	0.992	0.630		

240-17602-F-10-A 12/22/2012 6:56:09 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	77.601%	6.580	67.100	66.640	0.000	752.100	55440.000	57650.000
2	18:57:34	79.725%	6.617	65.110	66.120	0.000	751.900	54850.000	57160.000
3	18:58:17	74.217%	6.848	66.030	67.580	0.000	761.000	55750.000	59060.000
X		77.181%	6.682	66.080	66.780	0.000	755.000	55350.000	57960.000
σ		2.778%	0.146	0.999	0.740	0.000	5.217	455.100	982.100
%RSD		3.599	2.180	1.512	1.109	0.000	0.691	0.822	1.694
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	123200.000	3365.000	0.000	19070.000	137200.000	138500.000	87.338%	779.500
2	18:57:34	121500.000	3283.000	0.000	18980.000	138900.000	140900.000	86.675%	780.600
3	18:58:17	124200.000	3383.000	0.000	18820.000	137900.000	140600.000	84.347%	779.900
X		123000.000	3344.000	0.000	18960.000	138000.000	140000.000	86.120%	780.000
σ		1355.000	53.620	0.000	128.300	850.600	1283.000	1.571%	0.531
%RSD		1.102	1.604	0.000	0.677	0.617	0.916	1.824	0.068
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	206.800	210.500	3745.000	291000.000	304800.000	132.400	319.500	200.700
2	18:57:34	209.000	212.800	3803.000	295700.000	308800.000	134.700	320.600	203.800
3	18:58:17	208.400	212.700	3832.000	296400.000	308400.000	134.500	325.900	205.700
X		208.100	212.000	3793.000	294400.000	307300.000	133.900	322.000	203.400
σ		1.118	1.276	44.110	2948.000	2154.000	1.261	3.434	2.517
%RSD		0.537	0.602	1.163	1.001	0.701	0.942	1.066	1.237
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	203.400	649.900	658.900	143.500	2.634	5.713	0.000	253.100
2	18:57:34	204.700	654.000	667.400	145.900	2.408	5.567	0.000	256.000
3	18:58:17	207.000	658.900	670.100	146.100	2.667	6.008	0.000	259.600
X		205.100	654.300	665.500	145.200	2.570	5.763	0.000	256.200
σ		1.834	4.530	5.808	1.441	0.141	0.225	0.000	3.275
%RSD		0.894	0.692	0.873	0.992	5.497	3.896	0.000	1.278
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	0.000	13.240	13.140	75.649%	0.425	0.249	2.024	1.530
2	18:57:34	0.000	13.060	13.260	76.019%	0.411	0.252	1.905	1.365
3	18:58:17	0.000	13.090	13.280	76.391%	0.402	0.255	1.946	1.404
X		0.000	13.130	13.230	76.019%	0.413	0.252	1.958	1.433
σ		0.000	0.095	0.078	0.371%	0.012	0.003	0.061	0.086
%RSD		0.000	0.723	0.591	0.488	2.851	1.185	3.105	6.033
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:56:52	80.897%	23.180	1.266	1.249	661.500	658.800	89.339%	87.838%
2	18:57:34	82.263%	23.020	1.192	1.191	666.400	665.500	90.217%	88.858%
3	18:58:17	82.273%	22.770	1.143	1.147	671.700	669.900	92.418%	90.954%
X		81.811%	22.990	1.200	1.196	666.500	664.700	90.658%	89.217%
σ		0.792%	0.208	0.062	0.051	5.093	5.576	1.586%	1.589%
%RSD		0.968	0.904	5.161	4.258	0.764	0.839	1.750	1.781
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:56:52	1.761	1.796	154.600	153.600	153.700	71.570%		
2	18:57:34	1.809	1.823	156.600	154.600	155.900	72.971%		
3	18:58:17	1.738	1.759	152.500	150.900	151.600	76.363%		
X		1.769	1.793	154.600	153.000	153.800	73.635%		
σ		0.036	0.032	2.067	1.925	2.157	2.465%		
%RSD		2.056	1.767	1.337	1.258	1.403	3.347		



240-17467-G-4-A@10 12/22/2012 7:00:25 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	89.539%	1.269	7.234	7.340	0.000	197.700	2859.000	3541.000
2	19:01:51	89.148%	1.207	7.214	7.474	0.000	198.500	2776.000	3567.000
3	19:02:34	87.588%	1.242	7.059	7.329	0.000	202.000	3193.000	3560.000
X		88.759%	1.239	7.169	7.381	0.000	199.400	2943.000	3556.000
σ		1.032%	0.031	0.096	0.081	0.000	2.272	221.100	13.680
%RSD		1.163	2.517	1.339	1.095	0.000	1.139	7.513	0.385
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	10140.000	458.400	0.000	749.900	30090.000	30640.000	96.861%	83.380
2	19:01:51	10290.000	461.500	0.000	748.700	29960.000	30700.000	96.712%	83.790
3	19:02:34	10290.000	468.300	0.000	776.800	31000.000	30830.000	95.033%	83.290
X		10240.000	462.700	0.000	758.500	30350.000	30730.000	96.202%	83.490
σ		83.790	5.027	0.000	15.890	566.200	95.500	1.015%	0.265
%RSD		0.819	1.086	0.000	2.095	1.865	0.311	1.055	0.317
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	9.640	13.440	2677.000	12830.000	12620.000	6.573	13.800	14.260
2	19:01:51	9.438	13.310	2707.000	12780.000	12670.000	6.671	13.960	14.520
3	19:02:34	9.642	13.720	2744.000	12990.000	13010.000	6.922	14.140	14.790
X		9.574	13.490	2709.000	12870.000	12760.000	6.722	13.970	14.520
σ		0.117	0.211	33.640	110.400	213.200	0.180	0.172	0.268
%RSD		1.224	1.567	1.242	0.858	1.670	2.673	1.233	1.847
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	14.650	94.220	95.590	5.928	0.362	-0.505	0.000	63.180
2	19:01:51	14.870	94.280	94.040	6.010	0.343	-0.618	0.000	64.250
3	19:02:34	14.700	95.510	96.250	6.056	0.361	-0.261	0.000	64.660
X		14.740	94.670	95.290	5.998	0.355	-0.461	0.000	64.030
σ		0.113	0.727	1.136	0.065	0.011	0.183	0.000	0.764
%RSD		0.767	0.768	1.193	1.076	3.084	39.660	0.000	1.194
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	101.174%	0.944	0.803	93.914%	1.518	1.529	0.546	0.550
2	19:01:51	102.419%	0.815	0.848	94.784%	1.562	1.603	0.556	0.503
3	19:02:34	102.910%	0.798	0.830	95.444%	1.550	1.550	0.512	0.524
X		102.168%	0.852	0.827	94.714%	1.543	1.561	0.538	0.526
σ		0.895%	0.080	0.023	0.767%	0.023	0.038	0.023	0.023
%RSD		0.876	9.362	2.749	0.810	1.474	2.459	4.289	4.466
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:01:08	96.509%	0.933	0.140	0.130	83.950	84.800	98.231%	98.734%
2	19:01:51	98.196%	1.005	0.139	0.131	84.740	85.450	100.884%	101.559%
3	19:02:34	99.002%	1.020	0.135	0.124	85.310	86.050	102.321%	102.827%
X		97.902%	0.986	0.138	0.128	84.670	85.440	100.479%	101.040%
σ		1.272%	0.046	0.002	0.004	0.684	0.622	2.075%	2.095%
%RSD		1.299	4.685	1.750	3.138	0.808	0.728	2.065	2.074
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:01:08	0.091	0.087	20.290	19.940	19.940	94.368%		
2	19:01:51	0.088	0.093	20.580	20.070	20.200	97.575%		
3	19:02:34	0.086	0.080	20.270	19.970	20.080	99.139%		
X		0.088	0.087	20.380	19.990	20.080	97.028%		
σ		0.002	0.007	0.176	0.068	0.132	2.432%		
%RSD		2.738	7.990	0.864	0.339	0.655	2.507		

MB 180-59053/1-A 12/22/2012 7:08:21 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	119.515%	-0.014	0.116	0.203	0.000	5.942	5.760	5.903
2	19:09:47	115.558%	-0.016	0.142	0.165	0.000	5.449	6.024	6.257
3	19:10:30	110.510%	-0.031	0.062	0.149	0.000	5.379	6.100	6.446
X		115.195%	-0.020	0.107	0.172	0.000	5.590	5.962	6.202
σ		4.513%	0.009	0.041	0.028	0.000	0.307	0.178	0.276
%RSD		3.918	46.530	38.440	16.100	0.000	5.486	2.993	4.443
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	6.063	-0.246	0.000	0.204	15.400	23.530	120.348%	0.002
2	19:09:47	6.922	-0.127	0.000	-1.440	21.730	20.490	118.829%	0.057
3	19:10:30	7.286	0.109	0.000	-1.137	19.580	22.370	116.596%	0.016
X		6.757	-0.088	0.000	-0.791	18.910	22.130	118.591%	0.025
σ		0.628	0.180	0.000	0.875	3.218	1.537	1.887%	0.029
%RSD		9.297	205.000	0.000	110.600	17.020	6.945	1.591	114.600
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	-0.081	0.171	0.223	23.300	20.920	-0.009	0.017	0.056
2	19:09:47	-0.051	0.148	0.307	22.670	20.700	-0.006	0.015	0.039
3	19:10:30	-0.126	0.143	0.378	24.500	20.090	-0.004	0.013	0.019
X		-0.086	0.154	0.303	23.490	20.570	-0.006	0.015	0.038
σ		0.038	0.015	0.077	0.927	0.431	0.003	0.002	0.019
%RSD		44.050	9.851	25.530	3.947	2.094	44.040	14.910	48.950
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	0.055	0.347	0.563	-0.167	-0.001	-0.640	0.000	0.052
2	19:09:47	0.070	0.486	0.574	-0.223	0.067	-0.442	0.000	0.063
3	19:10:30	0.028	0.350	0.579	-0.162	0.123	-0.668	0.000	0.061
X		0.051	0.395	0.572	-0.184	0.063	-0.584	0.000	0.059
σ		0.021	0.079	0.008	0.034	0.062	0.123	0.000	0.006
%RSD		41.590	20.140	1.404	18.370	97.980	21.090	0.000	9.983
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	102.614%	0.160	0.151	102.682%	-0.008	-0.012	-0.003	-0.004
2	19:09:47	104.257%	0.119	0.146	104.554%	-0.010	-0.008	-0.038	-0.033
3	19:10:30	104.738%	0.137	0.127	105.125%	-0.008	-0.009	-0.005	0.003
X		103.869%	0.139	0.141	104.121%	-0.009	-0.010	-0.016	-0.011
σ		1.114%	0.020	0.012	1.278%	0.001	0.002	0.019	0.019
%RSD		1.072	14.710	8.676	1.227	13.290	17.400	125.300	170.900
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:04	101.578%	1.765	-0.093	-0.086	0.140	0.136	101.608%	101.163%
2	19:09:47	103.670%	1.606	-0.092	-0.079	0.143	0.146	104.532%	104.347%
3	19:10:30	104.769%	1.349	-0.094	-0.084	0.129	0.111	105.401%	105.699%
X		103.339%	1.573	-0.093	-0.083	0.137	0.131	103.847%	103.736%
σ		1.621%	0.210	0.001	0.004	0.007	0.018	1.987%	2.329%
%RSD		1.569	13.340	1.448	4.298	5.373	13.740	1.913	2.245
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:09:04	-0.012	-0.009	0.068	0.068	0.065	100.241%		
2	19:09:47	-0.010	-0.010	0.060	0.086	0.063	103.514%		
3	19:10:30	-0.013	-0.010	0.053	0.055	0.052	104.986%		
X		-0.011	-0.010	0.061	0.070	0.060	102.914%		
σ		0.001	0.000	0.008	0.016	0.007	2.429%		
%RSD		12.510	4.446	12.630	22.600	11.390	2.360		

LCS 180-59053/2-A 12/22/2012 7:12:38 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	85.193%	851.600	81.050	81.960	0.000	8952.000	8478.000	8808.000
2	19:14:04	83.832%	852.700	81.220	81.450	0.000	8889.000	8433.000	8826.000
3	19:14:47	81.641%	849.000	80.240	82.990	0.000	8915.000	8396.000	8780.000
X		83.555%	851.100	80.840	82.140	0.000	8919.000	8436.000	8805.000
σ		1.792%	1.895	0.525	0.785	0.000	31.780	41.490	23.250
%RSD		2.145	0.223	0.650	0.956	0.000	0.356	0.492	0.264
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	8664.000	23.260	0.000	8638.000	9590.000	9069.000	93.766%	89.830
2	19:14:04	8622.000	23.960	0.000	8675.000	9677.000	9156.000	89.845%	89.760
3	19:14:47	8619.000	23.530	0.000	8534.000	9578.000	9179.000	88.856%	90.770
X		8635.000	23.580	0.000	8616.000	9615.000	9135.000	90.823%	90.120
σ		25.420	0.354	0.000	73.340	54.040	58.090	2.597%	0.563
%RSD		0.294	1.503	0.000	0.851	0.562	0.636	2.859	0.625
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	904.900	926.200	947.800	9653.000	9398.000	920.700	913.800	853.800
2	19:14:04	909.000	932.400	949.900	9601.000	9365.000	913.800	913.700	862.400
3	19:14:47	922.200	939.900	950.900	9532.000	9384.000	917.100	901.800	846.700
X		912.000	932.800	949.500	9595.000	9383.000	917.200	909.800	854.300
σ		9.017	6.827	1.563	60.970	16.650	3.475	6.896	7.867
%RSD		0.989	0.732	0.165	0.635	0.177	0.379	0.758	0.921
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	925.800	877.900	881.500	841.000	818.100	826.100	0.000	908.400
2	19:14:04	920.900	884.800	895.300	846.600	821.700	830.300	0.000	914.100
3	19:14:47	913.100	875.800	886.200	827.000	805.000	814.400	0.000	908.300
X		919.900	879.500	887.700	838.200	814.900	823.600	0.000	910.200
σ		6.377	4.705	7.020	10.100	8.750	8.248	0.000	3.310
%RSD		0.693	0.535	0.791	1.204	1.074	1.001	0.000	0.364
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	89.615%	89.360	88.430	89.470%	92.120	92.850	865.500	880.500
2	19:14:04	89.117%	90.840	90.220	88.736%	92.690	93.260	870.200	883.900
3	19:14:47	88.761%	90.460	90.430	88.729%	92.200	93.000	869.100	877.300
X		89.164%	90.220	89.690	88.979%	92.340	93.040	868.200	880.500
σ		0.429%	0.772	1.102	0.425%	0.309	0.205	2.461	3.295
%RSD		0.481	0.856	1.228	0.478	0.334	0.220	0.283	0.374
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:21	92.087%	95.900	83.860	83.250	860.800	864.200	96.927%	97.977%
2	19:14:04	92.285%	96.340	84.430	83.870	861.600	867.400	98.420%	99.312%
3	19:14:47	92.487%	95.610	84.200	83.920	857.200	860.500	98.456%	99.765%
X		92.286%	95.950	84.160	83.680	859.900	864.000	97.934%	99.018%
σ		0.200%	0.367	0.290	0.372	2.357	3.448	0.873%	0.929%
%RSD		0.217	0.383	0.345	0.445	0.274	0.399	0.891	0.939
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:13:21	218.300	217.500	874.000	913.000	895.200	90.190%		
2	19:14:04	220.000	219.300	879.600	919.700	898.900	92.084%		
3	19:14:47	217.600	216.300	859.000	898.300	881.700	93.711%		
X		218.600	217.700	870.900	910.300	891.900	91.995%		
σ		1.252	1.536	10.630	10.970	9.035	1.762%		
%RSD		0.573	0.706	1.221	1.206	1.013	1.915		

240-17602-F-11-A 12/22/2012 7:19:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	86.038%	5.184	22.980	23.480	0.000	426.400	31770.000	33320.000
2	19:21:18	83.474%	5.289	23.140	23.470	0.000	435.000	32500.000	33990.000
3	19:22:01	82.957%	5.323	23.620	24.490	0.000	439.400	33070.000	34220.000
X		84.156%	5.265	23.250	23.810	0.000	433.600	32450.000	33840.000
σ		1.650%	0.073	0.331	0.585	0.000	6.635	654.900	463.800
%RSD		1.961	1.382	1.424	2.456	0.000	1.530	2.018	1.370
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	95890.000	2051.000	0.000	10270.000	26080.000	26660.000	97.758%	569.700
2	19:21:18	96510.000	2081.000	0.000	10210.000	26050.000	26840.000	97.024%	579.000
3	19:22:01	96400.000	2124.000	0.000	10360.000	27040.000	27380.000	94.385%	594.700
X		96270.000	2086.000	0.000	10280.000	26390.000	26960.000	96.389%	581.100
σ		333.800	36.600	0.000	74.370	562.600	374.700	1.774%	12.650
%RSD		0.347	1.755	0.000	0.723	2.132	1.390	1.841	2.178
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	153.500	153.200	2646.000	245000.000	254700.000	105.700	244.300	207.200
2	19:21:18	155.300	153.800	2685.000	247300.000	257200.000	108.300	250.900	210.900
3	19:22:01	157.600	158.200	2720.000	251800.000	261000.000	109.200	252.900	213.800
X		155.500	155.000	2684.000	248000.000	257600.000	107.700	249.300	210.600
σ		2.102	2.757	37.140	3500.000	3125.000	1.820	4.512	3.340
%RSD		1.352	1.778	1.384	1.411	1.213	1.689	1.809	1.586
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	208.600	583.600	590.300	129.100	3.743	7.532	0.000	82.830
2	19:21:18	213.200	591.400	602.100	130.800	3.266	6.581	0.000	83.850
3	19:22:01	214.800	603.000	613.800	133.000	2.888	6.521	0.000	86.320
X		212.200	592.700	602.100	131.000	3.299	6.878	0.000	84.330
σ		3.226	9.769	11.750	1.967	0.428	0.567	0.000	1.797
%RSD		1.520	1.648	1.951	1.502	12.990	8.243	0.000	2.130
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	0.000	11.290	11.490	84.694%	0.244	0.109	1.760	1.381
2	19:21:18	0.000	11.380	11.540	85.956%	0.217	0.120	1.746	1.343
3	19:22:01	0.000	11.530	11.920	84.041%	0.249	0.129	1.821	1.402
X		0.000	11.400	11.650	84.897%	0.237	0.119	1.775	1.375
σ		0.000	0.122	0.233	0.973%	0.017	0.010	0.040	0.030
%RSD		0.000	1.069	2.001	1.146	7.258	8.081	2.232	2.180
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:35	88.392%	9.242	0.791	0.772	456.500	456.000	96.305%	95.129%
2	19:21:18	89.890%	9.103	0.761	0.813	461.400	459.800	98.739%	97.250%
3	19:22:01	88.695%	9.468	0.762	0.788	472.600	468.400	97.673%	96.329%
X		88.992%	9.271	0.772	0.791	463.500	461.400	97.572%	96.236%
σ		0.792%	0.184	0.017	0.020	8.280	6.353	1.220%	1.063%
%RSD		0.890	1.989	2.212	2.587	1.786	1.377	1.250	1.105
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:20:35	1.780	1.790	117.300	115.400	116.200	80.423%		
2	19:21:18	1.777	1.794	119.600	117.400	118.600	81.509%		
3	19:22:01	1.758	1.739	121.800	120.300	120.900	81.534%		
X		1.772	1.774	119.600	117.700	118.500	81.155%		
σ		0.012	0.031	2.228	2.458	2.373	0.634%		
%RSD		0.669	1.740	1.863	2.088	2.002	0.781		

240-17602-F-11-A SD@5 12/22/2012 7:24:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	90.473%	1.144	5.039	5.207	0.000	82.970	6535.000	6808.000
2	19:25:36	86.953%	1.080	5.338	5.296	0.000	85.310	6629.000	6918.000
3	19:26:19	86.282%	1.021	4.676	4.955	0.000	78.790	6100.000	6453.000
X		87.903%	1.082	5.018	5.152	0.000	82.360	6421.000	6726.000
σ		2.251%	0.061	0.332	0.177	0.000	3.302	282.200	242.800
%RSD		2.561	5.660	6.609	3.431	0.000	4.010	4.395	3.609
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	19430.000	444.300	0.000	2110.000	5336.000	5302.000	98.931%	117.200
2	19:25:36	19850.000	457.700	0.000	2134.000	5442.000	5445.000	95.910%	120.500
3	19:26:19	18690.000	430.000	0.000	1962.000	5016.000	4965.000	96.613%	110.000
X		19320.000	444.000	0.000	2069.000	5265.000	5237.000	97.152%	115.900
σ		587.000	13.820	0.000	92.780	221.500	246.400	1.581%	5.371
%RSD		3.038	3.112	0.000	4.485	4.207	4.705	1.627	4.633
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	30.170	31.080	532.700	52100.000	50970.000	20.720	49.890	42.710
2	19:25:36	31.110	31.390	541.800	52680.000	51720.000	20.950	49.490	42.940
3	19:26:19	28.370	29.110	503.900	49290.000	48230.000	19.690	46.330	39.890
X		29.890	30.530	526.200	51360.000	50310.000	20.450	48.570	41.850
σ		1.395	1.238	19.760	1813.000	1840.000	0.672	1.952	1.700
%RSD		4.667	4.055	3.755	3.530	3.658	3.286	4.020	4.061
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	42.440	126.800	128.000	25.930	0.201	-0.688	0.000	14.190
2	19:25:36	41.800	128.500	130.500	26.530	0.215	-0.687	0.000	14.340
3	19:26:19	39.750	120.800	123.200	24.470	-0.013	-0.987	0.000	13.490
X		41.330	125.400	127.200	25.640	0.134	-0.787	0.000	14.010
σ		1.403	4.045	3.707	1.056	0.128	0.173	0.000	0.453
%RSD		3.396	3.227	2.913	4.117	95.140	21.980	0.000	3.235
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	109.780%	2.067	2.185	94.574%	0.038	0.016	0.374	0.290
2	19:25:36	109.806%	2.087	2.187	93.308%	0.038	0.012	0.283	0.239
3	19:26:19	111.272%	1.972	1.978	96.151%	0.036	0.011	0.159	0.133
X		110.286%	2.042	2.117	94.678%	0.037	0.013	0.272	0.221
σ		0.854%	0.061	0.120	1.424%	0.001	0.003	0.108	0.080
%RSD		0.774	3.007	5.685	1.505	3.224	21.490	39.710	36.330
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:24:53	95.742%	1.159	0.095	0.110	92.750	93.480	99.462%	99.631%
2	19:25:36	96.024%	1.301	0.104	0.099	94.680	94.890	100.486%	100.923%
3	19:26:19	99.044%	1.188	0.074	0.086	87.670	88.120	104.827%	105.041%
X		96.937%	1.216	0.091	0.098	91.700	92.160	101.592%	101.865%
σ		1.830%	0.075	0.016	0.012	3.621	3.574	2.848%	2.825%
%RSD		1.888	6.143	17.200	11.810	3.949	3.878	2.804	2.774
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:24:53	0.427	0.413	22.880	22.510	22.690	92.682%		
2	19:25:36	0.393	0.392	23.190	22.780	22.870	95.175%		
3	19:26:19	0.347	0.355	21.400	20.930	21.090	100.529%		
X		0.389	0.386	22.490	22.070	22.220	96.129%		
σ		0.040	0.029	0.957	1.000	0.980	4.009%		
%RSD		10.230	7.558	4.255	4.531	4.410	4.171		

240-17602-F-11-B DU 12/22/2012 7:28:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	80.062%	5.372	23.790	24.200	0.000	422.700	31280.000	32420.000
2	19:29:55	77.011%	5.321	24.250	24.150	0.000	423.300	31600.000	32940.000
3	19:30:38	76.317%	5.441	25.140	25.110	0.000	417.800	31170.000	32360.000
X		77.797%	5.378	24.390	24.490	0.000	421.300	31350.000	32570.000
σ		1.992%	0.060	0.684	0.544	0.000	3.043	226.100	318.700
%RSD		2.561	1.123	2.804	2.221	0.000	0.722	0.721	0.979
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	94750.000	1693.000	0.000	10250.000	24480.000	25120.000	90.854%	498.700
2	19:29:55	95080.000	1724.000	0.000	10270.000	24910.000	25360.000	87.327%	503.700
3	19:30:38	93970.000	1685.000	0.000	10120.000	24460.000	25270.000	86.514%	498.700
X		94600.000	1701.000	0.000	10210.000	24620.000	25250.000	88.232%	500.400
σ		568.600	20.380	0.000	78.280	253.900	118.600	2.307%	2.903
%RSD		0.601	1.199	0.000	0.766	1.031	0.470	2.615	0.580
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	149.000	152.200	2797.000	241900.000	249100.000	104.400	242.800	204.500
2	19:29:55	148.300	151.600	2825.000	246200.000	250700.000	104.600	241.600	208.400
3	19:30:38	148.900	151.900	2829.000	245000.000	252100.000	106.200	244.600	207.100
X		148.700	151.900	2817.000	244400.000	250600.000	105.100	243.000	206.700
σ		0.350	0.276	17.560	2264.000	1524.000	0.972	1.508	1.976
%RSD		0.235	0.182	0.623	0.926	0.608	0.925	0.621	0.956
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	205.100	603.200	607.100	130.300	2.153	4.609	0.000	81.370
2	19:29:55	207.300	613.200	618.300	131.900	2.582	5.353	0.000	82.480
3	19:30:38	207.100	615.300	623.100	130.300	2.250	5.149	0.000	83.070
X		206.500	610.500	616.200	130.800	2.328	5.037	0.000	82.310
σ		1.205	6.487	8.174	0.924	0.225	0.384	0.000	0.863
%RSD		0.584	1.062	1.327	0.706	9.670	7.631	0.000	1.048
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	0.000	10.510	10.720	79.913%	0.247	0.119	1.943	1.430
2	19:29:55	0.000	10.510	10.730	79.198%	0.250	0.119	1.899	1.427
3	19:30:38	0.000	10.760	11.080	78.671%	0.252	0.120	1.803	1.393
X		0.000	10.590	10.840	79.261%	0.249	0.119	1.882	1.417
σ		0.000	0.146	0.203	0.624%	0.003	0.001	0.072	0.020
%RSD		0.000	1.380	1.872	0.787	1.033	0.551	3.801	1.427
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:29:12	83.390%	7.068	0.734	0.770	430.200	428.100	92.838%	91.479%
2	19:29:55	83.854%	7.064	0.779	0.764	428.300	430.000	94.019%	92.487%
3	19:30:38	83.850%	7.031	0.729	0.729	431.300	430.700	94.256%	92.859%
X		83.698%	7.054	0.747	0.754	429.900	429.600	93.704%	92.275%
σ		0.267%	0.020	0.028	0.022	1.489	1.353	0.759%	0.714%
%RSD		0.319	0.290	3.686	2.917	0.346	0.315	0.810	0.774
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:29:12	1.545	1.496	136.400	135.000	136.100	78.307%		
2	19:29:55	1.559	1.522	136.600	136.200	136.300	80.469%		
3	19:30:38	1.565	1.551	137.600	136.800	137.400	80.613%		
X		1.556	1.523	136.800	136.000	136.600	79.797%		
σ		0.010	0.027	0.647	0.881	0.700	1.292%		
%RSD		0.663	1.782	0.473	0.648	0.513	1.619		

240-17602-F-11-C MS 12/22/2012 7:32:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	78.140%	86.900	99.130	100.400	0.000	9039.000	41170.000	42630.000
2	19:34:14	76.842%	86.730	102.400	103.600	0.000	9027.000	41590.000	43600.000
3	19:34:57	75.958%	89.040	101.700	105.300	0.000	9128.000	42190.000	44000.000
X		76.980%	87.550	101.100	103.100	0.000	9065.000	41650.000	43410.000
σ		1.098%	1.292	1.726	2.471	0.000	55.200	511.800	705.400
%RSD		1.426	1.475	1.707	2.397	0.000	0.609	1.229	1.625
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	118500.000	3613.000	0.000	20300.000	32530.000	33440.000	89.388%	645.100
2	19:34:14	121400.000	3683.000	0.000	20700.000	33320.000	33740.000	86.309%	662.400
3	19:34:57	121800.000	3684.000	0.000	21070.000	33410.000	34280.000	85.636%	662.700
X		120600.000	3660.000	0.000	20690.000	33080.000	33820.000	87.111%	656.700
σ		1777.000	41.100	0.000	384.700	484.900	423.100	2.000%	10.060
%RSD		1.474	1.123	0.000	1.860	1.466	1.251	2.296	1.532
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	264.600	252.900	2896.000	259500.000	269000.000	195.700	332.900	290.200
2	19:34:14	272.600	260.600	2998.000	267400.000	276400.000	200.000	341.400	296.800
3	19:34:57	273.200	263.600	3001.000	269400.000	278300.000	201.900	343.700	299.100
X		270.100	259.000	2965.000	265500.000	274500.000	199.200	339.400	295.400
σ		4.803	5.482	59.900	5234.000	4916.000	3.177	5.666	4.631
%RSD		1.778	2.116	2.020	1.972	1.791	1.595	1.670	1.568
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	292.700	669.900	677.200	208.200	72.570	76.870	0.000	186.600
2	19:34:14	296.000	687.900	696.300	213.000	74.270	78.520	0.000	190.900
3	19:34:57	301.200	697.700	704.300	215.300	75.670	79.260	0.000	192.700
X		296.600	685.200	692.600	212.200	74.170	78.220	0.000	190.100
σ		4.271	14.140	13.930	3.619	1.552	1.228	0.000	3.179
%RSD		1.440	2.064	2.011	1.706	2.093	1.570	0.000	1.672
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	0.000	95.430	95.500	76.712%	85.170	85.240	84.600	83.350
2	19:34:14	0.000	97.380	97.620	76.834%	86.820	86.250	85.020	84.410
3	19:34:57	0.000	98.110	98.030	76.407%	87.560	87.400	85.700	85.440
X		0.000	96.970	97.050	76.651%	86.520	86.300	85.110	84.400
σ		0.000	1.387	1.358	0.220%	1.223	1.080	0.554	1.042
%RSD		0.000	1.430	1.399	0.288	1.414	1.251	0.651	1.234
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:31	80.938%	81.920	21.860	21.500	554.400	555.800	90.420%	88.945%
2	19:34:14	81.522%	83.090	22.350	22.000	564.600	563.400	91.422%	90.542%
3	19:34:57	81.049%	83.950	22.460	22.400	567.800	568.700	91.579%	90.756%
X		81.170%	82.990	22.220	21.970	562.300	562.600	91.140%	90.081%
σ		0.310%	1.019	0.317	0.450	7.010	6.520	0.629%	0.990%
%RSD		0.382	1.228	1.428	2.047	1.247	1.159	0.690	1.099
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:33:31	86.080	86.580	212.300	215.300	213.700	74.550%		
2	19:34:14	87.690	87.860	214.800	218.700	216.700	75.926%		
3	19:34:57	89.210	90.030	219.800	222.000	220.900	75.330%		
X		87.660	88.160	215.600	218.700	217.100	75.268%		
σ		1.565	1.744	3.828	3.355	3.607	0.690%		
%RSD		1.786	1.978	1.775	1.534	1.661	0.917		

240-17602-F-11-A PDS 12/22/2012 7:37:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	76.573%	48.430	825.300	836.000	0.000	44550.000	73020.000	77070.000
2	19:38:33	76.327%	48.600	838.400	859.300	0.000	44260.000	72150.000	76160.000
3	19:39:16	76.021%	48.320	835.900	822.800	0.000	44190.000	73130.000	76370.000
X		76.307%	48.450	833.200	839.400	0.000	44330.000	72770.000	76530.000
σ		0.276%	0.139	6.989	18.460	0.000	192.200	532.100	473.600
%RSD		0.362	0.287	0.839	2.200	0.000	0.434	0.731	0.619
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	98900.000	11020.000	0.000	54670.000	72830.000	73780.000	79.974%	1514.000
2	19:38:33	98130.000	10890.000	0.000	53800.000	72290.000	74560.000	78.507%	1535.000
3	19:39:16	98020.000	10890.000	0.000	54150.000	74220.000	75890.000	77.615%	1528.000
X		98350.000	10930.000	0.000	54210.000	73120.000	74740.000	78.699%	1526.000
σ		479.500	73.330	0.000	441.700	996.900	1065.000	1.191%	10.900
%RSD		0.487	0.671	0.000	0.815	1.363	1.425	1.514	0.714
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	671.600	354.600	3270.000	260500.000	267500.000	603.700	715.800	438.900
2	19:38:33	680.900	361.300	3287.000	260500.000	267500.000	603.500	720.900	442.900
3	19:39:16	678.500	360.100	3321.000	263300.000	271000.000	606.100	723.600	445.300
X		677.000	358.700	3293.000	261500.000	268600.000	604.400	720.100	442.400
σ		4.830	3.568	25.540	1619.000	2051.000	1.468	3.959	3.223
%RSD		0.713	0.995	0.776	0.619	0.763	0.243	0.550	0.729
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	437.500	1032.000	1049.000	165.500	11.580	14.790	0.000	1082.000
2	19:38:33	440.300	1043.000	1056.000	165.700	11.230	15.410	0.000	1087.000
3	19:39:16	447.400	1051.000	1067.000	168.600	11.190	15.900	0.000	1109.000
X		441.800	1042.000	1057.000	166.600	11.330	15.370	0.000	1093.000
σ		5.106	9.668	8.991	1.760	0.211	0.558	0.000	13.950
%RSD		1.156	0.928	0.850	1.057	1.862	3.630	0.000	1.277
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	0.000	964.600	962.900	71.495%	46.780	46.740	47.460	42.470
2	19:38:33	0.000	978.800	980.100	72.643%	47.380	47.120	47.560	43.010
3	19:39:16	0.000	988.000	967.600	72.566%	47.250	47.300	47.800	41.750
X		0.000	977.200	970.200	72.235%	47.140	47.050	47.610	42.410
σ		0.000	11.820	8.842	0.642%	0.315	0.284	0.173	0.632
%RSD		0.000	1.209	0.911	0.889	0.667	0.603	0.364	1.490
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:50	74.732%	1829.000	410.300	408.000	2260.000	2259.000	83.998%	86.694%
2	19:38:33	75.940%	1854.000	417.100	416.700	2282.000	2280.000	86.133%	89.130%
3	19:39:16	76.633%	1861.000	420.800	416.300	2296.000	2301.000	86.499%	90.068%
X		75.768%	1848.000	416.100	413.700	2279.000	2280.000	85.543%	88.631%
σ		0.962%	16.660	5.314	4.925	17.940	21.300	1.351%	1.742%
%RSD		1.270	0.901	1.277	1.190	0.787	0.934	1.579	1.965
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:37:50	48.950	49.150	136.600	134.900	135.600	71.670%		
2	19:38:33	48.990	49.120	136.400	135.200	136.000	74.234%		
3	19:39:16	49.310	49.650	137.300	135.500	136.900	75.192%		
X		49.080	49.310	136.700	135.200	136.200	73.699%		
σ		0.196	0.295	0.481	0.269	0.682	1.821%		
%RSD		0.400	0.599	0.352	0.199	0.501	2.470		



CCV 664806 12/22/2012 7:44:22 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	79.002%	97.790	97.750	97.520	0.000	49480.000	45970.000	47120.000
2	19:45:48	79.386%	91.600	90.280	91.870	0.000	46670.000	43640.000	44620.000
3	19:46:31	75.434%	99.870	99.480	100.600	0.000	49840.000	47100.000	48050.000
X		77.941%	96.419%	95.838%	96.653%	0.000	97.329%	91.144%	93.197%
σ		2.179%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.796	4.463	5.100	4.568	0.000	3.577	3.875	3.808
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	479.500	5057.000	0.000	48600.000	47830.000	48960.000	87.750%	96.560
2	19:45:48	443.900	4704.000	0.000	44900.000	45540.000	46650.000	89.022%	92.460
3	19:46:31	466.800	5083.000	0.000	48680.000	49150.000	49880.000	84.885%	99.020
X		92.674%	98.962%	0.000	94.784%	95.016%	96.995%	87.219%	96.013%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.119%	n/a
%RSD		3.890	4.272	0.000	4.556	3.845	3.433	2.430	3.451
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	96.790	98.120	514.800	25700.000	25490.000	97.370	97.750	96.270
2	19:45:48	90.790	91.590	476.000	23700.000	23700.000	89.430	89.850	89.830
3	19:46:31	99.900	99.990	517.500	26100.000	25780.000	98.940	97.820	98.130
X		95.825%	96.569%	100.554%	100.676%	99.965%	95.249%	95.139%	94.745%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		4.832	4.565	4.616	5.111	4.512	5.353	4.818	4.596
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	96.510	101.300	101.700	97.350	101.300	101.200	0.000	95.910
2	19:45:48	89.050	93.020	93.920	89.430	93.470	94.230	0.000	88.600
3	19:46:31	97.260	101.500	101.800	99.200	103.300	102.700	0.000	96.330
X		94.276%	98.611%	99.137%	95.326%	99.332%	99.378%	0.000	93.614%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.813	4.913	4.558	5.445	5.210	4.541	0.000	4.645
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	85.238%	96.650	97.680	80.113%	98.320	98.040	100.400	100.800
2	19:45:48	89.257%	92.830	93.820	82.685%	91.190	92.030	94.430	94.930
3	19:46:31	86.265%	100.600	102.400	79.933%	99.590	99.960	102.200	102.900
X		86.920%	96.705%	97.980%	80.910%	96.366%	96.679%	98.985%	99.525%
σ		2.088%	n/a	n/a	1.540%	n/a	n/a	n/a	n/a
%RSD		2.402	4.039	4.402	1.903	4.699	4.279	4.083	4.138
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:05	82.253%	97.620	96.710	96.440	96.280	95.540	86.242%	86.540%
2	19:45:48	86.449%	91.460	91.280	91.010	88.660	89.220	90.690%	91.609%
3	19:46:31	83.808%	98.940	98.450	98.910	95.800	96.830	88.846%	89.643%
X		84.170%	96.007%	95.484%	95.453%	93.580%	93.863%	88.593%	89.264%
σ		2.122%	n/a	n/a	n/a	n/a	n/a	2.235%	2.556%
%RSD		2.521	4.159	3.918	4.234	4.563	4.342	2.523	2.863
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:45:05	93.530	93.400	93.620	93.910	93.430	83.664%		
2	19:45:48	89.140	89.000	89.600	89.490	89.460	87.600%		
3	19:46:31	96.440	95.820	96.560	96.500	96.330	85.826%		
X		93.040%	92.738%	93.261%	93.301%	93.074%	85.697%		
σ		n/a	n/a	n/a	n/a	n/a	1.971%		
%RSD		3.949	3.729	3.746	3.804	3.703	2.300		

CCB2 12/22/2012 7:52:21 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	94.363%	0.006	2.029	1.905	0.000	1.098	2.161	1.817
2	19:53:47	92.794%	-0.015	1.611	1.755	0.000	0.565	1.792	1.666
3	19:54:30	93.138%	-0.002	1.759	1.669	0.000	0.852	1.872	1.657
X		93.431%	-0.004	1.800	1.777	0.000	0.838	1.941	1.713
σ		0.825%	0.011	0.212	0.120	0.000	0.267	0.194	0.090
%RSD		0.883	290.200	11.780	6.726	0.000	31.840	9.981	5.246
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	0.728	-1.501	0.000	-5.895	1.057	0.580	105.340%	0.016
2	19:53:47	-0.087	-2.372	0.000	-6.762	2.941	0.960	104.063%	-0.020
3	19:54:30	-0.032	-2.096	0.000	-6.743	1.670	2.057	102.864%	-0.048
X		0.203	-1.989	0.000	-6.467	1.889	1.199	104.089%	-0.017
σ		0.455	0.445	0.000	0.495	0.961	0.767	1.238%	0.032
%RSD		224.100	22.380	0.000	7.655	50.890	63.970	1.189	187.700
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	0.011	-0.017	0.478	6.055	11.970	-0.007	-0.026	-0.039
2	19:53:47	0.024	-0.003	0.433	2.737	9.015	-0.006	-0.005	-0.058
3	19:54:30	0.024	-0.019	0.429	0.597	6.882	-0.003	-0.027	-0.034
X		0.020	-0.013	0.447	3.130	9.289	-0.005	-0.019	-0.044
σ		0.007	0.009	0.027	2.750	2.555	0.002	0.012	0.013
%RSD		37.350	66.340	6.107	87.870	27.500	42.550	62.880	29.840
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	-0.042	-0.406	-0.292	-0.096	0.011	-0.225	0.000	0.010
2	19:53:47	-0.051	-0.365	-0.170	-0.217	-0.000	-1.073	0.000	0.004
3	19:54:30	-0.067	-0.261	-0.215	-0.195	0.087	-0.853	0.000	0.004
X		-0.053	-0.344	-0.226	-0.169	0.032	-0.717	0.000	0.006
σ		0.012	0.075	0.061	0.064	0.048	0.440	0.000	0.003
%RSD		23.180	21.700	27.180	38.090	146.400	61.350	0.000	55.590
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	89.075%	0.440	0.446	93.378%	-0.006	-0.001	0.029	0.027
2	19:53:47	89.409%	0.416	0.367	93.525%	0.001	0.000	0.028	0.001
3	19:54:30	90.269%	0.330	0.296	93.140%	0.000	-0.002	0.018	0.016
X		89.584%	0.395	0.370	93.348%	-0.002	-0.001	0.025	0.015
σ		0.616%	0.058	0.075	0.194%	0.004	0.001	0.006	0.013
%RSD		0.687	14.620	20.300	0.208	225.400	118.800	25.530	87.600
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:53:04	92.652%	-0.114	-0.007	-0.006	0.003	0.000	96.086%	96.545%
2	19:53:47	94.276%	-0.236	-0.004	0.029	-0.030	-0.003	97.753%	98.296%
3	19:54:30	93.951%	-0.203	-0.008	0.010	-0.033	0.003	98.158%	99.329%
X		93.626%	-0.184	-0.006	0.011	-0.020	-0.000	97.332%	98.057%
σ		0.859%	0.063	0.002	0.018	0.020	0.003	1.098%	1.408%
%RSD		0.918	34.130	33.620	158.500	99.670	6309.000	1.128	1.436
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:53:04	0.047	0.040	0.091	0.073	0.078	101.599%		
2	19:53:47	0.046	0.047	0.062	0.057	0.062	102.639%		
3	19:54:30	0.043	0.043	0.052	0.062	0.058	103.650%		
X		0.045	0.044	0.068	0.064	0.066	102.629%		
σ		0.002	0.004	0.020	0.008	0.010	1.025%		
%RSD		4.301	8.597	29.800	13.060	15.710	0.999		

240-17602-F-12-A 12/22/2012 7:56:42 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	78.438%	6.547	43.230	43.890	0.000	701.600	49370.000	51160.000
2	19:58:08	75.256%	6.331	44.800	45.270	0.000	686.900	49160.000	51400.000
3	19:58:51	74.974%	6.291	44.060	45.260	0.000	690.100	49060.000	51120.000
X		76.223%	6.390	44.030	44.810	0.000	692.900	49200.000	51230.000
σ		1.923%	0.138	0.786	0.792	0.000	7.712	159.600	147.900
%RSD		2.523	2.158	1.785	1.767	0.000	1.113	0.324	0.289
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	113200.000	1593.000	0.000	16870.000	117300.000	121200.000	93.021%	420.600
2	19:58:08	115200.000	1605.000	0.000	17120.000	119400.000	122200.000	90.778%	426.700
3	19:58:51	114000.000	1592.000	0.000	16740.000	116300.000	119800.000	89.783%	419.100
X		114100.000	1597.000	0.000	16910.000	117700.000	121100.000	91.194%	422.100
σ		998.900	6.900	0.000	188.700	1544.000	1179.000	1.659%	4.015
%RSD		0.875	0.432	0.000	1.116	1.312	0.974	1.819	0.951
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	179.000	190.400	3718.000	269500.000	282100.000	124.900	287.900	195.100
2	19:58:08	182.100	194.000	3775.000	273900.000	286000.000	125.800	292.400	198.600
3	19:58:51	179.600	190.700	3742.000	271000.000	282700.000	124.400	289.300	197.500
X		180.300	191.700	3745.000	271500.000	283600.000	125.000	289.900	197.100
σ		1.657	1.982	28.570	2243.000	2070.000	0.747	2.303	1.788
%RSD		0.919	1.034	0.763	0.826	0.730	0.597	0.794	0.907
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	197.100	641.000	651.900	155.000	2.315	5.108	0.000	198.400
2	19:58:08	200.000	650.400	660.200	155.400	2.525	4.827	0.000	201.900
3	19:58:51	196.700	645.700	654.300	153.000	2.529	5.014	0.000	199.900
X		198.000	645.700	655.500	154.500	2.456	4.983	0.000	200.100
σ		1.812	4.727	4.265	1.260	0.123	0.143	0.000	1.759
%RSD		0.915	0.732	0.651	0.816	5.001	2.871	0.000	0.879
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	0.000	13.320	13.340	79.087%	0.283	0.167	1.972	1.567
2	19:58:08	0.000	13.400	13.740	79.750%	0.284	0.181	2.126	1.609
3	19:58:51	0.000	13.460	13.520	80.761%	0.279	0.183	1.995	1.548
X		0.000	13.390	13.530	79.866%	0.282	0.177	2.031	1.575
σ		0.000	0.068	0.201	0.843%	0.003	0.008	0.083	0.031
%RSD		0.000	0.504	1.487	1.055	0.943	4.770	4.078	1.972
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:25	83.039%	7.912	0.775	0.855	558.400	557.100	90.388%	88.398%
2	19:58:08	84.986%	7.712	0.801	0.776	560.000	559.800	93.054%	91.403%
3	19:58:51	86.080%	7.352	0.711	0.729	557.000	554.300	94.743%	93.118%
X		84.702%	7.659	0.762	0.787	558.500	557.100	92.728%	90.973%
σ		1.540%	0.284	0.046	0.064	1.476	2.771	2.196%	2.389%
%RSD		1.818	3.705	6.095	8.108	0.264	0.497	2.368	2.626
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:57:25	1.765	1.828	127.900	126.200	127.200	76.896%		
2	19:58:08	1.801	1.812	129.400	127.400	128.200	78.733%		
3	19:58:51	1.753	1.775	127.100	125.900	126.400	81.216%		
X		1.773	1.805	128.200	126.500	127.300	78.948%		
σ		0.025	0.027	1.158	0.766	0.902	2.168%		
%RSD		1.386	1.514	0.904	0.606	0.709	2.746		

240-17602-F-13-A 12/22/2012 8:01:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	80.973%	5.659	38.540	39.540	0.000	612.600	39560.000	40870.000
2	20:02:26	77.962%	5.556	38.240	39.960	0.000	608.400	39440.000	40870.000
3	20:03:09	78.014%	5.732	40.120	39.100	0.000	596.300	39320.000	41300.000
X		78.983%	5.649	38.970	39.530	0.000	605.800	39440.000	41020.000
σ		1.723%	0.088	1.007	0.427	0.000	8.458	120.300	248.900
%RSD		2.182	1.560	2.584	1.080	0.000	1.396	0.305	0.607
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	108700.000	2059.000	0.000	14100.000	30820.000	31810.000	95.154%	431.100
2	20:02:26	108700.000	2038.000	0.000	13990.000	30920.000	31940.000	90.759%	432.200
3	20:03:09	108400.000	2025.000	0.000	13990.000	30800.000	32040.000	89.897%	437.100
X		108600.000	2041.000	0.000	14030.000	30850.000	31930.000	91.936%	433.500
σ		195.300	17.340	0.000	65.210	64.900	118.100	2.819%	3.176
%RSD		0.180	0.850	0.000	0.465	0.210	0.370	3.067	0.733
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	167.000	176.500	3286.000	271400.000	283000.000	105.100	259.000	204.700
2	20:02:26	168.400	179.300	3323.000	272600.000	283700.000	105.200	258.000	204.500
3	20:03:09	168.500	177.600	3340.000	273500.000	285700.000	105.400	258.200	205.500
X		168.000	177.800	3316.000	272500.000	284200.000	105.200	258.400	204.900
σ		0.862	1.403	27.260	1039.000	1402.000	0.191	0.543	0.529
%RSD		0.513	0.789	0.822	0.381	0.493	0.181	0.210	0.258
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	205.500	608.600	616.000	155.600	2.685	5.129	0.000	116.600
2	20:02:26	207.400	620.500	629.300	158.600	2.376	4.929	0.000	118.100
3	20:03:09	206.200	617.600	632.100	158.600	2.534	4.724	0.000	118.300
X		206.400	615.500	625.800	157.600	2.532	4.927	0.000	117.700
σ		0.938	6.213	8.596	1.753	0.155	0.203	0.000	0.925
%RSD		0.454	1.009	1.374	1.112	6.102	4.113	0.000	0.786
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	0.000	10.980	11.070	81.694%	0.322	0.176	1.652	1.225
2	20:02:26	0.000	11.200	11.280	79.936%	0.304	0.210	1.656	1.206
3	20:03:09	0.000	11.090	11.250	79.507%	0.280	0.186	1.534	1.190
X		0.000	11.090	11.200	80.379%	0.302	0.191	1.614	1.207
σ		0.000	0.107	0.111	1.159%	0.021	0.017	0.069	0.017
%RSD		0.000	0.969	0.995	1.441	6.960	9.150	4.292	1.434
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:43	85.032%	9.386	0.792	0.940	448.100	446.800	92.604%	91.507%
2	20:02:26	84.390%	9.142	0.839	0.802	445.900	447.800	92.672%	91.415%
3	20:03:09	83.130%	9.285	0.850	0.907	452.500	450.200	92.511%	91.480%
X		84.184%	9.271	0.827	0.883	448.800	448.300	92.596%	91.467%
σ		0.967%	0.122	0.031	0.072	3.388	1.757	0.081%	0.048%
%RSD		1.149	1.321	3.727	8.192	0.755	0.392	0.087	0.052
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:01:43	1.514	1.521	136.000	134.700	135.400	79.146%		
2	20:02:26	1.542	1.529	137.000	136.800	136.600	80.018%		
3	20:03:09	1.608	1.532	137.500	136.600	136.800	79.292%		
X		1.555	1.528	136.800	136.000	136.300	79.485%		
σ		0.048	0.006	0.779	1.175	0.757	0.467%		
%RSD		3.108	0.380	0.570	0.864	0.555	0.588		

240-17602-F-14-A 12/22/2012 8:05:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	80.106%	6.583	50.670	51.960	0.000	672.200	50420.000	52310.000
2	20:06:43	78.644%	6.562	52.430	52.690	0.000	666.500	50250.000	52820.000
3	20:07:26	78.946%	6.767	50.620	52.180	0.000	664.600	49980.000	52280.000
x		79.232%	6.638	51.240	52.280	0.000	667.800	50220.000	52470.000
σ		0.772%	0.113	1.032	0.377	0.000	3.954	218.900	300.800
%RSD		0.974	1.698	2.013	0.722	0.000	0.592	0.436	0.573
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	118700.000	2325.000	0.000	16860.000	140200.000	144900.000	91.650%	728.700
2	20:06:43	121300.000	2321.000	0.000	16980.000	142600.000	145900.000	90.066%	743.000
3	20:07:26	119000.000	2306.000	0.000	16770.000	141800.000	145300.000	89.841%	738.800
x		119700.000	2317.000	0.000	16870.000	141500.000	145300.000	90.519%	736.800
σ		1425.000	9.869	0.000	105.500	1198.000	500.200	0.986%	7.342
%RSD		1.190	0.426	0.000	0.625	0.846	0.344	1.089	0.996
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	205.800	200.200	3505.000	252900.000	263400.000	117.600	285.400	176.700
2	20:06:43	209.200	204.700	3579.000	256000.000	264500.000	117.300	285.700	179.100
3	20:07:26	206.200	202.800	3549.000	253100.000	261400.000	117.200	280.500	176.600
x		207.100	202.600	3544.000	254000.000	263100.000	117.400	283.900	177.500
σ		1.854	2.286	37.180	1728.000	1578.000	0.210	2.898	1.388
%RSD		0.895	1.128	1.049	0.680	0.600	0.179	1.021	0.782
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	178.300	543.700	553.500	104.700	2.794	5.152	0.000	258.600
2	20:06:43	181.500	553.900	561.600	106.400	2.930	5.380	0.000	264.100
3	20:07:26	177.000	550.000	562.300	106.900	3.144	5.623	0.000	267.000
x		179.000	549.200	559.100	106.000	2.956	5.385	0.000	263.300
σ		2.293	5.153	4.915	1.189	0.176	0.235	0.000	4.250
%RSD		1.281	0.938	0.879	1.122	5.965	4.370	0.000	1.614
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	0.000	15.360	15.020	77.786%	0.371	0.180	2.271	1.740
2	20:06:43	0.000	15.490	15.350	78.259%	0.342	0.192	2.277	1.644
3	20:07:26	0.000	15.010	15.240	78.280%	0.344	0.211	2.157	1.708
x		0.000	15.290	15.200	78.108%	0.352	0.195	2.235	1.697
σ		0.000	0.248	0.171	0.279%	0.016	0.016	0.068	0.049
%RSD		0.000	1.620	1.125	0.357	4.663	8.084	3.032	2.897
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:00	81.755%	8.802	0.731	0.732	730.800	723.500	89.738%	88.563%
2	20:06:43	83.025%	9.026	0.786	0.812	736.800	737.300	92.344%	91.124%
3	20:07:26	84.136%	9.059	0.764	0.752	731.300	730.200	93.111%	92.036%
x		82.972%	8.962	0.760	0.765	733.000	730.300	91.731%	90.574%
σ		1.192%	0.140	0.028	0.042	3.351	6.920	1.768%	1.800%
%RSD		1.436	1.558	3.682	5.459	0.457	0.948	1.927	1.988
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:06:00	1.772	1.809	133.700	131.400	132.200	74.119%		
2	20:06:43	1.821	1.838	135.200	133.300	134.000	76.692%		
3	20:07:26	1.789	1.808	134.200	132.600	132.900	78.294%		
x		1.794	1.818	134.400	132.400	133.000	76.368%		
σ		0.025	0.017	0.726	0.975	0.902	2.107%		
%RSD		1.396	0.933	0.540	0.736	0.678	2.758		

240-17602-F-16-A 12/22/2012 8:09:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	74.705%	6.315	65.180	68.060	0.000	830.600	69730.000	73010.000
2	20:11:00	73.245%	6.384	65.720	66.950	0.000	822.000	69190.000	73340.000
3	20:11:43	71.154%	6.372	65.630	66.740	0.000	808.000	69990.000	74190.000
x		73.035%	6.357	65.510	67.250	0.000	820.200	69640.000	73520.000
σ		1.785%	0.037	0.289	0.712	0.000	11.390	408.900	608.800
%RSD		2.444	0.581	0.441	1.058	0.000	1.388	0.587	0.828
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	120300.000	2764.000	0.000	18800.000	276200.000	268100.000	84.221%	881.700
2	20:11:00	120200.000	2727.000	0.000	18260.000	274400.000	272200.000	81.466%	884.300
3	20:11:43	122500.000	2776.000	0.000	18850.000	279500.000	272500.000	79.188%	886.000
x		121000.000	2756.000	0.000	18640.000	276700.000	270900.000	81.625%	884.000
σ		1310.000	25.370	0.000	324.500	2573.000	2465.000	2.520%	2.191
%RSD		1.083	0.921	0.000	1.741	0.930	0.910	3.088	0.248
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	215.100	205.300	4056.000	275700.000	287800.000	126.600	298.300	190.700
2	20:11:00	214.300	204.500	4113.000	276700.000	287800.000	125.800	295.800	189.600
3	20:11:43	217.700	206.100	4135.000	282100.000	293000.000	127.200	298.700	191.600
x		215.700	205.300	4101.000	278200.000	289500.000	126.600	297.600	190.600
σ		1.753	0.791	40.650	3441.000	2988.000	0.683	1.561	1.026
%RSD		0.813	0.385	0.991	1.237	1.032	0.539	0.525	0.538
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	193.500	573.700	588.200	108.200	3.309	5.235	0.000	529.100
2	20:11:00	191.900	582.300	590.200	107.600	2.765	5.835	0.000	534.400
3	20:11:43	193.400	590.100	599.900	108.500	2.864	6.070	0.000	538.100
x		192.900	582.100	592.800	108.100	2.979	5.713	0.000	533.900
σ		0.907	8.212	6.259	0.456	0.290	0.430	0.000	4.529
%RSD		0.470	1.411	1.056	0.421	9.725	7.530	0.000	0.848
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	0.000	15.980	16.110	72.741%	0.429	0.278	2.377	1.765
2	20:11:00	0.000	16.330	16.320	73.006%	0.439	0.276	2.202	1.687
3	20:11:43	0.000	16.660	16.520	73.072%	0.413	0.254	2.118	1.723
x		0.000	16.320	16.320	72.940%	0.427	0.269	2.233	1.725
σ		0.000	0.342	0.204	0.175%	0.013	0.013	0.132	0.039
%RSD		0.000	2.098	1.248	0.240	3.059	4.884	5.903	2.271
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:17	78.328%	9.522	0.757	0.832	745.100	743.500	86.025%	84.631%
2	20:11:00	78.882%	9.718	0.725	0.800	753.100	753.200	88.581%	87.441%
3	20:11:43	79.751%	9.374	0.780	0.816	747.600	743.700	89.989%	88.659%
x		78.987%	9.538	0.754	0.816	748.600	746.800	88.199%	86.910%
σ		0.717%	0.173	0.028	0.016	4.124	5.555	2.010%	2.066%
%RSD		0.908	1.809	3.673	1.953	0.551	0.744	2.279	2.377
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:10:17	1.954	1.908	131.600	129.100	130.400	72.360%		
2	20:11:00	1.974	1.992	133.800	131.300	132.200	73.966%		
3	20:11:43	1.943	1.933	133.000	130.500	131.300	75.638%		
x		1.957	1.944	132.800	130.300	131.300	73.988%		
σ		0.016	0.044	1.091	1.133	0.913	1.639%		
%RSD		0.802	2.241	0.822	0.870	0.696	2.215		

240-17602-F-17-A 12/22/2012 8:13:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	68.754%	6.509	69.490	70.920	0.000	978.100	74390.000	79300.000
2	20:15:18	66.921%	6.378	70.660	72.610	0.000	983.100	74410.000	78840.000
3	20:16:01	65.483%	6.347	69.610	73.350	0.000	993.200	76350.000	81080.000
X		67.053%	6.412	69.920	72.290	0.000	984.800	75050.000	79740.000
σ		1.640%	0.086	0.640	1.249	0.000	7.653	1126.000	1183.000
%RSD		2.445	1.344	0.916	1.728	0.000	0.777	1.501	1.484
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	124600.000	1690.000	0.000	21690.000	361900.000	348400.000	78.254%	678.100
2	20:15:18	124500.000	1691.000	0.000	21580.000	363300.000	352300.000	76.858%	666.100
3	20:16:01	127600.000	1703.000	0.000	21790.000	369700.000	357600.000	73.969%	687.800
X		125600.000	1695.000	0.000	21690.000	364900.000	352800.000	76.360%	677.300
σ		1800.000	7.505	0.000	109.100	4182.000	4615.000	2.186%	10.860
%RSD		1.434	0.443	0.000	0.503	1.146	1.308	2.862	1.604
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	209.000	216.800	3979.000	302400.000	314500.000	125.100	301.700	213.100
2	20:15:18	209.000	214.800	3985.000	298600.000	312600.000	124.500	297.000	210.900
3	20:16:01	218.400	221.200	4052.000	308100.000	322800.000	127.800	304.900	217.300
X		212.100	217.600	4005.000	303000.000	316600.000	125.800	301.200	213.800
σ		5.407	3.274	40.710	4779.000	5462.000	1.735	3.997	3.218
%RSD		2.549	1.505	1.016	1.577	1.725	1.379	1.327	1.505
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	215.400	659.900	671.900	148.700	2.605	4.395	0.000	592.800
2	20:15:18	214.000	663.700	675.400	151.600	2.598	5.401	0.000	599.000
3	20:16:01	219.900	681.100	694.500	154.900	2.768	5.369	0.000	613.200
X		216.400	668.200	680.600	151.700	2.657	5.055	0.000	601.700
σ		3.056	11.320	12.200	3.108	0.096	0.572	0.000	10.470
%RSD		1.412	1.693	1.793	2.049	3.624	11.310	0.000	1.740
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	0.000	15.420	15.380	70.750%	0.405	0.287	1.990	1.446
2	20:15:18	0.000	15.610	15.630	70.422%	0.433	0.275	1.903	1.450
3	20:16:01	0.000	15.960	15.680	70.200%	0.463	0.301	1.982	1.540
X		0.000	15.660	15.560	70.458%	0.434	0.287	1.958	1.479
σ		0.000	0.271	0.163	0.276%	0.029	0.013	0.048	0.053
%RSD		0.000	1.730	1.046	0.392	6.690	4.614	2.467	3.578
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:14:35	76.261%	7.736	0.627	0.713	705.900	703.500	84.761%	83.744%
2	20:15:18	77.243%	7.859	0.684	0.637	704.500	705.200	87.133%	85.849%
3	20:16:01	76.395%	7.802	0.640	0.697	720.200	720.300	86.838%	85.677%
X		76.633%	7.799	0.650	0.682	710.200	709.700	86.244%	85.090%
σ		0.533%	0.061	0.030	0.040	8.716	9.238	1.293%	1.169%
%RSD		0.695	0.787	4.642	5.863	1.227	1.302	1.499	1.374
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:14:35	1.988	1.971	137.700	135.600	136.900	72.232%		
2	20:15:18	1.996	2.027	139.500	137.600	138.900	73.524%		
3	20:16:01	2.049	2.119	142.800	140.400	141.800	73.603%		
X		2.011	2.039	140.000	137.900	139.200	73.120%		
σ		0.033	0.075	2.597	2.398	2.459	0.770%		
%RSD		1.654	3.667	1.855	1.739	1.766	1.053		

240-17602-F-18-A 12/22/2012 8:18:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	64.737%	6.044	66.780	68.600	0.000	990.800	78960.000	83680.000
2	20:19:36	63.651%	5.605	66.430	66.580	0.000	961.500	77840.000	82840.000
3	20:20:19	63.291%	5.893	67.190	68.000	0.000	969.500	79260.000	84970.000
X		63.893%	5.847	66.800	67.730	0.000	974.000	78690.000	83830.000
σ		0.753%	0.223	0.382	1.037	0.000	15.150	749.700	1073.000
%RSD		1.178	3.813	0.573	1.531	0.000	1.556	0.953	1.280
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	113300.000	2141.000	0.000	19640.000	515200.000	496800.000	71.178%	885.300
2	20:19:36	113000.000	2114.000	0.000	19160.000	507500.000	494100.000	68.971%	876.600
3	20:20:19	114200.000	2145.000	0.000	19940.000	534000.000	520200.000	65.781%	906.700
X		113500.000	2134.000	0.000	19580.000	518900.000	503700.000	68.643%	889.500
σ		657.700	16.720	0.000	392.700	13630.000	14370.000	2.713%	15.490
%RSD		0.579	0.784	0.000	2.005	2.626	2.853	3.953	1.742
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	205.900	198.600	4148.000	265300.000	273000.000	114.300	277.800	172.900
2	20:19:36	206.400	198.900	4105.000	262400.000	269000.000	113.000	276.000	173.400
3	20:20:19	215.100	208.800	4286.000	273400.000	284600.000	118.600	285.700	177.700
X		209.100	202.100	4180.000	267100.000	275500.000	115.300	279.900	174.700
σ		5.169	5.836	94.350	5685.000	8108.000	2.956	5.170	2.632
%RSD		2.472	2.888	2.257	2.129	2.942	2.564	1.847	1.507
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	174.900	549.900	558.000	98.530	2.406	5.338	0.000	767.900
2	20:19:36	175.000	552.400	564.000	100.600	2.246	5.699	0.000	769.900
3	20:20:19	181.000	573.000	586.100	102.200	2.524	6.263	0.000	786.800
X		177.000	558.400	569.400	100.500	2.392	5.767	0.000	774.900
σ		3.493	12.650	14.770	1.846	0.140	0.466	0.000	10.360
%RSD		1.973	2.266	2.594	1.837	5.841	8.082	0.000	1.337
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	0.000	16.550	16.450	65.688%	0.453	0.239	2.149	1.670
2	20:19:36	0.000	16.480	16.240	66.246%	0.429	0.266	2.006	1.555
3	20:20:19	0.000	16.580	16.710	65.999%	0.435	0.262	2.080	1.571
X		0.000	16.530	16.470	65.977%	0.439	0.256	2.078	1.599
σ		0.000	0.050	0.239	0.279%	0.013	0.015	0.072	0.062
%RSD		0.000	0.301	1.453	0.424	2.909	5.711	3.448	3.886
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:18:53	72.290%	9.031	0.590	0.639	817.500	820.700	80.714%	79.792%
2	20:19:36	73.091%	8.986	0.591	0.596	815.300	813.900	83.251%	82.332%
3	20:20:19	73.406%	9.086	0.555	0.671	821.900	825.400	83.239%	82.943%
X		72.929%	9.035	0.579	0.635	818.200	820.000	82.401%	81.689%
σ		0.576%	0.050	0.020	0.038	3.349	5.791	1.461%	1.671%
%RSD		0.789	0.557	3.498	5.989	0.409	0.706	1.774	2.046
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:18:53	1.904	1.908	115.900	113.600	114.700	68.947%		
2	20:19:36	1.900	1.901	114.300	112.600	113.300	72.029%		
3	20:20:19	1.937	1.975	117.000	114.200	115.500	71.553%		
X		1.914	1.928	115.700	113.400	114.500	70.843%		
σ		0.021	0.041	1.351	0.825	1.092	1.659%		
%RSD		1.079	2.110	1.168	0.727	0.954	2.342		



240-17602-F-19-A 12/22/2012 8:22:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	68.283%	6.817	80.330	81.370	0.000	881.400	66640.000	70890.000
2	20:23:55	67.985%	6.658	77.650	77.270	0.000	860.400	66550.000	70820.000
3	20:24:38	66.721%	6.593	77.660	81.500	0.000	880.800	67590.000	71850.000
X		67.663%	6.689	78.550	80.050	0.000	874.200	66930.000	71190.000
σ		0.829%	0.116	1.542	2.404	0.000	11.950	572.600	577.400
%RSD		1.225	1.728	1.964	3.003	0.000	1.367	0.856	0.811
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	122500.000	2151.000	0.000	20540.000	341600.000	331900.000	76.027%	792.900
2	20:23:55	120500.000	2104.000	0.000	20310.000	340800.000	332900.000	73.138%	788.900
3	20:24:38	123600.000	2141.000	0.000	20600.000	346000.000	336900.000	72.491%	790.400
X		122200.000	2132.000	0.000	20480.000	342800.000	333900.000	73.885%	790.700
σ		1567.000	24.860	0.000	149.300	2791.000	2621.000	1.882%	2.000
%RSD		1.282	1.166	0.000	0.729	0.814	0.785	2.548	0.253
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	215.300	211.300	3969.000	255100.000	261500.000	108.000	288.600	169.400
2	20:23:55	217.000	211.900	4030.000	258900.000	264600.000	108.700	287.600	170.000
3	20:24:38	219.800	213.400	4057.000	259400.000	268000.000	110.500	289.400	172.300
X		217.400	212.200	4019.000	257800.000	264700.000	109.100	288.500	170.600
σ		2.290	1.049	45.360	2334.000	3278.000	1.295	0.881	1.517
%RSD		1.053	0.494	1.129	0.905	1.239	1.187	0.305	0.890
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	171.100	542.200	550.500	90.330	2.651	5.662	0.000	585.700
2	20:23:55	173.200	556.200	564.100	92.220	2.967	5.422	0.000	601.500
3	20:24:38	172.600	554.100	563.000	92.130	2.566	5.116	0.000	600.000
X		172.300	550.900	559.200	91.560	2.728	5.400	0.000	595.700
σ		1.083	7.542	7.529	1.066	0.211	0.274	0.000	8.689
%RSD		0.629	1.369	1.346	1.164	7.745	5.071	0.000	1.458
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	0.000	14.600	14.450	69.422%	0.466	0.321	2.345	1.775
2	20:23:55	0.000	14.770	14.700	69.001%	0.464	0.326	2.269	1.741
3	20:24:38	0.000	14.820	14.970	68.879%	0.458	0.308	2.311	1.710
X		0.000	14.730	14.710	69.101%	0.463	0.319	2.309	1.742
σ		0.000	0.113	0.258	0.285%	0.004	0.009	0.038	0.032
%RSD		0.000	0.769	1.754	0.412	0.966	2.865	1.659	1.844
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:23:11	73.981%	8.969	0.666	0.747	738.400	739.500	84.254%	83.072%
2	20:23:55	74.307%	8.930	0.705	0.721	748.200	743.700	85.796%	85.097%
3	20:24:38	74.726%	9.176	0.705	0.717	747.100	747.800	86.240%	85.495%
X		74.338%	9.025	0.692	0.728	744.600	743.700	85.430%	84.555%
σ		0.374%	0.132	0.023	0.017	5.347	4.123	1.042%	1.299%
%RSD		0.503	1.466	3.274	2.273	0.718	0.554	1.220	1.536
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:23:11	1.886	1.912	143.300	140.700	142.300	71.482%		
2	20:23:55	1.928	1.944	144.600	142.300	143.500	73.048%		
3	20:24:38	1.867	1.931	145.800	144.800	145.200	72.859%		
X		1.893	1.929	144.600	142.600	143.700	72.463%		
σ		0.031	0.016	1.247	2.049	1.474	0.855%		
%RSD		1.653	0.811	0.863	1.437	1.026	1.180		

240-17602-F-20-A 12/22/2012 8:26:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	67.831%	6.917	99.480	100.300	0.000	1075.000	79570.000	84610.000
2	20:28:13	64.681%	6.607	100.600	101.200	0.000	1107.000	80820.000	86620.000
3	20:28:57	64.102%	6.921	100.100	100.000	0.000	1078.000	79230.000	84950.000
x		65.538%	6.815	100.100	100.500	0.000	1087.000	79870.000	85390.000
σ		2.007%	0.180	0.566	0.597	0.000	17.460	837.900	1072.000
%RSD		3.062	2.642	0.566	0.594	0.000	1.607	1.049	1.256
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	135200.000	2508.000	0.000	26990.000	327400.000	316300.000	75.182%	836.400
2	20:28:13	138400.000	2517.000	0.000	26640.000	320600.000	315900.000	73.315%	842.200
3	20:28:57	134300.000	2447.000	0.000	26160.000	319300.000	311400.000	71.857%	824.200
x		136000.000	2491.000	0.000	26600.000	322400.000	314500.000	73.451%	834.300
σ		2140.000	38.500	0.000	420.800	4359.000	2735.000	1.667%	9.203
%RSD		1.574	1.546	0.000	1.582	1.352	0.870	2.269	1.103
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	237.200	230.000	4358.000	297100.000	307700.000	128.100	309.800	204.200
2	20:28:13	236.900	231.400	4388.000	299200.000	310300.000	126.700	307.300	204.800
3	20:28:57	236.200	227.600	4284.000	291500.000	304000.000	126.600	303.900	201.900
x		236.800	229.700	4343.000	295900.000	307300.000	127.100	307.000	203.600
σ		0.475	1.909	53.460	3994.000	3179.000	0.860	2.981	1.522
%RSD		0.201	0.831	1.231	1.350	1.034	0.676	0.971	0.747
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	205.100	623.100	633.400	121.800	2.526	5.297	0.000	627.900
2	20:28:13	206.100	627.000	641.400	122.300	2.386	5.271	0.000	634.100
3	20:28:57	203.700	621.400	631.400	120.700	2.166	4.809	0.000	621.700
x		205.000	623.900	635.400	121.600	2.360	5.125	0.000	627.900
σ		1.215	2.881	5.292	0.809	0.182	0.275	0.000	6.218
%RSD		0.593	0.462	0.833	0.666	7.698	5.355	0.000	0.990
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	0.000	15.960	16.270	68.493%	0.399	0.218	2.023	1.498
2	20:28:13	0.000	16.220	16.310	68.534%	0.375	0.225	2.069	1.516
3	20:28:57	0.000	15.680	15.750	69.229%	0.385	0.226	1.810	1.373
x		0.000	15.950	16.110	68.752%	0.386	0.223	1.967	1.462
σ		0.000	0.269	0.314	0.414%	0.012	0.004	0.138	0.078
%RSD		0.000	1.684	1.950	0.602	3.053	1.875	7.027	5.326
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:27:31	73.541%	10.250	0.864	0.847	745.000	744.900	83.456%	81.832%
2	20:28:13	74.236%	10.410	0.807	0.850	746.500	743.800	84.822%	84.016%
3	20:28:57	75.561%	9.961	0.793	0.847	724.100	723.400	87.269%	86.008%
x		74.446%	10.210	0.821	0.848	738.500	737.300	85.182%	83.952%
σ		1.026%	0.227	0.037	0.002	12.500	12.080	1.932%	2.089%
%RSD		1.378	2.220	4.558	0.208	1.693	1.639	2.268	2.488
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:27:31	2.111	2.101	138.800	136.700	137.900	70.397%		
2	20:28:13	2.136	2.176	141.500	139.000	140.100	71.448%		
3	20:28:57	2.002	2.054	135.600	133.900	134.600	74.564%		
x		2.083	2.110	138.600	136.500	137.500	72.136%		
σ		0.071	0.062	2.952	2.576	2.766	2.167%		
%RSD		3.431	2.918	2.130	1.887	2.011	3.004		

240-17602-F-21-A 12/22/2012 8:31:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	74.243%	5.003	50.320	50.070	0.000	647.100	49950.000	53170.000
2	20:32:32	71.472%	4.798	50.950	52.740	0.000	661.600	50660.000	53880.000
3	20:33:15	71.903%	4.905	51.490	51.930	0.000	646.400	50170.000	53800.000
X		72.539%	4.902	50.920	51.580	0.000	651.700	50260.000	53620.000
σ		1.491%	0.102	0.587	1.369	0.000	8.579	366.400	393.800
%RSD		2.056	2.085	1.153	2.655	0.000	1.316	0.729	0.734
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	93240.000	2389.000	0.000	15010.000	124600.000	131100.000	80.860%	588.500
2	20:32:32	95330.000	2442.000	0.000	14940.000	123700.000	128700.000	80.363%	593.300
3	20:33:15	94610.000	2423.000	0.000	14790.000	124700.000	129700.000	80.731%	605.700
X		94390.000	2418.000	0.000	14910.000	124300.000	129800.000	80.651%	595.800
σ		1063.000	27.070	0.000	111.000	548.700	1199.000	0.258%	8.878
%RSD		1.126	1.119	0.000	0.744	0.441	0.924	0.320	1.490
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	159.500	169.600	3141.000	253400.000	260300.000	99.660	244.600	181.700
2	20:32:32	161.400	169.800	3185.000	255700.000	260600.000	99.890	242.200	180.500
3	20:33:15	160.500	170.600	3202.000	256000.000	263400.000	99.510	244.200	182.000
X		160.500	170.000	3176.000	255000.000	261400.000	99.690	243.700	181.400
σ		0.916	0.532	31.220	1452.000	1707.000	0.192	1.284	0.752
%RSD		0.571	0.313	0.983	0.569	0.653	0.193	0.527	0.414
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	180.600	544.700	554.500	129.900	1.883	3.746	0.000	259.700
2	20:32:32	184.100	546.500	561.900	132.400	1.881	3.906	0.000	264.000
3	20:33:15	183.300	553.500	563.500	131.700	2.171	4.264	0.000	264.700
X		182.700	548.200	560.000	131.300	1.978	3.972	0.000	262.800
σ		1.878	4.668	4.792	1.290	0.167	0.265	0.000	2.710
%RSD		1.028	0.851	0.856	0.982	8.443	6.675	0.000	1.031
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	0.000	11.440	11.490	75.035%	0.349	0.263	1.784	1.323
2	20:32:32	0.000	11.690	11.870	75.242%	0.345	0.261	1.611	1.156
3	20:33:15	0.000	11.650	11.670	75.956%	0.341	0.237	1.578	1.180
X		0.000	11.600	11.680	75.411%	0.345	0.253	1.658	1.220
σ		0.000	0.134	0.190	0.483%	0.004	0.014	0.111	0.090
%RSD		0.000	1.153	1.623	0.641	1.206	5.601	6.670	7.386
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:49	78.715%	9.368	0.666	0.632	463.200	462.600	88.063%	87.554%
2	20:32:32	80.197%	9.773	0.635	0.698	464.700	465.800	90.026%	89.141%
3	20:33:15	80.006%	9.684	0.634	0.675	468.900	469.300	90.144%	89.452%
X		79.639%	9.608	0.645	0.668	465.600	465.900	89.411%	88.715%
σ		0.806%	0.213	0.018	0.034	2.926	3.389	1.169%	1.018%
%RSD		1.013	2.213	2.839	5.051	0.628	0.727	1.307	1.147
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:31:49	1.473	1.521	110.500	108.700	109.800	76.225%		
2	20:32:32	1.477	1.513	112.900	110.400	111.700	77.855%		
3	20:33:15	1.476	1.504	111.900	109.600	110.500	78.713%		
X		1.475	1.513	111.800	109.600	110.700	77.598%		
σ		0.002	0.009	1.223	0.852	0.968	1.264%		
%RSD		0.135	0.566	1.094	0.777	0.874	1.629		

240-17602-F-22-A 12/22/2012 8:35:25 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	76.430%	5.600	42.700	43.100	0.000	610.000	48280.000	50330.000
2	20:36:51	76.071%	5.864	42.820	43.960	0.000	603.300	48210.000	51220.000
3	20:37:34	76.009%	5.584	42.820	44.460	0.000	607.500	48340.000	50620.000
x		76.170%	5.683	42.780	43.840	0.000	607.000	48280.000	50720.000
σ		0.227%	0.157	0.067	0.688	0.000	3.418	64.920	458.400
%RSD		0.298	2.765	0.156	1.569	0.000	0.563	0.135	0.904
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	104400.000	2013.000	0.000	14340.000	85670.000	89780.000	88.900%	480.200
2	20:36:51	106000.000	2052.000	0.000	14300.000	86320.000	90140.000	88.107%	475.700
3	20:37:34	104500.000	2005.000	0.000	14380.000	86280.000	89330.000	87.683%	478.400
x		105000.000	2023.000	0.000	14340.000	86090.000	89750.000	88.230%	478.100
σ		903.600	25.430	0.000	41.410	366.400	407.300	0.617%	2.274
%RSD		0.861	1.257	0.000	0.289	0.426	0.454	0.700	0.476
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	164.600	178.900	3623.000	279900.000	294200.000	116.600	278.000	206.700
2	20:36:51	161.500	178.100	3667.000	283300.000	297400.000	117.500	281.500	208.100
3	20:37:34	164.400	178.400	3671.000	284400.000	298200.000	118.100	280.800	209.000
x		163.500	178.500	3653.000	282500.000	296600.000	117.400	280.100	207.900
σ		1.765	0.415	26.600	2309.000	2090.000	0.715	1.863	1.148
%RSD		1.080	0.233	0.728	0.817	0.705	0.609	0.665	0.552
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	206.700	627.200	630.600	160.300	2.390	4.015	0.000	169.100
2	20:36:51	207.700	632.000	642.900	162.700	2.208	4.312	0.000	171.100
3	20:37:34	209.900	637.700	643.800	162.700	2.263	4.929	0.000	172.000
x		208.100	632.300	639.100	161.900	2.287	4.419	0.000	170.700
σ		1.623	5.250	7.331	1.367	0.093	0.466	0.000	1.512
%RSD		0.780	0.830	1.147	0.844	4.086	10.550	0.000	0.885
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	0.000	10.780	10.750	78.006%	0.313	0.201	1.812	1.353
2	20:36:51	0.000	10.910	10.940	78.493%	0.313	0.186	1.883	1.362
3	20:37:34	0.000	10.920	11.080	78.912%	0.322	0.188	1.725	1.286
x		0.000	10.870	10.920	78.471%	0.316	0.192	1.807	1.334
σ		0.000	0.082	0.168	0.453%	0.005	0.008	0.079	0.042
%RSD		0.000	0.751	1.535	0.578	1.616	4.136	4.378	3.122
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:36:08	80.797%	7.376	0.726	0.722	470.900	468.900	88.438%	86.575%
2	20:36:51	82.085%	7.428	0.771	0.738	472.600	473.600	89.852%	88.520%
3	20:37:34	82.300%	7.369	0.741	0.806	472.400	474.300	91.065%	89.323%
x		81.727%	7.391	0.746	0.755	472.000	472.300	89.785%	88.139%
σ		0.812%	0.032	0.023	0.045	0.945	2.929	1.315%	1.413%
%RSD		0.994	0.438	3.117	5.894	0.200	0.620	1.465	1.603
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:36:08	1.457	1.401	136.900	136.700	137.000	75.761%		
2	20:36:51	1.439	1.457	139.000	137.000	138.400	77.213%		
3	20:37:34	1.487	1.502	138.700	137.700	138.200	78.157%		
x		1.461	1.453	138.200	137.100	137.900	77.044%		
σ		0.024	0.051	1.133	0.485	0.757	1.207%		
%RSD		1.650	3.496	0.820	0.354	0.549	1.567		

CCV 664806 12/22/2012 8:42:40 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	81.333%	96.720	89.760	90.190	0.000	48120.000	45170.000	46610.000
2	20:44:06	79.352%	97.020	88.980	90.910	0.000	47780.000	44450.000	46080.000
3	20:44:49	75.103%	99.830	94.580	95.810	0.000	50140.000	46580.000	48280.000
x		78.596%	97.856%	91.105%	92.306%	0.000	97.363%	90.800%	93.982%
σ		3.183%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.050	1.755	3.327	3.309	0.000	2.623	2.388	2.445
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	468.000	5051.000	0.000	49010.000	47540.000	49180.000	90.675%	95.600
2	20:44:06	457.700	5010.000	0.000	48100.000	48330.000	49560.000	87.944%	96.580
3	20:44:49	477.600	5176.000	0.000	50250.000	50080.000	51820.000	84.776%	101.400
x		93.554%	101.583%	0.000	98.235%	97.296%	100.371%	87.798%	97.844%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.952%	n/a
%RSD		2.118	1.707	0.000	2.196	2.670	2.852	3.362	3.145
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	95.180	95.620	502.000	25270.000	25100.000	95.210	95.010	94.980
2	20:44:06	96.610	96.420	511.400	25500.000	25370.000	96.250	96.060	95.540
3	20:44:49	100.600	101.500	531.100	26590.000	26450.000	99.450	98.950	99.310
x		97.474%	97.846%	102.964%	103.145%	102.563%	96.971%	96.674%	96.609%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.907	3.256	2.891	2.724	2.789	2.280	2.113	2.436
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	95.770	99.080	100.300	96.310	98.810	98.880	0.000	93.070
2	20:44:06	95.900	100.200	100.800	97.240	99.920	99.420	0.000	93.940
3	20:44:49	99.080	105.100	105.700	99.460	104.600	105.100	0.000	97.960
x		96.919%	101.463%	102.274%	97.671%	101.120%	101.125%	0.000	94.990%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.935	3.176	2.894	1.654	3.056	3.402	0.000	2.748
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	89.760%	92.100	91.530	86.862%	92.740	92.890	95.200	95.240
2	20:44:06	90.282%	94.950	95.340	86.274%	92.600	93.020	96.110	96.120
3	20:44:49	87.879%	99.690	100.300	84.594%	96.650	97.720	99.690	100.400
x		89.307%	95.578%	95.730%	85.910%	93.998%	94.542%	96.998%	97.258%
σ		1.264%	n/a	n/a	1.177%	n/a	n/a	n/a	n/a
%RSD		1.415	4.010	4.612	1.370	2.449	2.909	2.445	2.843
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:23	87.870%	91.300	93.010	92.950	91.540	92.920	88.411%	92.219%
2	20:44:06	89.393%	92.910	93.460	93.200	92.530	93.300	90.380%	94.053%
3	20:44:49	87.153%	97.130	97.470	96.840	96.000	96.430	89.367%	92.656%
x		88.139%	93.776%	94.646%	94.330%	93.355%	94.218%	89.386%	92.976%
σ		1.144%	n/a	n/a	n/a	n/a	n/a	0.985%	0.958%
%RSD		1.297	3.210	2.591	2.305	2.512	2.045	1.102	1.030
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:43:23	92.240	92.830	93.190	93.350	93.010	84.033%		
2	20:44:06	93.730	93.940	94.510	94.830	94.440	85.885%		
3	20:44:49	97.720	97.880	98.140	98.920	98.090	85.131%		
x		94.566%	94.885%	95.283%	95.701%	95.179%	85.016%		
σ		n/a	n/a	n/a	n/a	n/a	0.931%		
%RSD		2.997	2.800	2.688	3.014	2.755	1.095		

CCB3 12/22/2012 8:50:40 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	97.127%	-0.019	1.043	0.866	0.000	0.829	1.999	2.305
2	20:52:06	92.949%	-0.025	0.636	0.742	0.000	0.467	2.314	2.204
3	20:52:49	92.519%	-0.018	0.722	0.775	0.000	0.761	2.055	2.188
X		94.198%	-0.020	0.800	0.794	0.000	0.686	2.123	2.232
σ		2.545%	0.004	0.215	0.065	0.000	0.192	0.168	0.064
%RSD		2.702	17.550	26.800	8.132	0.000	28.030	7.916	2.850
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	0.214	-2.349	0.000	-6.403	-1.169	1.202	111.963%	-0.030
2	20:52:06	0.225	-1.470	0.000	-7.696	0.464	-0.423	108.036%	-0.011
3	20:52:49	0.251	-2.092	0.000	-6.354	3.403	0.928	106.823%	-0.051
X		0.230	-1.971	0.000	-6.818	0.899	0.569	108.941%	-0.030
σ		0.019	0.452	0.000	0.761	2.317	0.870	2.687%	0.020
%RSD		8.212	22.940	0.000	11.160	257.600	152.800	2.466	65.170
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	0.046	0.022	0.336	8.419	12.120	-0.005	-0.023	-0.041
2	20:52:06	0.014	0.004	0.316	3.967	8.204	-0.003	-0.031	-0.047
3	20:52:49	0.022	0.036	0.301	3.775	7.693	-0.005	-0.028	-0.051
X		0.027	0.021	0.318	5.387	9.339	-0.005	-0.027	-0.046
σ		0.017	0.016	0.018	2.628	2.422	0.002	0.004	0.005
%RSD		61.420	79.210	5.518	48.780	25.930	34.200	14.080	11.540
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	-0.058	-0.585	-0.500	-0.317	0.005	-1.188	0.000	0.011
2	20:52:06	-0.047	-0.577	-0.450	-0.209	-0.017	-1.108	0.000	0.009
3	20:52:49	-0.066	-0.650	-0.556	-0.321	0.183	-1.337	0.000	0.009
X		-0.057	-0.604	-0.502	-0.282	0.057	-1.211	0.000	0.010
σ		0.009	0.040	0.053	0.064	0.109	0.116	0.000	0.001
%RSD		16.320	6.610	10.630	22.520	191.500	9.616	0.000	12.680
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	95.409%	0.264	0.256	93.417%	-0.003	-0.004	-0.028	-0.022
2	20:52:06	96.813%	0.223	0.225	94.586%	-0.004	-0.004	0.003	0.014
3	20:52:49	95.986%	0.217	0.193	94.095%	0.001	-0.002	-0.028	-0.010
X		96.069%	0.234	0.225	94.033%	-0.002	-0.003	-0.017	-0.006
σ		0.706%	0.026	0.032	0.587%	0.003	0.002	0.018	0.018
%RSD		0.735	11.030	14.150	0.624	138.300	44.560	103.200	303.900
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:51:23	91.922%	-0.284	-0.068	-0.062	-0.004	0.016	93.642%	94.326%
2	20:52:06	93.559%	-0.335	-0.051	-0.059	-0.011	0.009	96.713%	97.344%
3	20:52:49	92.876%	-0.370	-0.068	-0.045	-0.013	0.020	95.974%	97.237%
X		92.785%	-0.330	-0.063	-0.055	-0.010	0.015	95.443%	96.302%
σ		0.822%	0.043	0.010	0.009	0.005	0.006	1.603%	1.712%
%RSD		0.886	13.140	15.510	16.160	47.730	36.650	1.679	1.778
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:51:23	0.008	0.003	0.096	0.087	0.084	99.928%		
2	20:52:06	0.004	0.005	0.085	0.075	0.080	103.725%		
3	20:52:49	0.006	0.012	0.075	0.088	0.073	102.439%		
X		0.006	0.007	0.086	0.083	0.079	102.031%		
σ		0.002	0.004	0.011	0.007	0.006	1.931%		
%RSD		35.180	63.680	12.310	8.757	7.127	1.893		

240-17669-C-1-A 12/22/2012 8:55:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	84.072%	5.749	27.890	29.260	0.000	615.200	28280.000	29340.000
2	20:56:27	82.518%	5.759	28.440	28.910	0.000	607.800	28000.000	29280.000
3	20:57:10	79.384%	5.992	28.960	29.930	0.000	607.100	28300.000	29820.000
X		81.992%	5.833	28.430	29.370	0.000	610.000	28200.000	29480.000
σ		2.388%	0.138	0.538	0.521	0.000	4.445	167.900	297.000
%RSD		2.912	2.359	1.892	1.775	0.000	0.729	0.596	1.007
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	110200.000	2578.000	0.000	10320.000	27490.000	28690.000	97.618%	637.600
2	20:56:27	109400.000	2562.000	0.000	10410.000	28150.000	28880.000	93.406%	644.300
3	20:57:10	110700.000	2590.000	0.000	10630.000	28310.000	29020.000	89.074%	655.200
X		110100.000	2577.000	0.000	10450.000	27980.000	28860.000	93.366%	645.700
σ		665.900	13.660	0.000	160.500	434.700	170.100	4.272%	8.857
%RSD		0.605	0.530	0.000	1.536	1.554	0.589	4.576	1.372
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	189.300	205.700	4251.000	253900.000	265700.000	116.900	240.700	191.600
2	20:56:27	193.600	207.000	4267.000	254400.000	265600.000	118.300	241.200	192.600
3	20:57:10	197.300	208.600	4380.000	260900.000	268600.000	119.000	243.400	193.300
X		193.400	207.100	4299.000	256400.000	266600.000	118.000	241.800	192.500
σ		4.000	1.474	70.150	3888.000	1735.000	1.085	1.436	0.886
%RSD		2.068	0.712	1.632	1.516	0.651	0.919	0.594	0.460
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	192.100	555.600	566.300	119.800	3.616	5.830	0.000	104.500
2	20:56:27	194.100	565.300	572.500	121.700	3.482	6.119	0.000	107.400
3	20:57:10	195.800	577.100	586.500	121.400	3.321	5.748	0.000	107.900
X		194.000	566.000	575.100	121.000	3.473	5.899	0.000	106.600
σ		1.884	10.760	10.320	1.017	0.148	0.195	0.000	1.814
%RSD		0.971	1.901	1.794	0.841	4.251	3.298	0.000	1.701
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	0.000	12.190	12.210	83.017%	0.306	0.212	1.910	1.555
2	20:56:27	0.000	12.540	12.690	80.232%	0.334	0.223	1.993	1.567
3	20:57:10	0.000	12.750	12.550	78.658%	0.330	0.220	1.983	1.555
X		0.000	12.490	12.480	80.635%	0.323	0.218	1.962	1.559
σ		0.000	0.284	0.248	2.207%	0.015	0.006	0.046	0.007
%RSD		0.000	2.271	1.984	2.738	4.718	2.580	2.320	0.460
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:44	84.183%	9.658	1.002	1.017	666.600	666.600	90.595%	89.064%
2	20:56:27	83.449%	9.652	0.934	0.995	668.600	669.200	90.799%	89.453%
3	20:57:10	81.192%	9.643	0.918	0.989	679.600	676.600	89.830%	88.565%
X		82.941%	9.651	0.951	1.000	671.600	670.800	90.408%	89.028%
σ		1.559%	0.008	0.045	0.015	7.005	5.198	0.511%	0.445%
%RSD		1.879	0.082	4.683	1.465	1.043	0.775	0.565	0.500
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:55:44	1.634	1.623	163.300	160.900	162.200	78.149%		
2	20:56:27	1.682	1.675	167.400	164.800	165.400	78.044%		
3	20:57:10	1.719	1.717	169.900	166.800	167.700	77.405%		
X		1.678	1.672	166.800	164.200	165.100	77.866%		
σ		0.043	0.047	3.333	2.997	2.727	0.403%		
%RSD		2.556	2.837	1.998	1.825	1.652	0.518		

240-17669-C-2-A 12/22/2012 8:59:21 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	77.678%	6.836	46.920	48.450	0.000	803.900	43520.000	46200.000
2	21:00:46	76.149%	7.065	49.150	49.530	0.000	826.500	44620.000	47090.000
3	21:01:29	76.738%	6.785	47.740	49.530	0.000	798.400	43970.000	46410.000
X		76.855%	6.895	47.930	49.170	0.000	809.600	44040.000	46570.000
σ		0.771%	0.149	1.131	0.625	0.000	14.870	556.300	468.300
%RSD		1.003	2.163	2.359	1.271	0.000	1.837	1.263	1.006
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	121100.000	2114.000	0.000	17540.000	94980.000	97610.000	91.558%	560.300
2	21:00:46	123500.000	2134.000	0.000	17740.000	96950.000	99540.000	90.484%	571.000
3	21:01:29	121100.000	2093.000	0.000	17190.000	93850.000	97050.000	89.605%	560.000
X		121900.000	2114.000	0.000	17490.000	95260.000	98070.000	90.549%	563.800
σ		1352.000	20.580	0.000	281.900	1566.000	1310.000	0.978%	6.288
%RSD		1.109	0.974	0.000	1.612	1.644	1.336	1.080	1.115
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	190.400	201.600	3353.000	267700.000	278000.000	117.300	294.600	193.600
2	21:00:46	196.000	204.800	3392.000	270200.000	283400.000	119.000	295.100	195.600
3	21:01:29	194.700	203.700	3333.000	266500.000	275500.000	116.900	290.300	193.500
X		193.700	203.400	3359.000	268100.000	279000.000	117.700	293.300	194.200
σ		2.943	1.625	30.230	1909.000	4060.000	1.098	2.649	1.166
%RSD		1.520	0.799	0.900	0.712	1.455	0.933	0.903	0.600
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	194.200	626.600	636.600	121.100	2.294	4.260	0.000	211.300
2	21:00:46	197.900	635.100	651.000	124.600	2.417	4.948	0.000	216.300
3	21:01:29	193.700	631.800	640.400	122.600	2.533	5.283	0.000	213.600
X		195.300	631.200	642.700	122.700	2.414	4.830	0.000	213.700
σ		2.244	4.300	7.454	1.754	0.120	0.522	0.000	2.491
%RSD		1.149	0.681	1.160	1.429	4.955	10.800	0.000	1.166
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	0.000	10.780	10.710	77.913%	0.296	0.187	2.105	1.577
2	21:00:46	0.000	11.110	10.900	78.295%	0.325	0.168	2.103	1.541
3	21:01:29	0.000	10.710	10.650	79.040%	0.305	0.171	2.012	1.493
X		0.000	10.870	10.750	78.416%	0.309	0.175	2.073	1.537
σ		0.000	0.210	0.133	0.573%	0.015	0.010	0.053	0.042
%RSD		0.000	1.935	1.232	0.730	4.900	5.822	2.566	2.760
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:00:03	80.424%	7.764	0.851	0.831	763.500	763.200	88.416%	87.168%
2	21:00:46	81.573%	7.994	0.842	0.850	773.700	775.500	90.410%	89.214%
3	21:01:29	82.676%	7.796	0.782	0.862	760.300	758.400	92.481%	90.229%
X		81.558%	7.851	0.825	0.848	765.800	765.700	90.436%	88.870%
σ		1.126%	0.125	0.037	0.016	7.018	8.828	2.033%	1.559%
%RSD		1.381	1.589	4.495	1.841	0.916	1.153	2.248	1.754
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:00:03	1.683	1.677	137.200	136.700	136.900	75.070%		
2	21:00:46	1.751	1.707	140.300	137.900	139.000	76.646%		
3	21:01:29	1.712	1.728	136.900	134.000	135.300	78.826%		
X		1.715	1.704	138.100	136.200	137.100	76.847%		
σ		0.034	0.026	1.870	2.030	1.828	1.886%		
%RSD		1.980	1.507	1.354	1.490	1.334	2.454		



240-17669-C-3-A 12/22/2012 9:03:41 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	77.600%	8.047	51.330	52.150	0.000	757.200	37670.000	39310.000
2	21:05:07	74.871%	7.828	53.280	53.420	0.000	764.600	38680.000	40370.000
3	21:05:50	75.738%	8.163	51.910	52.010	0.000	744.500	37970.000	39900.000
X		76.070%	8.013	52.170	52.520	0.000	755.400	38100.000	39860.000
σ		1.394%	0.170	1.003	0.775	0.000	10.170	517.800	529.700
%RSD		1.833	2.127	1.923	1.476	0.000	1.346	1.359	1.329
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	163100.000	2813.000	0.000	16690.000	50890.000	52470.000	94.158%	815.500
2	21:05:07	167800.000	2844.000	0.000	16740.000	51770.000	53100.000	92.026%	815.400
3	21:05:50	163900.000	2782.000	0.000	16670.000	51210.000	53340.000	89.963%	815.300
X		165000.000	2813.000	0.000	16700.000	51290.000	52970.000	92.049%	815.400
σ		2475.000	30.950	0.000	35.030	447.100	452.700	2.097%	0.093
%RSD		1.501	1.100	0.000	0.210	0.872	0.855	2.279	0.011
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	290.000	241.700	3447.000	294900.000	310700.000	105.700	249.600	182.800
2	21:05:07	291.600	244.200	3479.000	296900.000	311200.000	104.500	246.600	181.400
3	21:05:50	292.900	241.900	3490.000	299100.000	312500.000	105.800	247.400	183.100
X		291.500	242.600	3472.000	296900.000	311500.000	105.300	247.900	182.400
σ		1.432	1.367	22.180	2129.000	958.400	0.714	1.575	0.905
%RSD		0.491	0.564	0.639	0.717	0.308	0.678	0.635	0.496
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	184.000	591.100	601.500	121.500	4.433	6.211	0.000	152.900
2	21:05:07	182.900	596.500	607.900	121.800	4.386	6.267	0.000	154.400
3	21:05:50	184.600	602.300	613.800	123.300	4.218	7.392	0.000	154.700
X		183.800	596.600	607.700	122.200	4.346	6.623	0.000	154.000
σ		0.827	5.606	6.140	0.952	0.113	0.666	0.000	0.964
%RSD		0.450	0.940	1.010	0.779	2.601	10.060	0.000	0.626
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	0.000	13.500	13.510	77.639%	0.518	0.402	2.029	1.498
2	21:05:07	0.000	13.270	13.460	77.662%	0.510	0.375	2.180	1.574
3	21:05:50	0.000	13.300	13.390	77.228%	0.506	0.369	2.070	1.547
X		0.000	13.360	13.460	77.510%	0.511	0.382	2.093	1.540
σ		0.000	0.120	0.063	0.244%	0.006	0.018	0.078	0.038
%RSD		0.000	0.900	0.470	0.315	1.213	4.594	3.710	2.494
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:04:24	80.310%	10.710	0.997	1.039	908.300	905.500	86.559%	84.839%
2	21:05:07	80.656%	10.920	0.979	1.027	916.500	916.800	87.551%	86.249%
3	21:05:50	80.657%	10.900	0.980	0.999	915.200	912.700	88.311%	86.573%
X		80.541%	10.840	0.986	1.022	913.300	911.700	87.473%	85.887%
σ		0.200%	0.117	0.010	0.021	4.423	5.714	0.879%	0.922%
%RSD		0.249	1.077	1.035	2.030	0.484	0.627	1.005	1.074
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:04:24	2.147	2.138	172.500	168.700	169.600	73.938%		
2	21:05:07	2.109	2.158	171.600	169.500	170.900	75.722%		
3	21:05:50	2.214	2.168	174.500	170.700	172.600	75.298%		
X		2.157	2.155	172.900	169.600	171.100	74.986%		
σ		0.053	0.015	1.489	0.974	1.478	0.932%		
%RSD		2.477	0.702	0.862	0.574	0.864	1.243		

240-17669-C-4-A 12/22/2012 9:07:59 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	73.199%	7.070	27.820	27.970	0.000	633.500	26970.000	28180.000
2	21:09:25	72.187%	7.230	27.210	27.090	0.000	627.300	26920.000	28390.000
3	21:10:08	72.072%	6.939	25.920	28.160	0.000	628.700	26690.000	28390.000
X		72.486%	7.079	26.980	27.740	0.000	629.800	26860.000	28320.000
σ		0.620%	0.145	0.968	0.569	0.000	3.255	150.900	124.700
%RSD		0.855	2.054	3.587	2.051	0.000	0.517	0.562	0.440
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	114800.000	2780.000	0.000	10430.000	22640.000	23780.000	85.241%	588.800
2	21:09:25	115800.000	2782.000	0.000	10310.000	22900.000	24010.000	80.848%	593.900
3	21:10:08	115300.000	2798.000	0.000	10440.000	23100.000	24230.000	80.670%	595.100
X		115300.000	2787.000	0.000	10390.000	22880.000	24000.000	82.253%	592.600
σ		513.500	9.720	0.000	70.680	231.800	226.300	2.590%	3.379
%RSD		0.445	0.349	0.000	0.680	1.013	0.943	3.148	0.570
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	213.000	220.700	5905.000	376100.000	407500.000	123.800	259.100	237.400
2	21:09:25	214.700	219.900	5980.000	383400.000	407700.000	123.000	257.400	240.100
3	21:10:08	215.400	222.600	6014.000	387100.000	413200.000	125.900	261.900	241.000
X		214.400	221.100	5966.000	382200.000	409400.000	124.200	259.500	239.500
σ		1.212	1.384	55.470	5580.000	3216.000	1.491	2.241	1.894
%RSD		0.565	0.626	0.930	1.460	0.785	1.200	0.864	0.791
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	238.900	882.500	893.900	177.000	3.459	6.535	0.000	106.100
2	21:09:25	241.300	899.300	918.100	182.400	3.916	6.738	0.000	107.700
3	21:10:08	241.700	903.300	916.500	180.700	3.710	6.227	0.000	106.900
X		240.600	895.100	909.500	180.000	3.695	6.500	0.000	106.900
σ		1.493	11.010	13.520	2.741	0.229	0.257	0.000	0.778
%RSD		0.621	1.230	1.486	1.523	6.198	3.960	0.000	0.728
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	0.000	15.520	15.960	73.031%	0.294	0.177	2.489	1.990
2	21:09:25	0.000	15.660	15.890	71.635%	0.286	0.182	2.510	1.947
3	21:10:08	0.000	15.900	15.940	71.279%	0.312	0.188	2.375	1.922
X		0.000	15.700	15.930	71.982%	0.297	0.182	2.458	1.953
σ		0.000	0.194	0.038	0.926%	0.014	0.006	0.073	0.034
%RSD		0.000	1.234	0.241	1.286	4.541	3.093	2.959	1.763
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:42	76.000%	9.191	1.382	1.418	689.400	688.700	86.811%	84.877%
2	21:09:25	74.802%	9.275	1.381	1.319	701.300	695.200	86.612%	85.101%
3	21:10:08	74.189%	9.491	1.428	1.408	705.500	702.900	85.775%	84.422%
X		74.997%	9.319	1.397	1.382	698.700	695.600	86.399%	84.800%
σ		0.921%	0.155	0.027	0.054	8.355	7.125	0.550%	0.346%
%RSD		1.228	1.659	1.945	3.930	1.196	1.024	0.637	0.408
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:08:42	1.821	1.809	223.800	221.600	223.500	73.226%		
2	21:09:25	1.858	1.850	228.100	225.800	226.500	73.154%		
3	21:10:08	1.882	1.864	228.600	228.700	228.000	73.147%		
X		1.854	1.841	226.800	225.400	226.000	73.176%		
σ		0.031	0.029	2.638	3.565	2.298	0.044%		
%RSD		1.660	1.562	1.163	1.582	1.017	0.060		

240-17669-C-5-A 12/22/2012 9:12:16 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	77.772%	5.378	24.140	23.640	0.000	438.200	23240.000	24520.000
2	21:13:42	76.093%	5.101	23.800	23.620	0.000	442.900	23320.000	24480.000
3	21:14:25	73.451%	5.464	23.900	23.680	0.000	444.300	23490.000	24840.000
X		75.772%	5.314	23.950	23.650	0.000	441.800	23350.000	24610.000
σ		2.178%	0.189	0.176	0.030	0.000	3.167	130.100	197.300
%RSD		2.875	3.563	0.734	0.127	0.000	0.717	0.557	0.802
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	96430.000	2197.000	0.000	8934.000	12600.000	12400.000	83.768%	584.200
2	21:13:42	96970.000	2162.000	0.000	8755.000	12710.000	12290.000	80.974%	576.300
3	21:14:25	98980.000	2210.000	0.000	8850.000	12630.000	12310.000	80.328%	579.400
X		97460.000	2190.000	0.000	8846.000	12650.000	12330.000	81.690%	580.000
σ		1340.000	24.960	0.000	89.240	53.270	58.610	1.828%	3.982
%RSD		1.374	1.140	0.000	1.009	0.421	0.475	2.238	0.687
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	174.100	166.800	3363.000	234200.000	239600.000	100.100	214.600	176.700
2	21:13:42	176.000	165.100	3342.000	230900.000	234200.000	97.180	209.200	173.600
3	21:14:25	176.100	166.100	3359.000	233000.000	239000.000	98.510	212.100	175.600
X		175.400	166.000	3354.000	232700.000	237600.000	98.580	212.000	175.300
σ		1.157	0.848	11.220	1658.000	2927.000	1.437	2.696	1.608
%RSD		0.660	0.511	0.334	0.713	1.232	1.458	1.272	0.917
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	176.900	534.700	545.400	102.700	2.368	4.906	0.000	74.600
2	21:13:42	174.500	528.800	541.300	102.300	2.611	4.267	0.000	74.720
3	21:14:25	176.800	536.600	549.900	104.700	2.683	4.921	0.000	76.030
X		176.000	533.400	545.500	103.200	2.554	4.698	0.000	75.120
σ		1.359	4.079	4.300	1.316	0.165	0.373	0.000	0.794
%RSD		0.772	0.765	0.788	1.275	6.466	7.944	0.000	1.057
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	0.000	10.050	10.120	72.178%	0.322	0.199	2.031	1.509
2	21:13:42	0.000	10.100	10.140	72.706%	0.334	0.199	2.000	1.524
3	21:14:25	0.000	10.050	10.270	72.380%	0.324	0.185	1.800	1.385
X		0.000	10.070	10.180	72.422%	0.326	0.194	1.944	1.472
σ		0.000	0.026	0.085	0.266%	0.006	0.008	0.126	0.076
%RSD		0.000	0.254	0.837	0.368	1.907	4.222	6.461	5.179
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:59	73.777%	8.663	0.777	0.796	672.700	671.000	82.622%	82.178%
2	21:13:42	75.762%	8.566	0.784	0.773	667.200	667.000	84.823%	84.487%
3	21:14:25	75.961%	8.755	0.771	0.749	669.200	670.900	85.928%	84.933%
X		75.167%	8.662	0.777	0.772	669.700	669.600	84.458%	83.866%
σ		1.207%	0.094	0.007	0.024	2.795	2.253	1.683%	1.479%
%RSD		1.606	1.089	0.864	3.084	0.417	0.337	1.993	1.763
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:12:59	1.558	1.521	125.500	123.300	124.600	72.358%		
2	21:13:42	1.542	1.476	123.200	120.800	121.900	76.305%		
3	21:14:25	1.507	1.521	126.200	124.300	124.800	75.985%		
X		1.536	1.506	125.000	122.800	123.800	74.883%		
σ		0.026	0.026	1.601	1.799	1.617	2.193%		
%RSD		1.695	1.744	1.281	1.465	1.307	2.928		

240-17669-C-6-A 12/22/2012 9:16:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	75.064%	7.220	60.340	62.740	0.000	871.800	44210.000	45990.000
2	21:17:59	76.431%	7.077	60.240	60.570	0.000	856.000	43160.000	44980.000
3	21:18:42	74.367%	7.459	62.760	65.160	0.000	880.900	44310.000	47250.000
x		75.287%	7.252	61.110	62.820	0.000	869.600	43890.000	46070.000
σ		1.050%	0.193	1.427	2.297	0.000	12.630	635.600	1136.000
%RSD		1.395	2.659	2.334	3.656	0.000	1.453	1.448	2.466
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	130100.000	3400.000	0.000	18620.000	83630.000	85960.000	86.534%	720.800
2	21:17:59	128600.000	3382.000	0.000	18280.000	84250.000	86760.000	87.259%	733.500
3	21:18:42	133600.000	3456.000	0.000	18710.000	84850.000	87540.000	87.009%	736.800
x		130800.000	3413.000	0.000	18540.000	84240.000	86750.000	86.934%	730.400
σ		2586.000	38.640	0.000	224.900	606.900	790.100	0.368%	8.451
%RSD		1.977	1.132	0.000	1.213	0.720	0.911	0.423	1.157
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	209.800	204.700	3097.000	267200.000	278300.000	114.900	290.100	193.100
2	21:17:59	213.300	208.900	3139.000	271700.000	280000.000	116.100	290.000	193.500
3	21:18:42	214.800	209.200	3197.000	274400.000	286200.000	117.500	294.800	198.400
x		212.600	207.600	3144.000	271100.000	281500.000	116.100	291.700	195.000
σ		2.514	2.489	50.140	3630.000	4167.000	1.292	2.745	2.953
%RSD		1.183	1.199	1.594	1.339	1.480	1.112	0.941	1.514
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	194.000	570.300	577.400	118.500	2.543	4.908	0.000	188.000
2	21:17:59	195.200	572.100	587.000	117.900	2.507	5.196	0.000	191.700
3	21:18:42	198.400	578.300	590.600	120.200	2.583	5.515	0.000	194.400
x		195.900	573.600	585.000	118.900	2.544	5.206	0.000	191.400
σ		2.278	4.220	6.808	1.204	0.038	0.303	0.000	3.214
%RSD		1.163	0.736	1.164	1.013	1.500	5.830	0.000	1.679
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	0.000	11.620	11.380	74.025%	0.319	0.191	1.996	1.486
2	21:17:59	0.000	11.410	11.740	75.816%	0.330	0.199	2.273	1.683
3	21:18:42	0.000	11.510	11.770	76.242%	0.314	0.210	2.250	1.627
x		0.000	11.510	11.630	75.361%	0.321	0.200	2.173	1.599
σ		0.000	0.107	0.218	1.177%	0.008	0.009	0.154	0.101
%RSD		0.000	0.926	1.878	1.561	2.577	4.605	7.066	6.343
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:17:16	76.518%	10.300	0.743	0.789	748.400	747.800	85.179%	83.615%
2	21:17:59	78.771%	10.320	0.827	0.792	759.000	754.300	87.664%	86.837%
3	21:18:42	79.036%	10.500	0.756	0.748	768.200	767.500	88.793%	87.196%
x		78.108%	10.370	0.775	0.776	758.600	756.500	87.212%	85.883%
σ		1.384%	0.107	0.045	0.025	9.891	10.030	1.849%	1.972%
%RSD		1.772	1.032	5.798	3.161	1.304	1.326	2.120	2.296
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:17:16	1.869	1.848	131.800	129.100	130.300	73.059%		
2	21:17:59	1.873	1.893	134.400	132.200	133.100	75.073%		
3	21:18:42	1.934	1.955	135.500	133.100	134.100	75.454%		
x		1.892	1.899	133.900	131.500	132.500	74.529%		
σ		0.036	0.054	1.891	2.083	1.975	1.287%		
%RSD		1.919	2.827	1.413	1.585	1.491	1.727		

240-17669-C-7-A 12/22/2012 9:20:51 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	76.469%	7.812	71.430	71.500	0.000	925.900	52350.000	54780.000
2	21:22:17	74.928%	7.677	71.730	73.240	0.000	921.300	52560.000	55590.000
3	21:23:00	73.995%	8.021	71.330	72.420	0.000	925.400	52890.000	55910.000
x		75.131%	7.837	71.500	72.380	0.000	924.200	52600.000	55430.000
σ		1.249%	0.173	0.211	0.869	0.000	2.523	272.800	581.000
%RSD		1.663	2.209	0.295	1.201	0.000	0.273	0.519	1.048
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	137700.000	2491.000	0.000	22880.000	117100.000	121800.000	87.935%	812.400
2	21:22:17	138200.000	2498.000	0.000	23130.000	119800.000	124300.000	86.234%	820.900
3	21:23:00	138300.000	2523.000	0.000	23000.000	119800.000	124400.000	85.210%	830.300
x		138000.000	2504.000	0.000	23000.000	118900.000	123500.000	86.460%	821.200
σ		330.700	16.480	0.000	126.200	1567.000	1480.000	1.377%	8.959
%RSD		0.239	0.658	0.000	0.549	1.318	1.198	1.592	1.091
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	224.900	219.300	3493.000	284600.000	299100.000	130.900	324.500	195.900
2	21:22:17	221.500	221.900	3547.000	289300.000	302900.000	132.500	327.300	198.600
3	21:23:00	227.500	226.300	3595.000	293200.000	303400.000	132.700	330.900	201.000
x		224.600	222.500	3545.000	289000.000	301800.000	132.000	327.600	198.500
σ		3.031	3.552	50.940	4298.000	2351.000	0.994	3.194	2.530
%RSD		1.349	1.597	1.437	1.487	0.779	0.753	0.975	1.275
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	199.200	622.500	628.300	100.800	2.264	4.877	0.000	277.000
2	21:22:17	199.900	631.400	641.600	102.600	2.394	5.022	0.000	284.200
3	21:23:00	203.700	634.500	649.100	103.400	2.113	5.458	0.000	286.300
x		200.900	629.500	639.700	102.300	2.257	5.119	0.000	282.500
σ		2.421	6.236	10.520	1.347	0.141	0.302	0.000	4.905
%RSD		1.205	0.991	1.645	1.317	6.230	5.906	0.000	1.736
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	0.000	12.620	12.560	74.591%	0.289	0.129	2.426	1.783
2	21:22:17	0.000	12.640	12.920	74.222%	0.320	0.166	2.152	1.647
3	21:23:00	0.000	12.960	12.730	74.967%	0.316	0.148	2.410	1.730
x		0.000	12.740	12.740	74.593%	0.309	0.147	2.330	1.720
σ		0.000	0.193	0.181	0.372%	0.017	0.018	0.154	0.068
%RSD		0.000	1.511	1.425	0.499	5.570	12.400	6.597	3.981
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:34	77.250%	10.080	0.700	0.690	723.100	721.500	85.076%	83.655%
2	21:22:17	78.076%	10.630	0.673	0.712	736.100	733.600	86.196%	84.873%
3	21:23:00	78.123%	10.590	0.676	0.678	740.300	740.800	87.374%	86.376%
x		77.817%	10.430	0.683	0.693	733.200	732.000	86.215%	84.968%
σ		0.491%	0.308	0.015	0.017	8.959	9.731	1.149%	1.363%
%RSD		0.631	2.949	2.169	2.464	1.222	1.329	1.333	1.604
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:21:34	1.978	1.913	135.000	132.300	133.700	72.050%		
2	21:22:17	1.948	1.988	139.000	135.900	137.000	72.994%		
3	21:23:00	1.987	2.037	139.100	138.300	138.400	73.189%		
x		1.971	1.979	137.700	135.500	136.400	72.744%		
σ		0.021	0.063	2.322	3.020	2.415	0.610%		
%RSD		1.044	3.169	1.687	2.229	1.771	0.838		

MB 180-59062/1-A 12/22/2012 9:29:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	102.626%	-0.037	0.452	0.616	0.000	1.365	2.166	2.399
2	21:30:57	101.309%	-0.028	0.525	0.490	0.000	1.254	2.636	2.530
X		101.968%	-0.033	0.489	0.553	0.000	1.309	2.401	2.465
σ		0.931%	0.006	0.052	0.089	0.000	0.079	0.333	0.093
%RSD		0.913	19.760	10.680	16.150	0.000	5.996	13.850	3.770
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	4.757	-1.381	0.000	-7.033	15.780	13.850	116.032%	-0.025
2	21:30:57	5.143	-0.977	0.000	-7.320	15.330	14.830	115.362%	0.058
X		4.950	-1.179	0.000	-7.177	15.550	14.340	115.697%	0.016
σ		0.273	0.285	0.000	0.203	0.317	0.691	0.474%	0.058
%RSD		5.517	24.200	0.000	2.822	2.039	4.822	0.410	358.200
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	-0.081	0.083	0.087	26.580	29.100	-0.011	-0.010	0.007
2	21:30:57	0.028	0.098	0.115	20.800	22.630	-0.011	0.005	0.000
X		-0.027	0.091	0.101	23.690	25.860	-0.011	-0.002	0.004
σ		0.077	0.010	0.019	4.087	4.573	0.001	0.011	0.005
%RSD		287.700	11.070	19.090	17.250	17.680	4.666	465.700	138.100
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	-0.002	0.590	0.519	-0.516	-0.231	-2.023	0.000	0.030
2	21:30:57	-0.015	0.497	0.705	-0.378	-0.180	-1.719	0.000	0.024
X		-0.009	0.543	0.612	-0.447	-0.205	-1.871	0.000	0.027
σ		0.009	0.066	0.131	0.098	0.036	0.215	0.000	0.004
%RSD		105.000	12.080	21.440	21.850	17.580	11.480	0.000	13.640
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	101.719%	0.051	0.044	96.867%	-0.010	-0.013	0.038	0.017
2	21:30:57	101.914%	0.046	0.045	97.231%	-0.009	-0.008	0.024	0.013
X		101.816%	0.048	0.045	97.049%	-0.010	-0.011	0.031	0.015
σ		0.138%	0.003	0.000	0.257%	0.001	0.003	0.010	0.003
%RSD		0.136	6.707	0.674	0.265	7.289	30.800	32.560	21.030
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:30:14	93.695%	1.281	-0.103	-0.103	0.038	0.048	95.391%	96.006%
2	21:30:57	95.133%	1.484	-0.111	-0.107	0.094	0.091	98.341%	98.932%
X		94.414%	1.383	-0.107	-0.105	0.066	0.070	96.866%	97.469%
σ		1.017%	0.143	0.005	0.003	0.040	0.030	2.086%	2.069%
%RSD		1.077	10.380	4.843	2.473	60.230	43.210	2.154	2.123
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:30:14	-0.007	-0.005	0.037	0.046	0.039	100.771%		
2	21:30:57	-0.005	-0.002	0.041	0.027	0.035	102.670%		
X		-0.006	-0.003	0.039	0.037	0.037	101.721%		
σ		0.001	0.002	0.003	0.013	0.003	1.342%		
%RSD		14.700	67.300	7.229	36.390	8.245	1.320		

LCS 180-59062/2-A 12/22/2012 9:33:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	80.398%	866.900	78.180	78.130	0.000	8308.000	7950.000	8319.000
2	21:34:32	79.586%	860.000	76.980	77.340	0.000	8401.000	7934.000	8372.000
3	21:35:15	77.504%	844.400	77.180	78.050	0.000	8314.000	7992.000	8492.000
x		79.163%	857.100	77.450	77.840	0.000	8341.000	7959.000	8394.000
σ		1.493%	11.500	0.639	0.433	0.000	52.190	29.780	88.400
%RSD		1.886	1.342	0.825	0.556	0.000	0.626	0.374	1.053
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	8213.000	13.530	0.000	8619.000	9446.000	8973.000	83.782%	88.060
2	21:34:32	8308.000	13.760	0.000	8675.000	9585.000	9023.000	81.613%	86.400
3	21:35:15	8395.000	13.320	0.000	8534.000	9377.000	9020.000	80.130%	87.110
x		8305.000	13.540	0.000	8609.000	9469.000	9006.000	81.841%	87.190
σ		90.840	0.222	0.000	71.100	106.100	27.850	1.837%	0.834
%RSD		1.094	1.640	0.000	0.826	1.121	0.309	2.244	0.956
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	903.600	916.500	920.600	9401.000	8941.000	890.800	880.400	849.500
2	21:34:32	909.600	920.500	924.900	9292.000	9001.000	901.000	876.400	845.200
3	21:35:15	902.800	916.000	935.500	9463.000	9096.000	899.300	880.500	841.900
x		905.300	917.700	927.000	9385.000	9012.000	897.000	879.100	845.600
σ		3.697	2.490	7.662	86.540	77.830	5.431	2.311	3.806
%RSD		0.408	0.271	0.827	0.922	0.864	0.605	0.263	0.450
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	881.400	905.400	920.700	864.900	894.600	902.800	0.000	888.100
2	21:34:32	893.100	924.800	933.500	883.900	908.500	918.300	0.000	898.000
3	21:35:15	889.100	928.300	938.500	880.400	910.400	915.700	0.000	900.900
x		887.900	919.500	930.900	876.400	904.500	912.300	0.000	895.700
σ		5.990	12.310	9.186	10.140	8.639	8.289	0.000	6.677
%RSD		0.675	1.339	0.987	1.157	0.955	0.909	0.000	0.746
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	81.859%	84.270	84.190	81.020%	88.330	89.200	871.300	889.900
2	21:34:32	80.993%	85.520	85.400	80.426%	90.370	91.030	892.600	908.500
3	21:35:15	81.198%	85.330	86.130	80.405%	90.080	90.960	892.000	907.200
x		81.350%	85.040	85.240	80.617%	89.590	90.400	885.300	901.900
σ		0.452%	0.672	0.983	0.349%	1.106	1.040	12.130	10.360
%RSD		0.556	0.790	1.153	0.433	1.235	1.151	1.370	1.149
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:33:49	81.535%	92.360	83.820	83.870	836.400	836.000	84.902%	85.792%
2	21:34:32	81.466%	92.820	86.250	84.750	842.500	847.000	87.140%	88.028%
3	21:35:15	81.851%	93.200	85.650	85.870	847.300	847.300	87.024%	88.697%
x		81.617%	92.790	85.240	84.830	842.000	843.400	86.355%	87.506%
σ		0.205%	0.421	1.266	1.003	5.461	6.416	1.260%	1.521%
%RSD		0.251	0.454	1.485	1.182	0.648	0.761	1.459	1.738
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:33:49	211.900	211.900	849.600	896.100	889.200	80.556%		
2	21:34:32	215.800	216.900	864.000	910.800	903.400	82.029%		
3	21:35:15	216.300	216.400	862.000	907.600	900.500	83.094%		
x		214.700	215.100	858.500	904.800	897.700	81.893%		
σ		2.395	2.756	7.825	7.731	7.482	1.274%		
%RSD		1.116	1.281	0.911	0.854	0.834	1.556		

240-17796-F-1-A 12/22/2012 9:40:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	83.618%	4.718	15.710	16.230	0.000	220.700	14760.000	15560.000
2	21:41:48	77.222%	4.799	15.610	16.180	0.000	228.100	15190.000	15870.000
3	21:42:31	75.122%	4.562	15.930	16.220	0.000	220.000	14450.000	15350.000
X		78.654%	4.693	15.750	16.210	0.000	222.900	14800.000	15590.000
σ		4.425%	0.121	0.166	0.023	0.000	4.524	371.000	264.900
%RSD		5.626	2.570	1.055	0.140	0.000	2.029	2.507	1.699
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	78080.000	1642.000	0.000	6063.000	10030.000	9987.000	88.923%	577.900
2	21:41:48	78660.000	1670.000	0.000	6144.000	10600.000	10310.000	80.171%	599.200
3	21:42:31	76970.000	1609.000	0.000	6027.000	10150.000	9991.000	77.758%	590.600
X		77900.000	1641.000	0.000	6078.000	10260.000	10100.000	82.284%	589.200
σ		859.400	30.680	0.000	60.110	300.400	185.300	5.875%	10.710
%RSD		1.103	1.870	0.000	0.989	2.928	1.835	7.139	1.818
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	166.200	188.900	6201.000	228800.000	234100.000	76.910	169.900	121.900
2	21:41:48	175.800	197.300	6291.000	234000.000	241700.000	79.470	175.500	125.100
3	21:42:31	168.700	189.000	6154.000	229500.000	235300.000	77.180	169.300	121.400
X		170.300	191.700	6215.000	230700.000	237000.000	77.850	171.600	122.800
σ		5.001	4.808	69.660	2832.000	4056.000	1.405	3.415	2.045
%RSD		2.938	2.508	1.121	1.227	1.711	1.805	1.991	1.666
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	123.400	479.500	489.600	120.000	5.219	6.433	0.000	70.360
2	21:41:48	124.300	494.600	502.200	121.700	4.158	5.255	0.000	72.220
3	21:42:31	121.400	483.300	496.600	118.800	3.859	4.763	0.000	70.540
X		123.100	485.800	496.100	120.200	4.412	5.484	0.000	71.040
σ		1.519	7.837	6.281	1.420	0.715	0.858	0.000	1.026
%RSD		1.234	1.613	1.266	1.181	16.200	15.650	0.000	1.444
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	0.000	11.580	11.520	78.428%	0.223	0.178	1.499	1.227
2	21:41:48	0.000	11.830	11.940	73.829%	0.214	0.206	1.494	1.254
3	21:42:31	0.000	11.780	11.550	73.256%	0.220	0.188	1.406	1.270
X		0.000	11.730	11.670	75.171%	0.219	0.191	1.466	1.250
σ		0.000	0.133	0.236	2.835%	0.005	0.014	0.052	0.022
%RSD		0.000	1.132	2.025	3.771	2.161	7.461	3.556	1.734
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:41:05	79.948%	7.468	1.181	1.144	527.400	527.200	87.118%	86.805%
2	21:41:48	75.831%	7.527	1.142	1.146	536.500	535.900	85.564%	85.253%
3	21:42:31	76.176%	7.315	1.081	1.088	517.900	519.300	85.703%	86.069%
X		77.318%	7.437	1.135	1.126	527.300	527.400	86.129%	86.042%
σ		2.284%	0.109	0.050	0.033	9.313	8.267	0.860%	0.776%
%RSD		2.954	1.471	4.439	2.900	1.766	1.567	0.998	0.902
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:41:05	1.638	1.655	129.700	127.600	128.100	79.403%		
2	21:41:48	1.582	1.595	133.200	130.600	131.600	78.301%		
3	21:42:31	1.535	1.510	128.200	125.900	127.000	79.680%		
X		1.585	1.587	130.400	128.000	128.900	79.128%		
σ		0.051	0.073	2.564	2.426	2.410	0.729%		
%RSD		3.236	4.571	1.967	1.895	1.870	0.922		



CCV 664806 12/22/2012 9:47:37 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	74.500%	99.280	96.110	95.040	0.000	49330.000	45760.000	46910.000
2	21:49:03	73.710%	99.010	92.360	91.510	0.000	47440.000	44760.000	46680.000
3	21:49:46	73.533%	101.300	94.100	94.380	0.000	48450.000	45190.000	46360.000
X		73.914%	99.855%	94.191%	93.642%	0.000	96.812%	90.470%	93.299%
σ		0.515%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.697	1.233	1.991	2.008	0.000	1.947	1.108	0.594
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	475.600	5042.000	0.000	48130.000	47480.000	48840.000	84.018%	96.590
2	21:49:03	459.200	4999.000	0.000	48530.000	47890.000	49510.000	83.488%	97.820
3	21:49:46	458.100	5024.000	0.000	47690.000	47770.000	49980.000	82.201%	98.740
X		92.863%	100.433%	0.000	96.230%	95.426%	98.892%	83.236%	97.718%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.934%	n/a
%RSD		2.110	0.431	0.000	0.873	0.448	1.157	1.122	1.106
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	95.100	95.030	506.500	25560.000	25320.000	94.580	94.580	95.120
2	21:49:03	95.220	95.560	511.700	25530.000	25470.000	95.050	93.200	94.280
3	21:49:46	98.030	97.050	514.700	25600.000	25420.000	95.430	94.910	96.610
X		96.115%	95.880%	102.192%	102.266%	101.612%	95.019%	94.229%	95.334%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.724	1.092	0.818	0.135	0.287	0.446	0.963	1.236
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	95.190	99.140	99.120	97.730	101.300	100.300	0.000	95.360
2	21:49:03	95.000	99.800	101.000	97.990	102.000	103.600	0.000	96.670
3	21:49:46	96.330	102.100	102.900	99.130	104.800	105.000	0.000	97.370
X		95.507%	100.343%	101.025%	98.282%	102.676%	102.970%	0.000	96.466%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.755	1.544	1.888	0.757	1.790	2.317	0.000	1.054
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	80.204%	94.920	95.440	76.575%	96.140	96.520	98.800	99.730
2	21:49:03	81.596%	97.750	98.580	76.887%	96.520	96.900	100.500	100.700
3	21:49:46	81.917%	100.000	101.400	77.077%	98.150	98.380	101.400	101.900
X		81.239%	97.566%	98.491%	76.846%	96.937%	97.264%	100.235%	100.787%
σ		0.910%	n/a	n/a	0.254%	n/a	n/a	n/a	n/a
%RSD		1.121	2.619	3.051	0.330	1.098	1.009	1.311	1.089
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:20	77.608%	95.770	96.440	96.930	96.040	95.530	79.298%	82.185%
2	21:49:03	79.824%	97.560	97.930	97.160	96.250	96.360	82.286%	85.057%
3	21:49:46	80.146%	98.450	98.390	97.910	97.560	97.120	82.790%	85.950%
X		79.193%	97.260%	97.586%	97.333%	96.616%	96.334%	81.458%	84.397%
σ		1.382%	n/a	n/a	n/a	n/a	n/a	1.888%	1.967%
%RSD		1.745	1.403	1.045	0.529	0.851	0.825	2.317	2.331
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:48:20	95.950	95.330	96.240	95.780	95.860	77.783%		
2	21:49:03	97.070	96.950	97.030	96.970	97.000	79.933%		
3	21:49:46	97.420	97.420	98.160	97.650	97.510	80.835%		
X		96.814%	96.569%	97.144%	96.803%	96.789%	79.517%		
σ		n/a	n/a	n/a	n/a	n/a	1.568%		
%RSD		0.797	1.134	0.995	0.977	0.877	1.972		

CCB4 12/22/2012 9:55:36 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	91.333%	-0.006	0.560	0.501	0.000	1.129	2.351	2.699
2	21:57:02	90.814%	-0.009	0.504	0.460	0.000	1.105	2.624	2.776
3	21:57:45	87.736%	-0.008	0.383	0.388	0.000	1.517	2.624	2.848
X		89.961%	-0.008	0.482	0.450	0.000	1.250	2.533	2.774
σ		1.944%	0.002	0.090	0.057	0.000	0.232	0.158	0.075
%RSD		2.161	20.200	18.670	12.660	0.000	18.530	6.218	2.695
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	0.386	-2.758	0.000	-7.536	-3.151	1.133	103.481%	-0.066
2	21:57:02	0.416	-2.566	0.000	-7.639	1.465	1.315	102.244%	-0.016
3	21:57:45	0.439	-2.240	0.000	-6.765	1.352	2.256	99.665%	-0.047
X		0.414	-2.522	0.000	-7.313	-0.111	1.568	101.797%	-0.043
σ		0.027	0.262	0.000	0.477	2.633	0.603	1.947%	0.025
%RSD		6.444	10.390	0.000	6.528	2366.000	38.450	1.912	58.930
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	0.019	-0.011	0.357	3.951	10.930	-0.005	-0.024	-0.057
2	21:57:02	0.013	-0.006	0.346	1.412	8.744	0.001	-0.004	-0.051
3	21:57:45	0.025	0.013	0.321	2.914	7.599	-0.001	-0.034	-0.052
X		0.019	-0.002	0.341	2.759	9.090	-0.002	-0.021	-0.053
σ		0.006	0.013	0.019	1.276	1.692	0.003	0.015	0.003
%RSD		30.480	810.200	5.500	46.260	18.610	171.100	72.150	5.541
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	-0.053	-0.408	-0.579	-0.292	0.080	-0.782	0.000	0.015
2	21:57:02	-0.060	-0.484	-0.363	-0.225	0.057	-0.710	0.000	0.018
3	21:57:45	-0.066	-0.384	-0.406	-0.055	0.100	-0.188	0.000	0.015
X		-0.059	-0.425	-0.449	-0.191	0.079	-0.560	0.000	0.016
σ		0.007	0.052	0.115	0.122	0.021	0.325	0.000	0.002
%RSD		11.380	12.190	25.490	64.080	26.800	57.960	0.000	11.390
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	83.818%	0.257	0.237	88.724%	-0.006	-0.001	0.000	0.012
2	21:57:02	84.589%	0.208	0.217	88.527%	-0.002	-0.005	-0.012	-0.001
3	21:57:45	82.814%	0.165	0.182	87.088%	0.001	-0.002	-0.056	-0.049
X		83.740%	0.210	0.212	88.113%	-0.002	-0.003	-0.023	-0.013
σ		0.890%	0.046	0.028	0.893%	0.004	0.002	0.030	0.032
%RSD		1.063	21.860	13.130	1.014	146.800	67.370	131.300	250.500
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:19	87.207%	-0.366	-0.065	-0.065	-0.020	0.023	90.458%	91.765%
2	21:57:02	87.772%	-0.388	-0.060	-0.069	-0.023	0.024	91.724%	92.554%
3	21:57:45	87.097%	-0.410	-0.068	-0.049	-0.020	0.006	90.565%	91.568%
X		87.359%	-0.388	-0.064	-0.061	-0.021	0.018	90.916%	91.963%
σ		0.362%	0.022	0.004	0.011	0.002	0.010	0.702%	0.522%
%RSD		0.415	5.704	6.376	17.670	8.697	55.580	0.772	0.567
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:56:19	0.027	0.032	0.094	0.086	0.082	99.763%		
2	21:57:02	0.032	0.031	0.063	0.073	0.067	100.089%		
3	21:57:45	0.037	0.043	0.060	0.053	0.056	99.008%		
X		0.032	0.035	0.072	0.071	0.069	99.620%		
σ		0.005	0.007	0.019	0.017	0.013	0.555%		
%RSD		16.140	19.200	26.560	23.920	18.830	0.557		

240-17796-F-1-A SD@5 12/22/2012 9:59:57 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	85.939%	0.951	3.270	3.465	0.000	44.310	2832.000	2956.000
2	22:01:23	85.155%	0.916	3.692	3.705	0.000	43.940	2762.000	2971.000
3	22:02:06	82.217%	0.995	3.683	3.556	0.000	45.750	2882.000	3036.000
X		84.437%	0.954	3.548	3.575	0.000	44.670	2825.000	2988.000
σ		1.962%	0.039	0.241	0.121	0.000	0.954	60.270	42.260
%RSD		2.324	4.139	6.798	3.385	0.000	2.137	2.133	1.414
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	15640.000	323.100	0.000	1246.000	2089.000	2064.000	93.346%	116.600
2	22:01:23	15820.000	327.900	0.000	1251.000	2056.000	2075.000	91.332%	118.500
3	22:02:06	16090.000	338.200	0.000	1271.000	2226.000	2085.000	89.649%	118.000
X		15850.000	329.700	0.000	1256.000	2124.000	2075.000	91.442%	117.700
σ		229.600	7.748	0.000	13.280	90.110	10.590	1.851%	0.953
%RSD		1.448	2.350	0.000	1.058	4.243	0.510	2.024	0.809
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	32.920	37.290	1228.000	46990.000	46030.000	15.040	33.760	24.310
2	22:01:23	33.610	38.150	1255.000	48110.000	46870.000	15.200	34.130	25.080
3	22:02:06	33.830	38.550	1257.000	48600.000	47430.000	15.500	34.220	24.630
X		33.450	37.990	1247.000	47900.000	46780.000	15.250	34.040	24.680
σ		0.478	0.644	16.230	825.900	703.600	0.238	0.245	0.387
%RSD		1.428	1.696	1.302	1.724	1.504	1.560	0.721	1.570
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	24.070	100.700	100.300	23.360	0.446	-0.788	0.000	12.520
2	22:01:23	25.070	102.300	104.000	23.830	0.322	-0.520	0.000	12.540
3	22:02:06	24.940	103.200	103.900	24.070	0.504	-0.208	0.000	12.590
X		24.690	102.100	102.700	23.750	0.424	-0.505	0.000	12.550
σ		0.547	1.277	2.065	0.360	0.093	0.290	0.000	0.035
%RSD		2.215	1.252	2.010	1.516	22.010	57.500	0.000	0.278
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	97.832%	2.058	2.157	87.729%	0.032	0.035	0.232	0.235
2	22:01:23	99.466%	2.061	2.224	88.668%	0.032	0.021	0.254	0.210
3	22:02:06	98.875%	2.180	2.153	88.565%	0.038	0.025	0.240	0.223
X		98.724%	2.100	2.178	88.321%	0.034	0.027	0.242	0.223
σ		0.828%	0.070	0.040	0.515%	0.003	0.007	0.011	0.012
%RSD		0.838	3.319	1.832	0.583	9.457	26.370	4.612	5.453
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:40	87.674%	1.180	0.199	0.196	105.400	106.000	91.189%	91.729%
2	22:01:23	89.438%	1.163	0.149	0.183	106.700	107.500	94.497%	94.515%
3	22:02:06	89.401%	1.175	0.131	0.163	107.500	108.000	93.398%	95.054%
X		88.838%	1.173	0.160	0.181	106.500	107.200	93.028%	93.766%
σ		1.008%	0.009	0.035	0.016	1.055	1.080	1.685%	1.784%
%RSD		1.135	0.759	22.010	9.087	0.990	1.008	1.811	1.903
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:00:40	0.277	0.284	25.560	24.690	25.040	89.618%		
2	22:01:23	0.276	0.281	25.920	25.460	25.560	91.853%		
3	22:02:06	0.288	0.287	26.270	25.950	25.900	91.867%		
X		0.280	0.284	25.920	25.370	25.500	91.113%		
σ		0.006	0.003	0.353	0.635	0.432	1.295%		
%RSD		2.298	0.962	1.361	2.505	1.693	1.421		

240-17796-F-1-B DU 12/22/2012 10:04:16 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	77.133%	4.581	16.830	16.450	0.000	219.100	15070.000	15790.000
2	22:05:42	77.192%	4.535	16.160	16.180	0.000	219.800	15280.000	15850.000
3	22:06:25	74.818%	4.719	16.380	16.720	0.000	220.800	15250.000	16040.000
X		76.381%	4.612	16.460	16.450	0.000	219.900	15200.000	15890.000
σ		1.354%	0.096	0.343	0.266	0.000	0.832	112.700	131.000
%RSD		1.773	2.081	2.085	1.617	0.000	0.378	0.742	0.825
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	80700.000	1830.000	0.000	6335.000	10370.000	10090.000	85.081%	617.500
2	22:05:42	80660.000	1783.000	0.000	6226.000	10160.000	10070.000	82.824%	624.700
3	22:06:25	82950.000	1823.000	0.000	6367.000	10540.000	10260.000	80.071%	634.100
X		81430.000	1812.000	0.000	6309.000	10360.000	10140.000	82.659%	625.400
σ		1311.000	25.860	0.000	73.810	190.100	106.700	2.509%	8.329
%RSD		1.609	1.427	0.000	1.170	1.836	1.052	3.036	1.332
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	166.800	184.300	6006.000	218700.000	223600.000	77.340	170.400	121.100
2	22:05:42	169.700	189.900	6037.000	217700.000	222400.000	77.820	171.700	122.000
3	22:06:25	173.400	189.300	6118.000	221600.000	224800.000	78.210	171.100	122.100
X		170.000	187.800	6054.000	219300.000	223600.000	77.790	171.100	121.700
σ		3.335	3.072	58.020	2003.000	1189.000	0.438	0.665	0.559
%RSD		1.962	1.636	0.958	0.913	0.532	0.563	0.389	0.459
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	122.400	471.800	480.800	122.600	3.565	4.740	0.000	69.320
2	22:05:42	122.700	475.400	483.000	122.400	3.679	4.350	0.000	70.100
3	22:06:25	123.700	482.200	492.100	124.000	3.601	4.469	0.000	71.120
X		122.900	476.400	485.300	123.000	3.615	4.519	0.000	70.180
σ		0.679	5.287	5.997	0.852	0.058	0.200	0.000	0.905
%RSD		0.552	1.110	1.236	0.693	1.615	4.422	0.000	1.289
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	0.000	11.800	11.270	75.528%	0.226	0.208	1.301	1.200
2	22:05:42	0.000	11.400	11.740	74.389%	0.236	0.211	1.340	1.137
3	22:06:25	0.000	11.730	11.700	73.195%	0.223	0.206	1.328	1.205
X		0.000	11.640	11.570	74.370%	0.228	0.208	1.323	1.181
σ		0.000	0.215	0.263	1.167%	0.007	0.003	0.020	0.038
%RSD		0.000	1.848	2.274	1.569	2.925	1.330	1.508	3.184
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:59	77.468%	7.431	1.030	1.149	540.400	541.400	85.405%	85.406%
2	22:05:42	76.960%	7.456	1.160	1.162	548.900	546.700	85.496%	85.845%
3	22:06:25	75.876%	7.355	1.163	1.128	545.900	548.600	85.938%	85.356%
X		76.768%	7.414	1.118	1.146	545.100	545.600	85.613%	85.536%
σ		0.813%	0.052	0.076	0.017	4.292	3.707	0.285%	0.269%
%RSD		1.060	0.704	6.783	1.509	0.787	0.679	0.333	0.315
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:04:59	1.392	1.373	133.000	130.600	131.500	78.566%		
2	22:05:42	1.421	1.409	135.000	132.700	133.400	78.840%		
3	22:06:25	1.391	1.402	136.800	134.200	134.700	78.324%		
X		1.402	1.395	134.900	132.500	133.200	78.577%		
σ		0.017	0.019	1.857	1.832	1.620	0.258%		
%RSD		1.210	1.356	1.376	1.383	1.216	0.329		

240-17796-F-1-C MS 12/22/2012 10:08:36 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	66.972%	94.120	79.280	79.980	0.000	8681.000	26230.000	27270.000
2	22:10:02	65.250%	95.440	80.440	81.350	0.000	8594.000	26510.000	27670.000
3	22:10:45	65.704%	92.790	80.060	79.090	0.000	8166.000	25120.000	26540.000
X		65.975%	94.110	79.930	80.140	0.000	8480.000	25950.000	27160.000
σ		0.893%	1.326	0.593	1.139	0.000	275.900	735.700	572.300
%RSD		1.353	1.409	0.741	1.422	0.000	3.253	2.835	2.107
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	115900.000	1404.000	0.000	17100.000	19770.000	20610.000	73.853%	908.700
2	22:10:02	117300.000	1422.000	0.000	17440.000	20420.000	20920.000	70.967%	935.800
3	22:10:45	112400.000	1113.000	0.000	16330.000	19300.000	20160.000	70.785%	911.200
X		115200.000	1313.000	0.000	16960.000	19830.000	20560.000	71.869%	918.600
σ		2534.000	173.300	0.000	566.300	561.000	379.600	1.721%	14.960
%RSD		2.200	13.200	0.000	3.340	2.829	1.846	2.395	1.629
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	295.200	315.300	6176.000	257300.000	262800.000	164.400	280.300	218.700
2	22:10:02	301.300	321.400	6332.000	261900.000	267300.000	166.800	285.400	219.100
3	22:10:45	290.800	312.200	6176.000	255600.000	260400.000	160.500	276.100	214.700
X		295.800	316.300	6228.000	258300.000	263500.000	163.900	280.600	217.500
σ		5.294	4.705	89.820	3272.000	3540.000	3.158	4.668	2.424
%RSD		1.790	1.487	1.442	1.267	1.343	1.927	1.664	1.114
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	218.600	748.300	756.400	235.000	92.310	95.430	0.000	175.900
2	22:10:02	222.000	760.100	776.800	239.000	95.560	96.590	0.000	179.700
3	22:10:45	214.700	742.800	753.400	232.300	93.230	96.210	0.000	175.300
X		218.400	750.400	762.200	235.400	93.700	96.080	0.000	177.000
σ		3.643	8.823	12.720	3.401	1.675	0.591	0.000	2.371
%RSD		1.668	1.176	1.669	1.445	1.788	0.615	0.000	1.340
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	0.000	86.400	86.790	67.387%	82.580	82.710	86.780	87.120
2	22:10:02	0.000	88.080	89.000	67.078%	83.380	83.430	88.960	88.490
3	22:10:45	0.000	87.220	87.550	67.725%	81.210	80.970	85.570	85.480
X		0.000	87.240	87.780	67.397%	82.390	82.370	87.100	87.030
σ		0.000	0.840	1.123	0.323%	1.097	1.264	1.717	1.505
%RSD		0.000	0.963	1.279	0.480	1.332	1.534	1.972	1.730
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:09:19	71.882%	75.930	24.420	24.420	637.100	640.300	75.525%	74.752%
2	22:10:02	71.909%	77.240	25.070	24.760	643.400	648.000	76.327%	76.089%
3	22:10:45	73.562%	74.310	24.260	24.010	623.700	624.000	78.618%	78.491%
X		72.451%	75.820	24.580	24.400	634.700	637.400	76.823%	76.444%
σ		0.962%	1.468	0.426	0.373	10.030	12.250	1.605%	1.895%
%RSD		1.328	1.936	1.733	1.529	1.580	1.923	2.089	2.478
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:09:19	79.220	79.030	216.900	218.900	217.100	71.469%		
2	22:10:02	82.050	82.210	222.900	224.800	222.700	71.798%		
3	22:10:45	79.310	79.570	215.900	218.200	215.900	73.775%		
X		80.200	80.270	218.600	220.600	218.600	72.347%		
σ		1.610	1.702	3.801	3.625	3.653	1.247%		
%RSD		2.008	2.120	1.739	1.643	1.672	1.724		

240-17796-F-1-A PDS 12/22/2012 10:12:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	72.741%	50.290	863.500	861.200	0.000	44430.000	55440.000	57360.000
2	22:14:22	70.906%	50.680	874.900	867.100	0.000	43480.000	55160.000	57260.000
3	22:15:05	71.442%	50.380	864.700	883.500	0.000	43960.000	55170.000	57790.000
X		71.696%	50.450	867.700	870.600	0.000	43960.000	55260.000	57470.000
σ		0.943%	0.203	6.244	11.530	0.000	475.100	162.900	280.200
%RSD		1.316	0.403	0.720	1.324	0.000	1.081	0.295	0.487
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	77340.000	10270.000	0.000	48670.000	52560.000	54010.000	82.144%	1418.000
2	22:14:22	78380.000	10300.000	0.000	47960.000	52390.000	53870.000	81.595%	1421.000
3	22:15:05	79100.000	10390.000	0.000	49240.000	54410.000	54620.000	81.141%	1456.000
X		78270.000	10320.000	0.000	48630.000	53120.000	54170.000	81.627%	1431.000
σ		882.000	61.270	0.000	640.100	1119.000	403.000	0.502%	20.910
%RSD		1.127	0.594	0.000	1.316	2.107	0.744	0.615	1.461
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	651.700	368.200	6475.000	225700.000	228100.000	550.100	612.600	341.800
2	22:14:22	652.400	367.300	6478.000	223000.000	227900.000	550.600	615.400	338.700
3	22:15:05	661.800	371.700	6621.000	227300.000	233600.000	565.400	627.400	349.600
X		655.300	369.100	6525.000	225300.000	229800.000	555.400	618.500	343.400
σ		5.632	2.360	83.110	2172.000	3224.000	8.660	7.864	5.621
%RSD		0.859	0.639	1.274	0.964	1.403	1.559	1.272	1.637
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	346.500	906.100	922.800	154.000	13.380	15.590	0.000	1098.000
2	22:14:22	343.500	905.900	922.300	152.300	13.180	14.900	0.000	1102.000
3	22:15:05	349.200	925.400	945.200	156.300	12.770	15.670	0.000	1129.000
X		346.400	912.500	930.100	154.200	13.110	15.380	0.000	1109.000
σ		2.889	11.220	13.080	2.013	0.313	0.421	0.000	16.750
%RSD		0.834	1.229	1.406	1.306	2.387	2.736	0.000	1.510
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	0.000	979.400	978.700	67.716%	47.790	47.220	47.160	41.290
2	22:14:22	0.000	982.400	985.100	69.209%	47.670	47.400	46.640	41.820
3	22:15:05	0.000	1004.000	1010.000	69.512%	48.490	47.900	48.360	41.160
X		0.000	988.700	991.100	68.812%	47.990	47.510	47.390	41.420
σ		0.000	13.630	16.280	0.962%	0.441	0.351	0.880	0.348
%RSD		0.000	1.379	1.643	1.397	0.919	0.738	1.858	0.839
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:13:39	73.295%	1870.000	418.200	417.200	2304.000	2306.000	81.485%	81.046%
2	22:14:22	75.668%	1858.000	417.600	417.100	2305.000	2303.000	84.669%	84.440%
3	22:15:05	76.141%	1892.000	427.100	424.100	2333.000	2327.000	85.710%	85.102%
X		75.035%	1873.000	421.000	419.500	2314.000	2312.000	83.955%	83.529%
σ		1.525%	17.460	5.293	4.015	16.670	13.160	2.201%	2.176%
%RSD		2.032	0.932	1.257	0.957	0.721	0.569	2.622	2.605
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:13:39	50.080	50.010	152.200	149.600	150.800	69.427%		
2	22:14:22	49.550	49.840	150.100	147.700	148.700	72.636%		
3	22:15:05	49.920	49.930	151.000	149.500	150.100	73.993%		
X		49.850	49.930	151.100	149.000	149.900	72.019%		
σ		0.270	0.085	1.052	1.105	1.029	2.345%		
%RSD		0.542	0.170	0.696	0.742	0.686	3.256		

240-17796-D-2-A 12/22/2012 10:20:13 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	82.777%	5.066	31.510	31.960	0.000	451.200	21260.000	22270.000
2	22:21:39	84.162%	5.235	30.950	31.130	0.000	449.500	20850.000	22060.000
3	22:22:22	81.835%	5.220	31.320	31.720	0.000	456.700	21480.000	22650.000
X		82.925%	5.174	31.260	31.600	0.000	452.500	21190.000	22330.000
σ		1.171%	0.094	0.287	0.427	0.000	3.766	318.700	295.100
%RSD		1.412	1.812	0.919	1.352	0.000	0.832	1.504	1.322
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	85400.000	2705.000	0.000	8222.000	41810.000	43070.000	89.856%	644.800
2	22:21:39	84320.000	2634.000	0.000	7991.000	41660.000	43030.000	90.240%	649.000
3	22:22:22	86580.000	2708.000	0.000	8290.000	42310.000	44010.000	88.450%	653.900
X		85430.000	2682.000	0.000	8167.000	41930.000	43370.000	89.515%	649.200
σ		1132.000	42.040	0.000	156.800	340.900	552.500	0.943%	4.563
%RSD		1.325	1.568	0.000	1.920	0.813	1.274	1.053	0.703
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	164.500	173.900	4017.000	222700.000	228700.000	83.000	173.200	129.900
2	22:21:39	167.000	175.700	4060.000	223800.000	229100.000	83.000	172.300	128.500
3	22:22:22	171.500	176.500	4130.000	228600.000	234000.000	85.010	176.200	131.600
X		167.700	175.400	4069.000	225000.000	230600.000	83.670	173.900	130.000
σ		3.536	1.327	57.330	3137.000	2945.000	1.161	2.038	1.555
%RSD		2.109	0.757	1.409	1.394	1.277	1.388	1.172	1.196
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	129.700	404.600	411.700	113.200	3.680	5.771	0.000	168.400
2	22:21:39	130.900	408.300	414.200	114.800	3.865	5.456	0.000	170.700
3	22:22:22	131.700	414.800	425.700	116.700	3.891	5.782	0.000	174.400
X		130.800	409.200	417.200	114.900	3.812	5.670	0.000	171.200
σ		1.047	5.130	7.482	1.719	0.115	0.185	0.000	3.073
%RSD		0.800	1.254	1.793	1.496	3.024	3.260	0.000	1.796
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	0.000	13.230	13.300	76.920%	0.270	0.195	1.358	1.132
2	22:21:39	0.000	12.630	12.750	77.872%	0.257	0.184	1.292	1.073
3	22:22:22	0.000	12.650	12.780	77.558%	0.280	0.215	1.467	1.182
X		0.000	12.840	12.940	77.450%	0.269	0.198	1.373	1.129
σ		0.000	0.343	0.306	0.485%	0.012	0.015	0.088	0.054
%RSD		0.000	2.671	2.362	0.627	4.408	7.760	6.443	4.792
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:56	77.423%	11.130	1.153	1.210	514.800	517.500	82.961%	82.570%
2	22:21:39	79.523%	9.397	1.011	1.047	519.000	519.600	85.475%	85.219%
3	22:22:22	79.653%	8.905	0.941	0.976	524.700	522.000	86.225%	86.013%
X		78.866%	9.810	1.035	1.078	519.500	519.700	84.887%	84.601%
σ		1.252%	1.167	0.108	0.120	4.988	2.213	1.710%	1.803%
%RSD		1.588	11.900	10.450	11.140	0.960	0.426	2.014	2.131
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:20:56	1.408	1.411	133.400	131.500	131.700	75.509%		
2	22:21:39	1.368	1.350	134.600	133.800	133.900	76.978%		
3	22:22:22	1.382	1.386	137.500	135.100	136.100	77.330%		
X		1.386	1.382	135.100	133.400	133.900	76.606%		
σ		0.021	0.030	2.091	1.825	2.204	0.966%		
%RSD		1.485	2.201	1.547	1.368	1.646	1.260		

240-17796-F-3-A 12/22/2012 10:24:32 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	81.734%	4.057	18.230	18.220	0.000	238.100	16710.000	17610.000
2	22:25:58	75.851%	4.001	17.880	17.470	0.000	231.900	16290.000	17500.000
3	22:26:41	74.122%	4.087	17.440	17.650	0.000	227.900	16660.000	17600.000
X		77.236%	4.048	17.850	17.780	0.000	232.600	16550.000	17570.000
σ		3.991%	0.044	0.398	0.393	0.000	5.156	230.500	61.420
%RSD		5.167	1.082	2.228	2.209	0.000	2.217	1.393	0.350
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	63960.000	1560.000	0.000	6848.000	9833.000	9552.000	84.196%	479.400
2	22:25:58	63610.000	1517.000	0.000	6636.000	9824.000	9657.000	77.918%	475.000
3	22:26:41	62990.000	1506.000	0.000	6698.000	9857.000	9701.000	76.769%	474.900
X		63520.000	1528.000	0.000	6727.000	9838.000	9637.000	79.627%	476.400
σ		491.400	28.320	0.000	108.700	16.800	76.510	3.998%	2.567
%RSD		0.774	1.854	0.000	1.616	0.171	0.794	5.021	0.539
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	126.800	145.600	5074.000	231700.000	238100.000	77.020	194.400	170.600
2	22:25:58	122.300	144.400	5152.000	236100.000	240300.000	77.980	196.700	172.600
3	22:26:41	123.400	145.600	5050.000	232700.000	237800.000	77.080	194.600	171.400
X		124.200	145.200	5092.000	233500.000	238700.000	77.360	195.200	171.500
σ		2.352	0.678	53.600	2289.000	1342.000	0.536	1.262	0.970
%RSD		1.894	0.467	1.053	0.980	0.562	0.693	0.646	0.565
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	171.900	543.300	552.300	153.800	2.703	5.032	0.000	60.100
2	22:25:58	173.700	552.700	562.900	157.100	2.691	4.894	0.000	61.050
3	22:26:41	173.000	550.200	558.100	154.600	2.303	4.021	0.000	60.990
X		172.900	548.700	557.700	155.200	2.566	4.649	0.000	60.710
σ		0.898	4.854	5.329	1.691	0.228	0.548	0.000	0.530
%RSD		0.519	0.884	0.956	1.090	8.867	11.790	0.000	0.873
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	0.000	11.670	11.500	74.810%	0.225	0.161	1.486	1.329
2	22:25:58	0.000	11.910	11.740	71.654%	0.231	0.170	1.594	1.429
3	22:26:41	0.000	11.600	11.660	71.499%	0.203	0.169	1.492	1.336
X		0.000	11.730	11.630	72.654%	0.219	0.166	1.524	1.365
σ		0.000	0.162	0.126	1.869%	0.015	0.005	0.061	0.056
%RSD		0.000	1.382	1.083	2.572	6.745	3.030	3.975	4.100
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:15	75.694%	7.177	1.138	1.173	445.400	446.200	84.498%	83.811%
2	22:25:58	74.046%	7.029	1.212	1.169	444.200	443.800	83.779%	83.501%
3	22:26:41	73.711%	7.219	1.164	1.183	442.700	442.800	84.642%	84.214%
X		74.484%	7.141	1.171	1.175	444.100	444.300	84.306%	83.842%
σ		1.061%	0.100	0.038	0.007	1.360	1.774	0.463%	0.357%
%RSD		1.425	1.400	3.222	0.604	0.306	0.399	0.549	0.426
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:25:15	1.246	1.244	125.000	123.700	124.200	74.795%		
2	22:25:58	1.261	1.254	123.100	122.400	122.500	76.398%		
3	22:26:41	1.222	1.273	124.200	123.100	123.400	76.412%		
X		1.243	1.257	124.100	123.100	123.400	75.868%		
σ		0.020	0.014	0.938	0.620	0.850	0.929%		
%RSD		1.569	1.146	0.756	0.503	0.689	1.225		



240-17796-F-4-A 12/22/2012 10:28:50 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	77.356%	4.022	21.460	20.920	0.000	280.200	18900.000	19520.000
2	22:30:16	77.404%	3.776	20.460	20.450	0.000	277.200	18850.000	19670.000
3	22:30:59	75.489%	3.729	20.800	20.980	0.000	284.600	19010.000	20000.000
X		76.749%	3.842	20.910	20.780	0.000	280.700	18920.000	19730.000
σ		1.092%	0.157	0.512	0.290	0.000	3.704	79.400	247.000
%RSD		1.423	4.093	2.449	1.394	0.000	1.320	0.420	1.252
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	72050.000	1848.000	0.000	6883.000	12090.000	11850.000	80.801%	579.200
2	22:30:16	71570.000	1835.000	0.000	6775.000	12360.000	12060.000	78.329%	574.600
3	22:30:59	73310.000	1872.000	0.000	6878.000	12410.000	12120.000	76.715%	586.800
X		72310.000	1852.000	0.000	6845.000	12290.000	12010.000	78.615%	580.200
σ		896.700	18.520	0.000	60.730	176.200	140.900	2.058%	6.187
%RSD		1.240	1.000	0.000	0.887	1.434	1.173	2.617	1.066
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	148.000	188.600	3217.000	222300.000	226700.000	75.960	205.900	180.000
2	22:30:16	145.000	191.500	3302.000	227100.000	231800.000	77.720	208.800	183.400
3	22:30:59	148.200	191.700	3363.000	230800.000	236600.000	78.810	209.900	185.500
X		147.100	190.600	3294.000	226700.000	231700.000	77.500	208.200	183.000
σ		1.786	1.721	73.120	4262.000	4945.000	1.436	2.075	2.814
%RSD		1.215	0.902	2.220	1.880	2.134	1.853	0.997	1.538
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	180.900	539.600	546.400	129.500	2.083	3.976	0.000	65.210
2	22:30:16	183.600	547.200	557.400	131.100	2.238	4.258	0.000	66.400
3	22:30:59	187.700	562.100	572.600	133.100	1.930	4.571	0.000	67.040
X		184.100	549.700	558.800	131.300	2.084	4.268	0.000	66.220
σ		3.419	11.410	13.140	1.806	0.154	0.297	0.000	0.927
%RSD		1.857	2.076	2.352	1.376	7.386	6.967	0.000	1.400
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	0.000	11.540	11.250	70.352%	0.203	0.118	1.914	1.414
2	22:30:16	0.000	11.660	11.530	70.354%	0.206	0.111	1.878	1.519
3	22:30:59	0.000	11.780	11.710	69.739%	0.216	0.113	1.744	1.363
X		0.000	11.660	11.490	70.149%	0.208	0.114	1.845	1.432
σ		0.000	0.124	0.232	0.355%	0.007	0.004	0.089	0.079
%RSD		0.000	1.062	2.018	0.505	3.291	3.570	4.839	5.550
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:33	71.377%	6.982	0.987	0.950	444.200	443.300	79.973%	79.647%
2	22:30:16	71.802%	7.237	1.065	1.005	451.900	449.300	80.976%	81.076%
3	22:30:59	71.704%	7.099	0.993	0.979	454.300	450.600	81.548%	80.983%
X		71.627%	7.106	1.015	0.978	450.100	447.700	80.832%	80.569%
σ		0.222%	0.128	0.044	0.028	5.298	3.906	0.797%	0.800%
%RSD		0.311	1.803	4.307	2.825	1.177	0.872	0.986	0.993
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:29:33	1.377	1.419	117.000	115.600	115.700	71.531%		
2	22:30:16	1.382	1.401	118.600	117.600	117.700	72.906%		
3	22:30:59	1.410	1.434	119.500	117.600	118.300	73.300%		
X		1.389	1.418	118.400	116.900	117.200	72.579%		
σ		0.018	0.017	1.263	1.121	1.355	0.929%		
%RSD		1.288	1.171	1.067	0.959	1.156	1.280		

240-17796-F-5-A 12/22/2012 10:33:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	73.904%	5.279	18.060	18.110	0.000	276.100	22140.000	23090.000
2	22:34:34	72.988%	5.381	17.230	18.510	0.000	281.100	22180.000	23250.000
3	22:35:17	73.305%	5.469	18.950	18.660	0.000	275.600	21830.000	22960.000
X		73.399%	5.376	18.080	18.430	0.000	277.600	22050.000	23100.000
σ		0.465%	0.095	0.861	0.285	0.000	3.028	190.200	148.000
%RSD		0.634	1.769	4.761	1.545	0.000	1.091	0.862	0.641
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	86050.000	1803.000	0.000	8452.000	9694.000	9576.000	78.923%	645.900
2	22:34:34	86350.000	1805.000	0.000	8531.000	9957.000	9692.000	77.162%	647.600
3	22:35:17	85290.000	1795.000	0.000	8446.000	9884.000	9647.000	76.497%	663.600
X		85890.000	1801.000	0.000	8476.000	9845.000	9638.000	77.527%	652.400
σ		546.200	5.473	0.000	47.710	135.500	58.680	1.254%	9.754
%RSD		0.636	0.304	0.000	0.563	1.377	0.609	1.617	1.495
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	182.600	215.500	6092.000	281000.000	290700.000	115.200	249.800	196.200
2	22:34:34	181.800	220.100	6127.000	281500.000	290400.000	116.700	253.600	197.300
3	22:35:17	187.500	222.000	6251.000	286500.000	294200.000	116.700	255.400	197.300
X		184.000	219.200	6157.000	283000.000	291800.000	116.200	252.900	197.000
σ		3.062	3.336	83.320	3053.000	2135.000	0.850	2.834	0.645
%RSD		1.665	1.522	1.353	1.079	0.732	0.731	1.121	0.327
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	197.800	665.900	680.300	172.500	3.203	5.523	0.000	68.580
2	22:34:34	197.200	672.300	682.100	171.300	3.036	5.821	0.000	69.120
3	22:35:17	202.100	673.600	690.700	173.600	3.150	5.625	0.000	70.220
X		199.000	670.600	684.400	172.500	3.130	5.656	0.000	69.310
σ		2.700	4.134	5.602	1.122	0.086	0.151	0.000	0.832
%RSD		1.357	0.617	0.819	0.651	2.733	2.670	0.000	1.200
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	0.000	14.100	13.680	68.531%	0.295	0.206	2.139	1.806
2	22:34:34	0.000	13.980	13.930	69.097%	0.296	0.227	2.123	1.837
3	22:35:17	0.000	14.150	14.070	68.564%	0.305	0.197	1.975	1.614
X		0.000	14.080	13.890	68.731%	0.298	0.210	2.079	1.752
σ		0.000	0.084	0.199	0.318%	0.006	0.015	0.091	0.121
%RSD		0.000	0.597	1.436	0.462	1.880	7.267	4.370	6.904
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:51	70.048%	6.716	1.325	1.362	507.300	503.400	79.074%	78.133%
2	22:34:34	71.294%	6.788	1.278	1.214	509.900	505.900	80.798%	80.207%
3	22:35:17	71.156%	6.736	1.282	1.257	508.800	509.500	81.316%	80.771%
X		70.833%	6.747	1.295	1.278	508.600	506.300	80.396%	79.704%
σ		0.683%	0.037	0.026	0.076	1.298	3.041	1.174%	1.389%
%RSD		0.965	0.550	1.993	5.966	0.255	0.601	1.460	1.743
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:33:51	1.718	1.732	175.200	172.600	173.600	71.194%		
2	22:34:34	1.800	1.749	178.400	176.200	176.200	72.252%		
3	22:35:17	1.761	1.767	178.300	175.500	176.400	72.578%		
X		1.759	1.750	177.300	174.800	175.400	72.008%		
σ		0.041	0.018	1.855	1.889	1.576	0.724%		
%RSD		2.337	1.002	1.046	1.081	0.898	1.005		

240-17796-F-6-A 12/22/2012 10:37:26 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	76.278%	5.365	13.450	13.720	0.000	194.600	14550.000	15300.000
2	22:38:51	73.401%	5.332	14.150	13.650	0.000	195.000	14470.000	15190.000
3	22:39:34	72.396%	5.608	13.630	13.650	0.000	197.800	14620.000	15510.000
X		74.025%	5.435	13.740	13.680	0.000	195.800	14550.000	15330.000
σ		2.015%	0.151	0.362	0.041	0.000	1.734	72.130	161.900
%RSD		2.722	2.778	2.638	0.300	0.000	0.886	0.496	1.056
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	82910.000	1395.000	0.000	6488.000	11520.000	11290.000	78.647%	423.600
2	22:38:51	83280.000	1396.000	0.000	6362.000	11360.000	11210.000	76.784%	421.600
3	22:39:34	83620.000	1396.000	0.000	6454.000	11670.000	11420.000	74.063%	434.000
X		83270.000	1396.000	0.000	6434.000	11520.000	11310.000	76.498%	426.400
σ		352.600	0.922	0.000	65.140	151.100	107.600	2.305%	6.622
%RSD		0.423	0.066	0.000	1.012	1.312	0.951	3.014	1.553
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	161.800	182.800	10530.000	227400.000	231800.000	97.890	204.700	128.500
2	22:38:51	161.300	179.800	10510.000	228200.000	232800.000	97.830	203.800	128.600
3	22:39:34	167.200	186.800	11100.000	237400.000	242300.000	101.800	211.800	133.800
X		163.400	183.100	10710.000	231000.000	235600.000	99.160	206.700	130.300
σ		3.249	3.512	335.000	5583.000	5771.000	2.252	4.373	3.050
%RSD		1.988	1.918	3.128	2.417	2.449	2.271	2.115	2.341
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	128.800	502.100	510.800	182.600	3.455	5.129	0.000	78.120
2	22:38:51	130.600	508.900	513.500	180.200	3.702	5.473	0.000	78.200
3	22:39:34	132.900	525.600	535.200	187.900	3.310	5.243	0.000	80.450
X		130.800	512.200	519.800	183.500	3.489	5.282	0.000	78.920
σ		2.040	12.100	13.390	3.948	0.198	0.175	0.000	1.321
%RSD		1.560	2.362	2.576	2.151	5.678	3.314	0.000	1.674
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	0.000	13.390	13.480	69.381%	0.438	0.407	1.781	1.625
2	22:38:51	0.000	13.910	13.510	69.197%	0.420	0.401	1.852	1.534
3	22:39:34	0.000	14.150	13.740	68.853%	0.402	0.412	1.892	1.695
X		0.000	13.820	13.570	69.144%	0.420	0.407	1.842	1.618
σ		0.000	0.387	0.140	0.268%	0.018	0.006	0.056	0.081
%RSD		0.000	2.800	1.032	0.388	4.242	1.448	3.062	4.995
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:08	70.367%	7.124	3.380	3.352	711.600	708.600	78.196%	78.542%
2	22:38:51	70.958%	7.318	3.368	3.445	705.800	707.400	79.748%	80.309%
3	22:39:34	71.199%	7.359	3.370	3.396	719.200	718.800	80.038%	80.148%
X		70.841%	7.267	3.373	3.397	712.200	711.600	79.327%	79.667%
σ		0.428%	0.126	0.007	0.046	6.720	6.266	0.990%	0.977%
%RSD		0.604	1.726	0.195	1.364	0.944	0.880	1.248	1.226
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:38:08	1.357	1.357	190.600	188.300	188.500	71.620%		
2	22:38:51	1.332	1.368	187.000	185.200	185.400	74.600%		
3	22:39:34	1.406	1.388	192.900	190.500	191.300	73.653%		
X		1.365	1.371	190.100	188.000	188.400	73.291%		
σ		0.037	0.016	2.956	2.642	2.925	1.523%		
%RSD		2.744	1.146	1.555	1.405	1.552	2.078		

240-17796-F-7-A 12/22/2012 10:41:44 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	72.415%	4.457	13.790	14.350	0.000	223.400	20010.000	20790.000
2	22:43:10	73.337%	4.438	13.780	13.760	0.000	221.800	19710.000	20570.000
3	22:43:53	70.402%	4.655	14.060	14.560	0.000	226.100	20290.000	21190.000
X		72.051%	4.517	13.880	14.220	0.000	223.800	20000.000	20850.000
σ		1.501%	0.120	0.159	0.412	0.000	2.127	292.200	313.000
%RSD		2.084	2.662	1.147	2.895	0.000	0.950	1.460	1.501
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	79160.000	1365.000	0.000	7491.000	8401.000	8170.000	75.880%	604.300
2	22:43:10	78820.000	1345.000	0.000	7561.000	8490.000	8293.000	74.568%	596.700
3	22:43:53	80510.000	1382.000	0.000	7643.000	8521.000	8382.000	73.852%	613.900
X		79500.000	1364.000	0.000	7565.000	8471.000	8281.000	74.767%	604.900
σ		893.100	18.600	0.000	75.650	62.610	106.500	1.029%	8.626
%RSD		1.123	1.364	0.000	1.000	0.739	1.286	1.376	1.426
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	167.900	157.400	4972.000	258800.000	265000.000	100.300	200.700	188.400
2	22:43:10	166.900	159.100	5018.000	263600.000	270300.000	101.900	201.800	191.400
3	22:43:53	167.700	159.500	5092.000	265800.000	272500.000	102.500	201.800	190.200
X		167.500	158.700	5027.000	262700.000	269300.000	101.600	201.500	190.000
σ		0.517	1.150	60.920	3585.000	3841.000	1.128	0.659	1.533
%RSD		0.309	0.725	1.212	1.364	1.426	1.111	0.327	0.807
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	190.200	594.000	599.500	172.800	4.149	6.477	0.000	59.220
2	22:43:10	190.100	603.500	612.100	174.600	4.710	7.514	0.000	60.850
3	22:43:53	192.900	606.400	617.200	175.100	4.553	6.078	0.000	61.630
X		191.100	601.300	609.600	174.200	4.471	6.690	0.000	60.570
σ		1.610	6.524	9.124	1.205	0.289	0.741	0.000	1.231
%RSD		0.843	1.085	1.497	0.692	6.469	11.080	0.000	2.033
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	0.000	11.610	11.810	68.439%	0.163	0.112	1.806	1.491
2	22:43:10	0.000	11.890	12.160	67.920%	0.183	0.114	1.553	1.278
3	22:43:53	0.000	11.860	12.150	68.102%	0.170	0.142	1.697	1.366
X		0.000	11.790	12.040	68.154%	0.172	0.123	1.685	1.378
σ		0.000	0.151	0.198	0.263%	0.010	0.017	0.127	0.107
%RSD		0.000	1.284	1.641	0.386	5.900	13.790	7.518	7.743
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:27	69.021%	5.647	1.168	1.187	483.000	482.900	78.001%	76.873%
2	22:43:10	70.170%	5.709	1.185	1.198	485.600	482.300	79.441%	78.673%
3	22:43:53	70.144%	5.817	1.178	1.231	488.000	488.600	80.034%	79.263%
X		69.778%	5.724	1.177	1.205	485.600	484.600	79.159%	78.270%
σ		0.656%	0.086	0.009	0.023	2.515	3.486	1.045%	1.245%
%RSD		0.940	1.502	0.727	1.909	0.518	0.719	1.321	1.591
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:42:27	1.264	1.275	148.000	146.500	147.200	71.034%		
2	22:43:10	1.283	1.315	151.600	149.600	149.600	72.297%		
3	22:43:53	1.341	1.312	151.700	149.500	150.400	73.069%		
X		1.296	1.301	150.500	148.500	149.100	72.133%		
σ		0.040	0.022	2.107	1.756	1.677	1.028%		
%RSD		3.081	1.711	1.401	1.182	1.125	1.424		

CCV 664806 12/22/2012 10:48:55 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	71.854%	99.350	92.300	95.680	0.000	48220.000	45500.000	46120.000
2	22:50:21	72.219%	99.890	94.470	93.830	0.000	47520.000	45170.000	46510.000
3	22:51:04	70.426%	99.840	94.520	94.040	0.000	46780.000	44200.000	45480.000
x		71.500%	99.695%	93.767%	94.518%	0.000	95.014%	89.914%	92.066%
σ		0.948%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.325	0.302	1.352	1.070	0.000	1.523	1.505	1.131
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	465.500	4959.000	0.000	47820.000	47570.000	49090.000	77.021%	98.770
2	22:50:21	468.600	4973.000	0.000	48960.000	48290.000	50550.000	75.129%	98.830
3	22:51:04	459.500	4881.000	0.000	46560.000	47360.000	49200.000	76.595%	96.500
x		92.904%	98.750%	0.000	95.561%	95.482%	99.228%	76.248%	98.030%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.992%	n/a
%RSD		0.994	1.003	0.000	2.506	1.029	1.634	1.302	1.356
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	96.120	95.980	512.200	25640.000	25370.000	95.240	93.260	94.050
2	22:50:21	97.430	97.360	523.400	26290.000	25780.000	96.070	95.430	96.020
3	22:51:04	94.420	94.620	508.900	25180.000	24830.000	92.930	93.540	94.240
x		95.986%	95.989%	102.961%	102.809%	101.302%	94.744%	94.077%	94.768%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.571	1.428	1.474	2.164	1.884	1.719	1.255	1.148
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	94.610	99.320	100.200	96.610	100.300	99.890	0.000	94.890
2	22:50:21	95.690	101.700	101.500	96.960	102.100	103.400	0.000	96.280
3	22:51:04	92.690	98.890	99.710	95.070	99.650	100.500	0.000	93.420
x		94.328%	99.962%	100.464%	96.214%	100.670%	101.247%	0.000	94.865%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.613	1.503	0.906	1.042	1.231	1.835	0.000	1.506
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	74.202%	94.290	94.570	69.975%	95.480	96.240	99.270	100.200
2	22:50:21	76.109%	98.050	98.320	71.537%	96.570	97.180	99.620	101.600
3	22:51:04	77.470%	96.570	97.260	72.108%	94.400	94.890	97.650	99.070
x		75.927%	96.302%	96.717%	71.207%	95.482%	96.104%	98.844%	100.300%
σ		1.642%	n/a	n/a	1.104%	n/a	n/a	n/a	n/a
%RSD		2.162	1.966	1.999	1.551	1.137	1.201	1.064	1.269
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:49:38	70.402%	96.580	97.020	96.180	93.820	94.870	73.959%	75.161%
2	22:50:21	72.925%	96.430	96.720	96.720	95.120	94.560	77.448%	78.434%
3	22:51:04	74.225%	95.700	95.790	95.940	94.030	92.950	79.617%	81.023%
x		72.518%	96.239%	96.509%	96.278%	94.322%	94.126%	77.008%	78.206%
σ		1.944%	n/a	n/a	n/a	n/a	n/a	2.855%	2.938%
%RSD		2.680	0.488	0.662	0.414	0.740	1.095	3.707	3.757
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:49:38	94.160	94.160	94.740	94.230	94.210	72.660%		
2	22:50:21	95.600	95.710	96.540	96.070	95.690	75.263%		
3	22:51:04	93.660	93.850	94.270	94.740	94.380	77.203%		
x		94.472%	94.572%	95.185%	95.012%	94.758%	75.042%		
σ		n/a	n/a	n/a	n/a	n/a	2.280%		
%RSD		1.066	1.051	1.261	1.004	0.852	3.038		

CCB5 12/22/2012 10:56:55 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	89.189%	-0.008	0.794	0.698	0.000	1.566	2.708	3.048
2	22:58:21	85.116%	-0.010	0.563	0.758	0.000	1.487	2.570	3.091
3	22:59:04	86.421%	-0.011	0.620	0.653	0.000	1.508	2.835	2.820
X		86.909%	-0.009	0.659	0.703	0.000	1.520	2.704	2.986
σ		2.080%	0.002	0.121	0.053	0.000	0.041	0.133	0.146
%RSD		2.393	17.430	18.350	7.473	0.000	2.708	4.902	4.883
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	0.591	-2.742	0.000	-7.806	-3.024	2.301	97.157%	0.004
2	22:58:21	0.528	-2.295	0.000	-7.856	-2.856	3.766	92.785%	-0.020
3	22:59:04	0.471	-2.477	0.000	-8.098	6.942	4.313	93.399%	-0.031
X		0.530	-2.505	0.000	-7.920	0.354	3.460	94.447%	-0.015
σ		0.060	0.225	0.000	0.156	5.706	1.040	2.367%	0.018
%RSD		11.350	8.969	0.000	1.971	1612.000	30.070	2.506	116.900
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	0.005	0.002	0.353	5.427	13.430	-0.001	-0.014	-0.038
2	22:58:21	0.028	-0.006	0.334	1.932	10.940	-0.005	-0.018	-0.034
3	22:59:04	0.030	-0.001	0.323	-1.366	7.111	-0.002	-0.035	-0.047
X		0.021	-0.002	0.337	1.998	10.490	-0.003	-0.022	-0.040
σ		0.014	0.004	0.015	3.397	3.181	0.002	0.012	0.006
%RSD		64.970	206.500	4.487	170.000	30.320	77.950	51.930	16.180
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	-0.073	-0.402	-0.292	-0.149	-0.024	-0.736	0.000	0.018
2	22:58:21	-0.056	-0.357	-0.233	-0.149	-0.191	-0.781	0.000	0.014
3	22:59:04	-0.048	-0.291	-0.333	-0.262	-0.044	-1.296	0.000	0.017
X		-0.059	-0.350	-0.286	-0.187	-0.086	-0.938	0.000	0.016
σ		0.013	0.056	0.051	0.065	0.091	0.311	0.000	0.002
%RSD		21.500	15.920	17.690	34.710	106.000	33.200	0.000	12.070
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	77.910%	0.272	0.257	87.415%	-0.007	-0.005	0.024	0.017
2	22:58:21	78.260%	0.237	0.237	87.870%	0.002	-0.005	-0.042	-0.033
3	22:59:04	78.853%	0.187	0.181	88.213%	-0.002	-0.004	-0.027	-0.018
X		78.341%	0.232	0.225	87.832%	-0.002	-0.005	-0.015	-0.011
σ		0.477%	0.043	0.039	0.400%	0.005	0.001	0.035	0.026
%RSD		0.609	18.360	17.470	0.456	223.300	14.500	230.800	227.500
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:38	84.476%	-0.347	-0.060	-0.046	0.003	0.008	83.315%	84.074%
2	22:58:21	85.198%	-0.410	-0.060	-0.049	-0.010	0.018	85.041%	85.789%
3	22:59:04	84.624%	-0.469	-0.066	-0.058	0.015	0.018	85.364%	86.106%
X		84.766%	-0.409	-0.062	-0.051	0.003	0.015	84.574%	85.323%
σ		0.382%	0.061	0.003	0.006	0.012	0.006	1.102%	1.093%
%RSD		0.450	15.000	5.154	12.390	446.100	39.430	1.303	1.281
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:57:38	0.011	0.016	0.084	0.080	0.084	92.085%		
2	22:58:21	0.007	0.017	0.082	0.072	0.073	94.074%		
3	22:59:04	0.013	0.012	0.068	0.074	0.067	93.718%		
X		0.011	0.015	0.078	0.076	0.075	93.292%		
σ		0.003	0.003	0.009	0.004	0.008	1.061%		
%RSD		26.870	18.490	11.280	5.821	11.300	1.137		

240-17796-F-8-A 12/22/2012 11:01:16 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	79.006%	5.523	20.960	22.440	0.000	306.700	15630.000	16230.000	
2	23:02:42	75.302%	5.601	22.570	23.320	0.000	315.500	15870.000	16740.000	
3	23:03:25	73.871%	5.533	23.400	23.480	0.000	314.600	15640.000	16380.000	
X		76.060%	5.552	22.310	23.080	0.000	312.300	15710.000	16450.000	
		σ	2.650%	0.042	1.240	0.565	0.000	4.814	134.400	258.400
		%RSD	3.484	0.764	5.559	2.446	0.000	1.542	0.855	1.571
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	68740.000	2113.000	0.000	5813.000	17960.000	18760.000	83.649%	533.400	
2	23:02:42	71820.000	2139.000	0.000	5978.000	18800.000	19420.000	75.882%	554.100	
3	23:03:25	71090.000	2125.000	0.000	5919.000	18480.000	19130.000	74.972%	549.100	
X		70550.000	2126.000	0.000	5903.000	18410.000	19100.000	78.168%	545.500	
		σ	1609.000	12.990	0.000	83.750	422.400	328.100	4.769%	10.770
		%RSD	2.280	0.611	0.000	1.419	2.294	1.718	6.101	1.975
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	153.500	200.400	8110.000	277200.000	288300.000	82.680	194.700	143.300	
2	23:02:42	159.900	210.300	8503.000	291500.000	299700.000	85.090	201.200	150.600	
3	23:03:25	162.300	211.400	8451.000	289600.000	298600.000	85.700	202.000	149.100	
X		158.600	207.400	8354.000	286100.000	295500.000	84.490	199.300	147.700	
		σ	4.564	6.080	213.300	7769.000	6311.000	1.595	4.013	3.868
		%RSD	2.879	2.932	2.553	2.716	2.136	1.888	2.014	2.620
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	145.300	565.600	575.400	123.800	3.327	5.055	0.000	99.370	
2	23:02:42	151.000	589.300	603.100	126.700	3.171	5.144	0.000	102.900	
3	23:03:25	151.100	588.500	601.200	127.300	3.289	4.982	0.000	103.000	
X		149.100	581.100	593.200	126.000	3.262	5.060	0.000	101.700	
		σ	3.298	13.480	15.440	1.866	0.082	0.081	0.000	2.065
		%RSD	2.212	2.320	2.602	1.481	2.501	1.600	0.000	2.029
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	0.000	14.110	13.860	71.682%	0.274	0.233	1.998	1.749	
2	23:02:42	0.000	14.310	14.290	68.374%	0.284	0.232	1.954	1.755	
3	23:03:25	0.000	14.520	14.200	68.127%	0.287	0.279	1.964	1.650	
X		0.000	14.310	14.120	69.394%	0.282	0.248	1.972	1.718	
		σ	0.000	0.209	0.227	1.985%	0.007	0.027	0.023	0.059
		%RSD	0.000	1.457	1.609	2.860	2.551	10.870	1.154	3.422
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	23:01:59	71.806%	9.355	1.232	1.277	554.100	555.500	79.592%	79.686%	
2	23:02:42	69.974%	9.528	1.241	1.252	564.600	565.000	79.187%	79.251%	
3	23:03:25	69.972%	9.331	1.269	1.231	560.500	561.300	79.286%	79.763%	
X		70.584%	9.405	1.247	1.254	559.700	560.600	79.355%	79.567%	
		σ	1.058%	0.108	0.019	0.023	5.334	4.798	0.211%	0.276%
		%RSD	1.500	1.144	1.545	1.851	0.953	0.856	0.266	0.346
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi			
		ppb	ppb	ppb	ppb	ppb	ppb			
1	23:01:59	1.280	1.272	183.600	181.700	181.700	72.459%			
2	23:02:42	1.335	1.355	190.600	188.800	188.700	71.720%			
3	23:03:25	1.372	1.371	191.000	188.200	188.400	71.987%			
X		1.329	1.333	188.400	186.200	186.300	72.055%			
		σ	0.046	0.053	4.161	3.926	3.950	0.374%		
		%RSD	3.478	4.000	2.209	2.108	2.121	0.520		

240-17796-D-9-A 12/22/2012 11:05:35 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	73.383%	4.849	20.100	20.330	0.000	395.500	26680.000	27980.000
2	23:07:01	73.424%	4.918	20.530	20.620	0.000	386.500	26350.000	28130.000
3	23:07:44	74.244%	4.840	20.210	21.020	0.000	390.900	26540.000	28020.000
X		73.683%	4.869	20.280	20.660	0.000	390.900	26520.000	28040.000
σ		0.486%	0.043	0.224	0.348	0.000	4.466	167.900	77.200
%RSD		0.660	0.884	1.103	1.683	0.000	1.142	0.633	0.275
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	95620.000	1671.000	0.000	9308.000	19730.000	20290.000	77.803%	522.700
2	23:07:01	96430.000	1661.000	0.000	9282.000	19790.000	20640.000	76.157%	532.500
3	23:07:44	94920.000	1634.000	0.000	9331.000	20320.000	20910.000	74.482%	537.100
X		95650.000	1655.000	0.000	9307.000	19940.000	20610.000	76.147%	530.800
σ		756.200	19.300	0.000	24.570	325.000	311.700	1.660%	7.348
%RSD		0.790	1.166	0.000	0.264	1.630	1.512	2.180	1.384
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	169.400	202.800	3315.000	248500.000	253800.000	88.480	239.200	183.800
2	23:07:01	171.600	205.000	3384.000	253900.000	259100.000	90.740	244.700	189.100
3	23:07:44	176.200	208.600	3408.000	255300.000	261900.000	91.480	248.900	191.200
X		172.400	205.500	3369.000	252600.000	258300.000	90.230	244.200	188.100
σ		3.494	2.929	47.980	3610.000	4126.000	1.564	4.884	3.796
%RSD		2.026	1.425	1.424	1.429	1.598	1.733	2.000	2.019
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	185.500	539.500	548.100	144.700	2.403	3.793	0.000	88.070
2	23:07:01	193.900	557.800	569.900	147.700	2.520	4.202	0.000	90.580
3	23:07:44	192.900	559.100	569.000	147.300	2.134	3.867	0.000	91.630
X		190.700	552.100	562.300	146.600	2.352	3.954	0.000	90.090
σ		4.587	10.990	12.320	1.619	0.198	0.218	0.000	1.833
%RSD		2.405	1.990	2.190	1.104	8.412	5.511	0.000	2.035
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	0.000	11.860	12.060	67.439%	0.283	0.203	1.719	1.308
2	23:07:01	0.000	12.660	12.180	67.416%	0.312	0.225	1.946	1.536
3	23:07:44	0.000	12.390	12.440	67.232%	0.298	0.229	1.784	1.455
X		0.000	12.300	12.230	67.362%	0.298	0.219	1.816	1.433
σ		0.000	0.406	0.197	0.114%	0.015	0.014	0.117	0.116
%RSD		0.000	3.299	1.610	0.169	4.945	6.478	6.423	8.072
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:06:18	68.711%	7.669	0.783	0.813	441.000	439.300	77.346%	76.355%
2	23:07:01	69.611%	7.635	0.815	0.765	444.200	444.500	78.450%	77.843%
3	23:07:44	69.680%	7.744	0.781	0.755	446.100	446.600	78.641%	78.406%
X		69.334%	7.683	0.793	0.778	443.800	443.500	78.146%	77.535%
σ		0.541%	0.056	0.019	0.031	2.571	3.718	0.699%	1.060%
%RSD		0.780	0.723	2.377	4.004	0.579	0.838	0.895	1.367
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:06:18	1.371	1.365	130.000	128.100	128.500	70.071%		
2	23:07:01	1.421	1.385	132.800	131.200	131.600	70.600%		
3	23:07:44	1.421	1.448	133.700	131.800	132.200	70.570%		
X		1.404	1.399	132.200	130.300	130.800	70.414%		
σ		0.029	0.043	1.966	1.966	2.001	0.297%		
%RSD		2.061	3.092	1.488	1.508	1.530	0.422		



240-17796-D-10-A 12/22/2012 11:09:55 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	76.348%	4.195	21.510	21.420	0.000	248.500	15460.000	16050.000
2	23:11:21	72.357%	4.182	22.710	23.060	0.000	259.600	15930.000	16810.000
3	23:12:04	72.210%	4.367	23.470	23.500	0.000	264.300	16140.000	17010.000
x		73.638%	4.248	22.560	22.660	0.000	257.400	15840.000	16620.000
σ		2.348%	0.104	0.986	1.096	0.000	8.126	346.100	504.400
%RSD		3.188	2.439	4.371	4.837	0.000	3.157	2.184	3.035
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	78890.000	2179.000	0.000	5972.000	23360.000	24280.000	77.958%	560.700
2	23:11:21	80950.000	2238.000	0.000	6140.000	24520.000	25790.000	75.069%	573.100
3	23:12:04	82630.000	2279.000	0.000	6308.000	24620.000	25440.000	74.702%	575.000
x		80820.000	2232.000	0.000	6140.000	24160.000	25170.000	75.910%	569.600
σ		1873.000	50.300	0.000	168.000	699.500	790.400	1.784%	7.798
%RSD		2.317	2.254	0.000	2.736	2.895	3.140	2.350	1.369
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	157.400	182.400	2880.000	195900.000	198100.000	61.450	159.700	135.600
2	23:11:21	162.400	188.100	2978.000	201100.000	203200.000	63.180	164.900	141.700
3	23:12:04	167.500	190.600	3021.000	204800.000	209100.000	63.590	167.800	143.500
x		162.400	187.000	2960.000	200600.000	203400.000	62.740	164.200	140.300
σ		5.071	4.237	72.000	4474.000	5540.000	1.134	4.103	4.171
%RSD		3.122	2.265	2.433	2.231	2.723	1.807	2.500	2.974
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	137.300	519.100	531.000	92.660	3.534	5.050	0.000	103.400
2	23:11:21	142.500	541.900	547.600	95.730	3.566	5.036	0.000	107.800
3	23:12:04	144.400	542.600	559.100	97.200	4.078	5.410	0.000	109.800
x		141.400	534.500	545.900	95.190	3.726	5.165	0.000	107.000
σ		3.692	13.390	14.120	2.317	0.305	0.212	0.000	3.248
%RSD		2.611	2.505	2.586	2.434	8.184	4.105	0.000	3.036
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	0.000	11.280	11.360	69.447%	2.262	2.234	3.140	2.875
2	23:11:21	0.000	11.820	11.720	68.945%	2.303	2.365	3.020	2.865
3	23:12:04	0.000	11.840	11.640	68.900%	2.353	2.330	2.924	2.921
x		0.000	11.650	11.570	69.097%	2.306	2.310	3.028	2.887
σ		0.000	0.316	0.189	0.304%	0.045	0.068	0.108	0.030
%RSD		0.000	2.712	1.637	0.440	1.972	2.935	3.568	1.037
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:38	70.021%	11.400	1.187	1.152	525.400	522.800	76.895%	77.592%
2	23:11:21	70.468%	11.550	1.222	1.238	538.600	539.300	77.976%	78.236%
3	23:12:04	71.000%	11.880	1.197	1.254	545.800	542.100	78.508%	78.665%
x		70.497%	11.610	1.202	1.215	536.600	534.700	77.793%	78.165%
σ		0.490%	0.247	0.018	0.055	10.390	10.450	0.822%	0.540%
%RSD		0.695	2.125	1.513	4.511	1.936	1.954	1.057	0.691
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:10:38	1.178	1.201	202.800	201.900	200.700	72.524%		
2	23:11:21	1.265	1.250	211.300	209.000	208.800	73.263%		
3	23:12:04	1.269	1.265	212.700	210.000	210.300	73.924%		
x		1.237	1.239	208.900	206.900	206.600	73.237%		
σ		0.051	0.034	5.362	4.436	5.148	0.701%		
%RSD		4.135	2.721	2.566	2.143	2.492	0.957		

240-17796-D-11-A 12/22/2012 11:14:15 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	76.945%	5.396	28.200	28.670	0.000	560.200	45040.000	46550.000
2	23:15:41	78.440%	5.114	26.900	28.250	0.000	545.600	44050.000	46540.000
3	23:16:24	76.624%	5.406	28.500	28.910	0.000	561.000	45040.000	47150.000
x		77.336%	5.305	27.870	28.610	0.000	555.600	44710.000	46750.000
σ		0.969%	0.166	0.849	0.333	0.000	8.690	571.300	348.300
%RSD		1.253	3.122	3.045	1.165	0.000	1.564	1.278	0.745
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	92920.000	2719.000	0.000	12440.000	66750.000	68910.000	83.826%	641.400
2	23:15:41	92070.000	2681.000	0.000	12360.000	67240.000	69300.000	83.558%	646.700
3	23:16:24	93890.000	2688.000	0.000	12380.000	67070.000	69100.000	83.447%	655.400
x		92960.000	2696.000	0.000	12390.000	67020.000	69100.000	83.610%	647.800
σ		910.800	20.400	0.000	43.630	247.300	194.400	0.195%	7.090
%RSD		0.980	0.757	0.000	0.352	0.369	0.281	0.233	1.094
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	163.400	202.700	4950.000	303700.000	316300.000	118.500	302.900	235.000
2	23:15:41	165.400	204.000	5048.000	308300.000	325000.000	120.900	305.400	237.400
3	23:16:24	166.900	206.000	5040.000	308200.000	323100.000	120.500	302.900	236.700
x		165.200	204.200	5013.000	306700.000	321500.000	120.000	303.800	236.400
σ		1.743	1.633	54.640	2645.000	4558.000	1.284	1.452	1.255
%RSD		1.055	0.799	1.090	0.862	1.418	1.070	0.478	0.531
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	238.800	693.200	703.500	188.600	3.424	6.166	0.000	146.400
2	23:15:41	237.700	705.500	716.900	193.500	3.510	6.775	0.000	149.100
3	23:16:24	239.300	705.900	716.800	192.700	3.437	6.403	0.000	149.700
x		238.600	701.500	712.400	191.600	3.457	6.448	0.000	148.400
σ		0.826	7.202	7.689	2.670	0.046	0.306	0.000	1.798
%RSD		0.346	1.027	1.079	1.393	1.345	4.754	0.000	1.212
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	0.000	14.340	14.430	70.389%	0.361	0.268	2.134	1.646
2	23:15:41	0.000	14.690	14.960	70.929%	0.378	0.268	2.150	1.684
3	23:16:24	0.000	14.950	14.580	71.710%	0.395	0.281	2.149	1.683
x		0.000	14.660	14.660	71.009%	0.378	0.272	2.144	1.671
σ		0.000	0.307	0.270	0.664%	0.017	0.008	0.009	0.022
%RSD		0.000	2.097	1.841	0.935	4.588	2.894	0.425	1.294
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:58	70.632%	7.123	0.805	0.844	415.300	417.100	79.763%	78.314%
2	23:15:41	72.918%	7.179	0.812	0.821	419.700	417.800	82.414%	80.906%
3	23:16:24	73.687%	7.226	0.817	0.816	419.400	417.900	83.292%	81.488%
x		72.412%	7.176	0.811	0.827	418.100	417.600	81.823%	80.236%
σ		1.589%	0.051	0.006	0.015	2.464	0.473	1.838%	1.690%
%RSD		2.195	0.716	0.724	1.780	0.589	0.113	2.246	2.106
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:14:58	1.544	1.507	136.400	135.300	136.000	68.789%		
2	23:15:41	1.501	1.587	137.400	135.800	136.400	70.965%		
3	23:16:24	1.527	1.566	139.000	137.600	137.900	70.954%		
x		1.524	1.553	137.600	136.200	136.700	70.236%		
σ		0.022	0.041	1.319	1.213	1.014	1.253%		
%RSD		1.413	2.658	0.959	0.890	0.741	1.784		

240-17796-D-12-A 12/22/2012 11:18:35 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	81.445%	4.654	26.060	26.870	0.000	476.700	40830.000	43170.000
2	23:20:01	77.379%	4.771	27.780	27.560	0.000	495.300	42170.000	44580.000
3	23:20:44	79.327%	4.471	24.880	25.880	0.000	466.200	40140.000	42590.000
X		79.384%	4.632	26.240	26.770	0.000	479.400	41050.000	43450.000
σ		2.033%	0.151	1.461	0.842	0.000	14.710	1034.000	1022.000
%RSD		2.562	3.261	5.569	3.143	0.000	3.069	2.518	2.352
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	82300.000	2522.000	0.000	10870.000	64140.000	65920.000	86.746%	547.200
2	23:20:01	83830.000	2544.000	0.000	10790.000	64730.000	66100.000	84.597%	561.100
3	23:20:44	80990.000	2474.000	0.000	10500.000	63790.000	66290.000	83.031%	552.500
X		82380.000	2513.000	0.000	10720.000	64220.000	66100.000	84.791%	553.600
σ		1421.000	36.220	0.000	194.200	479.800	185.300	1.865%	7.065
%RSD		1.725	1.441	0.000	1.811	0.747	0.280	2.200	1.276
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	138.600	149.900	3947.000	256800.000	266300.000	105.900	247.900	176.700
2	23:20:01	143.000	153.200	4029.000	261700.000	270900.000	108.300	253.300	181.200
3	23:20:44	138.900	151.200	3977.000	257400.000	267600.000	107.100	249.500	180.000
X		140.200	151.500	3984.000	258600.000	268200.000	107.100	250.200	179.300
σ		2.465	1.652	41.370	2678.000	2361.000	1.163	2.742	2.331
%RSD		1.758	1.091	1.038	1.035	0.880	1.086	1.096	1.300
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	180.600	528.100	536.800	164.100	1.858	4.100	0.000	142.300
2	23:20:01	183.700	535.000	545.000	168.500	1.892	4.466	0.000	145.000
3	23:20:44	180.200	536.100	548.800	167.900	1.940	4.325	0.000	143.700
X		181.500	533.100	543.500	166.800	1.897	4.297	0.000	143.600
σ		1.920	4.333	6.111	2.401	0.041	0.185	0.000	1.361
%RSD		1.058	0.813	1.124	1.439	2.167	4.304	0.000	0.947
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	0.000	8.713	8.463	73.456%	0.271	0.172	1.737	1.309
2	23:20:01	0.000	8.634	8.588	73.706%	0.321	0.173	1.814	1.356
3	23:20:44	0.000	8.642	8.617	73.780%	0.318	0.189	1.726	1.280
X		0.000	8.663	8.556	73.647%	0.303	0.178	1.759	1.315
σ		0.000	0.044	0.081	0.170%	0.028	0.010	0.048	0.039
%RSD		0.000	0.502	0.951	0.231	9.152	5.479	2.713	2.948
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:18	73.837%	5.922	0.596	0.594	330.500	328.700	80.883%	79.700%
2	23:20:01	74.796%	6.054	0.623	0.589	331.900	331.600	82.884%	82.028%
3	23:20:44	76.152%	5.850	0.606	0.646	326.100	325.300	84.841%	83.908%
X		74.928%	5.942	0.609	0.610	329.500	328.500	82.869%	81.879%
σ		1.163%	0.103	0.014	0.032	3.022	3.156	1.979%	2.108%
%RSD		1.552	1.743	2.275	5.230	0.917	0.961	2.388	2.575
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:19:18	1.283	1.274	111.600	109.800	110.100	70.852%		
2	23:20:01	1.291	1.311	112.100	110.800	111.500	73.028%		
3	23:20:44	1.293	1.268	110.100	108.400	109.500	75.124%		
X		1.289	1.284	111.300	109.700	110.400	73.001%		
σ		0.006	0.024	1.056	1.220	1.028	2.136%		
%RSD		0.437	1.833	0.949	1.113	0.931	2.926		

240-17796-D-13-A 12/22/2012 11:22:55 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	77.592%	5.217	27.650	26.750	0.000	472.000	34370.000	35810.000
2	23:24:22	74.309%	5.336	27.550	27.580	0.000	482.200	34730.000	36340.000
3	23:25:04	73.778%	5.530	28.210	28.090	0.000	478.800	34380.000	35990.000
x		75.226%	5.361	27.800	27.480	0.000	477.600	34490.000	36050.000
σ		2.066%	0.158	0.356	0.677	0.000	5.202	204.900	271.700
%RSD		2.746	2.947	1.282	2.465	0.000	1.089	0.594	0.754
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	103700.000	2135.000	0.000	11150.000	33800.000	34840.000	84.508%	602.100
2	23:24:22	103400.000	2139.000	0.000	11100.000	33590.000	35340.000	80.829%	621.800
3	23:25:04	104900.000	2129.000	0.000	11270.000	34650.000	35750.000	77.287%	626.300
x		104000.000	2134.000	0.000	11170.000	34010.000	35310.000	80.875%	616.700
σ		802.600	4.860	0.000	90.750	558.200	456.300	3.611%	12.890
%RSD		0.772	0.228	0.000	0.812	1.641	1.292	4.465	2.090
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	183.300	324.900	4690.000	292500.000	307300.000	106.700	327.800	264.000
2	23:24:22	187.500	329.300	4746.000	295700.000	308700.000	107.400	328.000	264.600
3	23:25:04	191.900	337.200	4865.000	305000.000	317500.000	108.200	331.600	268.100
x		187.600	330.400	4767.000	297800.000	311200.000	107.500	329.200	265.500
σ		4.304	6.259	89.220	6516.000	5497.000	0.758	2.154	2.194
%RSD		2.295	1.894	1.872	2.188	1.766	0.706	0.654	0.826
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	263.900	687.800	698.000	173.900	3.095	6.636	0.000	103.900
2	23:24:22	265.400	697.700	710.100	174.900	2.998	6.388	0.000	106.300
3	23:25:04	270.000	709.600	722.900	177.100	3.205	6.617	0.000	106.700
x		266.400	698.400	710.300	175.300	3.099	6.547	0.000	105.600
σ		3.207	10.960	12.450	1.646	0.104	0.138	0.000	1.537
%RSD		1.204	1.569	1.753	0.939	3.356	2.109	0.000	1.456
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	0.000	18.410	18.450	71.831%	0.337	0.216	2.498	1.878
2	23:24:22	0.000	18.900	19.030	70.380%	0.333	0.204	2.314	1.858
3	23:25:04	0.000	18.960	19.410	69.135%	0.332	0.231	2.390	1.899
x		0.000	18.760	18.960	70.449%	0.334	0.217	2.401	1.879
σ		0.000	0.300	0.482	1.349%	0.002	0.013	0.093	0.021
%RSD		0.000	1.598	2.544	1.915	0.724	6.121	3.854	1.091
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:23:38	72.571%	7.111	0.903	0.943	484.500	483.600	83.244%	81.249%
2	23:24:22	71.952%	6.898	0.983	0.966	487.200	485.700	83.434%	81.895%
3	23:25:04	70.930%	7.093	0.894	0.991	494.700	493.200	82.459%	81.166%
x		71.818%	7.034	0.927	0.967	488.800	487.500	83.046%	81.437%
σ		0.829%	0.118	0.049	0.024	5.288	5.036	0.517%	0.399%
%RSD		1.154	1.682	5.262	2.507	1.082	1.033	0.622	0.490
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:23:38	1.635	1.558	150.000	146.700	147.800	71.134%		
2	23:24:22	1.577	1.551	150.400	149.800	149.800	71.654%		
3	23:25:04	1.557	1.622	152.900	151.100	151.900	70.797%		
x		1.590	1.577	151.100	149.200	149.800	71.195%		
σ		0.040	0.039	1.595	2.268	2.028	0.432%		
%RSD		2.535	2.471	1.056	1.520	1.353	0.607		

240-17796-D-14-A 12/22/2012 11:27:16 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	72.186%	4.705	26.110	28.310	0.000	467.400	30460.000	32180.000
2	23:28:42	71.498%	4.557	28.100	28.410	0.000	467.000	30550.000	32450.000
3	23:29:25	68.890%	4.912	30.030	29.060	0.000	488.900	31980.000	33670.000
X		70.858%	4.725	28.080	28.590	0.000	474.400	31000.000	32770.000
σ		1.738%	0.178	1.962	0.406	0.000	12.550	853.500	792.800
%RSD		2.453	3.772	6.986	1.419	0.000	2.645	2.753	2.419
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	86000.000	1155.000	0.000	12120.000	37730.000	39250.000	77.910%	513.400
2	23:28:42	85970.000	1158.000	0.000	12030.000	38480.000	40210.000	75.651%	526.100
3	23:29:25	88920.000	1198.000	0.000	12390.000	40090.000	41790.000	73.866%	536.000
X		86960.000	1171.000	0.000	12180.000	38770.000	40420.000	75.809%	525.200
σ		1697.000	24.080	0.000	187.100	1210.000	1283.000	2.026%	11.350
%RSD		1.951	2.057	0.000	1.536	3.121	3.173	2.673	2.161
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	142.700	193.400	3331.000	233400.000	235900.000	84.110	231.300	176.300
2	23:28:42	145.300	198.500	3398.000	237500.000	241900.000	86.400	233.500	176.200
3	23:29:25	149.800	204.200	3519.000	245300.000	249200.000	88.660	238.800	182.900
X		145.900	198.700	3416.000	238700.000	242300.000	86.390	234.500	178.400
σ		3.588	5.384	95.530	6077.000	6617.000	2.273	3.826	3.828
%RSD		2.459	2.709	2.796	2.545	2.731	2.632	1.632	2.145
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	174.500	611.700	624.700	153.200	2.179	3.799	0.000	95.710
2	23:28:42	179.500	626.300	637.800	157.000	2.100	3.604	0.000	99.170
3	23:29:25	185.000	646.700	660.100	163.800	2.314	4.358	0.000	103.000
X		179.700	628.300	640.900	158.000	2.197	3.920	0.000	99.300
σ		5.242	17.570	17.880	5.392	0.108	0.392	0.000	3.664
%RSD		2.918	2.797	2.791	3.412	4.930	9.991	0.000	3.690
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	0.000	12.490	12.420	70.052%	0.264	0.219	1.483	1.181
2	23:28:42	0.000	13.180	12.800	69.260%	0.261	0.199	1.247	1.026
3	23:29:25	0.000	13.470	13.260	68.284%	0.273	0.216	1.393	1.155
X		0.000	13.050	12.830	69.199%	0.266	0.211	1.374	1.120
σ		0.000	0.503	0.419	0.885%	0.006	0.011	0.119	0.083
%RSD		0.000	3.856	3.267	1.279	2.387	5.131	8.678	7.407
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:59	70.925%	7.099	0.629	0.615	367.700	363.900	77.521%	77.321%
2	23:28:42	70.877%	7.169	0.643	0.613	374.200	373.600	79.119%	78.858%
3	23:29:25	70.249%	7.403	0.644	0.699	384.400	383.200	78.816%	78.131%
X		70.684%	7.224	0.639	0.642	375.400	373.600	78.486%	78.103%
σ		0.377%	0.159	0.008	0.049	8.452	9.680	0.849%	0.769%
%RSD		0.534	2.206	1.298	7.684	2.251	2.591	1.082	0.985
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:27:59	1.150	1.110	115.600	113.900	114.100	73.927%		
2	23:28:42	1.176	1.212	117.700	115.900	116.300	75.709%		
3	23:29:25	1.268	1.253	122.100	120.500	120.700	74.587%		
X		1.198	1.192	118.500	116.800	117.100	74.741%		
σ		0.062	0.074	3.306	3.365	3.368	0.901%		
%RSD		5.161	6.176	2.791	2.881	2.877	1.206		

240-17796-D-15-A 12/22/2012 11:31:35 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	71.058%	5.452	29.430	30.800	0.000	486.000	39320.000	41410.000
2	23:33:01	71.650%	5.285	30.030	30.530	0.000	476.400	39330.000	41800.000
3	23:33:44	71.067%	5.363	30.000	30.620	0.000	491.300	39780.000	41640.000
X		71.258%	5.367	29.820	30.650	0.000	484.600	39480.000	41620.000
σ		0.339%	0.084	0.333	0.135	0.000	7.574	260.400	193.000
%RSD		0.476	1.559	1.117	0.441	0.000	1.563	0.660	0.464
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	90900.000	993.600	0.000	13010.000	45480.000	46660.000	79.505%	562.500
2	23:33:01	91840.000	894.400	0.000	13050.000	46340.000	47710.000	78.086%	561.700
3	23:33:44	92250.000	1007.000	0.000	13050.000	46490.000	47450.000	78.070%	567.400
X		91660.000	965.000	0.000	13040.000	46100.000	47270.000	78.553%	563.800
σ		688.600	61.510	0.000	24.350	541.400	544.900	0.824%	3.074
%RSD		0.751	6.374	0.000	0.187	1.174	1.153	1.049	0.545
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	149.700	170.600	3925.000	254900.000	260200.000	102.200	253.800	181.900
2	23:33:01	153.000	173.100	4005.000	260700.000	267100.000	104.100	257.600	185.900
3	23:33:44	151.300	174.100	4045.000	259100.000	268700.000	105.600	258.100	184.600
X		151.300	172.600	3992.000	258200.000	265300.000	103.900	256.500	184.200
σ		1.637	1.778	61.360	2986.000	4547.000	1.704	2.369	2.045
%RSD		1.082	1.030	1.537	1.156	1.714	1.639	0.923	1.110
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	183.200	647.800	660.400	178.400	2.167	4.022	0.000	117.400
2	23:33:01	185.700	656.900	673.700	182.300	2.293	3.868	0.000	119.900
3	23:33:44	187.500	664.300	675.700	184.800	2.082	4.297	0.000	120.700
X		185.400	656.300	669.900	181.800	2.181	4.062	0.000	119.300
σ		2.159	8.244	8.337	3.233	0.106	0.217	0.000	1.690
%RSD		1.165	1.256	1.244	1.778	4.874	5.349	0.000	1.416
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	0.000	7.972	8.016	70.065%	0.246	0.209	1.687	1.280
2	23:33:01	0.000	8.128	8.116	71.315%	0.259	0.187	1.695	1.406
3	23:33:44	0.000	8.168	8.202	72.001%	0.261	0.178	1.900	1.489
X		0.000	8.090	8.111	71.127%	0.255	0.191	1.761	1.392
σ		0.000	0.104	0.093	0.981%	0.008	0.016	0.121	0.105
%RSD		0.000	1.282	1.145	1.380	3.289	8.491	6.863	7.559
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:18	72.165%	6.319	0.569	0.575	361.200	362.000	80.357%	78.935%
2	23:33:01	73.453%	6.315	0.561	0.603	367.600	368.600	82.511%	81.829%
3	23:33:44	73.947%	6.390	0.593	0.636	368.700	367.500	83.005%	81.851%
X		73.188%	6.341	0.575	0.604	365.800	366.000	81.958%	80.872%
σ		0.920%	0.042	0.017	0.031	4.041	3.553	1.408%	1.677%
%RSD		1.257	0.669	2.916	5.054	1.105	0.971	1.717	2.074
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:32:18	1.273	1.257	106.900	105.100	105.900	74.217%		
2	23:33:01	1.285	1.282	107.500	106.600	107.100	76.301%		
3	23:33:44	1.279	1.272	108.600	107.800	107.700	76.436%		
X		1.279	1.270	107.600	106.500	106.900	75.651%		
σ		0.006	0.013	0.868	1.380	0.956	1.244%		
%RSD		0.444	1.010	0.807	1.295	0.894	1.644		

240-17796-D-16-A 12/22/2012 11:35:53 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	77.353%	3.916	23.700	24.020	0.000	390.900	26370.000	27290.000
2	23:37:19	76.291%	3.909	24.530	24.200	0.000	384.200	25800.000	27080.000
3	23:38:02	74.596%	4.060	24.600	24.620	0.000	389.400	26150.000	27640.000
X		76.080%	3.962	24.280	24.280	0.000	388.200	26100.000	27340.000
σ		1.391%	0.085	0.504	0.309	0.000	3.494	285.100	282.800
%RSD		1.828	2.149	2.078	1.273	0.000	0.900	1.092	1.034
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	70700.000	1630.000	0.000	9701.000	22140.000	22930.000	81.018%	519.100
2	23:37:19	69730.000	1624.000	0.000	9665.000	22400.000	23400.000	77.832%	520.300
3	23:38:02	70920.000	1624.000	0.000	9738.000	22650.000	23430.000	75.940%	525.200
X		70450.000	1626.000	0.000	9701.000	22400.000	23250.000	78.263%	521.500
σ		632.500	3.473	0.000	36.650	253.600	284.300	2.567%	3.220
%RSD		0.898	0.214	0.000	0.378	1.132	1.223	3.279	0.617
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	121.500	134.100	3164.000	209200.000	211800.000	79.820	196.100	154.100
2	23:37:19	121.700	135.400	3235.000	213200.000	215300.000	79.960	195.400	155.900
3	23:38:02	126.400	138.100	3276.000	216200.000	219300.000	80.890	199.400	157.000
X		123.200	135.900	3225.000	212900.000	215500.000	80.220	197.000	155.700
σ		2.730	2.053	56.310	3478.000	3784.000	0.584	2.152	1.455
%RSD		2.215	1.511	1.746	1.634	1.756	0.729	1.093	0.935
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	154.800	477.200	486.200	127.700	2.545	4.190	0.000	76.880
2	23:37:19	155.400	484.200	494.000	128.300	3.042	4.794	0.000	78.490
3	23:38:02	160.100	494.600	502.500	129.900	2.820	4.103	0.000	79.130
X		156.800	485.300	494.300	128.700	2.802	4.362	0.000	78.170
σ		2.895	8.740	8.166	1.140	0.249	0.376	0.000	1.161
%RSD		1.847	1.801	1.652	0.886	8.893	8.621	0.000	1.485
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	0.000	7.674	7.549	71.374%	0.318	0.224	1.723	1.350
2	23:37:19	0.000	7.744	7.786	70.445%	0.324	0.209	1.573	1.284
3	23:38:02	0.000	7.919	7.784	69.479%	0.326	0.204	1.514	1.215
X		0.000	7.779	7.707	70.433%	0.323	0.212	1.604	1.283
σ		0.000	0.126	0.136	0.948%	0.005	0.010	0.108	0.067
%RSD		0.000	1.622	1.768	1.345	1.395	4.917	6.718	5.246
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:36	71.465%	7.632	0.562	0.557	325.000	322.400	79.549%	78.848%
2	23:37:19	71.752%	7.755	0.507	0.589	325.000	325.100	80.516%	80.002%
3	23:38:02	70.994%	7.810	0.602	0.614	327.100	325.700	79.825%	79.519%
X		71.404%	7.732	0.557	0.587	325.700	324.400	79.964%	79.456%
σ		0.383%	0.091	0.047	0.029	1.246	1.786	0.498%	0.579%
%RSD		0.536	1.179	8.517	4.917	0.383	0.550	0.623	0.729
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:36:36	1.057	1.091	110.600	109.000	109.500	72.452%		
2	23:37:19	1.057	1.070	110.300	109.700	109.800	73.873%		
3	23:38:02	1.081	1.088	112.200	110.800	111.400	73.475%		
X		1.065	1.083	111.100	109.800	110.200	73.267%		
σ		0.014	0.011	1.033	0.929	1.016	0.733%		
%RSD		1.325	1.026	0.930	0.846	0.922	1.000		

240-17796-F-22-A 12/22/2012 11:40:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	76.696%	6.318	58.630	57.740	0.000	811.800	23770.000	25040.000
2	23:41:37	76.532%	6.145	56.050	57.370	0.000	792.900	23670.000	25010.000
3	23:42:20	76.686%	6.248	60.670	57.870	0.000	820.400	24500.000	25830.000
X		76.638%	6.237	58.450	57.660	0.000	808.300	23980.000	25290.000
σ		0.092%	0.087	2.318	0.259	0.000	14.070	455.600	465.800
%RSD		0.120	1.394	3.966	0.449	0.000	1.741	1.900	1.841
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	70700.000	5283.000	0.000	8343.000	138900.000	145900.000	79.065%	814.900
2	23:41:37	70300.000	5226.000	0.000	8514.000	142500.000	148600.000	76.167%	825.900
3	23:42:20	72650.000	5340.000	0.000	8508.000	143600.000	149000.000	75.296%	841.000
X		71220.000	5283.000	0.000	8455.000	141600.000	147800.000	76.843%	827.300
σ		1256.000	57.090	0.000	97.190	2461.000	1676.000	1.973%	13.080
%RSD		1.763	1.081	0.000	1.149	1.737	1.134	2.568	1.581
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	118.100	133.500	6620.000	138200.000	138700.000	42.290	101.500	87.590
2	23:41:37	118.600	136.000	6742.000	141500.000	142000.000	43.770	103.700	89.640
3	23:42:20	121.700	138.200	6863.000	144500.000	144900.000	44.210	106.700	91.950
X		119.400	135.900	6742.000	141400.000	141900.000	43.430	104.000	89.730
σ		1.945	2.384	121.300	3153.000	3076.000	1.006	2.642	2.185
%RSD		1.629	1.755	1.799	2.229	2.168	2.316	2.542	2.436
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	87.900	332.300	338.800	68.660	3.737	5.804	0.000	355.700
2	23:41:37	91.590	344.500	350.900	69.910	3.826	5.425	0.000	363.100
3	23:42:20	92.580	347.500	354.600	71.020	3.847	5.793	0.000	368.800
X		90.690	341.400	348.100	69.860	3.803	5.674	0.000	362.500
σ		2.466	8.050	8.262	1.179	0.058	0.216	0.000	6.573
%RSD		2.719	2.358	2.374	1.688	1.535	3.804	0.000	1.813
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	0.000	6.963	6.819	69.584%	0.306	0.208	1.781	1.335
2	23:41:37	0.000	6.806	7.093	70.236%	0.296	0.181	1.582	1.250
3	23:42:20	0.000	7.034	7.090	70.335%	0.277	0.225	1.739	1.303
X		0.000	6.935	7.001	70.052%	0.293	0.204	1.701	1.296
σ		0.000	0.117	0.157	0.408%	0.015	0.022	0.105	0.043
%RSD		0.000	1.682	2.249	0.582	5.111	10.760	6.164	3.303
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:54	70.431%	27.090	1.895	1.920	536.000	535.500	77.702%	77.918%
2	23:41:37	72.148%	27.520	1.900	1.925	539.800	539.100	79.893%	80.516%
3	23:42:20	72.171%	28.110	1.900	1.932	545.600	545.700	80.427%	80.616%
X		71.583%	27.580	1.898	1.926	540.400	540.100	79.340%	79.683%
σ		0.998%	0.510	0.003	0.006	4.832	5.184	1.444%	1.529%
%RSD		1.394	1.850	0.160	0.306	0.894	0.960	1.820	1.919
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:40:54	0.719	0.716	139.700	139.700	139.200	72.387%		
2	23:41:37	0.769	0.760	142.800	142.100	141.900	74.576%		
3	23:42:20	0.774	0.776	147.100	145.000	145.100	74.306%		
X		0.754	0.751	143.200	142.200	142.100	73.756%		
σ		0.030	0.032	3.703	2.628	2.937	1.193%		
%RSD		3.998	4.202	2.586	1.847	2.067	1.618		



CCV 664806 12/22/2012 11:47:26 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	73.789%	101.200	94.880	95.540	0.000	47400.000	43600.000	45800.000
2	23:48:52	71.397%	102.200	98.010	96.230	0.000	47920.000	44520.000	46650.000
3	23:49:35	69.629%	104.800	97.820	95.500	0.000	47750.000	44450.000	46790.000
x		71.605%	102.739%	96.902%	95.758%	0.000	95.381%	88.384%	92.828%
σ		2.088%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.916	1.790	1.810	0.423	0.000	0.548	1.157	1.147
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	467.400	4991.000	0.000	48010.000	47870.000	49870.000	80.249%	98.750
2	23:48:52	457.000	5006.000	0.000	48950.000	49120.000	50710.000	77.037%	99.930
3	23:49:35	480.900	5049.000	0.000	49700.000	49410.000	51010.000	74.755%	100.800
x		93.686%	100.313%	0.000	97.777%	97.603%	101.057%	77.347%	99.831%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.760%	n/a
%RSD		2.559	0.600	0.000	1.732	1.672	1.174	3.569	1.041
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	95.060	95.220	511.100	25380.000	25280.000	94.310	93.560	93.100
2	23:48:52	98.400	97.540	522.400	26070.000	25920.000	96.550	96.350	95.110
3	23:49:35	99.050	97.710	530.900	26230.000	26040.000	96.740	97.040	96.150
x		97.505%	96.826%	104.289%	103.581%	102.992%	95.863%	95.649%	94.788%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.198	1.439	1.902	1.742	1.585	1.410	1.927	1.637
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	94.360	98.350	99.450	96.770	101.200	100.700	0.000	94.980
2	23:48:52	95.370	101.100	100.200	97.700	101.900	101.300	0.000	96.730
3	23:49:35	96.620	103.400	102.800	99.350	102.800	104.800	0.000	96.540
x		95.451%	100.946%	100.809%	97.943%	101.944%	102.233%	0.000	96.083%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.185	2.489	1.715	1.336	0.802	2.153	0.000	1.002
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	76.899%	93.510	93.050	73.816%	94.070	94.670	97.930	98.620
2	23:48:52	77.135%	96.680	96.570	73.979%	94.710	96.430	98.300	100.200
3	23:49:35	77.300%	97.920	98.420	74.058%	94.970	96.330	98.880	101.500
x		77.111%	96.035%	96.013%	73.951%	94.584%	95.808%	98.367%	100.119%
σ		0.201%	n/a	n/a	0.123%	n/a	n/a	n/a	n/a
%RSD		0.261	2.367	2.845	0.167	0.487	1.031	0.487	1.435
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:48:09	73.437%	95.110	95.430	95.170	93.940	95.180	74.244%	75.083%
2	23:48:52	74.458%	96.890	96.660	97.080	95.710	95.660	76.306%	77.190%
3	23:49:35	74.496%	96.990	97.840	97.090	95.650	96.320	77.107%	78.038%
x		74.130%	96.329%	96.644%	96.449%	95.101%	95.721%	75.886%	76.770%
σ		0.601%	n/a	n/a	n/a	n/a	n/a	1.477%	1.522%
%RSD		0.810	1.101	1.246	1.146	1.058	0.600	1.946	1.982
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:48:09	93.720	94.050	95.020	94.440	93.890	73.895%		
2	23:48:52	95.890	95.780	96.000	96.340	95.880	75.863%		
3	23:49:35	97.210	96.900	97.380	97.130	96.830	76.300%		
x		95.603%	95.578%	96.134%	95.971%	95.532%	75.353%		
σ		n/a	n/a	n/a	n/a	n/a	1.281%		
%RSD		1.843	1.500	1.236	1.442	1.573	1.700		

CCB6 12/22/2012 11:55:23 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	92.133%	-0.001	0.803	0.564	0.000	1.398	2.863	3.111
2	23:56:48	88.724%	-0.005	0.497	0.584	0.000	2.034	3.332	3.563
3	23:57:31	88.840%	-0.021	0.541	0.462	0.000	1.657	3.185	3.127
X		89.899%	-0.009	0.614	0.536	0.000	1.696	3.126	3.267
σ		1.935%	0.010	0.165	0.066	0.000	0.320	0.240	0.256
%RSD		2.153	111.700	26.920	12.220	0.000	18.870	7.671	7.843
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	0.702	-2.227	0.000	-7.076	3.737	2.981	95.137%	-0.081
2	23:56:48	0.622	1.948	0.000	-7.706	0.290	2.521	92.197%	-0.087
3	23:57:31	0.601	-2.753	0.000	-8.583	5.818	2.938	92.693%	-0.044
X		0.641	-1.011	0.000	-7.788	3.282	2.813	93.343%	-0.071
σ		0.053	2.576	0.000	0.757	2.792	0.254	1.574%	0.023
%RSD		8.293	254.800	0.000	9.719	85.070	9.025	1.686	32.950
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	-0.033	-0.011	0.351	4.518	11.860	0.004	-0.022	-0.043
2	23:56:48	0.019	-0.012	0.344	1.268	10.220	-0.003	-0.024	-0.056
3	23:57:31	0.011	-0.031	0.307	-3.550	7.127	0.001	-0.037	-0.056
X		-0.001	-0.018	0.334	0.745	9.736	0.001	-0.028	-0.052
σ		0.028	0.011	0.024	4.059	2.402	0.003	0.008	0.007
%RSD		2809.000	63.260	7.061	544.800	24.670	508.100	29.100	13.960
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	-0.036	-0.563	-0.288	-0.184	-0.304	-0.746	0.000	0.013
2	23:56:48	-0.068	-0.588	-0.253	-0.433	-0.343	-2.031	0.000	0.017
3	23:57:31	-0.051	-0.564	-0.168	-0.447	-0.372	-1.695	0.000	0.019
X		-0.052	-0.572	-0.236	-0.354	-0.340	-1.491	0.000	0.016
σ		0.016	0.014	0.062	0.148	0.034	0.666	0.000	0.003
%RSD		30.860	2.439	26.200	41.710	10.060	44.710	0.000	18.810
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	80.379%	0.251	0.245	86.862%	-0.004	-0.005	-0.043	-0.023
2	23:56:48	81.895%	0.217	0.216	87.021%	-0.006	-0.010	-0.091	-0.076
3	23:57:31	81.000%	0.167	0.161	86.877%	-0.007	-0.004	-0.083	-0.068
X		81.091%	0.212	0.207	86.920%	-0.005	-0.006	-0.072	-0.055
σ		0.762%	0.043	0.042	0.087%	0.002	0.004	0.026	0.029
%RSD		0.940	20.090	20.390	0.101	28.590	56.590	35.880	51.720
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:56:05	82.422%	-0.357	-0.069	-0.063	0.023	0.018	81.306%	81.825%
2	23:56:48	82.578%	-0.413	-0.079	-0.059	-0.015	0.014	82.661%	83.657%
3	23:57:31	83.383%	-0.413	-0.076	-0.058	0.000	0.020	83.401%	84.883%
X		82.794%	-0.395	-0.075	-0.060	0.003	0.017	82.456%	83.455%
σ		0.516%	0.033	0.005	0.003	0.019	0.003	1.062%	1.539%
%RSD		0.623	8.289	6.986	4.700	633.900	19.580	1.288	1.844
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:56:05	0.004	0.008	0.092	0.091	0.096	90.938%		
2	23:56:48	0.010	0.004	0.101	0.093	0.089	91.375%		
3	23:57:31	0.004	0.002	0.074	0.083	0.082	93.388%		
X		0.006	0.005	0.089	0.089	0.089	91.900%		
σ		0.003	0.003	0.014	0.006	0.007	1.307%		
%RSD		51.900	58.830	15.590	6.274	8.228	1.422		

240-17796-F-23-A 12/22/2012 11:59:43 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	77.486%	4.864	18.390	18.060	0.000	403.300	24670.000	25690.000	
2	00:01:09	71.612%	5.166	17.200	17.900	0.000	394.500	24990.000	26150.000	
3	00:01:52	70.063%	5.054	17.500	18.810	0.000	401.700	24830.000	26150.000	
X		73.054%	5.028	17.700	18.260	0.000	399.800	24830.000	26000.000	
		σ	3.916%	0.152	0.617	0.483	0.000	4.661	162.800	266.700
		%RSD	5.360	3.031	3.487	2.644	0.000	1.166	0.655	1.026
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	84610.000	1268.000	0.000	11480.000	16610.000	17040.000	84.034%	456.600	
2	00:01:09	87320.000	1294.000	0.000	11410.000	16700.000	17120.000	75.970%	464.900	
3	00:01:52	87000.000	1040.000	0.000	11680.000	17020.000	17460.000	72.723%	474.600	
X		86310.000	1201.000	0.000	11520.000	16780.000	17210.000	77.575%	465.400	
		σ	1477.000	139.800	0.000	143.700	217.200	222.200	5.824%	9.039
		%RSD	1.712	11.640	0.000	1.247	1.295	1.291	7.507	1.942
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	151.100	175.400	3794.000	237700.000	244700.000	92.480	236.900	176.400	
2	00:01:09	158.400	180.900	3873.000	244300.000	248300.000	93.530	237.300	180.700	
3	00:01:52	158.800	181.600	3912.000	246900.000	250400.000	94.460	239.000	180.000	
X		156.100	179.300	3860.000	242900.000	247800.000	93.490	237.800	179.000	
		σ	4.338	3.384	60.100	4753.000	2872.000	0.992	1.101	2.291
		%RSD	2.779	1.887	1.557	1.956	1.159	1.061	0.463	1.280
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	177.400	566.600	575.100	152.700	2.511	4.280	0.000	92.210	
2	00:01:09	181.000	584.800	597.500	155.500	2.071	4.682	0.000	94.540	
3	00:01:52	180.500	591.400	594.900	155.100	2.132	4.180	0.000	95.440	
X		179.600	580.900	589.200	154.400	2.238	4.381	0.000	94.060	
		σ	1.939	12.820	12.280	1.529	0.238	0.266	0.000	1.667
		%RSD	1.079	2.208	2.084	0.990	10.660	6.069	0.000	1.772
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	0.000	9.603	9.333	72.704%	0.320	0.216	1.709	1.377	
2	00:01:09	0.000	9.500	9.577	69.143%	0.310	0.237	1.870	1.478	
3	00:01:52	0.000	9.676	9.663	67.006%	0.320	0.235	1.821	1.476	
X		0.000	9.593	9.524	69.617%	0.317	0.230	1.800	1.444	
		σ	0.000	0.088	0.172	2.879%	0.006	0.012	0.082	0.058
		%RSD	0.000	0.919	1.800	4.135	1.933	5.052	4.578	4.020
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:00:26	73.043%	7.142	0.795	0.731	573.800	572.600	82.000%	81.274%	
2	00:01:09	70.555%	6.985	0.797	0.755	573.800	572.500	80.505%	80.564%	
3	00:01:52	68.982%	6.973	0.774	0.808	572.500	575.800	79.650%	79.403%	
X		70.860%	7.033	0.789	0.765	573.400	573.600	80.718%	80.414%	
		σ	2.048%	0.094	0.013	0.039	0.762	1.906	1.190%	0.944%
		%RSD	2.890	1.336	1.599	5.122	0.133	0.332	1.474	1.175
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi			
		ppb	ppb	ppb	ppb	ppb	ppb			
1	00:00:26	1.146	1.164	120.700	118.500	119.200	74.878%			
2	00:01:09	1.174	1.165	121.500	120.100	121.100	74.482%			
3	00:01:52	1.167	1.179	122.900	121.200	121.800	74.096%			
X		1.162	1.169	121.700	119.900	120.700	74.485%			
		σ	0.015	0.008	1.066	1.366	0.391%			
		%RSD	1.267	0.700	0.876	1.139	1.107	0.525		

240-17796-F-24-A 12/23/2012 12:04:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	82.327%	4.577	21.830	22.100	0.000	376.200	22440.000	23240.000
2	00:05:28	80.331%	4.805	22.030	21.820	0.000	373.500	22430.000	23610.000
3	00:06:11	80.728%	4.686	23.610	22.690	0.000	371.600	22720.000	23800.000
X		81.129%	4.689	22.490	22.200	0.000	373.800	22530.000	23550.000
σ		1.057%	0.114	0.972	0.446	0.000	2.325	166.000	282.400
%RSD		1.303	2.423	4.322	2.009	0.000	0.622	0.737	1.199
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	74840.000	4060.000	0.000	10780.000	38490.000	40510.000	83.946%	520.300
2	00:05:28	76310.000	4181.000	0.000	11130.000	39850.000	40760.000	83.774%	524.600
3	00:06:11	74470.000	4096.000	0.000	11060.000	39430.000	40870.000	83.564%	532.600
X		75210.000	4112.000	0.000	10990.000	39260.000	40710.000	83.761%	525.800
σ		972.400	62.370	0.000	185.400	695.800	180.500	0.191%	6.267
%RSD		1.293	1.517	0.000	1.687	1.772	0.443	0.229	1.192
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	131.000	159.600	4151.000	193000.000	197000.000	60.960	186.800	140.700
2	00:05:28	132.400	162.700	4273.000	197900.000	201000.000	62.980	191.300	143.100
3	00:06:11	134.700	163.200	4234.000	195900.000	200100.000	62.040	192.700	144.900
X		132.700	161.800	4219.000	195600.000	199400.000	61.990	190.300	142.900
σ		1.885	1.962	62.390	2461.000	2086.000	1.013	3.067	2.091
%RSD		1.421	1.212	1.479	1.258	1.046	1.634	1.612	1.463
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	141.400	429.600	439.400	103.500	2.241	4.027	0.000	137.100
2	00:05:28	143.400	439.200	445.600	106.000	2.268	4.576	0.000	139.000
3	00:06:11	145.500	443.300	450.200	105.900	2.318	4.714	0.000	140.600
X		143.400	437.400	445.000	105.100	2.276	4.439	0.000	138.900
σ		2.054	7.047	5.408	1.423	0.039	0.363	0.000	1.766
%RSD		1.432	1.611	1.215	1.353	1.708	8.190	0.000	1.271
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	0.000	8.082	8.002	71.038%	0.532	0.408	2.508	2.008
2	00:05:28	0.000	8.207	8.262	72.284%	0.564	0.424	2.430	1.929
3	00:06:11	0.000	8.329	8.266	72.512%	0.517	0.449	2.501	2.214
X		0.000	8.206	8.177	71.944%	0.538	0.427	2.480	2.051
σ		0.000	0.123	0.151	0.794%	0.024	0.021	0.043	0.147
%RSD		0.000	1.504	1.850	1.103	4.446	4.840	1.748	7.182
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:45	71.017%	7.925	0.591	0.603	642.300	641.300	78.969%	78.589%
2	00:05:28	72.409%	8.281	0.615	0.599	654.700	651.700	81.178%	80.998%
3	00:06:11	73.282%	7.820	0.601	0.555	650.800	651.000	82.075%	81.631%
X		72.236%	8.009	0.602	0.586	649.200	648.000	80.741%	80.406%
σ		1.142%	0.241	0.012	0.027	6.351	5.780	1.599%	1.605%
%RSD		1.582	3.014	2.030	4.534	0.978	0.892	1.980	1.996
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:04:45	0.884	0.896	97.160	96.680	96.610	70.739%		
2	00:05:28	0.913	0.900	98.610	98.020	97.960	72.175%		
3	00:06:11	0.883	0.895	98.690	96.890	97.790	73.498%		
X		0.893	0.897	98.150	97.200	97.450	72.137%		
σ		0.017	0.003	0.861	0.719	0.737	1.380%		
%RSD		1.910	0.325	0.877	0.740	0.756	1.913		

240-17796-F-25-A 12/30/1899 12:00:00 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb

X

σ

%RSD

MB 180-59171/1-A 12/23/2012 12:14:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	89.591%	-0.018	0.214	0.236	0.000	2.039	3.695	4.086
2	00:15:41	89.807%	-0.023	0.258	0.156	0.000	1.665	3.830	4.169
3	00:16:24	87.998%	-0.022	0.170	0.196	0.000	2.252	3.684	4.135
X		89.132%	-0.021	0.214	0.196	0.000	1.985	3.736	4.130
σ		0.988%	0.003	0.044	0.040	0.000	0.297	0.081	0.042
%RSD		1.108	12.970	20.570	20.380	0.000	14.960	2.174	1.010
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	7.232	-0.842	0.000	-6.500	15.110	12.360	91.222%	0.077
2	00:15:41	6.643	-1.257	0.000	-7.672	13.830	14.910	90.000%	0.011
3	00:16:24	6.974	-0.827	0.000	-7.191	14.480	15.810	87.472%	0.002
X		6.949	-0.975	0.000	-7.121	14.480	14.360	89.565%	0.030
σ		0.295	0.244	0.000	0.589	0.638	1.793	1.913%	0.041
%RSD		4.248	25.020	0.000	8.277	4.411	12.490	2.136	136.200
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	-0.111	0.092	0.167	30.500	35.510	-0.009	0.013	0.049
2	00:15:41	-0.043	0.105	0.204	19.890	29.670	-0.011	0.011	0.055
3	00:16:24	-0.153	0.097	0.227	19.090	27.220	-0.008	0.024	0.067
X		-0.102	0.098	0.199	23.160	30.800	-0.009	0.016	0.057
σ		0.056	0.007	0.031	6.372	4.257	0.001	0.007	0.009
%RSD		54.500	6.613	15.310	27.510	13.820	13.860	42.890	15.920
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	0.078	0.039	0.100	-0.448	-0.341	-1.668	0.000	0.050
2	00:15:41	0.045	0.019	-0.077	-0.084	-0.549	-0.764	0.000	0.042
3	00:16:24	0.073	-0.040	0.270	-0.314	-0.536	-1.641	0.000	0.035
X		0.065	0.006	0.098	-0.282	-0.475	-1.358	0.000	0.042
σ		0.018	0.041	0.174	0.184	0.117	0.514	0.000	0.008
%RSD		27.480	711.800	178.100	65.410	24.560	37.900	0.000	17.930
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	77.660%	0.034	0.026	78.446%	-0.011	-0.014	-0.009	-0.012
2	00:15:41	77.305%	0.019	0.015	77.955%	-0.014	-0.015	-0.051	-0.020
3	00:16:24	78.301%	0.017	0.018	78.082%	-0.013	-0.015	-0.021	-0.030
X		77.755%	0.023	0.020	78.161%	-0.012	-0.015	-0.027	-0.021
σ		0.505%	0.009	0.006	0.255%	0.002	0.001	0.022	0.009
%RSD		0.650	40.070	27.990	0.326	13.660	3.673	80.010	44.260
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:58	74.770%	1.855	-0.108	-0.098	0.095	0.099	78.768%	79.717%
2	00:15:41	76.068%	1.631	-0.104	-0.105	0.102	0.094	80.482%	81.608%
3	00:16:24	76.622%	1.941	-0.105	-0.106	0.088	0.134	81.264%	82.253%
X		75.820%	1.809	-0.106	-0.103	0.095	0.109	80.172%	81.193%
σ		0.950%	0.160	0.002	0.004	0.007	0.022	1.277%	1.318%
%RSD		1.253	8.826	2.010	4.033	7.499	20.140	1.593	1.623
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:14:58	-0.004	-0.003	0.111	0.128	0.122	87.063%		
2	00:15:41	-0.007	-0.006	0.127	0.129	0.119	88.570%		
3	00:16:24	-0.007	-0.008	0.123	0.134	0.122	89.623%		
X		-0.006	-0.006	0.120	0.130	0.121	88.419%		
σ		0.001	0.002	0.008	0.003	0.002	1.286%		
%RSD		21.200	42.440	6.898	2.357	1.525	1.455		

LCS 180-59171/2-A 12/23/2012 12:18:35 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	78.950%	860.300	80.950	80.970	0.000	8260.000	7771.000	8165.000
2	00:20:01	78.089%	868.400	80.620	82.140	0.000	8269.000	7855.000	8199.000
3	00:20:44	76.177%	873.800	80.980	83.480	0.000	8548.000	8063.000	8518.000
x		77.739%	867.500	80.850	82.200	0.000	8359.000	7896.000	8294.000
σ		1.420%	6.770	0.203	1.256	0.000	163.700	150.300	194.400
%RSD		1.826	0.780	0.252	1.528	0.000	1.959	1.904	2.344
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	8136.000	17.060	0.000	8691.000	9500.000	8928.000	78.013%	86.220
2	00:20:01	8137.000	16.330	0.000	8493.000	9366.000	9021.000	78.118%	89.670
3	00:20:44	8397.000	16.620	0.000	8888.000	9867.000	9282.000	75.509%	88.830
x		8223.000	16.670	0.000	8691.000	9578.000	9077.000	77.213%	88.240
σ		150.100	0.370	0.000	197.600	259.600	183.300	1.477%	1.798
%RSD		1.825	2.219	0.000	2.274	2.710	2.019	1.913	2.037
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	908.400	917.000	931.900	9458.000	9012.000	905.900	882.600	846.200
2	00:20:01	909.200	912.100	941.000	9369.000	9033.000	894.700	873.000	885.300
3	00:20:44	942.200	954.000	960.500	9622.000	9214.000	921.700	879.200	846.500
x		920.000	927.700	944.500	9483.000	9087.000	907.400	878.300	859.300
σ		19.300	22.880	14.620	128.100	111.100	13.530	4.868	22.460
%RSD		2.098	2.466	1.548	1.351	1.223	1.491	0.554	2.613
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	873.500	844.900	857.600	815.400	806.000	817.400	0.000	910.300
2	00:20:01	876.500	852.200	861.700	826.300	816.700	826.200	0.000	926.600
3	00:20:44	894.100	875.200	875.900	831.900	825.400	838.200	0.000	929.800
x		881.400	857.500	865.100	824.500	816.000	827.300	0.000	922.200
σ		11.130	15.790	9.632	8.416	9.701	10.460	0.000	10.460
%RSD		1.262	1.842	1.113	1.021	1.189	1.264	0.000	1.134
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	74.217%	86.240	86.370	72.272%	89.360	90.140	861.500	876.500
2	00:20:01	74.427%	88.700	88.860	72.813%	90.280	91.470	863.800	880.700
3	00:20:44	74.505%	89.430	89.510	72.660%	91.160	92.010	877.000	894.700
x		74.383%	88.120	88.240	72.582%	90.270	91.210	867.400	883.900
σ		0.149%	1.669	1.658	0.278%	0.897	0.962	8.384	9.520
%RSD		0.200	1.894	1.879	0.384	0.994	1.055	0.967	1.077
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:19:18	71.617%	95.390	83.910	83.410	851.400	859.000	75.295%	76.046%
2	00:20:01	73.621%	95.860	83.580	84.010	861.900	864.200	77.226%	78.301%
3	00:20:44	73.326%	96.550	86.020	85.870	874.400	877.600	77.338%	79.094%
x		72.855%	95.930	84.510	84.430	862.600	866.900	76.620%	77.814%
σ		1.082%	0.583	1.326	1.282	11.510	9.641	1.149%	1.581%
%RSD		1.485	0.607	1.569	1.518	1.334	1.112	1.499	2.032
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:19:18	205.200	205.800	825.500	871.500	875.000	76.990%		
2	00:20:01	210.300	209.400	839.100	885.300	887.300	78.789%		
3	00:20:44	213.000	211.500	845.600	891.900	893.900	79.335%		
x		209.500	208.900	836.800	882.900	885.400	78.371%		
σ		3.946	2.886	10.240	10.440	9.602	1.227%		
%RSD		1.883	1.381	1.224	1.182	1.084	1.566		

240-17796-F-26-A 12/23/2012 12:22:55 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	83.314%	4.788	21.950	22.350	0.000	330.100	21620.000	22600.000
2	00:24:21	81.390%	4.639	22.410	22.270	0.000	312.200	21760.000	22850.000
3	00:25:04	82.124%	4.578	21.440	21.680	0.000	305.500	21010.000	22310.000
X		82.276%	4.668	21.930	22.100	0.000	315.900	21460.000	22590.000
σ		0.971%	0.108	0.486	0.363	0.000	12.700	402.100	270.800
%RSD		1.180	2.313	2.217	1.641	0.000	4.019	1.874	1.199
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	72110.000	1978.000	0.000	8983.000	39140.000	40310.000	85.254%	503.900
2	00:24:21	72780.000	1991.000	0.000	8873.000	38800.000	40030.000	84.634%	512.700
3	00:25:04	70830.000	1953.000	0.000	8726.000	38380.000	39740.000	82.436%	508.100
X		71910.000	1974.000	0.000	8861.000	38770.000	40030.000	84.108%	508.300
σ		992.500	19.230	0.000	129.100	381.500	281.600	1.481%	4.421
%RSD		1.380	0.974	0.000	1.457	0.984	0.704	1.761	0.870
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	133.900	189.800	3633.000	234000.000	240100.000	87.870	231.300	187.200
2	00:24:21	135.300	191.700	3668.000	237200.000	243000.000	89.610	236.300	191.500
3	00:25:04	136.900	194.900	3643.000	234400.000	240900.000	88.380	233.400	190.200
X		135.400	192.100	3648.000	235200.000	241400.000	88.620	233.700	189.600
σ		1.537	2.580	17.740	1710.000	1505.000	0.898	2.523	2.224
%RSD		1.135	1.343	0.486	0.727	0.624	1.013	1.080	1.173
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	188.400	582.400	590.400	160.500	5.756	7.418	0.000	127.800
2	00:24:21	192.000	591.500	603.200	161.900	4.447	6.160	0.000	130.800
3	00:25:04	190.500	593.000	606.100	162.400	3.575	6.228	0.000	130.200
X		190.300	589.000	599.900	161.600	4.593	6.602	0.000	129.600
σ		1.818	5.725	8.384	0.998	1.097	0.708	0.000	1.568
%RSD		0.955	0.972	1.398	0.618	23.900	10.720	0.000	1.210
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	0.000	10.390	10.420	72.632%	0.235	0.125	2.062	1.622
2	00:24:21	0.000	10.170	10.380	73.459%	0.226	0.115	2.145	1.759
3	00:25:04	0.000	10.250	10.270	73.165%	0.238	0.120	1.987	1.644
X		0.000	10.270	10.350	73.085%	0.233	0.120	2.065	1.675
σ		0.000	0.113	0.080	0.419%	0.006	0.005	0.079	0.074
%RSD		0.000	1.100	0.769	0.573	2.689	4.240	3.832	4.390
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:38	72.714%	7.455	1.345	1.378	468.500	466.300	80.919%	80.184%
2	00:24:21	74.255%	7.267	1.195	1.169	469.700	472.000	82.840%	81.627%
3	00:25:04	74.234%	7.218	1.250	1.177	469.800	467.800	83.259%	82.889%
X		73.734%	7.313	1.264	1.241	469.300	468.700	82.340%	81.567%
σ		0.883%	0.125	0.076	0.119	0.735	2.930	1.248%	1.353%
%RSD		1.198	1.711	6.009	9.556	0.157	0.625	1.515	1.659
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:23:38	1.933	1.903	149.100	146.500	147.500	72.090%		
2	00:24:21	1.655	1.624	149.800	148.500	148.700	74.157%		
3	00:25:04	1.443	1.465	148.800	147.900	147.800	75.089%		
X		1.677	1.664	149.200	147.600	148.000	73.779%		
σ		0.246	0.222	0.539	1.050	0.615	1.535%		
%RSD		14.670	13.350	0.361	0.712	0.416	2.080		



240-17796-F-26-A SD@5 12/23/2012 12:27:16 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	85.552%	0.877	5.061	4.788	0.000	63.610	4418.000	4614.000
2	00:28:42	83.426%	1.015	4.953	4.908	0.000	63.830	4358.000	4696.000
3	00:29:25	81.083%	0.994	4.743	4.896	0.000	65.430	4567.000	4851.000
X		83.354%	0.962	4.919	4.864	0.000	64.290	4448.000	4720.000
σ		2.235%	0.075	0.162	0.066	0.000	0.990	107.700	120.100
%RSD		2.682	7.768	3.287	1.359	0.000	1.540	2.421	2.545
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	14920.000	403.300	0.000	1808.000	7926.000	7749.000	85.532%	102.100
2	00:28:42	14940.000	407.900	0.000	1823.000	8080.000	7917.000	82.722%	103.600
3	00:29:25	15510.000	424.100	0.000	1848.000	8323.000	8018.000	81.220%	107.000
X		15120.000	411.800	0.000	1826.000	8110.000	7895.000	83.158%	104.200
σ		334.400	10.940	0.000	20.420	200.400	135.800	2.189%	2.464
%RSD		2.211	2.658	0.000	1.118	2.471	1.720	2.632	2.364
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	26.950	38.510	733.400	49110.000	48560.000	17.650	46.950	38.250
2	00:28:42	26.610	38.900	744.400	50050.000	48620.000	17.390	47.400	38.140
3	00:29:25	27.910	39.760	753.300	51060.000	49800.000	17.560	47.800	39.360
X		27.160	39.060	743.700	50080.000	49000.000	17.530	47.380	38.590
σ		0.673	0.640	10.010	975.900	698.300	0.129	0.423	0.674
%RSD		2.478	1.639	1.345	1.949	1.425	0.734	0.894	1.747
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	38.090	127.500	127.200	32.740	0.277	-1.190	0.000	22.260
2	00:28:42	38.620	128.800	127.500	32.660	0.107	-0.645	0.000	22.330
3	00:29:25	39.290	131.100	132.700	33.280	0.261	-1.351	0.000	23.010
X		38.670	129.100	129.100	32.890	0.215	-1.062	0.000	22.530
σ		0.598	1.828	3.082	0.340	0.094	0.370	0.000	0.413
%RSD		1.546	1.415	2.387	1.033	43.730	34.850	0.000	1.835
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	92.520%	1.823	1.883	80.779%	0.028	0.008	0.448	0.393
2	00:28:42	92.469%	1.814	1.955	80.867%	0.031	0.022	0.410	0.347
3	00:29:25	92.002%	1.920	1.860	78.957%	0.026	0.016	0.348	0.301
X		92.330%	1.852	1.899	80.201%	0.028	0.015	0.402	0.347
σ		0.285%	0.059	0.050	1.078%	0.002	0.007	0.051	0.046
%RSD		0.309	3.188	2.622	1.344	8.658	46.000	12.660	13.140
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:59	78.558%	0.918	0.168	0.163	96.060	95.970	82.825%	82.955%
2	00:28:42	79.142%	0.978	0.193	0.193	97.750	97.030	84.300%	85.213%
3	00:29:25	78.535%	0.920	0.178	0.181	97.450	99.940	84.628%	85.070%
X		78.745%	0.939	0.180	0.179	97.090	97.650	83.918%	84.413%
σ		0.344%	0.034	0.013	0.015	0.905	2.054	0.960%	1.264%
%RSD		0.437	3.647	7.049	8.516	0.932	2.103	1.144	1.497
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:27:59	0.334	0.348	28.400	28.230	28.260	84.583%		
2	00:28:42	0.314	0.327	29.100	28.690	28.710	86.879%		
3	00:29:25	0.313	0.304	29.720	29.420	29.440	86.307%		
X		0.321	0.326	29.070	28.780	28.800	85.923%		
σ		0.012	0.022	0.659	0.601	0.593	1.195%		
%RSD		3.599	6.704	2.268	2.090	2.060	1.391		

240-17796-F-26-B DU 12/23/2012 12:31:37 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	82.360%	4.729	22.990	23.740	0.000	378.800	22790.000	23800.000
2	00:33:03	80.122%	4.871	23.710	24.480	0.000	375.600	22680.000	23670.000
3	00:33:46	81.156%	4.884	23.660	24.050	0.000	375.700	22980.000	24230.000
X		81.212%	4.828	23.450	24.090	0.000	376.700	22810.000	23900.000
σ		1.120%	0.086	0.398	0.374	0.000	1.849	150.100	290.100
%RSD		1.379	1.781	1.696	1.552	0.000	0.491	0.658	1.214
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	74950.000	2515.000	0.000	9157.000	47640.000	49010.000	85.518%	586.000
2	00:33:03	73930.000	2513.000	0.000	9281.000	47910.000	49760.000	84.773%	594.100
3	00:33:46	75690.000	2528.000	0.000	9413.000	48760.000	50270.000	83.432%	596.000
X		74860.000	2518.000	0.000	9284.000	48100.000	49680.000	84.575%	592.000
σ		884.600	8.024	0.000	128.100	585.800	632.900	1.057%	5.294
%RSD		1.182	0.319	0.000	1.380	1.218	1.274	1.250	0.894
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	134.700	181.900	3634.000	226400.000	232900.000	88.050	225.900	185.600
2	00:33:03	138.100	182.200	3691.000	229900.000	236700.000	88.870	230.500	188.800
3	00:33:46	138.900	185.000	3779.000	234100.000	237500.000	89.970	232.900	190.400
X		137.200	183.000	3701.000	230100.000	235700.000	88.960	229.800	188.300
σ		2.227	1.756	72.970	3882.000	2439.000	0.963	3.585	2.409
%RSD		1.623	0.959	1.972	1.687	1.035	1.082	1.560	1.280
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	186.700	579.200	592.100	160.500	2.925	5.106	0.000	161.200
2	00:33:03	189.300	590.600	602.700	163.400	3.022	5.242	0.000	165.500
3	00:33:46	191.500	594.800	605.600	165.000	2.869	5.437	0.000	167.500
X		189.200	588.200	600.100	163.000	2.939	5.262	0.000	164.800
σ		2.402	8.056	7.132	2.287	0.078	0.166	0.000	3.220
%RSD		1.270	1.369	1.188	1.404	2.645	3.156	0.000	1.955
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	0.000	10.280	10.040	73.257%	0.244	0.110	2.161	1.875
2	00:33:03	0.000	10.400	10.230	73.256%	0.219	0.135	2.176	1.809
3	00:33:46	0.000	10.650	10.710	73.504%	0.218	0.134	2.046	1.715
X		0.000	10.440	10.330	73.339%	0.227	0.126	2.127	1.799
σ		0.000	0.186	0.347	0.143%	0.015	0.014	0.071	0.081
%RSD		0.000	1.781	3.364	0.195	6.611	11.240	3.341	4.478
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	73.149%	7.939	1.219	1.228	477.300	479.000	81.432%	80.330%
2	00:33:03	74.048%	7.972	1.318	1.229	482.000	483.500	83.555%	82.000%
3	00:33:46	74.168%	7.817	1.324	1.262	491.600	488.200	83.351%	81.818%
X		73.788%	7.909	1.287	1.240	483.600	483.600	82.779%	81.383%
σ		0.557%	0.082	0.058	0.020	7.265	4.617	1.172%	0.916%
%RSD		0.755	1.032	4.545	1.575	1.502	0.955	1.415	1.126
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:32:20	1.173	1.158	147.400	147.100	146.700	72.308%		
2	00:33:03	1.195	1.161	148.400	148.100	148.100	74.125%		
3	00:33:46	1.137	1.150	149.900	148.200	148.700	74.592%		
X		1.168	1.156	148.600	147.800	147.800	73.675%		
σ		0.029	0.005	1.229	0.624	1.046	1.207%		
%RSD		2.500	0.475	0.827	0.422	0.708	1.638		

240-17796-F-26-C MS 12/23/2012 12:35:58 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	76.905%	86.780	94.110	92.520	0.000	8602.000	30990.000	32100.000
2	00:37:24	75.156%	86.870	92.370	95.400	0.000	8566.000	31560.000	32180.000
3	00:38:07	72.642%	87.490	95.600	96.200	0.000	8613.000	31430.000	32530.000
X		74.901%	87.050	94.030	94.700	0.000	8594.000	31330.000	32270.000
σ		2.143%	0.383	1.620	1.934	0.000	24.470	301.300	228.800
%RSD		2.861	0.440	1.723	2.042	0.000	0.285	0.962	0.709
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	88130.000	3613.000	0.000	17600.000	43210.000	44080.000	81.420%	696.700
2	00:37:24	88300.000	3624.000	0.000	17560.000	42730.000	44610.000	78.816%	712.600
3	00:38:07	88780.000	3618.000	0.000	17640.000	44200.000	45050.000	77.041%	712.200
X		88400.000	3618.000	0.000	17600.000	43380.000	44580.000	79.092%	707.200
σ		336.700	5.651	0.000	42.330	750.400	489.000	2.203%	9.062
%RSD		0.381	0.156	0.000	0.240	1.730	1.097	2.785	1.281
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	228.800	285.300	3966.000	252800.000	261200.000	181.800	338.100	285.000
2	00:37:24	237.100	292.700	4091.000	258700.000	262700.000	182.300	339.300	288.500
3	00:38:07	236.200	293.200	4099.000	258100.000	264900.000	182.100	335.400	284.500
X		234.000	290.400	4052.000	256500.000	262900.000	182.100	337.600	286.000
σ		4.569	4.437	74.760	3227.000	1841.000	0.244	1.975	2.196
%RSD		1.952	1.528	1.845	1.258	0.700	0.134	0.585	0.768
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	285.200	683.300	699.500	245.700	73.610	78.960	0.000	232.300
2	00:37:24	290.100	706.300	720.500	249.900	74.690	79.430	0.000	237.700
3	00:38:07	286.400	699.200	712.000	246.800	72.470	79.120	0.000	235.500
X		287.200	696.300	710.700	247.400	73.590	79.170	0.000	235.200
σ		2.577	11.780	10.580	2.169	1.112	0.238	0.000	2.736
%RSD		0.897	1.693	1.489	0.877	1.511	0.301	0.000	1.164
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	0.000	98.780	99.140	64.390%	84.750	84.610	80.260	78.840
2	00:37:24	0.000	101.400	101.900	64.241%	86.440	85.710	81.500	80.290
3	00:38:07	0.000	99.480	100.500	64.138%	85.700	85.480	81.640	79.350
X		0.000	99.880	100.500	64.256%	85.630	85.270	81.130	79.490
σ		0.000	1.350	1.359	0.127%	0.849	0.581	0.763	0.736
%RSD		0.000	1.351	1.352	0.197	0.991	0.681	0.941	0.926
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:41	71.031%	80.040	23.740	23.930	563.700	562.000	77.872%	77.421%
2	00:37:24	71.327%	81.000	24.450	24.370	566.500	566.200	79.938%	79.320%
3	00:38:07	71.376%	81.190	24.370	24.130	567.600	565.300	80.659%	79.873%
X		71.245%	80.740	24.180	24.140	565.900	564.500	79.490%	78.871%
σ		0.187%	0.617	0.388	0.221	2.004	2.215	1.446%	1.286%
%RSD		0.263	0.764	1.604	0.916	0.354	0.392	1.820	1.631
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:36:41	80.610	81.100	237.500	240.500	238.600	65.879%		
2	00:37:24	82.210	82.770	242.200	244.500	242.800	67.084%		
3	00:38:07	82.130	82.290	239.300	242.700	240.600	68.031%		
X		81.650	82.050	239.700	242.600	240.700	66.998%		
σ		0.900	0.856	2.369	2.016	2.077	1.079%		
%RSD		1.102	1.043	0.989	0.831	0.863	1.610		

240-17796-F-26-A PDS 12/23/2012 12:40:18 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	73.625%	50.770	895.800	900.600	0.000	42370.000	60360.000	61640.000
2	00:41:44	74.597%	49.470	866.900	872.700	0.000	40120.000	58370.000	61440.000
3	00:42:27	72.182%	49.770	883.500	892.100	0.000	40420.000	57980.000	60610.000
X		73.468%	50.000	882.100	888.400	0.000	40970.000	58900.000	61230.000
σ		1.215%	0.678	14.540	14.280	0.000	1221.000	1274.000	543.300
%RSD		1.654	1.357	1.648	1.607	0.000	2.981	2.164	0.887
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	72330.000	10350.000	0.000	50840.000	80900.000	82670.000	78.881%	1346.000
2	00:41:44	72610.000	10280.000	0.000	50820.000	80860.000	83390.000	76.601%	1358.000
3	00:42:27	70910.000	10060.000	0.000	48710.000	78820.000	80690.000	77.055%	1333.000
X		71950.000	10230.000	0.000	50120.000	80190.000	82250.000	77.512%	1346.000
σ		909.200	148.200	0.000	1226.000	1190.000	1397.000	1.207%	12.900
%RSD		1.264	1.449	0.000	2.446	1.483	1.698	1.557	0.959
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	643.700	379.500	4036.000	232600.000	238500.000	586.200	686.000	416.600
2	00:41:44	648.000	386.200	4156.000	235800.000	241800.000	594.400	702.200	420.300
3	00:42:27	629.300	375.200	4029.000	232700.000	237000.000	577.600	682.800	409.600
X		640.300	380.300	4074.000	233700.000	239100.000	586.100	690.300	415.500
σ		9.794	5.558	71.330	1814.000	2444.000	8.435	10.410	5.408
%RSD		1.529	1.462	1.751	0.776	1.022	1.439	1.507	1.302
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	418.900	1025.000	1045.000	198.300	12.590	15.280	0.000	1232.000
2	00:41:44	426.300	1052.000	1067.000	202.600	12.520	16.210	0.000	1265.000
3	00:42:27	412.300	1015.000	1034.000	196.400	12.260	14.670	0.000	1228.000
X		419.200	1030.000	1048.000	199.100	12.460	15.390	0.000	1242.000
σ		7.023	18.940	16.690	3.169	0.172	0.774	0.000	20.240
%RSD		1.675	1.838	1.592	1.592	1.383	5.028	0.000	1.630
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	0.000	991.700	999.400	61.748%	50.430	50.070	51.220	44.400
2	00:41:44	0.000	1022.000	1028.000	61.301%	51.420	51.230	51.430	44.780
3	00:42:27	0.000	997.600	1003.000	61.924%	50.280	49.750	50.170	43.360
X		0.000	1004.000	1010.000	61.658%	50.710	50.350	50.940	44.180
σ		0.000	15.800	15.980	0.321%	0.620	0.778	0.676	0.734
%RSD		0.000	1.575	1.582	0.521	1.223	1.545	1.328	1.660
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:41:01	64.333%	1969.000	427.100	421.100	2344.000	2345.000	76.759%	75.975%
2	00:41:44	65.075%	1975.000	432.800	427.200	2385.000	2376.000	77.746%	77.542%
3	00:42:27	66.209%	1924.000	420.700	417.300	2308.000	2297.000	80.093%	79.254%
X		65.206%	1956.000	426.900	421.800	2346.000	2340.000	78.199%	77.590%
σ		0.945%	27.770	6.084	5.006	38.490	39.580	1.713%	1.640%
%RSD		1.449	1.420	1.425	1.187	1.641	1.692	2.190	2.114
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:41:01	49.450	49.890	169.200	168.200	168.300	65.695%		
2	00:41:44	50.800	51.030	173.100	171.800	172.100	66.582%		
3	00:42:27	48.670	48.940	165.800	164.500	165.000	69.256%		
X		49.640	49.950	169.400	168.200	168.500	67.177%		
σ		1.076	1.044	3.654	3.650	3.565	1.853%		
%RSD		2.168	2.089	2.157	2.170	2.116	2.759		

CCV 664806 12/23/2012 12:47:29 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	71.563%	102.100	100.600	100.100	0.000	47760.000	44460.000	45550.000
2	00:48:55	71.280%	102.500	98.320	100.100	0.000	47030.000	43810.000	45900.000
3	00:49:38	68.673%	105.000	101.900	105.900	0.000	48380.000	45160.000	46380.000
X		70.505%	103.226%	100.297%	102.026%	0.000	95.444%	88.951%	91.885%
σ		1.593%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.259	1.524	1.818	3.296	0.000	1.422	1.510	0.913
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	462.000	4972.000	0.000	48050.000	47580.000	49450.000	77.441%	98.040
2	00:48:55	464.600	4937.000	0.000	47990.000	47910.000	49330.000	76.429%	100.000
3	00:49:38	466.400	5019.000	0.000	49360.000	49860.000	51810.000	74.229%	102.000
X		92.866%	99.520%	0.000	96.931%	96.899%	100.393%	76.033%	100.015%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.642%	n/a
%RSD		0.480	0.823	0.000	1.591	2.548	2.783	2.160	1.969
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	96.800	96.120	512.300	25570.000	25220.000	94.480	93.680	93.100
2	00:48:55	97.290	95.930	514.700	25610.000	25310.000	94.650	93.160	94.030
3	00:49:38	99.600	98.900	521.400	25820.000	25750.000	95.010	95.620	95.420
X		97.898%	96.981%	103.226%	102.663%	101.712%	94.714%	94.154%	94.182%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.530	1.712	0.920	0.522	1.125	0.289	1.375	1.236
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	93.420	97.810	98.190	95.590	98.140	97.770	0.000	93.870
2	00:48:55	94.090	98.790	98.930	95.290	99.160	99.840	0.000	93.930
3	00:49:38	94.800	101.500	101.700	97.030	103.000	100.500	0.000	95.200
X		94.106%	99.360%	99.601%	95.967%	100.112%	99.374%	0.000	94.335%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.733	1.913	1.848	0.969	2.575	1.434	0.000	0.796
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	76.596%	93.310	93.680	72.561%	93.910	94.950	97.950	99.710
2	00:48:55	77.527%	95.770	97.120	72.050%	94.840	95.980	98.250	100.200
3	00:49:38	77.378%	98.770	99.280	72.216%	96.480	98.090	100.600	102.500
X		77.167%	95.951%	96.692%	72.276%	95.076%	96.341%	98.915%	100.797%
σ		0.500%	n/a	n/a	0.261%	n/a	n/a	n/a	n/a
%RSD		0.648	2.852	2.920	0.361	1.368	1.658	1.443	1.474
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:12	70.324%	97.800	96.920	96.470	96.120	96.350	72.587%	73.462%
2	00:48:55	71.610%	98.180	97.860	97.720	95.940	96.420	74.978%	75.913%
3	00:49:38	71.807%	100.400	99.610	98.770	97.840	99.150	74.764%	76.371%
X		71.247%	98.791%	98.129%	97.653%	96.633%	97.304%	74.110%	75.249%
σ		0.806%	n/a	n/a	n/a	n/a	n/a	1.323%	1.564%
%RSD		1.131	1.413	1.392	1.176	1.088	1.640	1.786	2.079
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:48:12	92.730	92.610	93.230	92.480	92.390	73.769%		
2	00:48:55	94.310	94.310	95.130	94.350	94.360	75.312%		
3	00:49:38	96.210	95.710	96.080	96.110	95.960	75.672%		
X		94.414%	94.209%	94.812%	94.315%	94.238%	74.918%		
σ		n/a	n/a	n/a	n/a	n/a	1.011%		
%RSD		1.846	1.649	1.533	1.925	1.899	1.350		

CCB7 12/23/2012 12:55:26 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	94.356%	0.004	2.296	1.840	0.000	1.718	2.848	3.311
2	00:56:51	94.857%	-0.019	1.663	1.743	0.000	1.356	3.111	3.516
3	00:57:34	93.098%	-0.029	1.592	1.657	0.000	1.498	3.569	3.238
X		94.103%	-0.015	1.851	1.747	0.000	1.524	3.176	3.355
σ		0.906%	0.017	0.388	0.091	0.000	0.183	0.365	0.144
%RSD		0.963	114.000	20.950	5.236	0.000	11.980	11.480	4.303
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	0.387	-2.890	0.000	-5.817	-3.207	3.835	93.815%	0.002
2	00:56:51	0.400	-3.377	0.000	-8.663	7.838	1.589	91.541%	-0.062
3	00:57:34	0.548	-3.035	0.000	-7.837	4.419	4.194	89.892%	-0.024
X		0.445	-3.100	0.000	-7.439	3.017	3.206	91.750%	-0.028
σ		0.089	0.250	0.000	1.464	5.655	1.412	1.970%	0.032
%RSD		20.100	8.058	0.000	19.680	187.400	44.030	2.147	114.200
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	-0.011	-0.000	0.368	4.391	12.510	-0.001	-0.016	-0.043
2	00:56:51	-0.006	-0.022	0.336	0.728	8.196	0.003	-0.022	-0.056
3	00:57:34	-0.013	-0.019	0.347	-0.125	7.680	0.005	-0.022	-0.053
X		-0.010	-0.014	0.350	1.665	9.463	0.002	-0.020	-0.051
σ		0.004	0.012	0.017	2.399	2.653	0.003	0.004	0.007
%RSD		38.070	85.210	4.711	144.100	28.040	137.200	17.890	12.950
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	-0.043	-0.508	-0.378	-0.380	-0.348	-1.627	0.000	0.011
2	00:56:51	-0.041	-0.618	-0.478	-0.352	-0.379	-1.648	0.000	0.013
3	00:57:34	-0.048	-0.549	-0.430	-0.434	-0.477	-1.817	0.000	0.018
X		-0.044	-0.558	-0.429	-0.389	-0.402	-1.697	0.000	0.014
σ		0.004	0.056	0.050	0.042	0.067	0.104	0.000	0.004
%RSD		8.363	9.979	11.710	10.700	16.790	6.116	0.000	29.100
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	80.719%	0.334	0.322	90.352%	0.001	-0.004	-0.049	-0.021
2	00:56:51	80.991%	0.267	0.253	90.614%	-0.001	0.000	-0.053	-0.025
3	00:57:34	81.779%	0.232	0.233	91.292%	-0.003	-0.009	-0.069	-0.045
X		81.163%	0.278	0.270	90.753%	-0.001	-0.004	-0.057	-0.030
σ		0.551%	0.052	0.047	0.485%	0.002	0.005	0.011	0.013
%RSD		0.678	18.670	17.430	0.535	180.200	112.300	18.530	42.520
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:56:09	80.768%	-0.220	-0.027	-0.060	0.009	0.013	79.205%	80.368%
2	00:56:51	82.197%	-0.257	-0.043	-0.058	-0.002	0.016	81.381%	82.771%
3	00:57:34	82.951%	-0.347	-0.053	-0.058	0.001	0.024	82.111%	83.186%
X		81.972%	-0.275	-0.041	-0.059	0.003	0.018	80.899%	82.109%
σ		1.108%	0.066	0.013	0.001	0.006	0.006	1.512%	1.522%
%RSD		1.352	23.900	32.280	1.995	206.900	33.500	1.869	1.853
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:56:09	0.052	0.056	0.100	0.111	0.103	90.115%		
2	00:56:51	0.052	0.052	0.093	0.080	0.085	91.971%		
3	00:57:34	0.047	0.047	0.072	0.093	0.081	92.936%		
X		0.050	0.052	0.088	0.094	0.090	91.674%		
σ		0.003	0.005	0.014	0.015	0.012	1.434%		
%RSD		6.183	9.290	16.190	16.290	13.120	1.564		

240-17796-F-27-A 12/23/2012 12:59:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	82.225%	7.863	52.410	52.000	0.000	645.200	32360.000	33570.000
2	01:01:12	79.885%	8.421	55.270	52.610	0.000	670.600	33130.000	34670.000
3	01:01:55	78.287%	7.822	51.800	52.000	0.000	629.600	31760.000	33540.000
X		80.132%	8.035	53.160	52.210	0.000	648.500	32420.000	33930.000
		1.981%	0.334	1.851	0.353	0.000	20.720	688.100	644.500
		2.472	4.161	3.482	0.676	0.000	3.195	2.122	1.900
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	107600.000	6163.000	0.000	11870.000	93450.000	96620.000	86.095%	898.700
2	01:01:12	111300.000	6456.000	0.000	12040.000	95800.000	99520.000	85.050%	922.900
3	01:01:55	108000.000	6157.000	0.000	11490.000	91920.000	95070.000	83.608%	880.700
X		109000.000	6259.000	0.000	11800.000	93720.000	97070.000	84.917%	900.800
		2009.000	171.400	0.000	286.000	1956.000	2260.000	1.249%	21.160
		1.843	2.738	0.000	2.423	2.087	2.328	1.470	2.349
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	196.200	247.100	6717.000	258100.000	265700.000	101.100	273.500	277.700
2	01:01:12	202.100	252.000	6859.000	260800.000	270500.000	104.900	281.400	286.500
3	01:01:55	193.900	248.200	6696.000	255700.000	266100.000	101.400	278.000	277.900
X		197.400	249.100	6757.000	258200.000	267400.000	102.500	277.700	280.700
		4.224	2.518	88.840	2544.000	2643.000	2.129	3.980	4.990
		2.140	1.011	1.315	0.985	0.988	2.078	1.433	1.778
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	281.700	675.400	683.600	214.800	5.039	8.580	0.000	335.900
2	01:01:12	290.400	693.900	708.700	219.300	5.312	9.406	0.000	346.400
3	01:01:55	280.800	676.000	688.800	211.200	4.973	8.120	0.000	336.400
X		284.300	681.700	693.700	215.100	5.108	8.702	0.000	339.600
		5.255	10.520	13.250	4.031	0.179	0.652	0.000	5.962
		1.848	1.544	1.910	1.874	3.513	7.489	0.000	1.756
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	0.000	16.660	16.880	69.578%	0.354	0.228	2.648	2.195
2	01:01:12	0.000	17.010	17.260	70.091%	0.355	0.234	2.994	2.383
3	01:01:55	0.000	16.620	16.550	71.185%	0.370	0.222	2.863	2.379
X		0.000	16.760	16.900	70.285%	0.360	0.228	2.835	2.319
		0.000	0.215	0.356	0.821%	0.009	0.006	0.174	0.107
		0.000	1.284	2.104	1.168	2.572	2.632	6.151	4.631
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:00:29	70.261%	12.980	2.447	2.495	937.700	938.800	78.451%	77.333%
2	01:01:12	70.595%	11.760	2.518	2.526	969.300	962.500	79.461%	78.726%
3	01:01:55	72.323%	10.990	2.396	2.369	926.400	924.300	81.256%	80.678%
X		71.059%	11.910	2.454	2.463	944.500	941.900	79.722%	78.912%
		1.107%	0.999	0.061	0.083	22.280	19.270	1.421%	1.680%
		1.558	8.390	2.495	3.370	2.359	2.046	1.782	2.130
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:00:29	1.650	1.674	172.700	171.200	171.700	68.132%		
2	01:01:12	1.706	1.743	177.300	175.500	176.100	68.850%		
3	01:01:55	1.670	1.666	171.700	169.000	169.600	71.051%		
X		1.676	1.694	173.900	171.900	172.400	69.344%		
		0.029	0.042	3.023	3.324	3.304	1.521%		
		1.704	2.484	1.738	1.934	1.916	2.193		

240-17796-F-28-A 12/23/2012 1:04:05 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	80.392%	6.911	43.260	42.360	0.000	632.200	29850.000	30970.000
2	01:05:31	79.906%	7.135	44.050	44.210	0.000	626.000	29880.000	31190.000
3	01:06:14	80.220%	6.839	42.660	43.850	0.000	626.700	29850.000	31050.000
X		80.173%	6.962	43.320	43.470	0.000	628.300	29860.000	31070.000
σ		0.246%	0.154	0.698	0.979	0.000	3.369	14.800	114.000
%RSD		0.307	2.213	1.611	2.252	0.000	0.536	0.050	0.367
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	98990.000	3215.000	0.000	9093.000	81290.000	83290.000	84.666%	772.500
2	01:05:31	100700.000	3242.000	0.000	9169.000	81750.000	84180.000	83.315%	785.000
3	01:06:14	98360.000	3176.000	0.000	9104.000	82660.000	84620.000	82.708%	781.700
X		99350.000	3211.000	0.000	9122.000	81900.000	84030.000	83.563%	779.800
σ		1214.000	33.320	0.000	41.270	696.700	678.800	1.002%	6.487
%RSD		1.222	1.038	0.000	0.452	0.851	0.808	1.199	0.832
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	186.600	197.400	6414.000	229400.000	234800.000	88.910	206.800	160.400
2	01:05:31	188.100	198.300	6449.000	229600.000	234600.000	89.370	207.900	162.000
3	01:06:14	187.600	201.100	6524.000	230900.000	238000.000	91.600	208.600	162.600
X		187.500	198.900	6463.000	229900.000	235800.000	89.960	207.800	161.700
σ		0.757	1.981	56.230	814.400	1903.000	1.440	0.885	1.137
%RSD		0.404	0.996	0.870	0.354	0.807	1.601	0.426	0.703
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	163.000	627.300	640.700	137.100	4.417	6.984	0.000	264.300
2	01:05:31	163.800	637.900	649.700	135.800	4.473	7.463	0.000	268.000
3	01:06:14	163.400	640.300	650.200	138.100	5.066	6.700	0.000	269.400
X		163.400	635.100	646.900	137.000	4.652	7.049	0.000	267.200
σ		0.405	6.923	5.346	1.163	0.359	0.386	0.000	2.664
%RSD		0.248	1.090	0.826	0.849	7.726	5.469	0.000	0.997
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	0.000	11.370	11.490	71.060%	0.411	0.329	2.329	1.841
2	01:05:31	0.000	11.630	11.370	71.414%	0.411	0.308	2.260	1.774
3	01:06:14	0.000	11.670	11.390	72.040%	0.401	0.336	2.437	2.076
X		0.000	11.560	11.420	71.504%	0.408	0.324	2.342	1.897
σ		0.000	0.159	0.067	0.496%	0.006	0.014	0.089	0.159
%RSD		0.000	1.375	0.588	0.694	1.354	4.420	3.797	8.357
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:48	71.569%	71.020	1.251	1.369	790.200	789.900	76.597%	75.953%
2	01:05:31	72.845%	71.260	1.240	1.347	788.800	792.400	79.263%	78.367%
3	01:06:14	72.729%	71.930	1.341	1.317	805.400	805.600	78.533%	78.539%
X		72.381%	71.400	1.277	1.344	794.800	796.000	78.131%	77.620%
σ		0.706%	0.474	0.055	0.026	9.246	8.446	1.378%	1.446%
%RSD		0.975	0.664	4.322	1.937	1.163	1.061	1.764	1.863
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:04:48	1.435	1.447	298.400	296.000	296.600	69.440%		
2	01:05:31	1.434	1.412	301.700	301.000	300.100	71.009%		
3	01:06:14	1.448	1.459	305.200	304.800	304.300	70.951%		
X		1.439	1.439	301.800	300.600	300.300	70.467%		
σ		0.007	0.024	3.405	4.370	3.860	0.890%		
%RSD		0.513	1.697	1.128	1.454	1.285	1.263		



240-17810-F-1-A 12/23/2012 1:08:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	83.299%	3.775	23.850	24.160	0.000	287.100	15460.000	16240.000	
2	01:09:50	84.113%	3.740	22.750	24.240	0.000	289.300	15340.000	16260.000	
3	01:10:33	81.522%	3.782	23.400	24.390	0.000	284.800	15830.000	16530.000	
X		82.978%	3.765	23.330	24.260	0.000	287.100	15540.000	16340.000	
		σ	1.325%	0.023	0.554	0.119	0.000	2.253	253.800	164.500
		%RSD	1.597	0.603	2.376	0.492	0.000	0.785	1.633	1.006
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	67590.000	2146.000	0.000	6333.000	29920.000	30930.000	84.688%	541.100	
2	01:09:50	67740.000	2124.000	0.000	6328.000	29810.000	31430.000	84.495%	550.700	
3	01:10:33	69050.000	2166.000	0.000	6370.000	30670.000	31580.000	83.024%	553.200	
X		68130.000	2145.000	0.000	6344.000	30130.000	31310.000	84.069%	548.300	
		σ	803.300	21.100	0.000	23.060	470.200	338.200	0.910%	6.413
		%RSD	1.179	0.984	0.000	0.364	1.560	1.080	1.082	1.169
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	140.500	177.200	3549.000	162900.000	164300.000	53.900	143.700	126.100	
2	01:09:50	143.600	178.700	3622.000	165600.000	167600.000	55.310	142.900	126.400	
3	01:10:33	145.900	181.800	3658.000	166800.000	169500.000	55.240	143.400	127.000	
X		143.300	179.200	3610.000	165100.000	167100.000	54.810	143.400	126.500	
		σ	2.725	2.314	55.310	1996.000	0.794	0.412	0.443	
		%RSD	1.902	1.291	1.532	1.209	1.589	1.448	0.287	0.350
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	126.800	380.600	389.300	98.280	3.098	3.859	0.000	103.000	
2	01:09:50	126.400	384.400	387.300	99.240	3.178	4.304	0.000	105.500	
3	01:10:33	126.600	385.300	392.200	99.720	3.256	4.396	0.000	107.200	
X		126.600	383.400	389.600	99.080	3.178	4.186	0.000	105.200	
		σ	0.185	2.505	2.452	0.736	0.079	0.287	2.119	
		%RSD	0.146	0.653	0.629	0.742	2.483	6.863	0.000	2.014
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	0.000	8.653	8.561	75.094%	0.204	0.159	1.239	1.051	
2	01:09:50	0.000	8.922	9.086	74.898%	0.203	0.166	1.317	1.132	
3	01:10:33	0.000	8.850	9.060	74.456%	0.194	0.162	1.351	1.101	
X		0.000	8.809	8.902	74.816%	0.200	0.162	1.302	1.095	
		σ	0.000	0.139	0.296	0.327%	0.006	0.003	0.057	0.041
		%RSD	0.000	1.582	3.321	0.437	2.766	1.951	4.392	3.737
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:09:07	73.891%	8.057	0.716	0.661	376.700	374.600	78.674%	78.517%	
2	01:09:50	74.738%	8.025	0.645	0.638	379.000	379.700	80.256%	80.345%	
3	01:10:33	74.560%	7.898	0.678	0.720	382.500	382.600	80.706%	80.344%	
X		74.396%	7.993	0.679	0.673	379.400	378.900	79.879%	79.735%	
		σ	0.447%	0.084	0.036	0.042	2.950	4.056	1.067%	1.055%
		%RSD	0.600	1.050	5.239	6.247	0.777	1.070	1.336	1.323
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi			
		ppb	ppb	ppb	ppb	ppb	ppb			
1	01:09:07	1.086	1.054	134.900	133.500	133.700	74.825%			
2	01:09:50	1.091	1.067	137.400	135.700	136.300	75.884%			
3	01:10:33	1.081	1.111	138.700	138.300	137.500	75.714%			
X		1.086	1.077	137.000	135.800	135.800	75.474%			
		σ	0.005	0.030	1.929	2.402	1.984	0.568%		
		%RSD	0.470	2.799	1.408	1.768	1.461	0.753		

240-17810-F-2-A 12/23/2012 1:12:44 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	81.209%	4.699	26.160	26.170	0.000	379.900	24120.000	24810.000	
2	01:14:10	77.943%	4.742	27.230	26.610	0.000	382.900	23670.000	24730.000	
3	01:14:53	75.913%	4.295	26.770	26.500	0.000	366.600	23060.000	24520.000	
X		78.355%	4.578	26.720	26.430	0.000	376.500	23620.000	24690.000	
		σ	2.672%	0.247	0.536	0.228	0.000	8.669	534.600	151.900
		%RSD	3.410	5.385	2.008	0.861	0.000	2.303	2.264	0.615
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	84750.000	2331.000	0.000	9058.000	17290.000	17880.000	84.289%	580.000	
2	01:14:10	84450.000	2333.000	0.000	9225.000	17130.000	17710.000	77.890%	589.300	
3	01:14:53	83650.000	2284.000	0.000	9184.000	17410.000	17820.000	73.796%	581.500	
X		84290.000	2316.000	0.000	9156.000	17280.000	17800.000	78.659%	583.600	
		σ	569.600	27.830	0.000	86.980	138.200	88.730	5.289%	4.985
		%RSD	0.676	1.202	0.000	0.950	0.800	0.498	6.723	0.854
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	159.500	167.500	3923.000	232400.000	239400.000	87.920	215.700	178.000	
2	01:14:10	162.200	169.700	3999.000	234900.000	240600.000	88.960	219.800	180.600	
3	01:14:53	160.100	170.200	4008.000	236900.000	242100.000	88.190	215.200	179.900	
X		160.600	169.100	3977.000	234700.000	240700.000	88.360	216.900	179.500	
		σ	1.397	1.452	46.550	2255.000	1354.000	0.541	2.533	1.373
		%RSD	0.870	0.859	1.171	0.961	0.563	0.612	1.168	0.765
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	179.500	499.400	509.900	139.400	2.388	4.376	0.000	85.390	
2	01:14:10	180.000	506.000	514.100	140.400	1.787	4.503	0.000	87.260	
3	01:14:53	178.700	506.500	516.500	140.200	1.945	4.399	0.000	87.310	
X		179.400	504.000	513.500	140.000	2.040	4.426	0.000	86.650	
		σ	0.641	3.961	3.295	0.555	0.311	0.068	0.000	1.095
		%RSD	0.357	0.786	0.642	0.397	15.260	1.529	0.000	1.264
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	0.000	10.140	10.220	70.178%	0.242	0.167	1.971	1.451	
2	01:14:10	0.000	10.230	10.410	67.102%	0.236	0.158	1.701	1.369	
3	01:14:53	0.000	10.390	10.290	66.282%	0.255	0.154	1.871	1.468	
X		0.000	10.250	10.310	67.854%	0.244	0.159	1.848	1.429	
		σ	0.000	0.129	0.097	2.054%	0.010	0.007	0.137	0.053
		%RSD	0.000	1.256	0.941	3.028	3.909	4.178	7.391	3.707
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:13:27	69.295%	9.849	0.764	0.747	442.200	441.700	76.243%	75.424%	
2	01:14:10	67.341%	9.823	0.773	0.768	448.500	446.900	75.520%	74.896%	
3	01:14:53	66.465%	9.678	0.767	0.705	440.900	441.600	76.127%	75.398%	
X		67.700%	9.783	0.768	0.740	443.900	443.400	75.963%	75.239%	
		σ	1.449%	0.092	0.005	0.032	4.078	2.978	0.388%	0.297%
		%RSD	2.140	0.944	0.618	4.351	0.919	0.672	0.511	0.395
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi			
		ppb	ppb	ppb	ppb	ppb	ppb			
1	01:13:27	1.266	1.308	124.600	123.000	123.500	67.668%			
2	01:14:10	1.298	1.318	125.900	124.300	124.800	68.314%			
3	01:14:53	1.327	1.279	123.400	122.000	122.300	69.246%			
X		1.297	1.302	124.600	123.100	123.500	68.410%			
		σ	0.031	0.020	1.239	1.163	1.265	0.793%		
		%RSD	2.369	1.551	0.994	0.945	1.024	1.160		

240-17810-F-3-A 12/23/2012 1:17:04 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	77.190%	4.714	19.720	20.200	0.000	375.500	22020.000	23120.000
2	01:18:30	73.846%	4.865	19.980	20.650	0.000	376.600	22420.000	23610.000
3	01:19:13	72.797%	4.936	21.050	20.650	0.000	387.800	22950.000	23990.000
X		74.611%	4.838	20.250	20.500	0.000	380.000	22460.000	23580.000
σ		2.294%	0.114	0.706	0.260	0.000	6.797	463.200	438.400
%RSD		3.075	2.346	3.487	1.267	0.000	1.789	2.062	1.859
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	81110.000	1588.000	0.000	7592.000	23220.000	24240.000	74.307%	503.600
2	01:18:30	82020.000	1606.000	0.000	7567.000	23300.000	24500.000	73.559%	501.300
3	01:19:13	83390.000	1653.000	0.000	7560.000	23360.000	24370.000	72.816%	502.800
X		82170.000	1616.000	0.000	7573.000	23290.000	24370.000	73.561%	502.600
σ		1147.000	33.660	0.000	16.710	73.620	134.600	0.745%	1.161
%RSD		1.395	2.084	0.000	0.221	0.316	0.552	1.013	0.231
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	172.700	196.400	3783.000	242400.000	249900.000	85.570	211.900	199.900
2	01:18:30	173.100	194.900	3799.000	243600.000	248500.000	84.410	207.200	200.300
3	01:19:13	173.500	197.500	3802.000	246300.000	252600.000	86.670	211.600	201.400
X		173.100	196.300	3795.000	244100.000	250400.000	85.550	210.200	200.500
σ		0.398	1.309	10.020	1968.000	2068.000	1.128	2.623	0.728
%RSD		0.230	0.667	0.264	0.806	0.826	1.319	1.248	0.363
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	200.700	755.900	766.400	128.600	2.263	4.721	0.000	109.500
2	01:18:30	199.100	759.200	775.700	129.500	2.078	3.632	0.000	111.900
3	01:19:13	203.200	766.700	780.600	130.100	2.153	3.880	0.000	113.500
X		201.000	760.600	774.200	129.400	2.165	4.078	0.000	111.600
σ		2.109	5.528	7.254	0.774	0.093	0.571	0.000	2.017
%RSD		1.049	0.727	0.937	0.599	4.307	14.010	0.000	1.806
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	0.000	10.220	10.250	65.657%	0.298	0.202	2.961	2.588
2	01:18:30	0.000	10.460	10.500	65.769%	0.294	0.219	2.741	2.489
3	01:19:13	0.000	10.650	10.610	64.946%	0.297	0.214	2.836	2.397
X		0.000	10.450	10.460	65.457%	0.296	0.211	2.846	2.491
σ		0.000	0.217	0.184	0.447%	0.002	0.009	0.111	0.095
%RSD		0.000	2.074	1.762	0.683	0.665	4.225	3.885	3.830
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:47	65.482%	11.730	0.924	0.925	473.900	475.800	72.945%	73.019%
2	01:18:30	65.974%	12.180	0.942	0.904	477.700	477.200	74.857%	74.350%
3	01:19:13	66.218%	12.270	0.926	0.908	478.900	477.000	75.055%	74.670%
X		65.891%	12.060	0.930	0.912	476.800	476.600	74.286%	74.013%
σ		0.375%	0.288	0.010	0.011	2.581	0.739	1.165%	0.876%
%RSD		0.569	2.385	1.048	1.228	0.541	0.155	1.569	1.183
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:17:47	1.221	1.254	220.900	217.600	218.200	67.815%		
2	01:18:30	1.276	1.256	223.900	220.300	221.200	69.421%		
3	01:19:13	1.219	1.258	225.400	221.600	222.500	69.474%		
X		1.239	1.256	223.400	219.800	220.700	68.903%		
σ		0.032	0.002	2.337	2.052	2.204	0.943%		
%RSD		2.618	0.162	1.046	0.934	0.999	1.368		

240-17810-F-4-A 12/23/2012 1:21:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	77.538%	3.666	13.550	13.740	0.000	236.200	18250.000	18880.000
2	01:22:50	76.742%	3.605	14.020	13.860	0.000	230.100	17700.000	18800.000
3	01:23:33	75.388%	3.844	13.720	13.770	0.000	231.900	18160.000	19030.000
X		76.556%	3.705	13.760	13.790	0.000	232.700	18040.000	18900.000
σ		1.087%	0.124	0.239	0.060	0.000	3.113	295.100	114.300
%RSD		1.420	3.345	1.735	0.432	0.000	1.338	1.636	0.605
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	83210.000	1859.000	0.000	6290.000	14200.000	13610.000	75.374%	432.600
2	01:22:50	81970.000	1826.000	0.000	6130.000	13800.000	13620.000	74.879%	426.500
3	01:23:33	82950.000	1875.000	0.000	6087.000	13720.000	13880.000	73.780%	428.900
X		82710.000	1853.000	0.000	6169.000	13910.000	13700.000	74.678%	429.300
σ		656.500	25.090	0.000	107.100	257.700	151.800	0.816%	3.033
%RSD		0.794	1.354	0.000	1.736	1.853	1.108	1.093	0.707
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	148.200	147.300	2741.000	187700.000	189200.000	62.900	155.700	154.100
2	01:22:50	147.600	147.700	2742.000	188600.000	190100.000	62.390	154.700	156.100
3	01:23:33	146.200	148.800	2779.000	190800.000	192400.000	63.580	157.600	156.700
X		147.300	147.900	2754.000	189000.000	190600.000	62.960	156.000	155.700
σ		1.024	0.777	21.840	1591.000	1658.000	0.596	1.479	1.377
%RSD		0.695	0.525	0.793	0.842	0.870	0.947	0.949	0.884
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	155.000	405.000	413.200	102.100	2.289	4.277	0.000	76.760
2	01:22:50	156.700	409.700	419.100	102.300	2.087	3.914	0.000	78.840
3	01:23:33	158.900	413.400	422.700	104.400	2.166	4.215	0.000	79.030
X		156.900	409.400	418.300	102.900	2.181	4.135	0.000	78.210
σ		1.943	4.200	4.790	1.271	0.102	0.194	0.000	1.263
%RSD		1.239	1.026	1.145	1.235	4.678	4.701	0.000	1.614
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	0.000	7.810	7.865	65.897%	0.257	0.194	1.392	1.096
2	01:22:50	0.000	7.802	7.824	65.599%	0.265	0.194	1.248	1.008
3	01:23:33	0.000	7.914	7.860	65.433%	0.274	0.208	1.278	1.015
X		0.000	7.842	7.850	65.643%	0.265	0.199	1.306	1.040
σ		0.000	0.062	0.022	0.235%	0.009	0.008	0.076	0.049
%RSD		0.000	0.795	0.285	0.358	3.247	4.075	5.823	4.685
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:07	65.400%	8.816	0.526	0.537	464.800	464.100	72.938%	72.000%
2	01:22:50	66.120%	8.828	0.471	0.513	466.900	466.800	73.596%	73.090%
3	01:23:33	65.818%	9.037	0.498	0.514	470.500	470.700	73.270%	73.508%
X		65.779%	8.894	0.498	0.521	467.400	467.200	73.268%	72.866%
σ		0.362%	0.124	0.028	0.014	2.906	3.332	0.329%	0.779%
%RSD		0.550	1.399	5.531	2.607	0.622	0.713	0.449	1.068
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:22:07	1.254	1.266	206.600	200.000	201.000	68.088%		
2	01:22:50	1.225	1.309	209.000	202.100	203.800	69.041%		
3	01:23:33	1.282	1.299	210.100	202.200	205.000	68.875%		
X		1.254	1.291	208.600	201.400	203.300	68.668%		
σ		0.028	0.023	1.776	1.275	2.007	0.509%		
%RSD		2.257	1.749	0.852	0.633	0.988	0.741		

240-17810-F-5-A 12/23/2012 1:25:45 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	77.302%	3.523	19.540	18.910	0.000	272.000	15770.000	16400.000
2	01:27:11	77.048%	3.593	18.280	18.850	0.000	276.400	15610.000	16340.000
3	01:27:54	76.203%	3.525	18.470	18.830	0.000	281.800	15870.000	16560.000
X		76.851%	3.547	18.760	18.860	0.000	276.700	15750.000	16430.000
σ		0.575%	0.040	0.682	0.043	0.000	4.900	133.200	113.300
%RSD		0.749	1.131	3.636	0.228	0.000	1.771	0.846	0.690
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	61790.000	2546.000	0.000	6210.000	17880.000	18260.000	75.310%	466.200
2	01:27:11	61770.000	2546.000	0.000	6085.000	17830.000	18430.000	73.890%	470.300
3	01:27:54	63070.000	2595.000	0.000	6289.000	18340.000	18740.000	71.989%	477.600
X		62210.000	2562.000	0.000	6195.000	18020.000	18480.000	73.730%	471.400
σ		744.700	28.610	0.000	102.900	279.400	248.100	1.667%	5.769
%RSD		1.197	1.117	0.000	1.662	1.551	1.343	2.260	1.224
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	123.300	126.900	2457.000	184300.000	186200.000	62.670	148.500	113.600
2	01:27:11	126.700	130.100	2454.000	186800.000	190000.000	63.420	150.800	115.100
3	01:27:54	129.900	131.200	2540.000	190200.000	191400.000	64.240	152.500	117.000
X		126.600	129.400	2483.000	187100.000	189200.000	63.440	150.600	115.200
σ		3.309	2.183	48.870	2990.000	2734.000	0.784	2.017	1.696
%RSD		2.613	1.687	1.968	1.598	1.445	1.235	1.340	1.472
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	113.700	338.600	341.300	110.800	1.672	3.168	0.000	67.110
2	01:27:11	115.500	339.800	346.400	111.100	1.723	3.147	0.000	68.310
3	01:27:54	117.200	346.100	351.600	113.700	1.795	3.341	0.000	68.770
X		115.500	341.500	346.500	111.900	1.730	3.219	0.000	68.060
σ		1.736	4.003	5.159	1.575	0.062	0.107	0.000	0.857
%RSD		1.503	1.172	1.489	1.408	3.564	3.313	0.000	1.260
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	0.000	8.114	8.082	66.584%	0.191	0.112	1.484	1.112
2	01:27:11	0.000	8.259	8.214	66.490%	0.197	0.123	1.184	0.923
3	01:27:54	0.000	8.218	8.347	66.113%	0.196	0.127	1.184	0.843
X		0.000	8.197	8.214	66.395%	0.194	0.121	1.284	0.959
σ		0.000	0.075	0.132	0.249%	0.003	0.008	0.173	0.138
%RSD		0.000	0.914	1.611	0.375	1.660	6.606	13.490	14.400
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:26:28	65.646%	6.968	1.047	1.057	334.400	333.500	71.777%	72.047%
2	01:27:11	65.951%	7.036	1.020	1.092	337.300	336.300	73.389%	73.290%
3	01:27:54	66.224%	7.329	1.131	1.054	334.700	338.900	73.940%	73.869%
X		65.940%	7.111	1.066	1.067	335.400	336.200	73.035%	73.069%
σ		0.289%	0.192	0.058	0.021	1.605	2.687	1.124%	0.931%
%RSD		0.438	2.694	5.410	1.978	0.478	0.799	1.539	1.274
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:26:28	0.953	0.981	83.430	81.550	82.190	67.955%		
2	01:27:11	0.991	1.010	84.170	83.260	83.210	69.329%		
3	01:27:54	1.007	0.993	85.280	84.040	84.230	69.430%		
X		0.984	0.995	84.290	82.950	83.210	68.905%		
σ		0.028	0.014	0.932	1.270	1.022	0.824%		
%RSD		2.857	1.452	1.105	1.531	1.228	1.196		

240-17810-F-6-A 12/23/2012 1:30:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	74.088%	5.094	20.150	19.940	0.000	312.600	23810.000	24970.000
2	01:31:32	74.203%	5.232	19.910	20.430	0.000	297.200	23250.000	24780.000
3	01:32:15	73.694%	5.151	20.030	20.440	0.000	298.900	23900.000	25280.000
X		73.995%	5.159	20.030	20.270	0.000	302.900	23650.000	25010.000
σ		0.266%	0.069	0.123	0.290	0.000	8.456	351.400	251.100
%RSD		0.360	1.335	0.615	1.433	0.000	2.792	1.486	1.004
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	97560.000	2129.000	0.000	7696.000	15040.000	13660.000	74.699%	665.200
2	01:31:32	97000.000	2079.000	0.000	7734.000	15320.000	14970.000	72.805%	665.700
3	01:32:15	98480.000	2128.000	0.000	7777.000	15380.000	14970.000	71.247%	656.100
X		97680.000	2112.000	0.000	7736.000	15250.000	14530.000	72.917%	662.400
σ		744.200	28.650	0.000	40.290	180.500	755.700	1.729%	5.397
%RSD		0.762	1.357	0.000	0.521	1.184	5.199	2.371	0.815
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	183.900	181.800	6172.000	258700.000	264100.000	103.400	213.900	187.300
2	01:31:32	187.100	184.400	6221.000	261900.000	266900.000	104.900	212.500	188.500
3	01:32:15	190.400	186.800	6346.000	264000.000	267000.000	105.000	216.500	189.500
X		187.100	184.300	6246.000	261500.000	266000.000	104.400	214.300	188.400
σ		3.234	2.514	89.740	2677.000	1675.000	0.911	1.994	1.120
%RSD		1.728	1.364	1.437	1.024	0.630	0.872	0.930	0.594
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	186.600	530.900	537.200	155.500	2.684	5.004	0.000	95.420
2	01:31:32	188.900	539.000	550.100	157.900	2.721	5.339	0.000	96.730
3	01:32:15	190.100	548.200	557.600	159.700	2.774	5.125	0.000	98.060
X		188.500	539.400	548.300	157.700	2.726	5.156	0.000	96.740
σ		1.779	8.668	10.300	2.091	0.046	0.170	0.000	1.321
%RSD		0.943	1.607	1.878	1.326	1.669	3.295	0.000	1.366
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	0.000	11.250	11.390	64.099%	0.244	0.193	1.589	1.308
2	01:31:32	0.000	11.390	11.630	64.196%	0.244	0.191	1.591	1.267
3	01:32:15	0.000	11.500	11.820	63.751%	0.257	0.167	1.670	1.420
X		0.000	11.380	11.620	64.015%	0.248	0.184	1.617	1.332
σ		0.000	0.127	0.212	0.234%	0.008	0.015	0.046	0.080
%RSD		0.000	1.112	1.824	0.365	3.136	8.071	2.875	5.978
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:30:49	63.651%	8.371	1.039	1.085	542.000	541.500	71.002%	70.510%
2	01:31:32	64.228%	8.504	1.062	1.051	542.300	544.400	72.375%	72.040%
3	01:32:15	63.984%	8.607	1.059	1.054	547.400	547.200	72.463%	72.387%
X		63.954%	8.494	1.053	1.063	543.900	544.400	71.947%	71.646%
σ		0.290%	0.118	0.013	0.019	3.019	2.874	0.819%	0.999%
%RSD		0.453	1.394	1.198	1.803	0.555	0.528	1.139	1.394
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:30:49	1.632	1.644	359.700	337.800	343.800	65.752%		
2	01:31:32	1.633	1.623	362.900	339.100	346.600	66.899%		
3	01:32:15	1.671	1.693	367.400	344.800	350.900	66.510%		
X		1.645	1.653	363.300	340.600	347.100	66.387%		
σ		0.022	0.036	3.881	3.691	3.556	0.583%		
%RSD		1.337	2.150	1.068	1.084	1.024	0.879		

240-17810-F-7-A 12/23/2012 1:34:27 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	73.405%	4.875	23.780	24.480	0.000	402.900	22150.000	22800.000
2	01:35:53	71.121%	5.042	25.720	25.180	0.000	405.300	22320.000	23540.000
3	01:36:36	72.850%	4.969	23.190	24.770	0.000	420.500	22330.000	23250.000
X		72.459%	4.962	24.230	24.810	0.000	409.600	22270.000	23200.000
σ		1.191%	0.084	1.325	0.352	0.000	9.531	102.500	376.600
%RSD		1.644	1.696	5.468	1.421	0.000	2.327	0.460	1.624
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	83220.000	2347.000	0.000	9348.000	16890.000	17330.000	73.819%	620.100
2	01:35:53	84020.000	2372.000	0.000	9576.000	17580.000	17750.000	71.761%	636.200
3	01:36:36	84720.000	2404.000	0.000	9479.000	17640.000	17890.000	70.631%	638.900
X		83990.000	2374.000	0.000	9468.000	17370.000	17660.000	72.070%	631.700
σ		746.500	28.670	0.000	114.000	417.200	293.800	1.617%	10.180
%RSD		0.889	1.208	0.000	1.204	2.401	1.664	2.243	1.612
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	157.500	160.600	3996.000	237200.000	240500.000	101.800	194.600	156.100
2	01:35:53	159.800	163.800	3977.000	237900.000	243300.000	103.600	199.400	160.900
3	01:36:36	165.000	168.100	4069.000	243800.000	249700.000	105.500	202.300	160.000
X		160.800	164.200	4014.000	239600.000	244500.000	103.600	198.700	159.000
σ		3.853	3.768	48.750	3671.000	4735.000	1.847	3.857	2.586
%RSD		2.397	2.296	1.215	1.532	1.937	1.783	1.941	1.626
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	156.900	432.100	443.500	134.100	2.210	3.993	0.000	76.050
2	01:35:53	162.800	447.900	454.400	136.400	2.128	3.947	0.000	78.050
3	01:36:36	163.200	454.500	458.600	139.500	2.140	4.659	0.000	78.440
X		161.000	444.800	452.100	136.700	2.159	4.200	0.000	77.510
σ		3.518	11.540	7.808	2.719	0.044	0.399	0.000	1.282
%RSD		2.185	2.594	1.727	1.989	2.045	9.493	0.000	1.653
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	0.000	11.370	11.400	63.800%	0.274	0.195	1.783	1.312
2	01:35:53	0.000	11.910	11.590	63.603%	0.287	0.165	1.728	1.389
3	01:36:36	0.000	11.930	11.690	63.468%	0.291	0.203	1.762	1.343
X		0.000	11.740	11.560	63.624%	0.284	0.188	1.758	1.348
σ		0.000	0.321	0.147	0.167%	0.009	0.020	0.028	0.039
%RSD		0.000	2.732	1.272	0.263	3.165	10.550	1.593	2.889
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:10	63.402%	8.870	0.786	0.778	419.900	423.700	71.106%	70.936%
2	01:35:53	64.162%	8.997	0.763	0.842	425.700	428.200	72.338%	72.545%
3	01:36:36	63.566%	8.867	0.735	0.833	433.900	433.300	72.519%	72.414%
X		63.710%	8.912	0.762	0.818	426.500	428.400	71.988%	71.965%
σ		0.400%	0.074	0.025	0.035	6.998	4.828	0.769%	0.893%
%RSD		0.628	0.834	3.323	4.267	1.641	1.127	1.068	1.241
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:35:10	1.181	1.152	123.500	121.200	121.700	65.424%		
2	01:35:53	1.185	1.137	124.200	121.800	122.500	67.289%		
3	01:36:36	1.157	1.142	125.600	123.400	123.900	67.702%		
X		1.174	1.143	124.400	122.100	122.700	66.805%		
σ		0.015	0.008	1.057	1.121	1.116	1.214%		
%RSD		1.301	0.660	0.850	0.918	0.909	1.817		

CCV 664806 12/23/2012 1:41:39 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	69.592%	103.300	95.560	97.190	0.000	47090.000	44050.000	45450.000
2	01:43:05	69.045%	101.900	96.680	96.110	0.000	47580.000	44170.000	45500.000
3	01:43:48	68.741%	104.200	98.690	97.930	0.000	46040.000	43540.000	45320.000
X		69.126%	103.142%	96.977%	97.079%	0.000	93.798%	87.836%	90.843%
σ		0.431%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.624	1.085	1.637	0.943	0.000	1.677	0.757	0.207
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	462.600	4910.000	0.000	48430.000	48720.000	50780.000	71.025%	97.850
2	01:43:05	464.700	4999.000	0.000	48840.000	49770.000	50690.000	70.567%	100.400
3	01:43:48	464.100	4928.000	0.000	48590.000	49170.000	50440.000	71.229%	98.850
X		92.759%	98.913%	0.000	97.237%	98.442%	101.269%	70.940%	99.028%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.339%	n/a
%RSD		0.241	0.955	0.000	0.425	1.071	0.348	0.478	1.294
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	97.440	98.150	520.800	25850.000	25750.000	95.220	94.670	94.590
2	01:43:05	98.210	98.010	525.300	25940.000	25720.000	96.610	95.590	95.260
3	01:43:48	96.010	97.170	520.200	25550.000	25660.000	95.310	93.120	94.000
X		97.216%	97.777%	104.417%	103.122%	102.836%	95.713%	94.458%	94.616%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.148	0.546	0.540	0.787	0.174	0.817	1.325	0.671
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	95.490	100.700	100.800	96.050	100.200	99.900	0.000	93.650
2	01:43:05	95.240	100.100	100.500	95.890	100.600	100.500	0.000	93.640
3	01:43:48	95.330	99.220	99.670	97.020	99.260	99.890	0.000	93.550
X		95.351%	100.002%	100.315%	96.321%	100.016%	100.084%	0.000	93.615%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.133	0.738	0.573	0.633	0.671	0.319	0.000	0.056
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	70.410%	91.280	93.400	65.287%	94.000	95.160	98.520	99.520
2	01:43:05	72.108%	95.760	97.110	66.363%	95.900	96.430	100.100	100.500
3	01:43:48	73.305%	98.300	98.690	67.421%	95.000	96.480	98.620	99.790
X		71.941%	95.112%	96.400%	66.357%	94.967%	96.022%	99.066%	99.920%
σ		1.455%	n/a	n/a	1.067%	n/a	n/a	n/a	n/a
%RSD		2.022	3.737	2.815	1.608	1.000	0.780	0.871	0.480
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:42:22	65.326%	95.250	95.710	95.470	94.150	95.600	66.834%	67.740%
2	01:43:05	67.317%	96.440	96.720	96.440	94.860	96.080	68.803%	70.075%
3	01:43:48	68.231%	96.890	97.080	95.990	95.110	95.070	70.234%	71.564%
X		66.958%	96.193%	96.503%	95.966%	94.707%	95.580%	68.624%	69.793%
σ		1.485%	n/a	n/a	n/a	n/a	n/a	1.707%	1.927%
%RSD		2.218	0.879	0.735	0.509	0.523	0.529	2.488	2.761
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:42:22	93.170	92.680	93.200	92.890	92.540	67.756%		
2	01:43:05	94.320	93.780	94.490	94.660	94.120	70.226%		
3	01:43:48	94.350	94.250	94.630	94.370	93.800	71.289%		
X		93.948%	93.569%	94.105%	93.976%	93.490%	69.757%		
σ		n/a	n/a	n/a	n/a	n/a	1.813%		
%RSD		0.715	0.857	0.838	1.014	0.894	2.599		



CCB8 12/23/2012 1:49:36 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	92.285%	-0.025	0.597	0.545	0.000	2.010	3.652	3.876
2	01:51:02	89.188%	-0.007	0.500	0.452	0.000	1.908	3.437	4.001
3	01:51:45	90.415%	-0.026	0.436	0.483	0.000	1.472	4.017	3.774
X		90.629%	-0.019	0.511	0.494	0.000	1.797	3.702	3.884
σ		1.560%	0.011	0.081	0.047	0.000	0.286	0.293	0.113
%RSD		1.721	55.100	15.880	9.592	0.000	15.930	7.921	2.919
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	0.812	-2.660	0.000	-5.633	7.478	2.347	88.839%	-0.007
2	01:51:02	0.785	-2.743	0.000	-7.439	6.239	4.415	85.944%	-0.047
3	01:51:45	0.808	-2.936	0.000	-7.914	2.423	2.265	86.133%	-0.057
X		0.802	-2.780	0.000	-6.995	5.380	3.009	86.972%	-0.037
σ		0.015	0.142	0.000	1.204	2.635	1.219	1.619%	0.027
%RSD		1.825	5.093	0.000	17.200	48.980	40.500	1.862	72.620
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	-0.008	-0.014	0.373	3.647	14.000	-0.002	-0.031	-0.049
2	01:51:02	0.027	-0.012	0.368	2.014	10.720	0.000	-0.020	-0.049
3	01:51:45	-0.021	-0.033	0.324	0.003	10.330	0.002	-0.019	-0.052
X		-0.001	-0.019	0.355	1.888	11.680	-0.000	-0.023	-0.050
σ		0.025	0.012	0.027	1.825	2.014	0.002	0.007	0.002
%RSD		3229.000	59.380	7.638	96.670	17.240	1075.000	29.680	3.621
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	-0.051	-0.690	-0.602	-0.475	-0.535	-2.242	0.000	0.015
2	01:51:02	-0.057	-0.643	-0.662	-0.411	-0.647	-1.870	0.000	0.016
3	01:51:45	-0.050	-0.620	-0.561	-0.445	-0.495	-2.004	0.000	0.016
X		-0.052	-0.651	-0.608	-0.444	-0.559	-2.039	0.000	0.016
σ		0.004	0.035	0.051	0.032	0.079	0.189	0.000	0.000
%RSD		7.630	5.432	8.405	7.195	14.080	9.245	0.000	2.252
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	80.491%	0.283	0.242	84.931%	0.002	0.001	-0.077	-0.049
2	01:51:02	80.546%	0.237	0.218	84.753%	0.004	-0.008	-0.111	-0.078
3	01:51:45	81.407%	0.201	0.184	84.713%	-0.003	-0.006	-0.046	-0.028
X		80.815%	0.240	0.215	84.799%	0.001	-0.005	-0.078	-0.052
σ		0.513%	0.041	0.029	0.116%	0.004	0.005	0.032	0.025
%RSD		0.635	17.050	13.720	0.137	253.500	102.200	41.520	48.660
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:19	77.965%	-0.397	-0.076	-0.044	-0.004	0.033	81.288%	82.805%
2	01:51:02	78.552%	-0.374	-0.055	-0.051	-0.014	0.031	83.457%	84.831%
3	01:51:45	78.871%	-0.507	-0.084	-0.074	-0.014	0.016	83.600%	85.203%
X		78.463%	-0.426	-0.072	-0.057	-0.010	0.027	82.782%	84.280%
σ		0.460%	0.071	0.015	0.016	0.006	0.009	1.296%	1.291%
%RSD		0.586	16.620	20.330	28.210	56.890	34.800	1.565	1.531
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:50:19	0.004	0.007	0.100	0.105	0.098	91.259%		
2	01:51:02	0.008	0.008	0.096	0.105	0.094	92.856%		
3	01:51:45	0.009	0.006	0.088	0.095	0.083	93.654%		
X		0.007	0.007	0.095	0.102	0.092	92.590%		
σ		0.003	0.001	0.006	0.006	0.008	1.220%		
%RSD		37.750	12.400	6.641	5.869	8.323	1.317		

CRI 668876 12/23/2012 2:01:10 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	76.025%	0.917	5.483	5.668	0.000	90.620	84.590	84.980
2	02:02:36	74.114%	0.998	5.905	5.680	0.000	91.520	83.570	88.470
3	02:03:19	73.103%	1.017	5.498	5.624	0.000	88.540	83.920	87.000
X		74.414%	97.715%	112.568%	113.148%	0.000	90.227%	84.026%	86.816%
σ		1.484%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.994	5.421	4.255	0.519	0.000	1.698	0.620	2.015
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	26.500	462.300	0.000	85.600	105.600	100.300	75.796%	4.513
2	02:02:36	27.060	474.300	0.000	86.260	87.440	98.180	74.427%	4.738
3	02:03:19	27.320	481.300	0.000	87.490	104.600	103.700	71.611%	4.838
X		89.870%	94.523%	0.000	86.452%	99.211%	100.699%	73.945%	93.926%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.134%	n/a
%RSD		1.545	2.039	0.000	1.104	10.280	2.752	2.885	3.535
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	0.838	1.905	5.195	59.430	59.010	0.481	0.990	2.010
2	02:02:36	0.904	1.883	5.398	57.400	58.790	0.484	0.964	1.918
3	02:03:19	0.949	1.938	5.328	57.010	58.090	0.463	0.973	1.902
X		89.702%	95.424%	1061.407%	115.893%	117.261%	95.253%	97.541%	97.160%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.220	1.442	1.950	2.240	0.820	2.350	1.347	3.013
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	1.990	4.532	4.995	0.876	4.946	5.146	0.000	4.928
2	02:02:36	1.947	4.809	4.665	0.845	5.574	4.561	0.000	4.916
3	02:03:19	1.894	4.954	4.919	0.921	5.186	4.567	0.000	4.900
X		97.176%	95.300%	97.197%	88.065%	104.706%	95.155%	0.000	98.292%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.482	4.503	3.553	4.321	6.060	7.060	0.000	0.290
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	69.157%	4.487	4.427	75.219%	0.937	0.923	0.929	1.008
2	02:02:36	69.924%	4.510	4.513	75.377%	0.873	0.897	0.948	1.024
3	02:03:19	69.477%	4.602	4.442	75.675%	0.927	0.916	0.971	0.997
X		69.519%	90.659%	89.216%	75.423%	91.223%	91.203%	94.915%	100.946%
σ		0.385%	n/a	n/a	0.232%	n/a	n/a	n/a	n/a
%RSD		0.554	1.340	1.024	0.307	3.780	1.499	2.234	1.347
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:01:53	70.936%	4.801	1.863	1.907	9.134	9.480	74.124%	75.369%
2	02:02:36	72.231%	4.847	1.810	1.833	9.145	9.114	76.072%	76.843%
3	02:03:19	73.008%	4.617	1.816	1.759	8.883	8.605	76.963%	78.166%
X		72.058%	95.098%	91.491%	91.661%	90.540%	90.663%	75.719%	76.792%
σ		1.047%	n/a	n/a	n/a	n/a	n/a	1.452%	1.399%
%RSD		1.453	2.559	1.590	4.036	1.636	4.851	1.917	1.822
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:01:53	0.861	0.827	0.898	0.914	0.878	85.184%		
2	02:02:36	0.818	0.829	0.873	0.887	0.874	86.518%		
3	02:03:19	0.818	0.796	0.860	0.924	0.868	87.333%		
X		83.238%	81.768%	87.738%	90.862%	87.318%	86.345%		
σ		n/a	n/a	n/a	n/a	n/a	1.085%		
%RSD		2.969	2.265	2.195	2.099	0.569	1.256		

CCV 664806 12/23/2012 2:08:23 AM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	72.647%	102.300	94.830	93.420	0.000	47970.000	44830.000	45840.000
2	02:09:49	71.889%	102.000	98.700	96.420	0.000	48120.000	44920.000	45220.000
3	02:10:32	69.883%	104.700	98.820	97.470	0.000	48230.000	45350.000	45900.000
X		71.473%	102.984%	97.451%	95.772%	0.000	96.206%	90.069%	91.305%
σ		1.428%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.998	1.417	2.326	2.194	0.000	0.272	0.616	0.832
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	462.700	4948.000	0.000	48290.000	48130.000	50340.000	75.794%	99.350
2	02:09:49	457.800	4975.000	0.000	49300.000	48930.000	50480.000	75.588%	100.100
3	02:10:32	460.600	4968.000	0.000	49490.000	49130.000	50690.000	75.285%	100.200
X		92.067%	99.273%	0.000	98.050%	97.460%	101.013%	75.556%	99.867%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.256%	n/a
%RSD		0.532	0.283	0.000	1.318	1.092	0.348	0.339	0.450
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	96.700	95.410	511.400	25590.000	25530.000	93.610	92.540	93.360
2	02:09:49	96.500	96.050	515.900	25940.000	25730.000	95.050	94.550	94.000
3	02:10:32	98.900	97.450	513.700	26020.000	25790.000	95.960	93.220	94.310
X		97.367%	96.303%	102.736%	103.400%	102.731%	94.872%	93.436%	93.889%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.372	1.082	0.435	0.884	0.543	1.252	1.093	0.514
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	93.720	98.350	99.400	93.870	99.830	99.550	0.000	93.970
2	02:09:49	94.400	99.250	98.990	95.840	100.400	100.700	0.000	94.000
3	02:10:32	94.390	99.020	99.490	96.770	101.300	101.500	0.000	94.420
X		94.171%	98.873%	99.297%	95.492%	100.524%	100.572%	0.000	94.130%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.417	0.471	0.269	1.551	0.740	0.953	0.000	0.269
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	72.736%	93.170	93.930	68.094%	93.400	95.430	98.910	100.400
2	02:09:49	74.534%	96.740	97.400	68.634%	95.360	96.880	98.560	100.200
3	02:10:32	75.226%	97.750	99.380	69.132%	96.150	97.470	99.900	101.700
X		74.165%	95.888%	96.902%	68.620%	94.967%	96.595%	99.126%	100.768%
σ		1.285%	n/a	n/a	0.519%	n/a	n/a	n/a	n/a
%RSD		1.733	2.510	2.848	0.757	1.489	1.085	0.702	0.771
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:09:06	66.065%	97.440	97.000	96.530	96.590	96.090	68.052%	69.090%
2	02:09:49	67.937%	97.670	98.140	97.580	97.060	97.300	69.871%	71.076%
3	02:10:32	68.530%	99.610	98.990	98.430	96.980	97.960	70.480%	71.833%
X		67.511%	98.239%	98.046%	97.514%	96.873%	97.120%	69.468%	70.666%
σ		1.287%	n/a	n/a	n/a	n/a	n/a	1.263%	1.416%
%RSD		1.906	1.216	1.018	0.976	0.259	0.979	1.818	2.004
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:09:06	90.450	90.000	90.590	90.070	89.950	70.495%		
2	02:09:49	91.450	91.500	91.720	92.080	91.810	71.918%		
3	02:10:32	93.230	93.400	93.800	93.760	93.540	72.011%		
X		91.712%	91.632%	92.036%	91.973%	91.767%	71.475%		
σ		n/a	n/a	n/a	n/a	n/a	0.850%		
%RSD		1.533	1.856	1.769	2.008	1.960	1.189		

CCB9 12/23/2012 2:16:19 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	99.589%	-0.036	0.384	0.452	0.000	2.922	4.196	4.195
2	02:17:45	98.946%	-0.026	0.302	0.338	0.000	2.936	4.510	4.446
3	02:18:28	97.816%	-0.026	0.516	0.381	0.000	2.888	4.197	4.127
X		98.784%	-0.029	0.401	0.390	0.000	2.915	4.301	4.256
σ		0.898%	0.006	0.108	0.058	0.000	0.025	0.181	0.168
%RSD		0.909	18.770	26.850	14.750	0.000	0.858	4.211	3.950
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	0.707	-2.671	0.000	-5.158	6.317	4.243	93.280%	-0.021
2	02:17:45	0.712	-3.047	0.000	-5.042	2.672	4.851	92.509%	-0.083
3	02:18:28	0.743	-2.670	0.000	-6.529	3.067	3.726	89.703%	-0.039
X		0.721	-2.796	0.000	-5.576	4.019	4.274	91.831%	-0.048
σ		0.019	0.217	0.000	0.827	2.000	0.563	1.883%	0.032
%RSD		2.670	7.766	0.000	14.830	49.760	13.170	2.050	66.790
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	0.012	-0.004	0.242	6.639	14.870	0.005	-0.012	-0.045
2	02:17:45	-0.002	-0.022	0.228	1.222	9.727	0.004	-0.027	-0.048
3	02:18:28	0.020	-0.016	0.235	-0.134	9.453	0.006	-0.028	-0.045
X		0.010	-0.014	0.235	2.576	11.350	0.005	-0.022	-0.046
σ		0.011	0.009	0.007	3.584	3.053	0.001	0.009	0.002
%RSD		112.000	63.270	3.022	139.100	26.900	20.890	40.910	3.416
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	-0.051	-0.538	-0.491	-0.400	-0.382	-1.549	0.000	0.022
2	02:17:45	-0.071	-0.508	-0.571	-0.537	-0.453	-2.351	0.000	0.015
3	02:18:28	-0.051	-0.649	-0.469	-0.444	-0.309	-1.818	0.000	0.025
X		-0.057	-0.565	-0.510	-0.460	-0.381	-1.906	0.000	0.021
σ		0.012	0.074	0.053	0.070	0.072	0.408	0.000	0.005
%RSD		20.400	13.090	10.460	15.260	18.820	21.420	0.000	23.060
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	81.231%	0.217	0.205	87.149%	-0.006	-0.004	-0.079	-0.053
2	02:17:45	82.870%	0.209	0.205	87.966%	-0.007	-0.011	-0.068	-0.027
3	02:18:28	82.603%	0.198	0.179	87.462%	-0.005	-0.003	-0.115	-0.079
X		82.235%	0.208	0.196	87.526%	-0.006	-0.006	-0.087	-0.053
σ		0.880%	0.009	0.015	0.412%	0.001	0.005	0.024	0.026
%RSD		1.070	4.403	7.730	0.471	22.540	82.590	28.080	49.560
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:17:02	83.259%	-0.417	-0.058	-0.071	-0.003	0.029	83.118%	83.578%
2	02:17:45	84.709%	-0.517	-0.070	-0.062	0.006	0.028	85.206%	86.258%
3	02:18:28	84.522%	-0.480	-0.061	-0.081	-0.009	0.021	85.538%	86.517%
X		84.164%	-0.471	-0.063	-0.071	-0.002	0.026	84.621%	85.451%
σ		0.789%	0.050	0.006	0.009	0.008	0.004	1.312%	1.627%
%RSD		0.937	10.670	9.821	13.130	348.100	16.450	1.550	1.904
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:17:02	0.006	0.011	0.035	0.035	0.043	95.211%		
2	02:17:45	0.013	0.006	0.030	0.034	0.031	95.971%		
3	02:18:28	0.011	0.009	0.025	0.038	0.030	97.018%		
X		0.010	0.009	0.030	0.036	0.035	96.067%		
σ		0.003	0.003	0.005	0.002	0.007	0.907%		
%RSD		33.680	31.600	15.860	5.958	20.590	0.944		

## Performance Report

### Sample details

Sample name : ITUNE

Acquired at : 12/22/2012 1:07:01 PM

Report name : EPA ILMO5.2/6020A 2.1 [8/5/2011 12:59:56 PM]

### Mass Calibration verification

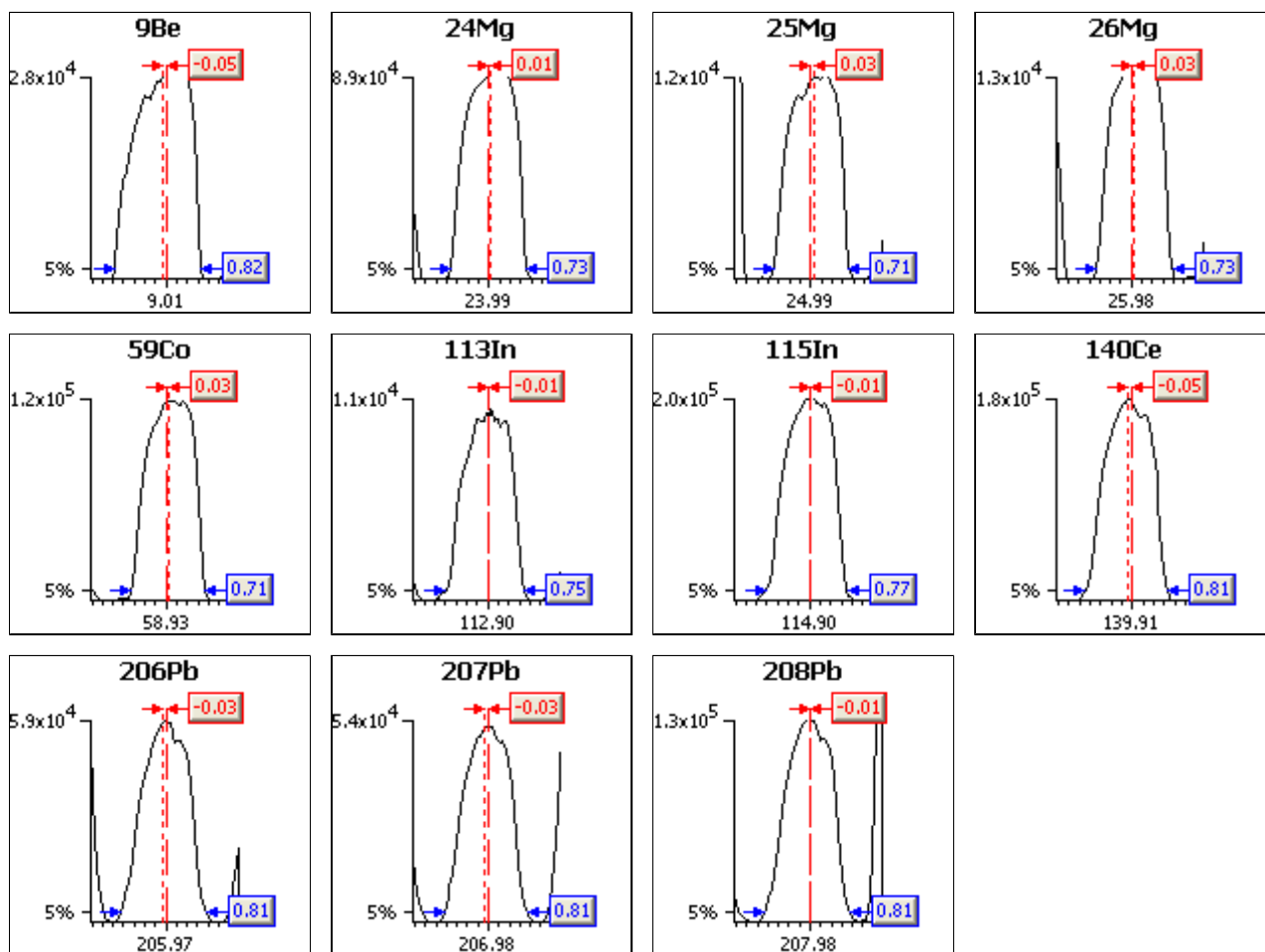
#### Acquisition parameters

Sweeps : 25

Dwell : 2.0 mSecs

Point spacing : 0.02 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
<b>9Be</b>	0.90	0.45	0.10	0.82	-0.05
<b>24Mg</b>	0.90	0.45	0.10	0.73	0.01
<b>25Mg</b>	0.90	0.45	0.10	0.71	0.03
<b>26Mg</b>	0.90	0.45	0.10	0.73	0.03
<b>59Co</b>	0.90	0.45	0.10	0.71	0.03
<b>113In</b>	0.90	0.45	0.10	0.75	-0.01
<b>115In</b>	0.90	0.45	0.10	0.77	-0.01
<b>140Ce</b>	0.90	0.45	0.10	0.81	-0.05
<b>206Pb</b>	0.90	0.45	0.10	0.81	-0.03
<b>207Pb</b>	0.90	0.45	0.10	0.81	-0.03
<b>208Pb</b>	0.90	0.45	0.10	0.81	-0.01

**Sample details**

Sample name : ITUNE

Acquired at : 12/22/2012 1:07:01 PM

Report name : EPA ILM05.2/6020A 2.1 [8/5/2011 12:59:56 PM]

**Tune conditions**

Major		Minor		Global		Add. Gases	
Extraction	-114	Lens 2	-36.1	Standard resolution	n/a	He/H2	0.00
Lens 1	2.0	Lens 3	-176.5	High resolution	n/a	He/NH3	0.00
Focus	26.7	Forward power	1349	Analogue Detector	n/a		
D1	-37.6	Horizontal	72	PC Detector	n/a		
Pole Bias	3.0	Vertical	408				
Hexapole Bias	-3.0	D2	-160				
Nebuliser	0.80	DA	-80.0				
Sampling Depth	150	Cool	13.0				
		Auxiliary	0.90				

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

Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>10000	-
1	1:07:49 PM	0	22876	93457	11826	13902	611449	124804	35
2	1:09:14 PM	0	22097	91897	11535	13604	581441	124866	30
3	1:10:39 PM	0	22273	93518	11890	13802	581857	126095	30
4	1:12:04 PM	0	21973	93452	11745	13705	581130	125666	27
5	1:13:30 PM	0	22675	94415	12052	13944	588626	128393	31
x		0	22379	93348	11810	13792	588901	125965	31
σ		0.08	384.02	907.67	190.27	139.82	12982.25	1462.73	2.92
%RSD		71.261	1.716	0.972	1.611	1.014	2.204	1.161	9.484

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	1:07:49 PM	205	0	8812	195306	5185	196530	2970	60492
2	1:09:14 PM	206	0	8867	196462	5127	198444	3032	61017
3	1:10:39 PM	202	0	9043	198103	5123	201079	3053	61839
4	1:12:04 PM	203	0	8948	198842	5068	199832	3024	61450
5	1:13:30 PM	196	0	9098	199490	5130	201416	3118	61644
x		202	0	8954	197641	5127	199460	3040	61288
σ		3.83	0.09	118.63	1726.19	41.33	2012.55	53.47	539.14
%RSD		1.892	72.436	1.325	0.873	0.806	1.009	1.759	0.880

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	1:07:49 PM	55011	130892	0
2	1:09:14 PM	55713	132400	0
3	1:10:39 PM	56336	134357	0
4	1:12:04 PM	55551	132204	0
5	1:13:30 PM	55582	132607	0
x		55639	132492	0
σ		473.72	1239.15	0.04
%RSD		0.851	0.935	34.233

**Ratio results**

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	1:07:49 PM	0
2	1:09:14 PM	0

3	1:10:39 PM	0
4	1:12:04 PM	0
5	1:13:30 PM	0
$\bar{x}$		0.0152
$\sigma$		0.00
%RSD		0.9842

Result : The performance report passed.

## Dilution Corrected Concentrations

STD1 686024 INT STD 12/23/2012 6:13:36 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	103.930%	0.009	-0.039	0.023	0.000	-0.105	0.143	-0.111
2	18:15:02	98.949%	-0.009	-0.051	0.034	0.000	-0.142	-0.103	0.044
3	18:15:45	97.120%	0.000	0.090	-0.058	0.000	0.247	-0.041	0.067
X		100.000%	-0.000	-0.000	0.000	0.000	0.000	-0.000	-0.000
σ		3.525%	0.009	0.078	0.050	0.000	0.214	0.128	0.097
%RSD		3.525	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	-0.017	-0.122	0.000	-1.243	-6.948	-0.759	104.138%	-0.003
2	18:15:02	0.020	0.352	0.000	1.009	5.959	2.284	96.782%	-0.062
3	18:15:45	-0.003	-0.231	0.000	0.234	0.989	-1.525	99.080%	0.065
X		-0.000	0.000	0.000	-0.000	0.000	0.000	100.000%	-0.000
σ		0.019	0.310	0.000	1.144	6.510	2.015	3.764%	0.063
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	3.764	0.000
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	0.006	-0.006	-0.003	-0.229	0.706	-0.000	-0.008	0.001
2	18:15:02	-0.003	0.006	-0.002	1.143	-0.220	-0.003	0.013	0.007
3	18:15:45	-0.002	0.001	0.004	-0.914	-0.486	0.003	-0.004	-0.008
X		0.000	-0.000	0.000	-0.000	-0.000	-0.000	0.000	-0.000
σ		0.005	0.006	0.004	1.047	0.626	0.003	0.011	0.008
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	0.011	0.010	-0.094	-0.081	-0.289	-0.267	0.000	0.000
2	18:15:02	0.010	0.077	0.017	0.036	0.106	0.195	0.000	0.000
3	18:15:45	-0.021	-0.086	0.076	0.045	0.184	0.072	0.000	-0.000
X		0.000	-0.000	-0.000	0.000	0.000	0.000	0.000	-0.000
σ		0.019	0.082	0.086	0.070	0.254	0.239	0.000	0.000
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	101.437%	-0.006	0.010	102.155%	0.001	-0.001	0.043	0.031
2	18:15:02	97.958%	-0.013	-0.003	97.832%	-0.001	-0.001	-0.021	-0.016
3	18:15:45	100.605%	0.019	-0.007	100.013%	0.001	0.003	-0.022	-0.015
X		100.000%	0.000	0.000	100.000%	-0.000	0.000	-0.000	0.000
σ		1.816%	0.017	0.009	2.161%	0.001	0.002	0.037	0.027
%RSD		1.816	0.000	0.000	2.161	0.000	0.000	0.000	0.000
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:19	101.124%	-0.014	0.005	-0.004	0.005	-0.005	100.722%	100.261%
2	18:15:02	98.290%	0.008	-0.010	-0.004	-0.004	0.003	98.367%	98.930%
3	18:15:45	100.586%	0.006	0.004	0.008	-0.001	0.002	100.911%	100.809%
X		100.000%	0.000	-0.000	0.000	0.000	-0.000	100.000%	100.000%
σ		1.505%	0.012	0.008	0.007	0.005	0.004	1.418%	0.967%
%RSD		1.505	0.000	0.000	0.000	0.000	0.000	1.418	0.967
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:14:19	0.001	0.001	0.006	0.003	0.002	100.386%		
2	18:15:02	0.000	0.000	-0.003	-0.004	-0.002	98.485%		
3	18:15:45	-0.001	-0.001	-0.003	0.002	-0.000	101.129%		
X		0.000	-0.000	-0.000	-0.000	0.000	100.000%		
σ		0.001	0.001	0.005	0.004	0.002	1.364%		
%RSD		0.000	0.000	0.000	0.000	0.000	1.364		



STD2 646077 12/23/2012 6:21:21 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	94.397%	191.900	0.199	0.259	0.000	98160.000	97770.000	97890.000
2	18:22:47	93.849%	201.400	0.534	0.292	0.000	99450.000	100100.000	100400.000
3	18:23:30	92.962%	206.700	0.435	0.320	0.000	102400.000	102100.000	101700.000
x		93.736%	200.000	0.389	0.290	0.000	100000.000	100000.000	100000.000
σ		0.724%	7.505	0.172	0.031	0.000	2170.000	2157.000	1937.000
%RSD		0.773	3.753	44.240	10.620	0.000	2.170	2.157	1.937
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	981.800	7.047	0.000	97850.000	98360.000	99550.000	99.341%	0.284
2	18:22:47	1007.000	6.662	0.000	100200.000	99940.000	99190.000	101.300%	0.304
3	18:23:30	1011.000	7.180	0.000	102000.000	101700.000	101300.000	104.187%	0.248
x		1000.000	6.963	0.000	100000.000	100000.000	100000.000	101.609%	0.279
σ		15.890	0.269	0.000	2058.000	1674.000	1108.000	2.438%	0.029
%RSD		1.589	3.861	0.000	2.058	1.674	1.108	2.399	10.280
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	195.800	195.100	986.400	49380.000	49360.000	195.700	198.200	197.600
2	18:22:47	201.200	202.000	1004.000	50250.000	50170.000	201.400	200.400	200.600
3	18:23:30	203.000	202.900	1009.000	50360.000	50460.000	203.000	201.400	201.800
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		3.734	4.307	12.090	537.500	571.000	3.823	1.610	2.171
%RSD		1.867	2.154	1.209	1.075	1.142	1.912	0.805	1.086
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	196.700	196.000	195.800	195.100	195.700	195.100	0.000	196.200
2	18:22:47	201.800	200.100	200.800	200.700	201.100	200.100	0.000	200.900
3	18:23:30	201.500	203.900	203.400	204.100	203.200	204.800	0.000	202.800
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		2.860	3.946	3.832	4.555	3.852	4.857	0.000	3.413
%RSD		1.430	1.973	1.916	2.278	1.926	2.429	0.000	1.706
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	92.849%	0.301	0.279	86.111%	195.700	194.900	195.900	195.900
2	18:22:47	95.770%	0.311	0.299	87.329%	200.000	200.800	200.500	200.100
3	18:23:30	97.361%	0.301	0.301	88.601%	204.300	204.300	203.600	204.000
x		95.327%	0.305	0.293	87.347%	200.000	200.000	200.000	200.000
σ		2.288%	0.006	0.012	1.245%	4.335	4.772	3.861	4.077
%RSD		2.401	1.948	4.121	1.426	2.168	2.386	1.930	2.039
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:04	89.588%	0.211	0.118	0.150	197.200	195.700	89.289%	89.215%
2	18:22:47	92.221%	0.128	0.103	0.125	199.600	200.100	91.676%	91.167%
3	18:23:30	93.323%	0.202	0.124	0.132	203.200	204.200	93.035%	93.055%
x		91.711%	0.180	0.115	0.136	200.000	200.000	91.333%	91.146%
σ		1.919%	0.045	0.011	0.013	3.005	4.283	1.896%	1.920%
%RSD		2.092	25.050	9.340	9.603	1.502	2.141	2.076	2.107
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:22:04	194.700	194.500	194.400	194.700	194.000	79.386%		
2	18:22:47	200.500	201.100	200.400	201.200	201.300	80.088%		
3	18:23:30	204.800	204.400	205.100	204.100	204.700	81.315%		
x		200.000	200.000	200.000	200.000	200.000	80.263%		
σ		5.044	5.003	5.372	4.833	5.435	0.976%		
%RSD		2.522	2.501	2.686	2.416	2.717	1.216		

STD3 646078 12/23/2012 6:25:38 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	103.360%	0.175	194.200	197.200	0.000	50.290	44.990	45.290
2	18:27:04	100.257%	0.137	204.200	201.600	0.000	50.700	44.610	43.700
3	18:27:47	100.536%	0.128	201.600	201.100	0.000	49.780	43.100	41.420
X		101.384%	0.146	200.000	200.000	0.000	50.260	44.230	43.470
σ		1.717%	0.025	5.229	2.401	0.000	0.460	1.003	1.946
%RSD		1.693	17.170	2.614	1.200	0.000	0.914	2.269	4.476
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	8.858	9939.000	0.000	42.250	56.590	124.600	112.477%	195.500
2	18:27:04	7.690	10060.000	0.000	41.100	53.240	128.700	108.225%	200.300
3	18:27:47	7.342	9997.000	0.000	40.240	48.620	126.100	107.647%	204.200
X		7.963	10000.000	0.000	41.200	52.820	126.500	109.450%	200.000
σ		0.794	62.890	0.000	1.007	4.004	2.092	2.637%	4.367
%RSD		9.971	0.629	0.000	2.445	7.581	1.654	2.410	2.183
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	0.192	0.137	0.700	142.200	149.300	0.109	0.304	2.384
2	18:27:04	0.149	0.100	0.685	74.150	75.950	0.113	0.273	2.358
3	18:27:47	0.172	0.130	0.675	52.820	57.520	0.112	0.348	2.314
X		0.171	0.122	0.687	89.730	94.270	0.111	0.309	2.352
σ		0.021	0.020	0.013	46.700	48.580	0.002	0.038	0.035
%RSD		12.360	16.120	1.824	52.040	51.530	1.575	12.170	1.507
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	2.269	4.212	4.239	0.869	2.886	3.400	0.000	0.182
2	18:27:04	2.413	4.341	4.420	0.435	1.750	1.525	0.000	0.160
3	18:27:47	2.349	4.543	4.358	0.384	1.316	0.893	0.000	0.161
X		2.344	4.365	4.339	0.563	1.984	1.939	0.000	0.168
σ		0.072	0.167	0.092	0.267	0.811	1.304	0.000	0.012
%RSD		3.072	3.829	2.118	47.380	40.860	67.250	0.000	7.155
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	104.698%	193.600	194.700	103.117%	0.196	0.221	0.179	-0.207
2	18:27:04	103.990%	202.000	201.300	102.414%	0.179	0.187	0.101	-0.241
3	18:27:47	102.856%	204.400	204.000	101.239%	0.189	0.173	0.130	-0.165
X		103.848%	200.000	200.000	102.257%	0.188	0.194	0.137	-0.204
σ		0.929%	5.665	4.793	0.949%	0.008	0.025	0.039	0.038
%RSD		0.895	2.833	2.396	0.928	4.508	12.810	28.740	18.710
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:26:21	103.729%	196.300	196.300	195.600	0.205	0.343	100.821%	100.712%
2	18:27:04	103.929%	201.100	200.100	200.300	0.141	0.364	102.604%	101.936%
3	18:27:47	102.292%	202.600	203.700	204.100	0.156	0.354	101.546%	102.187%
X		103.316%	200.000	200.000	200.000	0.167	0.354	101.657%	101.612%
σ		0.893%	3.296	3.690	4.275	0.034	0.011	0.897%	0.789%
%RSD		0.864	1.648	1.845	2.137	20.100	3.045	0.882	0.776
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:26:21	0.082	0.081	0.198	0.201	0.204	97.976%		
2	18:27:04	0.083	0.083	0.161	0.183	0.166	98.685%		
3	18:27:47	0.075	0.084	0.143	0.160	0.152	99.715%		
X		0.080	0.083	0.167	0.181	0.174	98.792%		
σ		0.005	0.001	0.028	0.020	0.027	0.875%		
%RSD		5.992	1.585	16.870	11.230	15.400	0.885		

ICV 660333 12/23/2012 6:29:56 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	105.016%	74.920	85.300	84.170	0.000	37010.000	36960.000	36680.000
2	18:31:22	102.278%	77.700	88.280	86.410	0.000	38600.000	38430.000	38550.000
3	18:32:06	101.373%	78.530	88.570	86.000	0.000	38390.000	37950.000	37930.000
X		102.889%	96.309%	109.228%	106.909%	0.000	94.995%	94.446%	94.291%
σ		1.897%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.843	2.455	2.071	1.397	0.000	2.280	1.992	2.524
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	369.500	4049.000	0.000	38200.000	37930.000	37870.000	109.080%	79.240
2	18:31:22	389.200	4241.000	0.000	39100.000	39000.000	39240.000	107.679%	82.720
3	18:32:06	381.900	4178.000	0.000	38820.000	38990.000	38820.000	108.088%	82.190
X		95.050%	103.897%	0.000	96.773%	96.598%	96.606%	108.282%	101.729%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.720%	n/a
%RSD		2.621	2.361	0.000	1.193	1.582	1.817	0.665	2.306
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	75.130	76.020	375.900	18640.000	18510.000	76.000	75.990	78.030
2	18:31:22	78.120	79.550	395.700	19720.000	19510.000	78.710	78.770	80.220
3	18:32:06	78.020	79.220	393.300	19490.000	19250.000	78.110	78.540	81.250
X		96.363%	97.831%	97.082%	96.409%	95.436%	97.009%	97.207%	99.789%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.204	2.492	2.785	2.958	2.725	1.837	1.984	2.064
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	76.970	81.840	82.960	78.610	80.160	79.110	0.000	72.780
2	18:31:22	79.720	85.430	85.940	81.750	83.610	83.290	0.000	75.660
3	18:32:06	78.670	84.620	85.200	80.370	81.110	82.180	0.000	74.700
X		98.065%	104.954%	105.871%	100.303%	102.030%	101.908%	0.000	92.975%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.770	2.239	1.832	1.965	2.182	2.657	0.000	1.974
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	103.570%	78.220	80.060	93.553%	77.360	78.220	78.460	78.640
2	18:31:22	103.960%	82.580	84.570	93.426%	81.000	81.040	81.230	81.340
3	18:32:06	106.827%	81.730	83.710	95.518%	80.380	80.650	80.630	80.870
X		104.785%	101.053%	103.473%	94.166%	99.475%	99.960%	100.134%	100.353%
σ		1.779%	n/a	n/a	1.173%	n/a	n/a	n/a	n/a
%RSD		1.697	2.861	2.893	1.246	2.444	1.910	1.821	1.800
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:30:39	95.931%	79.670	77.780	77.980	77.130	76.930	94.562%	94.672%
2	18:31:22	97.454%	82.220	81.230	81.030	78.390	79.620	97.243%	96.340%
3	18:32:06	99.914%	80.830	80.060	79.940	78.520	78.490	99.464%	99.010%
X		97.766%	101.131%	99.613%	99.562%	97.516%	97.931%	97.090%	96.674%
σ		2.010%	n/a	n/a	n/a	n/a	n/a	2.455%	2.188%
%RSD		2.056	1.579	2.198	1.943	0.981	1.726	2.528	2.263
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:30:39	78.170	78.330	76.140	75.230	75.450	86.200%		
2	18:31:22	82.500	82.920	80.240	79.680	80.150	86.201%		
3	18:32:06	79.900	80.510	77.460	76.880	77.250	89.983%		
X		100.237%	100.734%	97.429%	96.580%	97.020%	87.461%		
σ		n/a	n/a	n/a	n/a	n/a	2.184%		
%RSD		2.715	2.851	2.686	2.915	3.059	2.497		

ICB 12/23/2012 6:37:11 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	103.726%	0.012	1.121	0.991	0.000	1.263	0.998	0.884
2	18:38:37	108.045%	0.005	0.733	0.872	0.000	0.381	0.925	0.497
3	18:39:20	105.187%	-0.004	0.776	0.639	0.000	0.813	1.009	0.585
X		105.653%	0.004	0.877	0.834	0.000	0.819	0.977	0.656
σ		2.197%	0.008	0.213	0.179	0.000	0.441	0.046	0.203
%RSD		2.079	184.100	24.250	21.440	0.000	53.840	4.699	30.950
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	1.365	0.236	0.000	-1.347	33.420	31.230	110.788%	-0.050
2	18:38:37	1.185	-0.957	0.000	-3.281	24.580	29.040	111.921%	0.025
3	18:39:20	1.366	-0.905	0.000	-4.490	33.860	30.290	109.812%	-0.111
X		1.305	-0.542	0.000	-3.040	30.620	30.190	110.840%	-0.045
σ		0.104	0.674	0.000	1.585	5.238	1.095	1.055%	0.068
%RSD		7.976	124.400	0.000	52.150	17.110	3.628	0.952	150.900
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	0.020	-0.002	0.015	3.107	9.018	-0.004	-0.021	-0.022
2	18:38:37	-0.012	-0.044	0.021	-2.306	6.555	-0.004	0.005	-0.017
3	18:39:20	0.010	-0.005	0.019	-4.475	5.728	-0.005	-0.023	-0.013
X		0.006	-0.017	0.018	-1.225	7.101	-0.005	-0.013	-0.017
σ		0.017	0.023	0.003	3.905	1.712	0.000	0.015	0.005
%RSD		279.100	135.400	16.210	318.900	24.100	9.336	117.400	28.680
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	-0.035	-0.099	0.057	0.047	0.254	0.201	0.000	0.013
2	18:38:37	-0.020	0.010	-0.177	-0.117	0.112	-0.503	0.000	0.012
3	18:39:20	-0.055	-0.098	0.059	-0.064	-0.004	-0.216	0.000	0.014
X		-0.037	-0.062	-0.020	-0.045	0.121	-0.173	0.000	0.013
σ		0.017	0.063	0.136	0.084	0.129	0.354	0.000	0.001
%RSD		47.310	100.600	668.700	188.200	107.200	205.000	0.000	4.516
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	100.792%	0.354	0.360	97.221%	0.016	0.005	0.011	0.006
2	18:38:37	104.343%	0.313	0.305	99.599%	0.005	0.007	0.056	0.049
3	18:39:20	103.911%	0.321	0.272	99.545%	0.002	0.013	0.086	0.067
X		103.015%	0.330	0.313	98.788%	0.008	0.009	0.051	0.041
σ		1.937%	0.022	0.045	1.357%	0.007	0.004	0.038	0.032
%RSD		1.881	6.552	14.280	1.374	92.290	44.610	74.460	77.440
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:37:54	98.024%	0.089	-0.041	-0.034	0.019	0.033	96.816%	96.217%
2	18:38:37	101.363%	-0.035	-0.021	-0.023	0.033	0.015	101.338%	101.244%
3	18:39:20	101.339%	-0.104	-0.035	-0.046	0.021	0.028	100.862%	100.989%
X		100.242%	-0.017	-0.032	-0.034	0.025	0.025	99.672%	99.483%
σ		1.921%	0.098	0.010	0.012	0.008	0.009	2.485%	2.832%
%RSD		1.916	587.800	31.580	33.680	31.240	36.990	2.493	2.846
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:37:54	-0.000	0.001	0.029	0.029	0.023	95.992%		
2	18:38:37	-0.002	0.002	0.011	0.005	0.009	99.249%		
3	18:39:20	0.005	0.000	0.011	0.001	0.008	100.287%		
X		0.001	0.001	0.017	0.012	0.013	98.510%		
σ		0.003	0.001	0.010	0.015	0.008	2.241%		
%RSD		381.100	57.790	60.640	127.700	64.020	2.275		

CRI 668876 12/23/2012 6:41:32 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	104.120%	0.878	5.746	5.724	0.000	97.940	94.310	93.800
2	18:42:58	99.517%	1.013	5.673	5.995	0.000	97.290	96.290	94.870
3	18:43:41	99.714%	0.843	5.913	5.720	0.000	93.890	91.150	87.740
X		101.117%	91.116%	115.544%	116.260%	0.000	96.373%	93.915%	92.137%
σ		2.602%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.574	9.863	2.132	2.708	0.000	2.256	2.759	4.172
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	30.930	497.400	0.000	88.060	100.700	104.600	104.729%	5.126
2	18:42:58	30.520	503.100	0.000	90.840	101.100	100.100	102.786%	4.763
3	18:43:41	28.490	474.800	0.000	80.850	93.330	102.500	103.660%	5.046
X		99.934%	98.351%	0.000	86.579%	98.357%	102.376%	103.725%	99.570%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.973%	n/a
%RSD		4.354	3.047	0.000	5.956	4.432	2.180	0.938	3.831
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	0.902	1.961	5.130	56.120	63.100	0.515	0.941	2.058
2	18:42:58	1.012	2.011	5.365	55.940	63.280	0.517	1.073	2.188
3	18:43:41	0.872	1.838	4.986	47.680	55.770	0.492	1.016	1.966
X		92.844%	96.832%	1032.036%	106.491%	121.431%	101.629%	101.018%	103.532%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		7.921	4.599	3.706	9.061	7.058	2.789	6.594	5.366
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	2.072	5.460	5.285	1.166	4.984	5.347	0.000	4.792
2	18:42:58	2.095	5.803	5.542	1.027	5.266	4.978	0.000	4.892
3	18:43:41	1.998	5.065	4.962	0.772	4.966	4.110	0.000	4.610
X		102.756%	108.854%	105.258%	98.824%	101.433%	96.233%	0.000	95.298%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.455	6.782	5.523	20.220	3.319	13.190	0.000	3.001
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	98.260%	4.857	4.752	97.261%	0.984	1.013	1.066	1.093
2	18:42:58	98.782%	4.866	4.940	97.089%	0.991	1.038	1.117	1.060
3	18:43:41	101.169%	4.754	4.603	101.358%	0.956	0.978	1.013	0.968
X		99.404%	96.512%	95.300%	98.570%	97.719%	100.966%	106.547%	104.032%
σ		1.551%	n/a	n/a	2.417%	n/a	n/a	n/a	n/a
%RSD		1.560	1.286	3.545	2.452	1.930	3.022	4.896	6.248
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:42:15	98.412%	5.030	1.970	1.939	9.648	9.510	98.486%	98.377%
2	18:42:58	98.399%	5.469	2.099	1.931	9.554	9.483	99.533%	100.164%
3	18:43:41	102.396%	4.854	1.864	1.795	8.423	9.014	104.701%	104.354%
X		99.736%	102.353%	98.867%	94.426%	92.084%	93.356%	100.907%	100.965%
σ		2.303%	n/a	n/a	n/a	n/a	n/a	3.327%	3.068%
%RSD		2.310	6.184	5.958	4.280	7.409	2.989	3.297	3.038
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:42:15	0.887	0.914	0.953	0.976	0.967	99.106%		
2	18:42:58	0.925	0.940	0.955	1.031	0.973	100.181%		
3	18:43:41	0.884	0.860	0.958	0.971	0.946	103.425%		
X		89.863%	90.483%	95.517%	99.284%	96.166%	100.904%		
σ		n/a	n/a	n/a	n/a	n/a	2.248%		
%RSD		2.577	4.521	0.263	3.345	1.476	2.228		

ICSA 668877 12/23/2012 6:45:53 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	83.274%	0.024	0.774	0.862	0.000	104700.000	101100.000	101000.000
2	18:47:19	80.508%	-0.013	0.721	0.657	0.000	108100.000	104000.000	105800.000
3	18:48:02	80.189%	-0.004	0.492	0.798	0.000	103600.000	99380.000	99800.000
X		81.324%	0.003	0.662	0.772	0.000	105400.000	101500.000	102200.000
σ		1.696%	0.019	0.150	0.105	0.000	2324.000	2325.000	3150.000
%RSD		2.086	744.100	22.590	13.570	0.000	2.204	2.291	3.082
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	100400.000	26.990	0.000	100600.000	101000.000	101700.000	91.533%	2279.000
2	18:47:19	103700.000	27.550	0.000	104600.000	108300.000	109900.000	85.682%	2423.000
3	18:48:02	99980.000	26.690	0.000	98730.000	101400.000	103100.000	88.553%	2275.000
X		101400.000	27.080	0.000	101300.000	103500.000	104900.000	88.589%	2326.000
σ		2047.000	0.440	0.000	2988.000	4101.000	4412.000	2.926%	84.480
%RSD		2.019	1.626	0.000	2.949	3.961	4.206	3.303	3.632
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	-0.475	-0.050	0.382	104500.000	104200.000	0.148	0.417	0.964
2	18:47:19	-0.379	0.056	0.399	111000.000	111600.000	0.159	0.486	1.084
3	18:48:02	-0.341	-0.019	0.395	105100.000	104600.000	0.156	0.514	1.036
X		-0.398	-0.004	0.392	106800.000	106800.000	0.155	0.472	1.028
σ		0.069	0.054	0.009	3592.000	4153.000	0.006	0.050	0.061
%RSD		17.280	1289.000	2.179	3.363	3.890	3.690	10.510	5.891
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	1.387	3.238	1.979	0.148	0.553	0.064	0.000	4.735
2	18:47:19	1.478	3.244	2.251	0.184	0.602	0.514	0.000	4.780
3	18:48:02	1.238	3.587	1.678	0.169	0.529	0.719	0.000	4.728
X		1.368	3.356	1.969	0.167	0.561	0.432	0.000	4.748
σ		0.121	0.200	0.286	0.018	0.037	0.335	0.000	0.028
%RSD		8.842	5.949	14.550	10.750	6.537	77.480	0.000	0.597
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	89.562%	2205.000	2272.000	82.472%	0.085	0.090	0.465	0.441
2	18:47:19	89.884%	2298.000	2360.000	82.026%	0.111	0.113	0.207	0.216
3	18:48:02	91.087%	2245.000	2300.000	82.728%	0.098	0.101	0.271	0.249
X		90.178%	2249.000	2311.000	82.409%	0.098	0.101	0.315	0.302
σ		0.804%	46.540	44.930	0.355%	0.013	0.011	0.134	0.122
%RSD		0.892	2.069	1.944	0.431	13.160	11.090	42.640	40.300
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:46:36	89.591%	0.196	0.263	0.277	0.222	0.290	88.516%	87.854%
2	18:47:19	89.914%	0.165	0.273	0.312	0.288	0.275	89.564%	89.333%
3	18:48:02	91.179%	0.044	0.253	0.264	0.261	0.219	91.940%	91.700%
X		90.228%	0.135	0.263	0.284	0.257	0.262	90.007%	89.629%
σ		0.839%	0.080	0.010	0.025	0.033	0.037	1.755%	1.940%
%RSD		0.930	59.670	3.974	8.647	12.920	14.270	1.949	2.164
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:46:36	0.001	0.004	0.254	0.223	0.243	81.801%		
2	18:47:19	0.005	-0.001	0.215	0.210	0.229	83.114%		
3	18:48:02	-0.006	0.001	0.222	0.207	0.209	85.603%		
X		0.000	0.001	0.230	0.213	0.227	83.506%		
σ		0.006	0.002	0.021	0.009	0.017	1.931%		
%RSD		2219.000	176.700	9.106	4.029	7.473	2.312		

ICSAB 668878 12/23/2012 6:50:00 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	80.383%	20.790	52.240	52.610	0.000	101800.000	96560.000	98130.000
2	18:51:26	77.647%	20.730	51.550	52.660	0.000	104300.000	99290.000	101200.000
3	18:52:09	76.151%	20.800	51.080	52.300	0.000	102200.000	97480.000	99010.000
x		78.061%	103.858%	103.242%	105.050%	0.000	102.753%	97.777%	99.457%
σ		2.146%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.749	0.180	1.126	0.366	0.000	1.343	1.421	1.602
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	97370.000	564.400	0.000	96680.000	98810.000	99860.000	90.538%	2220.000
2	18:51:26	100600.000	586.600	0.000	100900.000	104900.000	105100.000	84.474%	2313.000
3	18:52:09	97910.000	571.000	0.000	96590.000	99910.000	100500.000	87.526%	2220.000
x		98.617%	114.802%	0.000	98.046%	101.203%	101.832%	87.513%	112.544%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.032%	n/a
%RSD		1.742	1.990	0.000	2.493	3.208	2.827	3.464	2.393
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	20.270	20.250	20.990	101000.000	101100.000	20.120	20.110	20.130
2	18:51:26	21.050	21.260	21.890	105800.000	105600.000	21.030	20.170	20.830
3	18:52:09	20.160	20.180	20.850	101700.000	100900.000	19.790	19.570	20.080
x		102.485%	102.825%	92.353%	102.850%	102.538%	101.560%	99.738%	101.736%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.363	2.935	2.660	2.508	2.552	3.164	1.660	2.062
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	19.940	22.820	21.630	20.660	50.330	51.900	0.000	23.690
2	18:51:26	21.390	23.830	22.650	20.930	52.700	52.040	0.000	23.830
3	18:52:09	20.450	22.340	22.080	20.230	51.370	49.290	0.000	23.730
x		102.972%	91.988%	88.479%	103.030%	102.936%	102.151%	0.000	118.750%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.581	3.297	2.310	1.728	2.305	3.027	0.000	0.304
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	94.715%	2139.000	2213.000	82.734%	20.240	20.130	20.950	20.180
2	18:51:26	95.108%	2158.000	2228.000	82.172%	20.330	20.250	20.900	20.530
3	18:52:09	94.830%	2152.000	2224.000	82.424%	20.440	20.190	21.130	20.740
x		94.884%	107.497%	111.067%	82.443%	101.674%	100.965%	104.977%	102.427%
σ		0.202%	n/a	n/a	0.281%	n/a	n/a	n/a	n/a
%RSD		0.213	0.444	0.349	0.341	0.506	0.295	0.573	1.378
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:43	91.013%	103.600	20.770	20.610	20.860	21.370	90.424%	90.594%
2	18:51:26	91.305%	105.000	21.180	21.130	20.500	21.100	92.386%	92.542%
3	18:52:09	91.166%	104.700	21.010	20.630	20.710	20.600	92.804%	93.581%
x		91.161%	104.467%	104.922%	103.950%	103.458%	105.100%	91.872%	92.239%
σ		0.146%	n/a	n/a	n/a	n/a	n/a	1.271%	1.516%
%RSD		0.160	0.721	0.967	1.434	0.868	1.848	1.383	1.644
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:50:43	20.990	21.040	21.350	21.370	21.370	81.911%		
2	18:51:26	21.240	21.580	21.770	21.490	21.650	83.484%		
3	18:52:09	21.360	21.660	22.120	21.940	21.990	83.346%		
x		105.982%	107.118%	108.734%	107.995%	108.346%	82.914%		
σ		n/a	n/a	n/a	n/a	n/a	0.871%		
%RSD		0.885	1.568	1.756	1.389	1.420	1.050		

CCV 664806 12/23/2012 6:57:13 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	85.690%	96.560	96.680	95.970	0.000	48220.000	46250.000	46950.000
2	18:58:39	80.349%	97.600	97.800	98.470	0.000	48500.000	47310.000	49100.000
3	18:59:22	80.289%	99.590	103.200	100.600	0.000	49060.000	47440.000	48070.000
X		82.109%	97.919%	99.216%	98.340%	0.000	97.184%	94.001%	96.074%
σ		3.101%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.777	1.571	3.496	2.344	0.000	0.879	1.385	2.240
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	492.900	4946.000	0.000	47360.000	47770.000	48240.000	89.801%	103.000
2	18:58:39	506.600	5040.000	0.000	47660.000	49120.000	49170.000	87.208%	104.700
3	18:59:22	495.200	5046.000	0.000	48130.000	49860.000	50390.000	85.515%	106.800
X		99.649%	100.213%	0.000	95.434%	97.832%	98.540%	87.508%	104.809%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.159%	n/a
%RSD		1.473	1.126	0.000	0.813	2.173	2.188	2.467	1.815
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	97.050	98.170	502.800	24910.000	24670.000	97.480	96.250	95.980
2	18:58:39	99.510	100.500	511.200	25400.000	25370.000	99.450	98.020	98.790
3	18:59:22	101.200	101.700	522.500	25900.000	25510.000	100.800	100.000	100.400
X		99.257%	100.100%	102.434%	101.622%	100.738%	99.252%	98.101%	98.376%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.104	1.770	1.932	1.951	1.804	1.696	1.934	2.252
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	95.750	99.850	100.400	95.870	99.060	98.010	0.000	92.280
2	18:58:39	98.790	103.400	101.400	98.590	100.600	98.910	0.000	94.140
3	18:59:22	100.200	105.100	103.500	99.790	102.900	101.500	0.000	95.940
X		98.240%	102.765%	101.751%	98.081%	100.844%	99.487%	0.000	94.118%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.301	2.587	1.590	2.049	1.891	1.850	0.000	1.945
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	95.480%	99.900	101.300	89.887%	94.460	94.400	96.090	96.210
2	18:58:39	94.565%	102.400	103.900	88.306%	96.730	95.840	96.570	97.180
3	18:59:22	93.211%	105.500	107.100	87.572%	97.920	97.830	99.440	98.870
X		94.419%	102.614%	104.107%	88.588%	96.370%	96.021%	97.366%	97.419%
σ		1.142%	n/a	n/a	1.183%	n/a	n/a	n/a	n/a
%RSD		1.210	2.732	2.789	1.335	1.824	1.792	1.859	1.379
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:56	95.836%	92.770	93.480	93.440	90.200	89.760	99.315%	100.060%
2	18:58:39	95.631%	95.060	95.240	95.950	91.950	91.680	99.993%	100.609%
3	18:59:22	94.998%	96.870	97.290	96.760	91.650	92.750	99.701%	100.444%
X		95.488%	94.901%	95.336%	95.385%	91.268%	91.397%	99.670%	100.371%
σ		0.437%	n/a	n/a	n/a	n/a	n/a	0.340%	0.281%
%RSD		0.457	2.168	2.000	1.813	1.026	1.654	0.341	0.280
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:57:56	92.580	92.470	92.840	93.140	92.850	90.915%		
2	18:58:39	94.590	94.720	95.790	95.300	95.430	91.171%		
3	18:59:22	97.230	97.170	97.760	97.890	97.800	90.557%		
X		94.799%	94.786%	95.463%	95.442%	95.360%	90.881%		
σ		n/a	n/a	n/a	n/a	n/a	0.309%		
%RSD		2.458	2.480	2.590	2.491	2.593	0.339		



CCB1 12/23/2012 7:04:24 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	89.013%	-0.003	0.527	0.735	0.000	2.175	1.731	1.622
2	19:05:50	88.323%	-0.014	0.338	0.577	0.000	1.474	1.155	1.297
3	19:06:33	88.381%	0.007	0.537	0.474	0.000	1.810	1.501	1.430
X		88.572%	-0.003	0.467	0.596	0.000	1.820	1.462	1.450
σ		0.383%	0.011	0.112	0.131	0.000	0.350	0.290	0.164
%RSD		0.432	328.400	23.990	22.070	0.000	19.250	19.840	11.280
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	1.947	-1.792	0.000	-5.796	25.810	26.150	102.169%	0.033
2	19:05:50	1.885	-1.979	0.000	-6.581	28.470	30.820	99.999%	-0.005
3	19:06:33	1.697	-2.378	0.000	-7.318	35.400	30.860	100.170%	0.106
X		1.843	-2.050	0.000	-6.565	29.890	29.280	100.779%	0.045
σ		0.130	0.300	0.000	0.761	4.951	2.707	1.206%	0.057
%RSD		7.065	14.620	0.000	11.590	16.560	9.247	1.197	126.600
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	-0.011	-0.023	0.179	0.952	11.040	-0.006	-0.016	-0.024
2	19:05:50	-0.009	-0.052	0.175	-1.378	9.256	-0.011	-0.002	-0.037
3	19:06:33	-0.003	-0.046	0.170	-5.260	6.887	-0.008	-0.003	-0.028
X		-0.008	-0.040	0.175	-1.895	9.061	-0.008	-0.007	-0.029
σ		0.004	0.015	0.005	3.138	2.085	0.003	0.008	0.007
%RSD		48.840	38.290	2.697	165.600	23.010	35.150	110.500	22.920
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	-0.010	0.024	0.022	-0.125	-0.127	-0.366	0.000	0.021
2	19:05:50	-0.031	0.163	0.270	-0.137	-0.160	-0.438	0.000	0.013
3	19:06:33	-0.045	-0.004	-0.042	0.084	-0.329	0.443	0.000	0.009
X		-0.029	0.061	0.083	-0.059	-0.205	-0.121	0.000	0.014
σ		0.018	0.090	0.165	0.124	0.108	0.489	0.000	0.006
%RSD		62.070	146.700	197.700	209.100	52.660	405.800	0.000	42.860
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	92.702%	0.976	0.987	93.484%	0.004	-0.006	-0.006	0.005
2	19:05:50	93.908%	1.017	0.982	93.416%	0.004	-0.000	0.040	0.033
3	19:06:33	92.585%	1.005	0.993	93.536%	-0.004	0.003	-0.010	-0.005
X		93.065%	0.999	0.987	93.479%	0.001	-0.001	0.008	0.011
σ		0.732%	0.021	0.005	0.060%	0.004	0.005	0.028	0.020
%RSD		0.787	2.119	0.553	0.064	356.500	465.000	350.100	181.900
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:07	95.863%	-0.022	-0.023	-0.030	0.040	0.016	97.821%	98.294%
2	19:05:50	96.701%	0.027	-0.008	-0.003	-0.010	0.027	100.856%	101.428%
3	19:06:33	96.657%	-0.063	-0.013	-0.031	0.009	0.019	101.174%	101.779%
X		96.407%	-0.020	-0.015	-0.021	0.013	0.021	99.950%	100.500%
σ		0.471%	0.045	0.008	0.016	0.025	0.005	1.851%	1.919%
%RSD		0.489	230.600	53.990	75.880	197.000	26.150	1.852	1.909
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:05:07	0.009	0.007	0.020	0.024	0.026	100.805%		
2	19:05:50	0.003	0.006	0.022	0.014	0.018	102.260%		
3	19:06:33	0.012	0.004	0.014	0.020	0.018	102.836%		
X		0.008	0.005	0.019	0.019	0.021	101.967%		
σ		0.005	0.002	0.004	0.005	0.005	1.047%		
%RSD		58.760	32.090	21.800	25.110	22.910	1.027		

MB 180-59062/1-A 12/23/2012 7:08:43 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	91.422%	0.011	0.250	0.406	0.000	8.764	6.233	5.951
2	19:10:10	90.249%	-0.002	0.319	0.358	0.000	8.552	6.032	5.514
3	19:10:52	88.343%	-0.000	0.244	0.281	0.000	7.999	6.292	5.413
X		90.005%	0.003	0.271	0.349	0.000	8.438	6.185	5.626
σ		1.554%	0.007	0.042	0.063	0.000	0.395	0.136	0.286
%RSD		1.726	232.200	15.330	18.030	0.000	4.681	2.203	5.084
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	6.489	-0.004	0.000	-0.846	20.620	17.070	104.311%	-0.014
2	19:10:10	6.676	-0.013	0.000	-2.631	32.490	18.500	100.430%	0.049
3	19:10:52	6.405	-0.117	0.000	-2.170	24.070	18.680	97.783%	0.152
X		6.523	-0.045	0.000	-1.883	25.730	18.080	100.841%	0.062
σ		0.139	0.063	0.000	0.927	6.108	0.882	3.283%	0.084
%RSD		2.126	141.200	0.000	49.220	23.740	4.877	3.256	134.800
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	-0.096	0.064	0.386	10.080	21.650	-0.011	0.026	0.070
2	19:10:10	-0.054	0.024	0.373	8.432	20.320	-0.011	0.023	0.062
3	19:10:52	0.042	0.039	0.415	7.836	18.080	-0.009	0.054	0.055
X		-0.036	0.043	0.391	8.783	20.020	-0.010	0.035	0.062
σ		0.071	0.020	0.021	1.162	1.807	0.001	0.017	0.007
%RSD		196.700	48.030	5.435	13.230	9.029	13.080	48.700	11.860
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	0.018	0.646	0.728	-0.313	-0.616	-1.103	0.000	0.046
2	19:10:10	0.039	0.816	0.876	-0.255	-0.402	-1.020	0.000	0.047
3	19:10:52	0.063	0.877	0.971	-0.231	-0.409	-0.737	0.000	0.048
X		0.040	0.780	0.859	-0.267	-0.476	-0.953	0.000	0.047
σ		0.022	0.120	0.123	0.042	0.122	0.192	0.000	0.001
%RSD		55.290	15.370	14.320	15.860	25.560	20.130	0.000	2.378
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	95.081%	0.671	0.740	93.252%	0.008	0.014	-0.057	-0.043
2	19:10:10	95.168%	0.660	0.628	92.609%	0.004	0.008	-0.062	-0.047
3	19:10:52	94.001%	0.518	0.619	92.572%	0.004	0.004	-0.008	0.008
X		94.750%	0.616	0.662	92.811%	0.005	0.009	-0.042	-0.027
σ		0.650%	0.085	0.067	0.383%	0.002	0.005	0.030	0.030
%RSD		0.686	13.860	10.180	0.412	43.480	58.510	70.600	111.600
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:09:26	93.878%	1.091	-0.036	-0.026	0.064	0.100	97.263%	97.420%
2	19:10:10	95.794%	1.021	-0.032	-0.032	0.085	0.082	99.509%	99.802%
3	19:10:52	95.279%	1.027	-0.042	-0.025	0.103	0.104	98.256%	100.094%
X		94.983%	1.046	-0.037	-0.028	0.084	0.095	98.343%	99.105%
σ		0.992%	0.039	0.005	0.004	0.019	0.012	1.125%	1.467%
%RSD		1.044	3.696	13.450	12.750	23.000	12.140	1.144	1.480
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:09:26	0.003	0.002	0.069	0.075	0.074	100.214%		
2	19:10:10	-0.000	-0.003	0.051	0.074	0.061	100.975%		
3	19:10:52	-0.008	-0.006	0.063	0.058	0.061	100.731%		
X		-0.002	-0.002	0.061	0.069	0.065	100.640%		
σ		0.006	0.004	0.009	0.009	0.008	0.388%		
%RSD		267.300	187.700	15.400	13.720	11.610	0.386		

240-17796-F-25-A 12/23/2012 7:13:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	87.376%	4.882	24.740	25.350	0.000	562.600	23970.000	24500.000
2	19:14:26	84.396%	4.696	25.600	25.430	0.000	548.600	24120.000	25060.000
3	19:15:10	82.316%	5.075	26.840	26.330	0.000	574.200	25230.000	25900.000
X		84.696%	4.884	25.730	25.710	0.000	561.800	24440.000	25160.000
σ		2.543%	0.190	1.059	0.546	0.000	12.790	691.100	701.300
%RSD		3.003	3.879	4.117	2.123	0.000	2.277	2.827	2.788
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	97380.000	2163.000	0.000	15340.000	17760.000	17680.000	97.532%	509.500
2	19:14:26	99020.000	2161.000	0.000	15290.000	17710.000	17120.000	90.580%	514.300
3	19:15:10	102300.000	2238.000	0.000	15660.000	17970.000	16820.000	86.673%	534.900
X		99580.000	2187.000	0.000	15430.000	17810.000	17210.000	91.595%	519.600
σ		2529.000	43.820	0.000	203.300	138.700	433.100	5.500%	13.490
%RSD		2.540	2.004	0.000	1.318	0.778	2.517	6.005	2.596
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	175.300	178.100	3110.000	242600.000	249300.000	94.790	218.800	165.300
2	19:14:26	180.100	181.200	3163.000	248000.000	253300.000	94.730	218.900	167.700
3	19:15:10	183.900	187.600	3265.000	251900.000	260300.000	99.440	228.000	173.000
X		179.800	182.300	3179.000	247500.000	254300.000	96.320	221.900	168.700
σ		4.314	4.850	79.150	4681.000	5577.000	2.704	5.261	3.946
%RSD		2.400	2.661	2.490	1.891	2.193	2.807	2.371	2.340
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	165.300	551.300	555.400	142.300	3.181	5.710	0.000	85.040
2	19:14:26	167.500	562.500	571.600	145.800	2.689	6.564	0.000	87.610
3	19:15:10	172.400	578.900	584.300	147.300	3.139	6.069	0.000	89.880
X		168.400	564.200	570.400	145.100	3.003	6.114	0.000	87.510
σ		3.633	13.860	14.500	2.523	0.273	0.429	0.000	2.421
%RSD		2.157	2.457	2.543	1.739	9.086	7.017	0.000	2.766
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	0.000	11.410	11.500	86.283%	0.331	0.253	1.935	1.535
2	19:14:26	0.000	11.550	11.440	81.661%	0.333	0.284	2.009	1.492
3	19:15:10	0.000	11.770	12.000	78.923%	0.368	0.254	2.235	1.730
X		0.000	11.580	11.650	82.289%	0.344	0.264	2.059	1.586
σ		0.000	0.182	0.310	3.720%	0.021	0.017	0.156	0.127
%RSD		0.000	1.573	2.661	4.520	6.035	6.626	7.589	8.015
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:43	90.666%	12.740	1.753	1.749	524.800	530.600	95.944%	94.998%
2	19:14:26	87.129%	12.130	1.654	1.647	533.000	535.300	93.443%	92.545%
3	19:15:10	83.995%	11.850	1.658	1.676	548.300	548.400	90.948%	89.955%
X		87.263%	12.240	1.688	1.691	535.300	538.100	93.445%	92.499%
σ		3.337%	0.456	0.056	0.053	11.920	9.196	2.498%	2.522%
%RSD		3.825	3.723	3.327	3.114	2.226	1.709	2.673	2.726
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:13:43	1.266	1.185	159.000	158.500	158.500	80.052%		
2	19:14:26	1.228	1.202	163.100	160.500	161.600	78.302%		
3	19:15:10	1.275	1.258	166.300	164.100	165.100	76.661%		
X		1.257	1.215	162.800	161.000	161.700	78.339%		
σ		0.025	0.038	3.655	2.864	3.313	1.696%		
%RSD		1.966	3.114	2.245	1.779	2.048	2.165		

MB 180-59173/1-A 12/23/2012 7:20:54 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	104.631%	-0.010	0.055	0.130	0.000	4.442	5.674	5.064	
2	19:22:20	101.656%	-0.018	0.138	0.184	0.000	4.393	5.222	5.598	
3	19:23:03	96.115%	-0.010	0.048	0.192	0.000	4.026	5.914	5.494	
X		100.801%	-0.013	0.080	0.169	0.000	4.287	5.603	5.385	
		σ	4.322%	0.004	0.050	0.034	0.000	0.227	0.351	0.283
		%RSD	4.288	33.530	62.780	20.180	0.000	5.302	6.273	5.255
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	6.182	0.087	0.000	-3.311	21.190	14.750	112.183%	0.009	
2	19:22:20	7.434	0.292	0.000	-3.313	17.870	14.730	108.173%	0.012	
3	19:23:03	8.368	0.309	0.000	-2.202	11.720	16.120	105.857%	0.006	
X		7.328	0.229	0.000	-2.942	16.930	15.200	108.738%	0.009	
		σ	1.097	0.124	0.000	0.641	4.802	0.797	3.201%	0.003
		%RSD	14.970	53.890	0.000	21.780	28.370	5.245	2.944	36.350
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	-0.016	0.108	0.189	23.240	30.900	-0.012	0.027	0.189	
2	19:22:20	0.083	0.100	0.219	20.650	27.310	-0.007	0.012	0.187	
3	19:23:03	-0.017	0.062	0.254	19.080	24.500	-0.014	0.026	0.195	
X		0.017	0.090	0.221	20.990	27.570	-0.011	0.022	0.190	
		σ	0.057	0.025	0.033	2.098	3.210	0.004	0.009	0.004
		%RSD	342.500	27.480	14.750	9.993	11.640	34.290	39.940	2.270
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	0.206	0.257	0.300	-0.018	-0.310	-0.109	0.000	0.046	
2	19:22:20	0.190	0.332	0.547	-0.205	-0.288	-0.637	0.000	0.041	
3	19:23:03	0.168	0.320	0.289	0.035	-0.427	-0.033	0.000	0.049	
X		0.188	0.303	0.378	-0.063	-0.342	-0.260	0.000	0.045	
		σ	0.019	0.040	0.146	0.126	0.075	0.329	0.000	0.004
		%RSD	10.050	13.210	38.540	201.100	21.900	126.600	0.000	8.273
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	98.140%	0.219	0.231	95.563%	-0.007	-0.006	-0.018	-0.026	
2	19:22:20	97.607%	0.200	0.181	94.556%	-0.009	-0.007	-0.061	-0.052	
3	19:23:03	97.244%	0.174	0.193	94.309%	-0.009	0.001	-0.120	-0.068	
X		97.664%	0.198	0.201	94.809%	-0.008	-0.004	-0.066	-0.049	
		σ	0.451%	0.022	0.026	0.665%	0.001	0.005	0.051	0.021
		%RSD	0.462	11.230	12.940	0.701	12.590	116.700	77.380	44.140
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	19:21:37	95.475%	1.295	-0.063	-0.051	0.071	0.102	94.949%	95.074%	
2	19:22:20	96.094%	0.978	-0.058	-0.047	0.096	0.123	96.788%	97.051%	
3	19:23:03	94.944%	0.968	-0.065	-0.056	0.111	0.092	96.610%	96.314%	
X		95.504%	1.081	-0.062	-0.051	0.093	0.106	96.116%	96.146%	
		σ	0.576%	0.186	0.004	0.004	0.020	0.016	1.014%	0.999%
		%RSD	0.603	17.210	6.081	8.507	21.670	15.320	1.055	1.039
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi			
		ppb	ppb	ppb	ppb	ppb	ppb			
1	19:21:37	-0.013	-0.011	0.047	0.058	0.057	93.825%			
2	19:22:20	-0.011	-0.011	0.051	0.047	0.048	95.003%			
3	19:23:03	-0.012	-0.011	0.046	0.047	0.047	95.305%			
X		-0.012	-0.011	0.048	0.051	0.051	94.711%			
		σ	0.001	0.000	0.003	0.006	0.005	0.782%		
		%RSD	5.931	2.892	5.830	12.140	10.020	0.826		

LCS 180-59173/2-A 12/23/2012 7:25:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	92.773%	845.600	82.420	84.270	0.000	8769.000	8417.000	8658.000
2	19:26:37	91.479%	825.700	82.110	85.380	0.000	8654.000	8414.000	8613.000
3	19:27:20	91.601%	832.800	82.010	82.150	0.000	8461.000	8306.000	8628.000
X		91.951%	834.700	82.180	83.930	0.000	8628.000	8379.000	8633.000
σ		0.715%	10.090	0.212	1.639	0.000	155.300	63.100	23.030
%RSD		0.777	1.208	0.258	1.953	0.000	1.800	0.753	0.267
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	8640.000	24.180	0.000	8264.000	9374.000	8864.000	95.895%	91.870
2	19:26:37	8576.000	24.360	0.000	8239.000	9197.000	8725.000	93.334%	90.740
3	19:27:20	8599.000	24.630	0.000	8129.000	9049.000	8729.000	92.391%	87.670
X		8605.000	24.390	0.000	8211.000	9207.000	8772.000	93.873%	90.100
σ		32.050	0.225	0.000	71.720	163.000	79.090	1.813%	2.173
%RSD		0.373	0.921	0.000	0.874	1.770	0.902	1.932	2.411
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	877.900	895.400	908.900	9093.000	8921.000	891.300	886.500	910.100
2	19:26:37	871.000	894.400	899.200	9077.000	8912.000	885.100	881.300	892.900
3	19:27:20	864.800	886.600	904.900	8982.000	8814.000	873.300	877.100	900.100
X		871.200	892.100	904.300	9051.000	8882.000	883.200	881.600	901.000
σ		6.512	4.815	4.911	60.260	59.630	9.131	4.698	8.660
%RSD		0.747	0.540	0.543	0.666	0.671	1.034	0.533	0.961
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	898.500	848.100	848.600	828.500	808.500	816.600	0.000	871.500
2	19:26:37	894.200	851.600	849.400	825.800	801.300	811.700	0.000	863.700
3	19:27:20	881.400	850.800	853.500	824.400	793.000	798.700	0.000	859.100
X		891.400	850.100	850.500	826.300	800.900	809.000	0.000	864.700
σ		8.891	1.846	2.633	2.096	7.785	9.294	0.000	6.260
%RSD		0.997	0.217	0.310	0.254	0.972	1.149	0.000	0.724
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	88.029%	87.200	86.610	89.639%	88.500	89.240	839.900	857.200
2	19:26:37	88.861%	87.190	86.920	90.793%	87.380	89.090	835.500	847.900
3	19:27:20	89.429%	87.710	86.820	90.223%	87.810	88.450	831.600	846.100
X		88.773%	87.370	86.780	90.218%	87.890	88.920	835.700	850.400
σ		0.704%	0.295	0.161	0.577%	0.567	0.420	4.169	5.933
%RSD		0.793	0.338	0.186	0.640	0.645	0.473	0.499	0.698
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:54	88.952%	96.200	83.040	83.010	847.100	846.600	89.609%	89.858%
2	19:26:37	90.318%	96.310	82.910	83.120	832.600	834.400	92.327%	92.483%
3	19:27:20	91.190%	96.090	82.270	82.360	828.700	832.900	92.838%	93.038%
X		90.153%	96.200	82.740	82.830	836.200	838.000	91.591%	91.793%
σ		1.128%	0.112	0.412	0.411	9.710	7.529	1.736%	1.698%
%RSD		1.251	0.116	0.498	0.496	1.161	0.898	1.895	1.850
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:25:54	214.400	215.600	859.800	907.500	883.900	81.310%		
2	19:26:37	212.200	211.500	840.800	883.300	861.500	85.043%		
3	19:27:20	210.000	210.700	839.300	885.100	859.200	85.789%		
X		212.200	212.600	846.600	892.000	868.200	84.047%		
σ		2.181	2.599	11.480	13.470	13.640	2.399%		
%RSD		1.028	1.223	1.355	1.510	1.571	2.855		

240-18297-Q-9-A 12/23/2012 7:32:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	93.094%	6.184	58.730	58.690	0.000	816.200	56020.000	57140.000
2	19:33:48	91.371%	6.355	60.540	61.020	0.000	831.700	56980.000	58620.000
3	19:34:31	90.446%	6.474	60.920	61.410	0.000	825.100	57750.000	59430.000
X		91.637%	6.338	60.060	60.370	0.000	824.400	56920.000	58400.000
σ		1.344%	0.146	1.170	1.468	0.000	7.765	862.600	1158.000
%RSD		1.467	2.297	1.948	2.432	0.000	0.942	1.516	1.984
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	118700.000	2350.000	0.000	18230.000	26960.000	27770.000	104.758%	390.100
2	19:33:48	120800.000	2397.000	0.000	18680.000	27530.000	28000.000	103.817%	398.400
3	19:34:31	122200.000	2365.000	0.000	18810.000	28460.000	28890.000	101.242%	411.000
X		120500.000	2371.000	0.000	18580.000	27650.000	28220.000	103.272%	399.800
σ		1742.000	23.980	0.000	304.700	754.100	589.200	1.820%	10.540
%RSD		1.445	1.011	0.000	1.640	2.727	2.088	1.762	2.637
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	162.000	175.900	1849.000	269700.000	277200.000	110.300	279.600	155.900
2	19:33:48	164.700	177.300	1870.000	272400.000	281500.000	111.800	284.300	158.300
3	19:34:31	169.300	183.000	1922.000	277500.000	285700.000	113.300	287.800	159.400
X		165.300	178.700	1881.000	273200.000	281400.000	111.800	283.900	157.900
σ		3.713	3.782	37.620	3983.000	4277.000	1.483	4.075	1.827
%RSD		2.245	2.116	2.000	1.458	1.520	1.326	1.435	1.157
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	154.500	560.300	569.400	129.400	3.243	8.595	0.000	171.800
2	19:33:48	157.900	570.000	575.200	131.100	2.650	8.662	0.000	175.800
3	19:34:31	158.700	577.600	589.200	134.800	2.599	9.040	0.000	179.400
X		157.000	569.300	577.900	131.800	2.831	8.766	0.000	175.700
σ		2.222	8.699	10.190	2.747	0.358	0.240	0.000	3.780
%RSD		1.415	1.528	1.763	2.085	12.650	2.738	0.000	2.151
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	0.000	10.730	10.840	88.427%	0.293	0.204	1.466	1.035
2	19:33:48	0.000	10.800	10.770	89.863%	0.321	0.217	1.361	0.940
3	19:34:31	0.000	11.010	11.100	87.719%	0.333	0.194	1.537	1.071
X		0.000	10.840	10.900	88.670%	0.316	0.205	1.454	1.015
σ		0.000	0.150	0.173	1.093%	0.020	0.012	0.088	0.067
%RSD		0.000	1.381	1.589	1.232	6.437	5.635	6.080	6.644
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:33:05	92.703%	9.116	0.716	0.814	343.100	342.400	95.738%	93.128%
2	19:33:48	93.927%	9.259	0.764	0.811	346.600	345.300	97.373%	95.435%
3	19:34:31	93.043%	9.442	0.711	0.790	351.800	350.000	97.212%	94.790%
X		93.224%	9.273	0.731	0.805	347.200	345.900	96.774%	94.451%
σ		0.632%	0.163	0.029	0.013	4.427	3.817	0.901%	1.191%
%RSD		0.678	1.761	3.954	1.572	1.275	1.103	0.931	1.260
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:33:05	1.647	1.701	101.900	100.200	101.300	78.601%		
2	19:33:48	1.678	1.682	102.700	101.400	102.600	80.171%		
3	19:34:31	1.701	1.739	106.600	104.700	106.000	78.848%		
X		1.675	1.708	103.700	102.100	103.300	79.207%		
σ		0.027	0.029	2.498	2.323	2.425	0.844%		
%RSD		1.595	1.703	2.407	2.275	2.347	1.065		

240-18297-Q-9-A SD@5

12/23/2012 7:36:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	101.046%	1.205	12.360	12.780	0.000	155.200	10890.000	11250.000
2	19:38:06	97.910%	1.267	13.120	12.870	0.000	153.500	10900.000	11280.000
3	19:38:49	93.898%	1.270	12.870	13.490	0.000	159.700	11240.000	11680.000
X		97.618%	1.247	12.780	13.050	0.000	156.100	11010.000	11400.000
σ		3.583%	0.036	0.389	0.385	0.000	3.226	201.600	238.900
%RSD		3.670	2.921	3.039	2.952	0.000	2.066	1.831	2.095
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	23490.000	456.200	0.000	3656.000	5406.000	5309.000	106.938%	77.570
2	19:38:06	23570.000	449.900	0.000	3614.000	5463.000	5408.000	102.166%	77.130
3	19:38:49	24370.000	462.200	0.000	3735.000	5634.000	5431.000	98.759%	80.590
X		23810.000	456.100	0.000	3668.000	5501.000	5382.000	102.621%	78.430
σ		485.800	6.146	0.000	61.300	118.800	64.710	4.108%	1.884
%RSD		2.040	1.347	0.000	1.671	2.159	1.202	4.004	2.402
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	31.850	34.200	363.500	55540.000	54650.000	21.240	54.950	30.890
2	19:38:06	31.920	35.080	364.800	55780.000	54720.000	21.190	55.290	31.740
3	19:38:49	32.120	35.080	368.700	56920.000	55610.000	21.570	56.230	31.560
X		31.960	34.790	365.700	56080.000	54990.000	21.330	55.490	31.400
σ		0.141	0.510	2.732	735.800	536.000	0.207	0.665	0.452
%RSD		0.440	1.467	0.747	1.312	0.975	0.970	1.199	1.438
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	30.740	119.500	119.500	26.020	0.261	2.347	0.000	29.830
2	19:38:06	31.130	119.300	120.300	26.090	0.119	1.975	0.000	29.920
3	19:38:49	31.260	123.300	123.700	26.960	0.175	2.531	0.000	30.430
X		31.040	120.700	121.200	26.350	0.185	2.285	0.000	30.060
σ		0.270	2.226	2.241	0.524	0.072	0.283	0.000	0.326
%RSD		0.871	1.844	1.849	1.990	38.760	12.390	0.000	1.084
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	109.744%	1.876	2.070	96.434%	0.045	0.031	0.321	0.223
2	19:38:06	108.856%	1.981	2.031	95.239%	0.058	0.029	0.284	0.228
3	19:38:49	106.123%	1.880	2.057	93.605%	0.048	0.032	0.274	0.188
X		108.241%	1.912	2.053	95.093%	0.050	0.030	0.293	0.213
σ		1.887%	0.059	0.020	1.420%	0.007	0.001	0.025	0.022
%RSD		1.743	3.107	0.969	1.493	13.470	4.713	8.387	10.410
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:37:23	98.313%	1.389	0.145	0.143	68.490	68.010	97.720%	97.743%
2	19:38:06	97.482%	1.469	0.107	0.147	67.700	68.720	99.270%	98.816%
3	19:38:49	96.737%	1.502	0.102	0.114	67.500	69.060	98.401%	98.187%
X		97.511%	1.454	0.118	0.135	67.900	68.600	98.464%	98.249%
σ		0.788%	0.058	0.023	0.018	0.525	0.536	0.777%	0.539%
%RSD		0.809	4.007	19.830	13.510	0.773	0.781	0.789	0.549
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:37:23	0.394	0.382	19.500	19.100	19.200	90.448%		
2	19:38:06	0.395	0.389	19.780	19.490	19.560	91.557%		
3	19:38:49	0.367	0.374	19.750	19.460	19.680	91.796%		
X		0.385	0.382	19.680	19.350	19.480	91.267%		
σ		0.016	0.007	0.155	0.217	0.249	0.720%		
%RSD		4.044	1.927	0.787	1.119	1.278	0.788		

240-18297-Q-9-B DU 12/23/2012 7:40:59 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	89.623%	6.321	56.930	57.460	0.000	829.900	57110.000	59420.000
2	19:42:25	84.776%	6.372	55.900	57.690	0.000	828.900	57570.000	59060.000
3	19:43:07	86.713%	6.309	58.640	57.050	0.000	822.100	55540.000	57650.000
x		87.037%	6.334	57.160	57.400	0.000	826.900	56740.000	58710.000
σ		2.440%	0.033	1.387	0.326	0.000	4.263	1063.000	935.500
%RSD		2.803	0.528	2.426	0.568	0.000	0.515	1.874	1.593
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	119000.000	2121.000	0.000	17740.000	38180.000	39070.000	99.312%	441.200
2	19:42:25	118100.000	2097.000	0.000	17170.000	37030.000	37460.000	96.859%	428.200
3	19:43:07	116300.000	2073.000	0.000	17360.000	37810.000	37890.000	95.948%	431.200
x		117800.000	2097.000	0.000	17420.000	37670.000	38140.000	97.373%	433.500
σ		1404.000	23.970	0.000	287.600	584.500	830.800	1.740%	6.795
%RSD		1.192	1.143	0.000	1.650	1.551	2.178	1.787	1.567
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	166.500	178.400	2119.000	283000.000	293700.000	121.800	290.100	159.000
2	19:42:25	164.500	174.800	2071.000	277400.000	285400.000	118.500	280.500	154.400
3	19:43:07	166.900	175.700	2068.000	279000.000	289300.000	118.500	281.600	156.700
x		166.000	176.300	2086.000	279800.000	289500.000	119.600	284.100	156.700
σ		1.308	1.880	28.350	2889.000	4147.000	1.872	5.291	2.277
%RSD		0.788	1.066	1.359	1.033	1.433	1.566	1.863	1.453
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	157.600	563.900	569.600	152.600	3.062	10.340	0.000	197.900
2	19:42:25	154.200	562.600	567.500	148.300	2.719	9.606	0.000	195.200
3	19:43:07	156.500	565.000	567.700	150.500	2.660	9.777	0.000	196.600
x		156.100	563.800	568.300	150.400	2.814	9.907	0.000	196.600
σ		1.756	1.207	1.169	2.173	0.217	0.382	0.000	1.348
%RSD		1.124	0.214	0.206	1.445	7.715	3.858	0.000	0.686
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	0.000	11.940	11.890	83.806%	0.378	0.212	1.824	1.252
2	19:42:25	0.000	11.480	11.620	83.763%	0.366	0.199	1.926	1.315
3	19:43:07	0.000	12.010	11.880	83.210%	0.365	0.208	1.883	1.319
x		0.000	11.810	11.800	83.593%	0.370	0.206	1.878	1.295
σ		0.000	0.287	0.155	0.332%	0.008	0.006	0.051	0.038
%RSD		0.000	2.431	1.318	0.397	2.043	3.112	2.716	2.909
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:41:42	88.087%	9.588	0.736	0.760	367.300	364.300	97.236%	92.141%
2	19:42:25	88.871%	9.223	0.697	0.709	356.300	359.100	98.454%	94.716%
3	19:43:07	88.563%	9.289	0.700	0.682	359.900	357.500	98.706%	94.852%
x		88.507%	9.367	0.711	0.717	361.200	360.300	98.132%	93.903%
σ		0.395%	0.195	0.021	0.039	5.599	3.538	0.786%	1.527%
%RSD		0.446	2.079	2.976	5.500	1.550	0.982	0.801	1.627
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:41:42	1.603	1.568	114.900	113.400	114.400	75.611%		
2	19:42:25	1.566	1.540	113.100	111.700	112.300	77.782%		
3	19:43:07	1.597	1.557	113.800	111.800	113.000	77.206%		
x		1.589	1.555	113.900	112.300	113.200	76.866%		
σ		0.020	0.014	0.929	0.952	1.062	1.125%		
%RSD		1.270	0.899	0.815	0.848	0.938	1.463		



240-18297-Q-9-C MS 12/23/2012 7:45:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	94.917%	85.140	126.000	128.700	0.000	9209.000	63770.000	65640.000
2	19:46:43	94.305%	86.010	129.900	130.800	0.000	9313.000	64170.000	65530.000
3	19:47:26	94.281%	84.750	128.800	130.200	0.000	9203.000	62920.000	65750.000
X		94.501%	85.300	128.200	129.900	0.000	9241.000	63620.000	65640.000
σ		0.360%	0.645	1.982	1.091	0.000	61.690	636.400	109.600
%RSD		0.381	0.756	1.545	0.840	0.000	0.667	1.000	0.167
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	121900.000	3033.000	0.000	24170.000	57010.000	58510.000	104.061%	564.500
2	19:46:43	120300.000	3059.000	0.000	24310.000	58100.000	57850.000	103.667%	561.400
3	19:47:26	120600.000	3029.000	0.000	23840.000	56700.000	57590.000	103.744%	558.200
X		120900.000	3041.000	0.000	24100.000	57270.000	57980.000	103.824%	561.400
σ		829.800	16.340	0.000	241.400	735.600	472.300	0.209%	3.159
%RSD		0.686	0.537	0.000	1.002	1.284	0.815	0.201	0.563
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	250.700	255.800	2552.000	264600.000	273700.000	196.800	350.700	236.500
2	19:46:43	253.500	257.500	2600.000	268300.000	278700.000	202.300	354.600	239.100
3	19:47:26	249.800	254.400	2577.000	264700.000	276200.000	198.100	354.300	236.800
X		251.300	255.900	2577.000	265900.000	276200.000	199.100	353.200	237.500
σ		1.925	1.554	24.010	2085.000	2507.000	2.854	2.196	1.398
%RSD		0.766	0.607	0.932	0.784	0.908	1.434	0.622	0.589
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	238.300	597.200	600.900	209.200	68.650	77.620	0.000	290.700
2	19:46:43	240.900	600.800	606.400	208.600	69.600	75.890	0.000	293.600
3	19:47:26	235.900	594.400	602.700	207.300	69.670	77.120	0.000	291.200
X		238.300	597.500	603.300	208.400	69.310	76.880	0.000	291.800
σ		2.503	3.236	2.792	0.946	0.567	0.889	0.000	1.558
%RSD		1.050	0.542	0.463	0.454	0.818	1.157	0.000	0.534
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	0.000	96.170	96.210	84.473%	84.760	84.140	81.130	80.120
2	19:46:43	0.000	96.060	96.890	86.045%	84.140	83.600	81.070	79.660
3	19:47:26	0.000	96.120	96.320	86.987%	83.440	83.090	80.260	79.360
X		0.000	96.120	96.470	85.835%	84.110	83.610	80.820	79.710
σ		0.000	0.053	0.362	1.270%	0.659	0.521	0.485	0.382
%RSD		0.000	0.055	0.376	1.479	0.783	0.623	0.600	0.480
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:46:00	88.877%	85.110	24.590	24.620	476.800	477.400	91.611%	89.287%
2	19:46:43	91.114%	85.350	24.640	24.480	473.300	472.700	94.316%	91.877%
3	19:47:26	91.937%	84.800	24.610	24.510	467.600	467.400	95.585%	92.786%
X		90.643%	85.090	24.610	24.530	472.600	472.500	93.837%	91.317%
σ		1.583%	0.276	0.026	0.074	4.619	5.020	2.030%	1.815%
%RSD		1.746	0.324	0.104	0.302	0.977	1.062	2.164	1.988
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:46:00	87.800	88.170	198.600	201.000	200.200	72.892%		
2	19:46:43	87.500	87.880	195.600	199.300	197.600	75.331%		
3	19:47:26	87.170	87.330	195.100	197.500	196.800	76.167%		
X		87.490	87.790	196.500	199.300	198.200	74.797%		
σ		0.314	0.427	1.900	1.740	1.801	1.702%		
%RSD		0.359	0.486	0.967	0.873	0.909	2.275		

240-18297-Q-9-A PDS 12/23/2012 7:49:36 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	90.256%	49.340	927.700	930.700	0.000	44520.000	94130.000	96740.000
2	19:51:02	87.644%	50.000	915.700	929.300	0.000	46390.000	97300.000	100400.000
3	19:51:45	83.896%	51.260	979.800	977.700	0.000	47490.000	98990.000	102400.000
X		87.265%	50.200	941.000	945.900	0.000	46130.000	96810.000	99830.000
σ		3.197%	0.977	34.060	27.530	0.000	1503.000	2471.000	2856.000
%RSD		3.663	1.946	3.619	2.910	0.000	3.259	2.552	2.861
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	114900.000	11240.000	0.000	60300.000	69940.000	72040.000	98.434%	1306.000
2	19:51:02	119500.000	11630.000	0.000	61720.000	71930.000	72450.000	94.974%	1320.000
3	19:51:45	121300.000	11750.000	0.000	63020.000	73350.000	74520.000	93.871%	1326.000
X		118600.000	11540.000	0.000	61680.000	71740.000	73000.000	95.759%	1318.000
σ		3322.000	267.700	0.000	1363.000	1710.000	1330.000	2.381%	10.250
%RSD		2.802	2.320	0.000	2.210	2.384	1.822	2.486	0.778
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	648.200	358.800	2277.000	266900.000	277500.000	580.000	725.600	377.800
2	19:51:02	665.100	371.800	2368.000	274100.000	283300.000	585.600	737.100	388.400
3	19:51:45	662.400	369.200	2364.000	273700.000	284500.000	586.400	738.700	386.000
X		658.600	366.600	2336.000	271600.000	281800.000	584.000	733.800	384.100
σ		9.111	6.867	51.480	4027.000	3753.000	3.454	7.142	5.549
%RSD		1.384	1.873	2.204	1.483	1.332	0.591	0.973	1.445
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	380.000	980.000	986.500	163.800	10.940	17.330	0.000	1154.000
2	19:51:02	388.200	1010.000	1016.000	168.200	11.540	17.800	0.000	1193.000
3	19:51:45	391.000	1011.000	1022.000	167.800	11.010	17.210	0.000	1202.000
X		386.400	1000.000	1008.000	166.600	11.160	17.450	0.000	1183.000
σ		5.733	17.650	18.880	2.407	0.330	0.311	0.000	25.680
%RSD		1.484	1.764	1.873	1.445	2.952	1.785	0.000	2.171
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	0.000	999.300	1009.000	78.573%	46.580	46.630	46.230	41.480
2	19:51:02	0.000	1041.000	1044.000	78.387%	48.300	47.870	47.010	42.960
3	19:51:45	0.000	1048.000	1054.000	77.623%	48.830	48.180	48.540	43.870
X		0.000	1030.000	1035.000	78.195%	47.900	47.560	47.260	42.770
σ		0.000	26.550	23.610	0.503%	1.177	0.821	1.176	1.205
%RSD		0.000	2.578	2.280	0.644	2.456	1.725	2.489	2.817
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:19	84.775%	1825.000	416.900	415.100	2091.000	2089.000	92.376%	90.105%
2	19:51:02	85.041%	1872.000	430.200	429.600	2136.000	2130.000	93.802%	91.384%
3	19:51:45	83.918%	1895.000	435.800	433.900	2151.000	2146.000	94.557%	92.179%
X		84.578%	1864.000	427.600	426.200	2126.000	2122.000	93.578%	91.222%
σ		0.587%	35.910	9.725	9.839	31.100	29.290	1.108%	1.047%
%RSD		0.694	1.927	2.274	2.309	1.463	1.380	1.184	1.147
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:50:19	48.230	48.360	118.100	116.900	117.500	73.452%		
2	19:51:02	48.710	48.860	118.900	117.300	118.900	76.033%		
3	19:51:45	48.860	49.320	120.900	118.800	119.900	76.037%		
X		48.600	48.850	119.300	117.700	118.800	75.174%		
σ		0.332	0.481	1.414	0.980	1.223	1.491%		
%RSD		0.684	0.985	1.185	0.833	1.029	1.983		

240-18297-Q-15-A 12/23/2012 7:56:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	89.193%	8.147	24.410	23.770	0.000	552.800	35880.000	37050.000
2	19:58:14	85.478%	8.300	22.460	23.330	0.000	569.700	36750.000	37510.000
3	19:58:57	84.537%	8.308	22.860	22.470	0.000	562.900	36210.000	37270.000
X		86.403%	8.252	23.250	23.190	0.000	561.800	36280.000	37280.000
σ		2.462%	0.091	1.026	0.659	0.000	8.522	439.100	229.600
%RSD		2.849	1.098	4.415	2.842	0.000	1.517	1.210	0.616
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	80570.000	1461.000	0.000	9608.000	3939.000	3742.000	97.599%	339.400
2	19:58:14	80020.000	1112.000	0.000	9656.000	3953.000	3801.000	91.438%	340.800
3	19:58:57	79260.000	1090.000	0.000	9306.000	3771.000	3722.000	92.503%	338.600
X		79950.000	1221.000	0.000	9523.000	3888.000	3755.000	93.847%	339.600
σ		657.500	208.200	0.000	190.100	101.400	40.850	3.293%	1.122
%RSD		0.822	17.050	0.000	1.996	2.609	1.088	3.509	0.331
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	157.500	165.200	8469.000	344400.000	359500.000	172.600	291.300	289.400
2	19:58:14	163.200	171.300	8617.000	347600.000	365100.000	175.800	293.700	290.600
3	19:58:57	159.000	168.000	8536.000	346000.000	360900.000	173.900	291.700	284.900
X		159.900	168.100	8541.000	346000.000	361900.000	174.100	292.200	288.300
σ		2.964	3.033	74.440	1617.000	2923.000	1.608	1.283	2.983
%RSD		1.854	1.804	0.872	0.467	0.808	0.924	0.439	1.035
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	288.600	649.400	655.200	52.710	3.248	9.176	0.000	56.810
2	19:58:14	288.400	662.900	670.100	53.860	3.402	9.649	0.000	58.420
3	19:58:57	284.800	650.000	660.100	52.460	3.001	10.410	0.000	57.130
X		287.300	654.100	661.800	53.010	3.217	9.746	0.000	57.450
σ		2.171	7.638	7.584	0.749	0.203	0.625	0.000	0.852
%RSD		0.756	1.168	1.146	1.412	6.301	6.410	0.000	1.483
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	0.000	11.590	11.610	77.868%	0.277	0.151	1.907	1.381
2	19:58:14	0.000	11.060	11.100	76.636%	0.302	0.175	1.985	1.400
3	19:58:57	0.000	10.870	11.060	76.736%	0.315	0.167	1.772	1.363
X		0.000	11.170	11.260	77.080%	0.298	0.164	1.888	1.381
σ		0.000	0.373	0.306	0.685%	0.019	0.012	0.108	0.018
%RSD		0.000	3.338	2.716	0.888	6.525	7.378	5.699	1.329
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:57:31	81.492%	13.260	2.040	2.160	517.400	519.300	85.193%	85.201%
2	19:58:14	80.494%	11.410	1.847	1.848	514.800	518.600	86.275%	85.974%
3	19:58:57	81.097%	10.480	1.635	1.685	510.000	513.400	86.420%	86.468%
X		81.028%	11.720	1.841	1.898	514.100	517.100	85.963%	85.881%
σ		0.502%	1.415	0.203	0.241	3.770	3.211	0.670%	0.638%
%RSD		0.620	12.070	11.020	12.710	0.733	0.621	0.780	0.743
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:57:31	1.314	1.337	190.200	189.400	189.800	71.585%		
2	19:58:14	1.324	1.326	190.600	189.700	190.300	72.601%		
3	19:58:57	1.276	1.275	191.000	188.100	189.700	72.649%		
X		1.305	1.313	190.600	189.100	189.900	72.278%		
σ		0.026	0.033	0.422	0.868	0.323	0.601%		
%RSD		1.958	2.546	0.221	0.459	0.170	0.831		

CCV 664806 12/23/2012 8:04:00 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	88.206%	98.900	100.400	102.000	0.000	49430.000	47970.000	49170.000
2	20:05:26	87.130%	98.530	103.400	102.100	0.000	49540.000	48270.000	48920.000
3	20:06:09	87.196%	97.580	100.500	101.300	0.000	48750.000	46480.000	46690.000
X		87.510%	98.336%	101.424%	101.839%	0.000	98.480%	95.148%	96.524%
σ		0.603%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.689	0.689	1.662	0.425	0.000	0.875	2.013	2.831
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	497.700	5175.000	0.000	47840.000	47460.000	49160.000	94.459%	99.820
2	20:05:26	492.300	5126.000	0.000	47480.000	47880.000	49180.000	93.589%	99.830
3	20:06:09	470.400	4967.000	0.000	45810.000	45600.000	47120.000	96.618%	95.930
X		97.358%	101.787%	0.000	94.089%	93.956%	96.976%	94.889%	98.528%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.559%	n/a
%RSD		2.967	2.141	0.000	2.300	2.585	2.437	1.643	2.284
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	95.900	96.760	505.600	24980.000	24810.000	96.060	95.310	95.220
2	20:05:26	96.020	97.250	505.100	25110.000	25040.000	96.740	96.360	96.660
3	20:06:09	91.700	93.110	481.700	24180.000	24110.000	92.620	91.610	92.870
X		94.540%	95.707%	99.496%	99.026%	98.629%	95.142%	94.428%	94.914%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.602	2.366	2.742	2.029	1.961	2.319	2.644	2.015
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	94.990	100.300	99.160	97.270	97.030	102.000	0.000	92.780
2	20:05:26	95.830	99.520	101.300	95.830	99.810	102.400	0.000	92.770
3	20:06:09	92.170	95.930	96.070	93.360	95.940	98.490	0.000	90.430
X		94.329%	98.596%	98.860%	95.486%	97.595%	100.980%	0.000	91.994%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.032	2.375	2.679	2.072	2.044	2.145	0.000	1.473
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	89.742%	94.640	95.510	85.366%	95.230	96.130	98.030	99.450
2	20:05:26	91.523%	96.600	98.010	87.715%	93.790	95.240	98.390	100.000
3	20:06:09	94.536%	94.850	95.620	89.616%	92.850	93.230	94.910	96.400
X		91.934%	95.364%	96.378%	87.566%	93.956%	94.865%	97.109%	98.619%
σ		2.423%	n/a	n/a	2.129%	n/a	n/a	n/a	n/a
%RSD		2.636	1.126	1.467	2.431	1.278	1.564	1.974	1.973
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:04:43	84.955%	97.190	96.940	97.670	94.610	96.120	82.845%	83.141%
2	20:05:26	87.097%	97.180	97.900	97.670	95.060	96.220	85.432%	85.611%
3	20:06:09	89.318%	95.450	95.880	95.860	93.580	93.230	88.829%	88.283%
X		87.123%	96.604%	96.904%	97.069%	94.418%	95.190%	85.702%	85.678%
σ		2.182%	n/a	n/a	n/a	n/a	n/a	3.001%	2.571%
%RSD		2.504	1.037	1.042	1.076	0.808	1.781	3.502	3.001
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:04:43	95.940	96.120	96.570	96.100	96.240	77.977%		
2	20:05:26	96.370	96.250	96.640	96.410	96.570	80.218%		
3	20:06:09	93.620	93.460	94.300	94.120	93.920	83.015%		
X		95.310%	95.276%	95.837%	95.545%	95.576%	80.403%		
σ		n/a	n/a	n/a	n/a	n/a	2.524%		
%RSD		1.550	1.652	1.393	1.303	1.509	3.140		

CCB2 12/23/2012 8:11:56 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	105.007%	-0.002	1.403	1.478	0.000	1.193	1.940	1.753
2	20:13:22	103.221%	0.007	1.384	1.366	0.000	1.736	3.025	2.965
3	20:14:05	100.475%	-0.019	1.266	1.302	0.000	3.857	5.802	5.879
X		102.901%	-0.005	1.351	1.382	0.000	2.262	3.589	3.532
σ		2.283%	0.013	0.075	0.089	0.000	1.408	1.992	2.121
%RSD		2.219	287.600	5.519	6.438	0.000	62.230	55.490	60.040
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	1.903	-2.260	0.000	-6.830	28.770	27.650	112.404%	-0.059
2	20:13:22	2.482	-2.255	0.000	-7.415	35.180	29.240	110.227%	-0.106
3	20:14:05	3.889	-0.469	0.000	-6.646	35.480	29.460	109.807%	-0.077
X		2.758	-1.661	0.000	-6.964	33.140	28.790	110.813%	-0.081
σ		1.021	1.033	0.000	0.402	3.792	0.987	1.394%	0.024
%RSD		37.020	62.170	0.000	5.773	11.440	3.427	1.258	29.350
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	-0.013	-0.035	0.380	-2.431	11.660	-0.009	-0.032	-0.027
2	20:13:22	0.018	-0.042	0.375	-5.141	10.520	-0.005	-0.010	-0.028
3	20:14:05	0.006	-0.036	0.471	-1.782	13.040	0.003	0.004	-0.013
X		0.004	-0.038	0.409	-3.118	11.740	-0.004	-0.013	-0.023
σ		0.016	0.004	0.054	1.782	1.262	0.006	0.018	0.009
%RSD		424.700	9.857	13.240	57.160	10.750	167.400	142.100	38.760
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	-0.042	-0.342	-0.358	0.106	-0.584	0.376	0.000	0.017
2	20:13:22	-0.026	-0.202	-0.304	0.111	-0.698	0.310	0.000	0.023
3	20:14:05	-0.044	-0.216	-0.350	0.363	-0.764	1.205	0.000	0.029
X		-0.037	-0.253	-0.337	0.193	-0.682	0.630	0.000	0.023
σ		0.009	0.077	0.029	0.147	0.091	0.499	0.000	0.006
%RSD		25.260	30.560	8.608	75.980	13.310	79.220	0.000	27.430
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	110.202%	0.239	0.319	95.700%	-0.003	-0.004	0.012	0.028
2	20:13:22	110.669%	0.242	0.276	95.068%	-0.009	-0.008	0.004	0.005
3	20:14:05	110.266%	0.189	0.250	94.851%	0.002	0.005	-0.019	0.003
X		110.379%	0.224	0.282	95.207%	-0.003	-0.002	-0.001	0.012
σ		0.253%	0.030	0.035	0.441%	0.006	0.006	0.017	0.014
%RSD		0.229	13.580	12.360	0.463	170.600	264.800	1794.000	114.900
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:12:39	94.131%	-0.177	-0.004	-0.014	0.028	0.052	94.685%	94.557%
2	20:13:22	94.865%	-0.154	-0.011	-0.016	0.064	0.038	95.398%	96.057%
3	20:14:05	95.698%	-0.104	0.005	-0.004	0.027	0.060	96.877%	97.044%
X		94.898%	-0.145	-0.003	-0.011	0.040	0.050	95.653%	95.886%
σ		0.784%	0.037	0.008	0.007	0.021	0.011	1.118%	1.252%
%RSD		0.826	25.730	271.400	56.960	54.110	22.460	1.169	1.306
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:12:39	0.023	0.019	0.056	0.069	0.063	97.563%		
2	20:13:22	0.025	0.030	0.053	0.058	0.055	97.891%		
3	20:14:05	0.035	0.027	0.056	0.068	0.064	99.034%		
X		0.028	0.025	0.055	0.065	0.061	98.163%		
σ		0.006	0.006	0.002	0.006	0.004	0.772%		
%RSD		23.210	21.910	2.814	9.400	7.373	0.786		

240-18297-Q-15-A SD@5 12/23/2012 8:16:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	98.158%	1.702	4.715	4.922	0.000	512.000	7449.000	7617.000
2	20:17:43	93.869%	1.703	4.382	4.538	0.000	482.100	7165.000	7402.000
3	20:18:26	90.356%	1.670	4.441	4.684	0.000	505.400	7494.000	7771.000
X		94.128%	1.691	4.513	4.715	0.000	499.800	7369.000	7596.000
σ		3.908%	0.019	0.177	0.194	0.000	15.710	178.500	185.000
%RSD		4.151	1.122	3.933	4.110	0.000	3.143	2.423	2.436
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	16390.000	299.900	0.000	1990.000	794.400	785.100	104.413%	68.970
2	20:17:43	16060.000	301.700	0.000	1951.000	794.900	764.900	100.364%	70.110
3	20:18:26	16830.000	312.100	0.000	1993.000	825.500	801.000	95.551%	70.270
X		16430.000	304.600	0.000	1978.000	804.900	783.600	100.109%	69.780
σ		384.500	6.570	0.000	23.300	17.800	18.100	4.437%	0.707
%RSD		2.341	2.157	0.000	1.178	2.212	2.310	4.432	1.013
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	32.030	33.890	1721.000	74360.000	73460.000	34.450	58.720	58.240
2	20:17:43	31.570	33.570	1701.000	71930.000	71840.000	33.750	57.550	57.310
3	20:18:26	32.830	34.240	1790.000	75830.000	74510.000	34.650	59.910	59.940
X		32.140	33.900	1737.000	74040.000	73270.000	34.280	58.730	58.500
σ		0.640	0.339	47.020	1968.000	1346.000	0.476	1.180	1.330
%RSD		1.991	0.999	2.706	2.658	1.838	1.388	2.009	2.273
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	57.860	142.900	145.000	10.990	0.356	2.153	0.000	10.050
2	20:17:43	56.550	141.000	142.000	10.780	0.244	2.411	0.000	9.869
3	20:18:26	59.390	147.500	147.300	11.440	0.010	2.214	0.000	10.120
X		57.930	143.800	144.800	11.070	0.203	2.259	0.000	10.010
σ		1.423	3.324	2.647	0.337	0.177	0.135	0.000	0.129
%RSD		2.455	2.312	1.828	3.047	86.830	5.966	0.000	1.293
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	107.439%	2.006	2.022	94.092%	0.043	0.029	0.350	0.263
2	20:17:43	106.583%	1.904	2.005	92.136%	0.038	0.017	0.284	0.234
3	20:18:26	104.033%	2.018	2.020	90.866%	0.050	0.018	0.446	0.324
X		106.019%	1.976	2.016	92.365%	0.043	0.021	0.360	0.274
σ		1.772%	0.063	0.009	1.625%	0.006	0.007	0.082	0.046
%RSD		1.671	3.189	0.449	1.759	13.230	30.750	22.640	16.760
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:17:00	93.123%	1.818	0.274	0.276	106.300	105.600	94.677%	94.591%
2	20:17:43	94.064%	1.483	0.290	0.279	102.800	103.500	96.343%	96.157%
3	20:18:26	91.876%	1.698	0.268	0.269	106.700	105.400	94.344%	95.127%
X		93.021%	1.666	0.277	0.275	105.200	104.800	95.122%	95.292%
σ		1.097%	0.170	0.012	0.005	2.165	1.135	1.071%	0.796%
%RSD		1.180	10.210	4.213	1.901	2.058	1.083	1.126	0.835
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:17:00	0.241	0.236	35.380	34.950	34.990	91.097%		
2	20:17:43	0.236	0.238	35.190	34.600	34.710	92.871%		
3	20:18:26	0.213	0.230	36.260	35.660	35.830	91.721%		
X		0.230	0.235	35.610	35.070	35.170	91.896%		
σ		0.015	0.004	0.572	0.543	0.581	0.900%		
%RSD		6.496	1.739	1.607	1.547	1.652	0.979		

240-18297-Q-15-B DU 12/23/2012 8:20:36 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	86.138%	8.617	21.690	21.890	0.000	619.300	38150.000	39380.000
2	20:22:02	84.028%	8.684	21.850	21.230	0.000	620.100	38170.000	39640.000
3	20:22:45	82.102%	8.604	22.840	22.430	0.000	633.300	38530.000	40150.000
X		84.089%	8.635	22.130	21.850	0.000	624.200	38290.000	39720.000
σ		2.019%	0.043	0.622	0.597	0.000	7.886	213.400	390.600
%RSD		2.401	0.502	2.811	2.733	0.000	1.263	0.557	0.983
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	88400.000	1747.000	0.000	10930.000	4028.000	3964.000	93.705%	341.000
2	20:22:02	88230.000	1736.000	0.000	11130.000	4191.000	4003.000	90.141%	339.700
3	20:22:45	89740.000	1784.000	0.000	11200.000	4198.000	4055.000	90.392%	347.500
X		88790.000	1756.000	0.000	11090.000	4139.000	4007.000	91.413%	342.800
σ		827.400	24.960	0.000	136.400	96.150	45.480	1.989%	4.189
%RSD		0.932	1.422	0.000	1.231	2.323	1.135	2.176	1.222
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	176.400	183.900	7858.000	369300.000	388800.000	159.600	305.300	298.500
2	20:22:02	179.400	183.000	7871.000	370600.000	395100.000	161.600	307.700	299.500
3	20:22:45	177.700	186.100	8002.000	377700.000	396800.000	163.500	310.700	305.500
X		177.800	184.400	7910.000	372600.000	393600.000	161.600	307.900	301.200
σ		1.480	1.613	80.160	4521.000	4219.000	1.914	2.720	3.771
%RSD		0.832	0.875	1.013	1.213	1.072	1.185	0.883	1.252
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	298.500	652.400	656.800	70.770	3.623	9.702	0.000	70.690
2	20:22:02	299.300	661.200	667.500	71.880	3.355	10.240	0.000	71.740
3	20:22:45	304.600	669.900	680.800	73.020	3.264	10.040	0.000	72.180
X		300.800	661.200	668.400	71.890	3.414	9.994	0.000	71.530
σ		3.304	8.709	11.990	1.129	0.187	0.274	0.000	0.763
%RSD		1.099	1.317	1.794	1.570	5.472	2.738	0.000	1.066
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	0.000	12.910	12.730	75.433%	0.341	0.219	2.025	1.437
2	20:22:02	0.000	13.060	13.030	75.224%	0.354	0.218	2.187	1.622
3	20:22:45	0.000	13.410	13.280	74.966%	0.387	0.216	2.095	1.541
X		0.000	13.130	13.010	75.208%	0.361	0.218	2.102	1.534
σ		0.000	0.261	0.274	0.234%	0.024	0.002	0.081	0.093
%RSD		0.000	1.987	2.104	0.311	6.540	0.792	3.866	6.033
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:21:19	79.276%	11.240	1.578	1.605	550.700	550.700	85.240%	84.852%
2	20:22:02	79.928%	10.670	1.599	1.682	556.600	556.600	86.283%	86.137%
3	20:22:45	79.550%	10.700	1.518	1.570	559.500	560.100	85.594%	85.779%
X		79.585%	10.870	1.565	1.619	555.600	555.800	85.706%	85.589%
σ		0.327%	0.325	0.042	0.057	4.484	4.755	0.531%	0.663%
%RSD		0.411	2.988	2.705	3.532	0.807	0.856	0.619	0.775
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:21:19	1.197	1.200	175.600	174.100	175.600	71.402%		
2	20:22:02	1.217	1.184	175.600	174.800	175.400	73.038%		
3	20:22:45	1.178	1.229	181.500	180.400	180.700	71.745%		
X		1.197	1.205	177.600	176.500	177.200	72.062%		
σ		0.019	0.023	3.427	3.465	3.034	0.863%		
%RSD		1.619	1.872	1.930	1.964	1.712	1.197		

240-18297-Q-15-C MS 12/23/2012 8:24:53 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	85.370%	84.650	77.130	79.100	0.000	8780.000	46080.000	47540.000
2	20:26:19	83.821%	86.000	76.900	78.750	0.000	8896.000	45590.000	46710.000
3	20:27:02	81.517%	87.840	77.020	79.420	0.000	8858.000	46030.000	47170.000
X		83.569%	86.170	77.020	79.090	0.000	8844.000	45900.000	47140.000
σ		1.938%	1.600	0.115	0.337	0.000	59.100	271.000	414.100
%RSD		2.320	1.857	0.149	0.426	0.000	0.668	0.590	0.878
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	99020.000	2011.000	0.000	16700.000	12030.000	11710.000	87.032%	367.100
2	20:26:19	98040.000	1939.000	0.000	16420.000	12130.000	11810.000	84.232%	368.600
3	20:27:02	98250.000	1970.000	0.000	16770.000	12280.000	11900.000	83.956%	375.300
X		98440.000	1974.000	0.000	16630.000	12150.000	11810.000	85.073%	370.300
σ		512.200	36.110	0.000	188.000	126.600	94.090	1.702%	4.360
%RSD		0.520	1.829	0.000	1.131	1.042	0.797	2.000	1.177
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	259.300	269.200	8405.000	409600.000	433300.000	263.500	400.000	412.300
2	20:26:19	262.900	271.400	8429.000	412800.000	434000.000	262.000	395.700	406.900
3	20:27:02	268.200	275.100	8521.000	417900.000	440700.000	265.100	404.300	412.100
X		263.500	271.900	8452.000	413500.000	436000.000	263.500	400.000	410.500
σ		4.455	2.983	60.870	4201.000	4061.000	1.560	4.332	3.059
%RSD		1.691	1.097	0.720	1.016	0.931	0.592	1.083	0.745
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	413.200	846.400	851.200	163.100	74.740	82.970	0.000	181.700
2	20:26:19	405.800	841.100	854.400	162.500	74.230	82.090	0.000	181.800
3	20:27:02	410.300	859.800	870.100	165.900	75.450	84.970	0.000	187.000
X		409.800	849.100	858.600	163.900	74.810	83.340	0.000	183.500
σ		3.713	9.615	10.130	1.824	0.616	1.474	0.000	3.020
%RSD		0.906	1.132	1.180	1.113	0.823	1.768	0.000	1.646
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	0.000	100.800	101.300	67.230%	85.930	85.490	83.170	80.820
2	20:26:19	0.000	100.500	101.800	68.679%	85.640	84.300	83.170	80.850
3	20:27:02	0.000	102.500	103.700	68.034%	86.380	85.250	83.130	81.090
X		0.000	101.300	102.200	67.981%	85.980	85.010	83.160	80.920
σ		0.000	1.086	1.302	0.726%	0.375	0.632	0.026	0.147
%RSD		0.000	1.072	1.274	1.068	0.436	0.743	0.031	0.182
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:36	75.749%	81.880	20.000	19.970	593.500	591.400	80.153%	80.095%
2	20:26:19	76.570%	80.450	20.050	20.070	587.200	587.000	82.769%	81.855%
3	20:27:02	77.548%	81.920	19.920	19.930	596.000	591.400	83.207%	83.052%
X		76.622%	81.420	19.990	19.990	592.200	589.900	82.043%	81.667%
σ		0.901%	0.835	0.066	0.072	4.519	2.516	1.651%	1.488%
%RSD		1.175	1.026	0.329	0.361	0.763	0.426	2.013	1.821
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:25:36	81.700	83.160	309.700	310.600	309.800	67.360%		
2	20:26:19	83.050	83.960	310.200	312.600	311.500	68.785%		
3	20:27:02	83.940	84.320	311.300	316.000	313.500	69.434%		
X		82.900	83.810	310.400	313.100	311.600	68.526%		
σ		1.129	0.594	0.854	2.727	1.855	1.061%		
%RSD		1.362	0.709	0.275	0.871	0.595	1.549		



240-18297-Q-15-A PDS 12/23/2012 8:29:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	86.234%	49.830	862.500	852.300	0.000	44470.000	77320.000	79330.000
2	20:30:36	85.156%	51.510	896.600	886.500	0.000	45940.000	79820.000	82100.000
3	20:31:19	84.328%	52.720	911.100	907.700	0.000	45770.000	79140.000	83070.000
X		85.239%	51.350	890.100	882.200	0.000	45390.000	78760.000	81500.000
σ		0.956%	1.453	24.980	27.970	0.000	804.300	1289.000	1938.000
%RSD		1.121	2.829	2.807	3.171	0.000	1.772	1.637	2.378
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	80910.000	10380.000	0.000	51170.000	46280.000	47620.000	93.065%	1241.000
2	20:30:36	83020.000	10710.000	0.000	52740.000	47670.000	48670.000	93.015%	1269.000
3	20:31:19	84620.000	10780.000	0.000	52890.000	48020.000	48390.000	92.173%	1279.000
X		82850.000	10620.000	0.000	52260.000	47320.000	48230.000	92.751%	1263.000
σ		1863.000	212.600	0.000	949.900	924.000	548.400	0.501%	19.830
%RSD		2.249	2.002	0.000	1.818	1.953	1.137	0.540	1.570
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	635.700	350.100	9006.000	347500.000	362400.000	634.800	724.200	507.000
2	20:30:36	641.800	355.500	9213.000	359000.000	375600.000	656.000	747.900	519.000
3	20:31:19	657.100	362.300	9262.000	359900.000	374800.000	655.200	751.200	517.600
X		644.900	356.000	9160.000	355500.000	370900.000	648.600	741.100	514.500
σ		10.990	6.099	135.500	6880.000	7442.000	12.020	14.730	6.561
%RSD		1.704	1.713	1.479	1.935	2.006	1.854	1.988	1.275
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	504.100	1058.000	1068.000	86.630	11.720	18.710	0.000	1033.000
2	20:30:36	519.300	1094.000	1100.000	87.860	12.040	20.640	0.000	1068.000
3	20:31:19	519.500	1096.000	1101.000	88.640	12.150	19.970	0.000	1067.000
X		514.300	1082.000	1090.000	87.710	11.970	19.770	0.000	1056.000
σ		8.880	21.480	18.670	1.015	0.226	0.980	0.000	19.980
%RSD		1.727	1.985	1.713	1.158	1.887	4.957	0.000	1.892
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	0.000	1012.000	1025.000	71.002%	47.020	46.710	47.060	41.970
2	20:30:36	0.000	1060.000	1070.000	72.060%	48.640	47.980	47.990	42.560
3	20:31:19	0.000	1064.000	1069.000	72.952%	48.500	47.960	47.920	41.600
X		0.000	1045.000	1055.000	72.005%	48.060	47.550	47.660	42.040
σ		0.000	29.040	25.880	0.976%	0.895	0.727	0.518	0.484
%RSD		0.000	2.779	2.453	1.356	1.863	1.529	1.088	1.151
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:29:53	75.883%	1903.000	424.700	422.200	2248.000	2262.000	84.243%	83.548%
2	20:30:36	77.299%	1949.000	438.800	437.200	2328.000	2327.000	85.963%	85.832%
3	20:31:19	78.555%	1953.000	440.200	436.000	2323.000	2325.000	87.652%	87.313%
X		77.246%	1935.000	434.600	431.800	2300.000	2305.000	85.953%	85.564%
σ		1.337%	28.050	8.559	8.320	44.600	36.970	1.704%	1.897%
%RSD		1.731	1.450	1.969	1.927	1.939	1.604	1.983	2.217
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:29:53	47.490	47.500	205.200	202.100	204.200	68.873%		
2	20:30:36	48.820	49.180	211.200	208.800	209.500	70.360%		
3	20:31:19	48.580	49.120	211.500	209.300	210.600	71.526%		
X		48.300	48.600	209.300	206.700	208.100	70.253%		
σ		0.708	0.952	3.566	4.052	3.425	1.330%		
%RSD		1.466	1.959	1.704	1.960	1.646	1.893		

240-18297-I-10-A 12/23/2012 8:36:20 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	87.194%	6.402	90.140	90.580	0.000	1042.000	79750.000	82870.000
2	20:37:46	85.895%	6.190	90.550	91.540	0.000	1038.000	79830.000	83630.000
3	20:38:29	81.126%	6.207	88.340	91.620	0.000	1059.000	80980.000	85620.000
X		84.738%	6.267	89.680	91.240	0.000	1046.000	80190.000	84040.000
σ		3.195%	0.118	1.172	0.579	0.000	11.520	687.200	1418.000
%RSD		3.771	1.880	1.307	0.635	0.000	1.101	0.857	1.687
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	125000.000	1747.000	0.000	22370.000	275600.000	285800.000	89.798%	802.700
2	20:37:46	126500.000	1761.000	0.000	22540.000	278200.000	287100.000	87.245%	820.600
3	20:38:29	129800.000	1804.000	0.000	21930.000	274300.000	284700.000	86.494%	810.300
X		127100.000	1770.000	0.000	22280.000	276000.000	285900.000	87.845%	811.200
σ		2467.000	29.820	0.000	312.300	1994.000	1195.000	1.732%	8.960
%RSD		1.941	1.684	0.000	1.402	0.722	0.418	1.972	1.105
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	209.300	199.000	2756.000	262400.000	270800.000	98.270	261.800	172.200
2	20:37:46	214.600	204.300	2839.000	267600.000	279800.000	101.500	266.000	175.600
3	20:38:29	212.800	200.500	2797.000	265100.000	271900.000	97.560	259.900	170.500
X		212.200	201.200	2797.000	265000.000	274200.000	99.120	262.600	172.800
σ		2.695	2.729	41.610	2590.000	4871.000	2.119	3.139	2.615
%RSD		1.270	1.356	1.488	0.978	1.777	2.138	1.195	1.513
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	172.300	528.800	532.500	80.220	2.295	8.808	0.000	587.000
2	20:37:46	175.600	542.600	544.600	81.650	2.266	9.751	0.000	600.900
3	20:38:29	171.500	535.500	538.100	79.960	2.232	9.563	0.000	598.400
X		173.100	535.700	538.400	80.610	2.264	9.374	0.000	595.400
σ		2.142	6.908	6.029	0.911	0.032	0.499	0.000	7.436
%RSD		1.237	1.290	1.120	1.130	1.397	5.322	0.000	1.249
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	0.000	12.330	12.500	72.388%	0.337	0.200	1.882	1.438
2	20:37:46	0.000	12.190	12.310	72.272%	0.359	0.212	1.971	1.495
3	20:38:29	0.000	12.030	12.230	72.645%	0.368	0.221	2.024	1.440
X		0.000	12.190	12.350	72.435%	0.355	0.211	1.959	1.457
σ		0.000	0.152	0.135	0.191%	0.016	0.011	0.072	0.032
%RSD		0.000	1.243	1.091	0.264	4.454	5.127	3.670	2.228
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:37:03	77.629%	13.290	0.958	1.013	901.100	903.400	85.020%	82.930%
2	20:37:46	78.611%	11.860	0.835	0.873	913.700	910.800	86.773%	85.172%
3	20:38:29	79.080%	11.290	0.798	0.840	902.500	903.200	89.171%	87.210%
X		78.440%	12.150	0.864	0.908	905.800	905.800	86.988%	85.104%
σ		0.741%	1.033	0.083	0.092	6.901	4.349	2.084%	2.141%
%RSD		0.944	8.502	9.648	10.080	0.762	0.480	2.396	2.516
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:37:03	1.556	1.560	107.200	105.100	106.000	70.279%		
2	20:37:46	1.581	1.628	109.600	107.100	108.800	71.894%		
3	20:38:29	1.652	1.579	108.300	106.400	107.300	73.604%		
X		1.596	1.589	108.400	106.200	107.400	71.926%		
σ		0.050	0.036	1.159	1.001	1.404	1.663%		
%RSD		3.123	2.238	1.069	0.943	1.307	2.312		

240-18297-J-11-A 12/23/2012 8:40:38 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	91.507%	4.128	44.930	46.100	0.000	698.200	55290.000	57900.000
2	20:42:04	88.348%	4.257	45.810	47.390	0.000	727.700	57820.000	60290.000
3	20:42:47	89.816%	4.362	43.810	44.920	0.000	707.400	56070.000	58410.000
X		89.890%	4.249	44.850	46.140	0.000	711.100	56390.000	58870.000
σ		1.581%	0.117	1.004	1.235	0.000	15.090	1297.000	1258.000
%RSD		1.759	2.759	2.238	2.677	0.000	2.122	2.300	2.137
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	87120.000	1829.000	0.000	12610.000	145800.000	150600.000	91.019%	503.100
2	20:42:04	90010.000	1913.000	0.000	12980.000	149500.000	155300.000	88.672%	513.000
3	20:42:47	87160.000	1854.000	0.000	12640.000	145900.000	151700.000	88.336%	513.300
X		88100.000	1865.000	0.000	12750.000	147000.000	152500.000	89.342%	509.800
σ		1656.000	43.180	0.000	207.600	2095.000	2498.000	1.462%	5.801
%RSD		1.880	2.315	0.000	1.628	1.425	1.637	1.636	1.138
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	139.000	150.700	2203.000	257800.000	262500.000	99.350	222.400	184.200
2	20:42:04	143.800	155.300	2244.000	262600.000	269300.000	102.400	230.000	191.300
3	20:42:47	143.600	152.400	2213.000	260400.000	265200.000	100.800	225.000	187.600
X		142.100	152.800	2220.000	260300.000	265700.000	100.800	225.800	187.700
σ		2.711	2.355	21.000	2394.000	3436.000	1.519	3.897	3.516
%RSD		1.908	1.542	0.946	0.920	1.293	1.507	1.726	1.873
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	185.400	519.500	523.700	169.500	2.177	8.656	0.000	291.200
2	20:42:04	190.900	533.900	542.600	175.700	2.429	8.776	0.000	302.800
3	20:42:47	187.600	528.300	535.400	173.600	2.183	8.835	0.000	298.900
X		188.000	527.300	533.900	172.900	2.263	8.756	0.000	297.600
σ		2.762	7.247	9.549	3.126	0.144	0.091	0.000	5.896
%RSD		1.469	1.374	1.789	1.808	6.360	1.040	0.000	1.981
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	0.000	13.560	13.650	76.423%	0.352	0.191	1.647	1.227
2	20:42:04	0.000	13.930	13.940	75.706%	0.302	0.197	1.705	1.255
3	20:42:47	0.000	13.730	13.780	76.126%	0.314	0.207	1.501	1.118
X		0.000	13.740	13.790	76.085%	0.323	0.198	1.617	1.200
σ		0.000	0.183	0.147	0.360%	0.026	0.008	0.105	0.072
%RSD		0.000	1.330	1.064	0.474	8.082	4.129	6.506	6.043
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:41:21	81.213%	9.905	0.621	0.629	382.400	384.800	89.437%	88.142%
2	20:42:04	81.005%	9.790	0.630	0.589	395.100	394.000	90.347%	88.743%
3	20:42:47	81.995%	9.853	0.626	0.579	387.900	387.800	90.707%	89.718%
X		81.404%	9.849	0.626	0.599	388.500	388.900	90.164%	88.868%
σ		0.522%	0.058	0.005	0.026	6.348	4.729	0.655%	0.796%
%RSD		0.642	0.585	0.724	4.398	1.634	1.216	0.726	0.895
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:41:21	1.040	1.032	114.700	113.500	114.300	75.491%		
2	20:42:04	1.081	1.079	118.100	117.000	117.700	75.748%		
3	20:42:47	1.034	1.069	116.800	115.400	116.200	76.612%		
X		1.052	1.060	116.500	115.300	116.100	75.950%		
σ		0.025	0.025	1.730	1.736	1.705	0.588%		
%RSD		2.405	2.325	1.484	1.506	1.469	0.774		

240-18297-I-12-A 12/23/2012 8:44:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	95.089%	4.583	53.110	52.950	0.000	729.300	53500.000	56050.000
2	20:46:22	93.406%	4.771	53.170	53.870	0.000	732.300	54440.000	56700.000
3	20:47:05	92.630%	4.703	50.150	50.990	0.000	698.300	52720.000	55010.000
X		93.708%	4.686	52.140	52.600	0.000	720.000	53550.000	55920.000
σ		1.257%	0.095	1.724	1.468	0.000	18.870	863.000	851.300
%RSD		1.341	2.029	3.307	2.792	0.000	2.621	1.611	1.522
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	93930.000	2300.000	0.000	14510.000	77030.000	79590.000	96.704%	502.400
2	20:46:22	94050.000	2301.000	0.000	14460.000	75520.000	78470.000	94.419%	510.100
3	20:47:05	91510.000	2263.000	0.000	14270.000	75060.000	76550.000	95.463%	487.400
X		93160.000	2288.000	0.000	14410.000	75870.000	78200.000	95.529%	500.000
σ		1434.000	21.690	0.000	126.200	1029.000	1537.000	1.144%	11.550
%RSD		1.540	0.948	0.000	0.876	1.356	1.965	1.197	2.309
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	150.600	146.000	1807.000	239900.000	245000.000	88.480	231.500	165.600
2	20:46:22	154.000	147.500	1822.000	241300.000	247500.000	90.120	232.300	168.400
3	20:47:05	146.400	142.200	1779.000	237100.000	241800.000	87.930	224.800	160.500
X		150.300	145.200	1803.000	239400.000	244700.000	88.850	229.500	164.800
σ		3.771	2.697	21.600	2127.000	2857.000	1.141	4.140	4.014
%RSD		2.508	1.857	1.198	0.888	1.168	1.284	1.803	2.435
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	168.300	515.600	521.400	120.100	2.563	8.244	0.000	207.400
2	20:46:22	167.400	523.700	529.000	123.000	2.372	8.020	0.000	208.500
3	20:47:05	163.300	505.700	514.000	117.700	2.101	7.585	0.000	204.200
X		166.300	515.000	521.500	120.300	2.345	7.950	0.000	206.700
σ		2.662	9.027	7.521	2.658	0.232	0.335	0.000	2.244
%RSD		1.601	1.753	1.442	2.210	9.891	4.214	0.000	1.085
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	0.000	11.700	11.420	79.203%	0.338	0.192	1.687	1.155
2	20:46:22	0.000	11.670	11.510	80.047%	0.319	0.202	1.482	1.130
3	20:47:05	0.000	11.110	11.150	80.982%	0.332	0.176	1.548	1.090
X		0.000	11.490	11.360	80.078%	0.330	0.190	1.572	1.125
σ		0.000	0.332	0.187	0.890%	0.009	0.013	0.105	0.033
%RSD		0.000	2.888	1.647	1.111	2.837	7.098	6.661	2.908
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	83.831%	10.480	0.723	0.708	349.400	346.500	91.569%	89.272%
2	20:46:22	84.332%	10.440	0.753	0.765	351.600	352.100	93.038%	91.391%
3	20:47:05	85.186%	10.130	0.714	0.703	340.900	341.100	95.371%	93.574%
X		84.450%	10.350	0.730	0.725	347.300	346.500	93.326%	91.413%
σ		0.685%	0.193	0.021	0.035	5.609	5.487	1.917%	2.151%
%RSD		0.811	1.868	2.812	4.798	1.615	1.583	2.054	2.353
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:45:39	1.209	1.221	103.000	102.100	102.500	76.234%		
2	20:46:22	1.195	1.234	103.900	102.200	103.200	77.782%		
3	20:47:05	1.159	1.197	100.500	99.320	99.880	79.972%		
X		1.188	1.217	102.400	101.200	101.900	77.996%		
σ		0.026	0.019	1.781	1.629	1.770	1.879%		
%RSD		2.191	1.537	1.739	1.610	1.738	2.408		

240-18297-I-13-A 12/23/2012 8:49:14 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	97.597%	2.335	24.060	23.860	0.000	443.500	34700.000	36210.000
2	20:50:40	98.225%	2.315	23.760	23.470	0.000	436.000	34470.000	35900.000
3	20:51:23	97.033%	2.282	23.860	23.910	0.000	434.800	34270.000	36430.000
X		97.618%	2.311	23.890	23.750	0.000	438.100	34480.000	36180.000
σ		0.596%	0.027	0.156	0.242	0.000	4.726	215.600	269.100
%RSD		0.611	1.173	0.651	1.017	0.000	1.079	0.625	0.744
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	47000.000	1716.000	0.000	6929.000	44280.000	46010.000	100.538%	418.300
2	20:50:40	46850.000	1720.000	0.000	6837.000	44570.000	46610.000	99.762%	425.100
3	20:51:23	47250.000	1713.000	0.000	6901.000	45160.000	47260.000	98.114%	421.500
X		47030.000	1716.000	0.000	6889.000	44670.000	46630.000	99.472%	421.600
σ		203.400	3.399	0.000	47.180	448.800	623.400	1.238%	3.414
%RSD		0.432	0.198	0.000	0.685	1.005	1.337	1.244	0.810
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	84.030	76.050	2183.000	185000.000	189600.000	60.110	136.400	189.300
2	20:50:40	84.950	77.020	2233.000	187800.000	190700.000	60.750	138.700	191.700
3	20:51:23	86.400	78.510	2264.000	191900.000	195000.000	61.870	141.600	197.200
X		85.130	77.200	2227.000	188300.000	191800.000	60.910	138.900	192.700
σ		1.193	1.239	40.680	3465.000	2869.000	0.891	2.605	4.025
%RSD		1.402	1.605	1.827	1.840	1.496	1.463	1.876	2.089
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	189.400	484.400	488.300	140.400	1.612	7.898	0.000	83.190
2	20:50:40	191.300	489.300	492.500	141.400	1.521	7.032	0.000	84.560
3	20:51:23	197.000	494.400	500.000	144.100	1.670	8.224	0.000	85.230
X		192.500	489.400	493.600	142.000	1.601	7.718	0.000	84.330
σ		3.958	5.033	5.913	1.882	0.075	0.616	0.000	1.041
%RSD		2.056	1.029	1.198	1.326	4.688	7.983	0.000	1.235
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	0.000	9.444	9.636	84.273%	0.276	0.172	1.314	1.008
2	20:50:40	0.000	9.718	9.729	84.363%	0.281	0.191	1.281	1.078
3	20:51:23	0.000	9.851	9.804	83.007%	0.288	0.196	1.295	0.984
X		0.000	9.671	9.723	83.881%	0.281	0.187	1.297	1.023
σ		0.000	0.207	0.085	0.758%	0.006	0.013	0.017	0.049
%RSD		0.000	2.146	0.870	0.904	2.169	6.728	1.296	4.755
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:57	86.887%	8.402	0.637	0.695	144.700	144.000	94.859%	93.647%
2	20:50:40	87.720%	8.675	0.630	0.663	144.800	145.300	96.782%	95.684%
3	20:51:23	87.200%	8.733	0.667	0.706	146.500	146.200	97.057%	95.482%
X		87.269%	8.603	0.645	0.688	145.300	145.100	96.233%	94.938%
σ		0.421%	0.176	0.020	0.022	0.989	1.104	1.198%	1.123%
%RSD		0.482	2.052	3.037	3.250	0.681	0.761	1.244	1.182
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:49:57	0.830	0.835	86.960	86.260	86.770	81.441%		
2	20:50:40	0.821	0.837	88.010	87.000	87.750	83.063%		
3	20:51:23	0.836	0.864	88.360	88.140	88.070	82.966%		
X		0.829	0.845	87.780	87.140	87.530	82.490%		
σ		0.008	0.016	0.729	0.946	0.680	0.910%		
%RSD		0.912	1.924	0.831	1.085	0.777	1.103		

240-18297-I-16-A 12/23/2012 8:53:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	85.081%	8.510	24.930	25.480	0.000	678.900	42140.000	43470.000
2	20:54:59	87.512%	7.680	24.130	24.470	0.000	654.100	41400.000	42990.000
3	20:55:42	81.871%	8.468	24.600	25.760	0.000	666.500	41410.000	43050.000
X		84.821%	8.220	24.550	25.240	0.000	666.500	41650.000	43170.000
σ		2.830%	0.468	0.401	0.677	0.000	12.410	425.200	262.700
%RSD		3.336	5.688	1.632	2.684	0.000	1.862	1.021	0.609
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	97890.000	1593.000	0.000	12690.000	4854.000	4620.000	90.051%	377.500
2	20:54:59	97230.000	1564.000	0.000	12560.000	4730.000	4619.000	87.228%	380.100
3	20:55:42	97010.000	1559.000	0.000	12510.000	4707.000	4531.000	84.867%	369.300
X		97380.000	1572.000	0.000	12590.000	4764.000	4590.000	87.382%	375.600
σ		455.600	18.140	0.000	96.990	78.880	50.610	2.595%	5.644
%RSD		0.468	1.154	0.000	0.771	1.656	1.103	2.970	1.503
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	185.600	201.600	7053.000	363700.000	383900.000	166.500	327.700	328.000
2	20:54:59	188.700	204.000	7101.000	371700.000	390700.000	169.200	331.700	334.600
3	20:55:42	185.900	202.900	7134.000	373400.000	392700.000	168.300	324.300	327.800
X		186.700	202.800	7096.000	369600.000	389100.000	168.000	327.900	330.100
σ		1.702	1.229	40.390	5165.000	4594.000	1.385	3.704	3.864
%RSD		0.912	0.606	0.569	1.397	1.181	0.824	1.130	1.171
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	327.500	799.100	811.000	46.590	3.733	10.940	0.000	78.670
2	20:54:59	332.100	814.500	827.200	48.240	3.762	10.800	0.000	79.930
3	20:55:42	329.200	805.100	816.100	47.430	3.694	11.190	0.000	78.760
X		329.600	806.200	818.100	47.420	3.730	10.980	0.000	79.120
σ		2.351	7.794	8.293	0.827	0.034	0.198	0.000	0.706
%RSD		0.713	0.967	1.014	1.743	0.906	1.799	0.000	0.893
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	0.000	9.736	10.070	72.986%	0.347	0.196	2.333	1.771
2	20:54:59	0.000	10.070	10.140	71.026%	0.393	0.183	2.319	1.717
3	20:55:42	0.000	10.140	9.935	70.965%	0.373	0.179	2.386	1.823
X		0.000	9.983	10.050	71.659%	0.371	0.186	2.346	1.771
σ		0.000	0.217	0.104	1.150%	0.023	0.009	0.035	0.053
%RSD		0.000	2.172	1.039	1.605	6.221	4.839	1.490	2.979
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:16	76.315%	9.628	1.367	1.420	538.900	540.800	85.652%	84.611%
2	20:54:59	75.719%	9.645	1.375	1.331	542.200	542.700	85.901%	85.482%
3	20:55:42	75.575%	9.569	1.398	1.335	534.200	533.600	86.185%	85.732%
X		75.870%	9.614	1.380	1.362	538.400	539.000	85.913%	85.275%
σ		0.392%	0.040	0.016	0.050	3.996	4.780	0.267%	0.589%
%RSD		0.517	0.418	1.179	3.702	0.742	0.887	0.310	0.690
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:54:16	1.195	1.154	178.300	176.000	176.600	72.439%		
2	20:54:59	1.139	1.180	178.700	176.800	177.900	72.691%		
3	20:55:42	1.113	1.138	175.900	173.500	174.500	73.629%		
X		1.149	1.158	177.600	175.400	176.300	72.920%		
σ		0.042	0.021	1.506	1.751	1.754	0.627%		
%RSD		3.668	1.836	0.848	0.998	0.995	0.860		

240-18297-J-17-A 12/23/2012 8:57:53 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	82.037%	9.034	24.040	23.400	0.000	600.800	39310.000	41100.000
2	20:59:18	78.279%	8.904	23.780	24.350	0.000	615.000	40340.000	42430.000
3	21:00:01	79.595%	9.309	25.420	24.390	0.000	610.500	40150.000	42170.000
X		79.970%	9.082	24.410	24.050	0.000	608.800	39930.000	41900.000
σ		1.907%	0.206	0.880	0.558	0.000	7.283	547.100	706.400
%RSD		2.385	2.274	3.603	2.318	0.000	1.196	1.370	1.686
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	93300.000	1475.000	0.000	11620.000	4302.000	4301.000	85.946%	344.700
2	20:59:18	96590.000	1563.000	0.000	11800.000	4349.000	4347.000	84.013%	353.300
3	21:00:01	96500.000	1531.000	0.000	12000.000	4460.000	4300.000	82.864%	354.200
X		95470.000	1523.000	0.000	11810.000	4370.000	4316.000	84.274%	350.700
σ		1876.000	44.340	0.000	186.200	81.530	27.070	1.557%	5.283
%RSD		1.965	2.911	0.000	1.577	1.866	0.627	1.848	1.506
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	184.600	191.200	8237.000	395000.000	420400.000	169.200	341.200	335.400
2	20:59:18	190.000	195.600	8382.000	401300.000	419400.000	170.200	344.300	341.500
3	21:00:01	189.900	197.100	8555.000	407500.000	426700.000	172.200	346.300	339.700
X		188.200	194.600	8391.000	401300.000	422100.000	170.500	343.900	338.900
σ		3.100	3.078	159.500	6287.000	3949.000	1.489	2.602	3.123
%RSD		1.647	1.582	1.901	1.567	0.936	0.873	0.757	0.922
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	337.400	860.500	874.900	55.340	4.453	11.050	0.000	77.760
2	20:59:18	343.100	881.500	887.800	56.820	4.373	11.810	0.000	79.050
3	21:00:01	343.200	878.700	895.900	57.100	4.509	11.680	0.000	80.220
X		341.200	873.600	886.200	56.420	4.445	11.520	0.000	79.010
σ		3.295	11.410	10.570	0.947	0.068	0.406	0.000	1.229
%RSD		0.965	1.306	1.193	1.678	1.535	3.524	0.000	1.555
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	0.000	12.120	12.100	69.039%	0.364	0.175	2.721	1.939
2	20:59:18	0.000	12.310	12.230	68.676%	0.380	0.192	2.472	1.890
3	21:00:01	0.000	12.130	12.380	68.988%	0.343	0.155	2.728	2.029
X		0.000	12.190	12.240	68.901%	0.362	0.174	2.640	1.953
σ		0.000	0.108	0.138	0.196%	0.018	0.018	0.146	0.071
%RSD		0.000	0.883	1.127	0.285	5.090	10.620	5.535	3.628
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:35	72.791%	10.060	1.325	1.408	605.800	605.500	83.308%	82.533%
2	20:59:18	73.483%	10.290	1.302	1.310	608.600	611.200	83.982%	83.548%
3	21:00:01	73.272%	10.010	1.330	1.368	612.000	611.400	84.036%	83.953%
X		73.182%	10.120	1.319	1.362	608.800	609.400	83.775%	83.345%
σ		0.355%	0.146	0.015	0.049	3.105	3.334	0.406%	0.732%
%RSD		0.485	1.445	1.118	3.587	0.510	0.547	0.485	0.878
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:58:35	1.150	1.191	222.900	221.700	222.100	71.189%		
2	20:59:18	1.188	1.187	227.600	224.900	225.900	72.194%		
3	21:00:01	1.177	1.247	228.900	228.800	228.900	71.468%		
X		1.171	1.208	226.500	225.200	225.700	71.617%		
σ		0.019	0.034	3.122	3.520	3.386	0.519%		
%RSD		1.654	2.774	1.379	1.564	1.501	0.724		

CCV 664806 12/23/2012 9:05:05 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	84.548%	102.200	97.580	101.700	0.000	49710.000	47100.000	48580.000
2	21:06:31	82.861%	100.300	99.940	100.800	0.000	49660.000	47020.000	48350.000
3	21:07:14	81.099%	104.000	103.600	106.100	0.000	50210.000	47250.000	48510.000
x		82.836%	102.160%	100.389%	102.867%	0.000	99.718%	94.248%	96.960%
σ		1.725%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.082	1.833	3.048	2.741	0.000	0.620	0.247	0.249
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	490.200	5198.000	0.000	47190.000	46510.000	48330.000	92.757%	98.650
2	21:06:31	477.500	5142.000	0.000	46710.000	47200.000	48300.000	92.647%	97.990
3	21:07:14	492.500	5135.000	0.000	46940.000	46610.000	48230.000	94.334%	97.050
x		97.344%	103.169%	0.000	93.891%	93.552%	96.576%	93.246%	97.896%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.944%	n/a
%RSD		1.654	0.671	0.000	0.510	0.800	0.102	1.012	0.822
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	95.790	95.870	503.200	25070.000	25100.000	95.130	93.410	95.240
2	21:06:31	94.440	94.930	501.800	24920.000	24630.000	94.060	92.830	93.930
3	21:07:14	94.680	93.690	496.600	24660.000	24820.000	94.650	92.650	94.680
x		94.968%	94.830%	100.106%	99.533%	99.405%	94.615%	92.962%	94.616%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.758	1.155	0.695	0.828	0.937	0.567	0.428	0.699
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	94.570	99.510	99.170	96.240	98.230	101.700	0.000	93.760
2	21:06:31	93.640	99.260	97.980	97.650	99.420	104.500	0.000	93.790
3	21:07:14	95.240	97.950	99.450	97.200	99.830	103.900	0.000	94.080
x		94.483%	98.907%	98.866%	97.031%	99.160%	103.391%	0.000	93.880%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.853	0.847	0.786	0.741	0.836	1.409	0.000	0.187
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	85.443%	94.690	95.760	82.563%	94.320	95.960	97.230	100.500
2	21:06:31	86.859%	96.890	97.800	84.262%	94.660	94.790	97.640	99.370
3	21:07:14	88.892%	97.760	99.030	85.966%	93.860	96.350	96.860	100.500
x		87.065%	96.447%	97.527%	84.264%	94.282%	95.701%	97.242%	100.135%
σ		1.734%	n/a	n/a	1.702%	n/a	n/a	n/a	n/a
%RSD		1.991	1.638	1.695	2.020	0.427	0.851	0.403	0.658
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:48	80.614%	98.350	99.070	98.420	94.200	95.710	81.182%	81.310%
2	21:06:31	83.520%	97.360	97.100	97.310	94.050	94.660	84.760%	84.880%
3	21:07:14	84.706%	98.240	98.910	98.920	95.220	94.930	86.112%	86.400%
x		82.947%	97.987%	98.361%	98.218%	94.489%	95.101%	84.018%	84.197%
σ		2.105%	n/a	n/a	n/a	n/a	n/a	2.548%	2.613%
%RSD		2.538	0.555	1.112	0.836	0.675	0.572	3.032	3.103
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:05:48	94.580	95.140	95.410	94.970	94.910	77.034%		
2	21:06:31	94.320	94.310	94.940	95.000	94.570	80.355%		
3	21:07:14	95.570	95.790	96.000	95.840	95.710	81.596%		
x		94.823%	95.079%	95.449%	95.269%	95.062%	79.662%		
σ		n/a	n/a	n/a	n/a	n/a	2.359%		
%RSD		0.694	0.780	0.558	0.517	0.618	2.961		



CCB3 12/23/2012 9:13:02 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	100.795%	-0.009	0.963	1.083	0.000	1.462	2.331	2.384
2	21:14:28	100.041%	-0.017	1.183	0.992	0.000	0.850	1.941	2.037
3	21:15:12	98.465%	-0.017	0.845	0.890	0.000	0.912	2.452	2.045
X		99.767%	-0.014	0.997	0.988	0.000	1.075	2.241	2.155
σ		1.189%	0.005	0.172	0.096	0.000	0.337	0.267	0.198
%RSD		1.192	33.000	17.220	9.756	0.000	31.350	11.910	9.197
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	2.082	-2.552	0.000	-8.246	29.860	27.750	111.324%	-0.113
2	21:14:28	1.998	-2.372	0.000	-9.192	39.540	26.160	108.698%	-0.030
3	21:15:12	1.982	-2.906	0.000	-9.636	20.220	30.520	107.439%	-0.091
X		2.021	-2.610	0.000	-9.024	29.870	28.150	109.154%	-0.078
σ		0.054	0.272	0.000	0.710	9.661	2.207	1.982%	0.043
%RSD		2.659	10.420	0.000	7.866	32.340	7.840	1.816	55.080
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	0.020	-0.018	0.345	-3.552	11.840	-0.007	-0.025	-0.036
2	21:14:28	-0.026	-0.070	0.325	-8.381	7.616	-0.009	-0.016	-0.044
3	21:15:12	-0.012	-0.037	0.326	-10.460	6.242	-0.010	0.004	-0.041
X		-0.006	-0.042	0.332	-7.465	8.565	-0.009	-0.013	-0.040
σ		0.023	0.026	0.011	3.545	2.916	0.002	0.015	0.004
%RSD		406.200	63.150	3.437	47.480	34.040	18.920	117.000	9.470
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	-0.049	-0.406	-0.271	0.091	-0.762	0.155	0.000	0.016
2	21:14:28	-0.045	-0.203	-0.167	0.061	-0.646	0.114	0.000	0.015
3	21:15:12	-0.036	-0.211	-0.333	0.129	-0.756	0.677	0.000	0.021
X		-0.044	-0.273	-0.257	0.094	-0.721	0.315	0.000	0.017
σ		0.007	0.115	0.084	0.034	0.065	0.314	0.000	0.003
%RSD		15.610	42.030	32.780	36.710	9.040	99.540	0.000	18.740
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	105.395%	0.196	0.168	101.750%	-0.005	-0.001	0.022	0.021
2	21:14:28	105.432%	0.146	0.144	102.035%	-0.004	-0.004	0.035	0.049
3	21:15:12	104.038%	0.116	0.145	101.227%	-0.005	-0.002	-0.050	-0.015
X		104.955%	0.153	0.152	101.670%	-0.004	-0.002	0.003	0.018
σ		0.794%	0.041	0.013	0.410%	0.001	0.002	0.046	0.032
%RSD		0.756	26.530	8.816	0.403	15.780	67.310	1738.000	177.500
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:13:45	89.732%	-0.168	-0.052	-0.021	0.013	0.043	89.534%	89.562%
2	21:14:28	89.837%	-0.114	-0.036	-0.041	0.005	0.043	92.138%	92.086%
3	21:15:12	90.601%	-0.221	-0.060	-0.027	0.016	0.006	91.985%	92.128%
X		90.056%	-0.168	-0.049	-0.030	0.011	0.031	91.219%	91.259%
σ		0.474%	0.053	0.013	0.010	0.005	0.021	1.461%	1.469%
%RSD		0.527	31.810	25.470	34.910	47.240	69.580	1.602	1.610
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:13:45	0.011	0.006	0.076	0.065	0.078	94.594%		
2	21:14:28	0.011	0.003	0.075	0.082	0.075	95.826%		
3	21:15:12	0.005	0.009	0.062	0.068	0.065	96.398%		
X		0.009	0.006	0.071	0.071	0.072	95.606%		
σ		0.003	0.003	0.008	0.009	0.007	0.922%		
%RSD		37.840	47.320	11.350	12.410	9.643	0.964		

240-18297-I-18-A 12/23/2012 9:17:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	80.374%	9.348	25.680	25.570	0.000	684.100	45330.000	46870.000
2	21:18:50	77.573%	9.417	25.830	26.350	0.000	706.400	47200.000	48710.000
3	21:19:33	79.014%	9.296	26.400	26.310	0.000	684.800	45930.000	47640.000
X		78.987%	9.354	25.970	26.070	0.000	691.800	46150.000	47740.000
σ		1.401%	0.060	0.380	0.440	0.000	12.640	957.200	924.400
%RSD		1.774	0.645	1.462	1.687	0.000	1.827	2.074	1.936
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	106200.000	1592.000	0.000	12980.000	4799.000	4701.000	91.843%	338.500
2	21:18:50	109500.000	1650.000	0.000	13480.000	4938.000	4829.000	87.192%	348.900
3	21:19:33	108600.000	1624.000	0.000	13240.000	5074.000	4782.000	87.122%	342.000
X		108100.000	1622.000	0.000	13230.000	4937.000	4770.000	88.719%	343.100
σ		1701.000	28.810	0.000	248.100	137.600	64.760	2.706%	5.305
%RSD		1.574	1.776	0.000	1.875	2.787	1.357	3.050	1.546
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	189.700	204.500	7260.000	383700.000	406400.000	162.900	338.000	352.000
2	21:18:50	200.400	212.200	7437.000	394300.000	415500.000	168.800	347.900	361.900
3	21:19:33	196.400	209.200	7416.000	393500.000	415100.000	170.300	350.700	361.100
X		195.500	208.700	7371.000	390500.000	412300.000	167.300	345.500	358.300
σ		5.417	3.892	96.500	5867.000	5165.000	3.933	6.653	5.507
%RSD		2.771	1.865	1.309	1.502	1.253	2.351	1.925	1.537
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	351.900	782.400	791.800	40.500	3.639	9.084	0.000	83.750
2	21:18:50	359.100	809.400	819.800	41.500	3.405	10.030	0.000	86.790
3	21:19:33	357.000	807.700	815.400	41.840	3.399	9.957	0.000	85.860
X		356.000	799.800	809.000	41.280	3.481	9.690	0.000	85.470
σ		3.684	15.120	15.070	0.697	0.137	0.526	0.000	1.557
%RSD		1.035	1.890	1.863	1.688	3.929	5.433	0.000	1.822
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	0.000	9.339	9.482	74.763%	0.320	0.176	2.305	1.721
2	21:18:50	0.000	9.747	9.959	72.631%	0.346	0.203	2.177	1.717
3	21:19:33	0.000	9.951	9.859	72.454%	0.329	0.185	2.203	1.644
X		0.000	9.679	9.767	73.283%	0.332	0.188	2.228	1.694
σ		0.000	0.312	0.252	1.285%	0.013	0.014	0.068	0.043
%RSD		0.000	3.222	2.578	1.754	4.028	7.321	3.033	2.561
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:18:07	77.570%	9.475	1.532	1.487	652.300	648.700	83.597%	83.515%
2	21:18:50	76.484%	9.348	1.458	1.383	660.600	657.900	83.744%	83.295%
3	21:19:33	76.573%	9.212	1.444	1.445	650.700	651.500	83.962%	83.492%
X		76.876%	9.345	1.478	1.438	654.500	652.700	83.768%	83.434%
σ		0.603%	0.132	0.047	0.052	5.285	4.694	0.184%	0.121%
%RSD		0.784	1.407	3.187	3.632	0.808	0.719	0.219	0.145
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:18:07	1.150	1.119	181.300	179.100	180.200	72.167%		
2	21:18:50	1.208	1.156	186.900	184.600	185.700	71.700%		
3	21:19:33	1.238	1.208	185.700	183.900	185.200	71.489%		
X		1.199	1.161	184.600	182.500	183.700	71.785%		
σ		0.045	0.045	2.979	2.965	3.030	0.347%		
%RSD		3.759	3.869	1.613	1.624	1.650	0.483		

240-18297-I-19-A 12/23/2012 9:21:44 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	81.952%	9.269	26.910	26.820	0.000	716.100	46030.000	47210.000
2	21:23:10	80.911%	9.505	28.010	27.870	0.000	728.900	46450.000	48230.000
3	21:23:53	78.217%	9.269	27.570	28.430	0.000	708.300	46140.000	47760.000
	X	80.360%	9.348	27.490	27.710	0.000	717.800	46200.000	47730.000
	σ	1.927%	0.137	0.552	0.815	0.000	10.390	216.700	512.000
	%RSD	2.398	1.460	2.008	2.940	0.000	1.448	0.469	1.073
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	106400.000	1982.000	0.000	13460.000	5404.000	5205.000	89.557%	382.200
2	21:23:10	107700.000	2005.000	0.000	13610.000	5519.000	5318.000	88.477%	395.000
3	21:23:53	106400.000	2008.000	0.000	13230.000	5220.000	5102.000	87.952%	390.700
	X	106800.000	1998.000	0.000	13430.000	5381.000	5208.000	88.662%	389.300
	σ	780.500	14.420	0.000	190.100	150.600	108.200	0.818%	6.496
	%RSD	0.731	0.722	0.000	1.415	2.798	2.077	0.923	1.669
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	195.400	212.200	5431.000	363300.000	382900.000	146.000	296.300	353.200
2	21:23:10	200.800	217.700	5540.000	370900.000	387100.000	148.200	301.100	359.200
3	21:23:53	199.200	216.200	5363.000	365000.000	381900.000	144.200	291.400	350.500
	X	198.500	215.400	5445.000	366400.000	384000.000	146.200	296.200	354.300
	σ	2.757	2.859	89.100	3977.000	2773.000	2.014	4.861	4.444
	%RSD	1.389	1.328	1.637	1.085	0.722	1.378	1.641	1.254
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	353.200	639.100	644.200	43.450	2.784	9.706	0.000	86.290
2	21:23:10	360.800	651.700	661.500	43.740	3.066	9.249	0.000	89.050
3	21:23:53	350.600	638.600	642.800	41.350	2.946	9.377	0.000	86.420
	X	354.900	643.100	649.500	42.850	2.932	9.444	0.000	87.250
	σ	5.300	7.438	10.380	1.303	0.141	0.235	0.000	1.557
	%RSD	1.493	1.157	1.598	3.042	4.824	2.493	0.000	1.784
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	0.000	9.460	9.239	71.685%	0.390	0.195	2.217	1.542
2	21:23:10	0.000	9.621	9.649	71.332%	0.385	0.194	2.285	1.715
3	21:23:53	0.000	9.170	9.312	72.179%	0.353	0.202	1.925	1.413
	X	0.000	9.417	9.400	71.732%	0.376	0.197	2.142	1.557
	σ	0.000	0.229	0.219	0.425%	0.020	0.004	0.191	0.152
	%RSD	0.000	2.427	2.325	0.593	5.315	2.047	8.928	9.746
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:22:27	74.146%	10.730	1.361	1.324	602.900	600.300	79.153%	79.005%
2	21:23:10	74.271%	11.010	1.361	1.361	617.100	613.300	80.386%	79.854%
3	21:23:53	75.123%	10.880	1.364	1.277	594.500	593.000	81.327%	80.985%
	X	74.513%	10.870	1.362	1.321	604.800	602.200	80.289%	79.948%
	σ	0.532%	0.142	0.001	0.042	11.400	10.300	1.090%	0.993%
	%RSD	0.714	1.311	0.091	3.214	1.885	1.710	1.358	1.242
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:22:27	0.989	1.049	167.200	165.600	166.400	67.470%		
2	21:23:10	1.048	1.032	171.500	170.800	170.800	68.015%		
3	21:23:53	1.000	1.001	167.100	164.200	165.400	69.654%		
	X	1.012	1.027	168.600	166.800	167.500	68.380%		
	σ	0.031	0.024	2.502	3.465	2.898	1.137%		
	%RSD	3.100	2.381	1.484	2.077	1.730	1.662		

240-18297-I-20-A 12/23/2012 9:26:04 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	81.626%	9.313	22.430	23.140	0.000	593.500	41050.000	42280.000
2	21:27:30	78.586%	9.210	23.260	23.290	0.000	587.000	41100.000	42630.000
3	21:28:13	80.316%	9.461	22.690	22.910	0.000	592.500	41510.000	43110.000
X		80.176%	9.328	22.790	23.110	0.000	591.000	41220.000	42680.000
σ		1.525%	0.126	0.426	0.191	0.000	3.495	251.900	418.500
%RSD		1.902	1.351	1.868	0.825	0.000	0.591	0.611	0.981
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	96200.000	1338.000	0.000	12120.000	3260.000	3112.000	88.807%	344.700
2	21:27:30	95900.000	1332.000	0.000	11940.000	3205.000	3110.000	87.124%	344.400
3	21:28:13	96560.000	1362.000	0.000	12120.000	3194.000	3162.000	87.507%	345.400
X		96220.000	1344.000	0.000	12060.000	3220.000	3128.000	87.813%	344.800
σ		330.300	15.710	0.000	105.300	35.330	29.690	0.882%	0.513
%RSD		0.343	1.169	0.000	0.873	1.097	0.949	1.004	0.149
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	175.300	188.500	8729.000	353800.000	367100.000	171.500	334.600	312.000
2	21:27:30	177.600	188.800	8911.000	355200.000	369600.000	172.800	332.700	313.400
3	21:28:13	179.700	193.100	8933.000	359200.000	372500.000	174.200	337.600	317.900
X		177.500	190.200	8858.000	356100.000	369700.000	172.800	335.000	314.400
σ		2.156	2.585	112.300	2779.000	2703.000	1.359	2.493	3.092
%RSD		1.214	1.360	1.268	0.780	0.731	0.786	0.744	0.983
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	311.500	822.700	833.400	28.460	2.732	8.603	0.000	66.950
2	21:27:30	311.400	827.300	836.000	28.790	3.060	9.269	0.000	67.610
3	21:28:13	317.000	842.600	853.400	28.960	2.789	9.361	0.000	69.650
X		313.300	830.900	840.900	28.730	2.860	9.078	0.000	68.070
σ		3.230	10.420	10.880	0.255	0.175	0.414	0.000	1.407
%RSD		1.031	1.255	1.293	0.888	6.128	4.556	0.000	2.067
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	0.000	9.402	9.879	71.599%	0.279	0.138	2.344	1.832
2	21:27:30	0.000	9.707	9.771	72.157%	0.320	0.156	2.487	1.885
3	21:28:13	0.000	9.745	9.806	71.095%	0.273	0.116	2.541	1.916
X		0.000	9.618	9.819	71.617%	0.290	0.137	2.457	1.878
σ		0.000	0.188	0.055	0.531%	0.026	0.020	0.102	0.042
%RSD		0.000	1.952	0.560	0.741	8.829	14.570	4.140	2.258
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:47	73.533%	8.681	0.852	0.856	620.400	617.700	78.915%	78.707%
2	21:27:30	74.468%	9.082	0.907	0.902	623.100	623.000	80.910%	80.509%
3	21:28:13	74.446%	8.913	0.900	0.926	629.900	634.400	81.221%	81.351%
X		74.149%	8.892	0.886	0.895	624.500	625.000	80.348%	80.189%
σ		0.534%	0.202	0.030	0.036	4.878	8.497	1.251%	1.350%
%RSD		0.720	2.267	3.377	4.031	0.781	1.359	1.557	1.684
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:26:47	1.310	1.318	161.300	159.300	160.700	68.141%		
2	21:27:30	1.326	1.323	161.600	158.800	160.400	70.273%		
3	21:28:13	1.315	1.342	165.300	163.300	164.400	69.655%		
X		1.317	1.327	162.800	160.500	161.800	69.356%		
σ		0.008	0.013	2.225	2.456	2.231	1.097%		
%RSD		0.602	0.965	1.367	1.531	1.379	1.582		

240-18297-I-21-A 12/23/2012 9:30:23 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	81.826%	7.762	22.080	23.330	0.000	533.200	37640.000	38440.000
2	21:31:49	80.001%	7.970	22.440	23.220	0.000	537.000	37560.000	38690.000
3	21:32:32	79.856%	7.663	23.880	23.220	0.000	540.900	37960.000	39230.000
X		80.561%	7.798	22.800	23.260	0.000	537.000	37720.000	38790.000
σ		1.098%	0.157	0.954	0.063	0.000	3.832	211.400	407.500
%RSD		1.363	2.009	4.185	0.272	0.000	0.714	0.561	1.051
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	88170.000	1712.000	0.000	10860.000	4260.000	4072.000	88.472%	358.400
2	21:31:49	88070.000	1711.000	0.000	10970.000	4260.000	4105.000	87.076%	360.400
3	21:32:32	88580.000	1741.000	0.000	11170.000	4371.000	4238.000	85.687%	375.100
X		88270.000	1722.000	0.000	11000.000	4297.000	4138.000	87.078%	364.600
σ		273.800	17.240	0.000	156.800	64.350	87.980	1.393%	9.089
%RSD		0.310	1.001	0.000	1.426	1.498	2.126	1.599	2.493
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	162.200	174.000	4263.000	316600.000	327200.000	138.500	257.300	292.200
2	21:31:49	164.300	174.700	4319.000	317500.000	327300.000	140.600	258.300	291.400
3	21:32:32	172.100	179.800	4366.000	322300.000	338500.000	143.800	266.400	302.600
X		166.200	176.200	4316.000	318800.000	331000.000	141.000	260.700	295.400
σ		5.204	3.140	51.460	3086.000	6488.000	2.696	5.029	6.238
%RSD		3.131	1.782	1.192	0.968	1.960	1.912	1.929	2.112
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	294.300	633.000	641.700	37.010	2.807	9.356	0.000	66.090
2	21:31:49	291.000	638.100	647.900	38.070	3.027	9.031	0.000	66.590
3	21:32:32	300.600	661.000	666.900	38.970	2.902	9.124	0.000	68.560
X		295.300	644.000	652.200	38.020	2.912	9.170	0.000	67.080
σ		4.894	14.940	13.110	0.981	0.111	0.168	0.000	1.307
%RSD		1.657	2.320	2.010	2.581	3.796	1.830	0.000	1.949
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	0.000	10.030	10.040	71.273%	0.355	0.169	2.133	1.558
2	21:31:49	0.000	9.889	10.110	71.479%	0.323	0.173	2.131	1.541
3	21:32:32	0.000	10.210	10.340	71.198%	0.324	0.180	2.101	1.585
X		0.000	10.040	10.160	71.317%	0.334	0.174	2.122	1.561
σ		0.000	0.161	0.156	0.146%	0.018	0.006	0.018	0.022
%RSD		0.000	1.601	1.539	0.204	5.382	3.441	0.855	1.420
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:06	72.501%	9.181	1.124	1.102	464.000	466.600	78.451%	77.685%
2	21:31:49	73.657%	9.196	1.170	1.067	464.600	467.100	79.664%	79.344%
3	21:32:32	72.847%	9.236	1.115	1.154	476.300	479.600	79.361%	78.892%
X		73.002%	9.204	1.136	1.108	468.300	471.100	79.159%	78.640%
σ		0.593%	0.029	0.029	0.044	6.913	7.367	0.632%	0.857%
%RSD		0.813	0.311	2.582	3.950	1.476	1.564	0.798	1.090
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:31:06	0.849	0.841	159.500	156.900	158.500	67.272%		
2	21:31:49	0.856	0.840	161.200	159.300	160.300	68.767%		
3	21:32:32	0.898	0.904	165.200	164.100	164.500	68.335%		
X		0.868	0.862	162.000	160.100	161.100	68.125%		
σ		0.026	0.037	2.944	3.662	3.113	0.769%		
%RSD		3.027	4.279	1.817	2.287	1.933	1.129		

240-18297-I-22-A 12/23/2012 9:34:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	79.033%	8.973	28.250	28.970	0.000	592.800	44790.000	45830.000
2	21:36:06	77.633%	9.601	27.860	28.920	0.000	581.000	44170.000	45740.000
3	21:36:49	76.802%	9.544	28.740	29.180	0.000	576.500	44160.000	45130.000
X		77.823%	9.373	28.280	29.020	0.000	583.400	44370.000	45570.000
σ		1.127%	0.347	0.441	0.136	0.000	8.440	362.900	382.200
%RSD		1.448	3.708	1.557	0.469	0.000	1.447	0.818	0.839
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	102000.000	1444.000	0.000	15060.000	6420.000	6176.000	88.619%	378.100
2	21:36:06	103400.000	1456.000	0.000	15010.000	6329.000	6204.000	86.629%	385.000
3	21:36:49	101400.000	1457.000	0.000	14830.000	6470.000	6233.000	87.143%	388.000
X		102200.000	1452.000	0.000	14970.000	6406.000	6204.000	87.464%	383.700
σ		1057.000	7.445	0.000	120.800	71.760	28.270	1.033%	5.062
%RSD		1.034	0.513	0.000	0.807	1.120	0.456	1.181	1.319
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	191.800	204.700	5858.000	391100.000	413900.000	155.400	294.300	302.200
2	21:36:06	195.400	206.300	5942.000	394100.000	417400.000	157.900	300.500	308.900
3	21:36:49	194.100	205.800	5921.000	398000.000	415300.000	156.900	294.000	302.200
X		193.800	205.600	5907.000	394400.000	415500.000	156.700	296.300	304.400
σ		1.821	0.785	43.890	3442.000	1749.000	1.295	3.642	3.830
%RSD		0.940	0.382	0.743	0.873	0.421	0.826	1.229	1.258
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	304.600	681.700	688.200	24.580	3.131	8.755	0.000	84.880
2	21:36:06	307.800	697.300	705.000	25.050	2.832	9.253	0.000	86.680
3	21:36:49	301.400	684.900	695.200	25.510	3.221	9.617	0.000	86.060
X		304.600	688.000	696.100	25.050	3.062	9.208	0.000	85.870
σ		3.164	8.239	8.415	0.466	0.203	0.433	0.000	0.914
%RSD		1.039	1.198	1.209	1.859	6.645	4.704	0.000	1.064
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	0.000	14.520	14.940	68.938%	0.505	0.307	2.774	2.135
2	21:36:06	0.000	14.790	14.820	69.275%	0.491	0.316	2.783	1.965
3	21:36:49	0.000	14.850	15.010	69.947%	0.471	0.291	2.491	1.890
X		0.000	14.720	14.920	69.386%	0.489	0.305	2.682	1.997
σ		0.000	0.175	0.095	0.513%	0.017	0.012	0.166	0.126
%RSD		0.000	1.190	0.637	0.740	3.469	4.036	6.194	6.288
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:23	70.621%	9.087	0.781	0.893	631.400	632.200	76.616%	76.292%
2	21:36:06	71.244%	9.371	0.889	0.883	644.000	644.000	77.966%	77.696%
3	21:36:49	72.028%	9.558	0.787	0.849	637.300	636.400	78.400%	78.393%
X		71.297%	9.339	0.819	0.875	637.600	637.500	77.661%	77.460%
σ		0.705%	0.237	0.060	0.023	6.289	5.988	0.930%	1.070%
%RSD		0.989	2.539	7.383	2.637	0.986	0.939	1.198	1.382
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:35:23	1.107	1.076	169.000	166.800	168.100	65.439%		
2	21:36:06	1.074	1.126	170.900	167.800	169.000	67.462%		
3	21:36:49	1.097	1.112	169.300	166.000	167.500	68.341%		
X		1.092	1.104	169.700	166.900	168.200	67.081%		
σ		0.017	0.026	0.989	0.929	0.743	1.488%		
%RSD		1.545	2.315	0.583	0.557	0.442	2.219		

240-18441-I-1-A 12/23/2012 9:38:58 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	69.176%	16.000	20.240	20.390	0.000	307.900	27750.000	28680.000
2	21:40:24	67.784%	16.220	20.600	20.900	0.000	299.500	27260.000	28260.000
3	21:41:07	67.437%	16.130	19.710	20.570	0.000	300.400	27140.000	28480.000
x		68.132%	16.120	20.180	20.620	0.000	302.600	27380.000	28470.000
σ		0.920%	0.112	0.451	0.255	0.000	4.635	323.700	208.000
%RSD		1.351	0.697	2.236	1.237	0.000	1.532	1.182	0.731
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	74450.000	3166.000	0.000	11000.000	5246.000	5111.000	74.356%	293.300
2	21:40:24	73900.000	3148.000	0.000	10720.000	5166.000	5044.000	74.345%	290.400
3	21:41:07	74230.000	3128.000	0.000	10820.000	5135.000	5080.000	74.339%	290.100
x		74190.000	3147.000	0.000	10850.000	5182.000	5079.000	74.347%	291.300
σ		277.200	18.720	0.000	141.400	57.510	33.720	0.009%	1.739
%RSD		0.374	0.595	0.000	1.303	1.110	0.664	0.012	0.597
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	211.000	169.800	34330.000	1114000.000	1506000.000	129.600	301.000	245.700
2	21:40:24	211.000	168.500	34100.000	1108000.000	1508000.000	128.700	304.000	246.400
3	21:41:07	208.700	168.400	34120.000	1109000.000	1508000.000	129.400	300.900	245.400
x		210.200	168.900	34180.000	1110000.000	1507000.000	129.200	302.000	245.800
σ		1.299	0.782	127.900	3546.000	784.200	0.476	1.756	0.516
%RSD		0.618	0.463	0.374	0.319	0.052	0.368	0.582	0.210
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	246.500	605.600	609.900	34.450	2.168	9.581	0.000	59.570
2	21:40:24	246.700	607.000	615.500	35.410	2.338	9.545	0.000	59.710
3	21:41:07	246.400	602.000	607.700	34.870	2.152	9.790	0.000	59.380
x		246.500	604.900	611.000	34.910	2.219	9.639	0.000	59.550
σ		0.169	2.612	4.015	0.481	0.103	0.132	0.000	0.165
%RSD		0.069	0.432	0.657	1.379	4.652	1.369	0.000	0.277
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	0.000	12.170	12.330	58.789%	0.370	0.227	3.119	2.538
2	21:40:24	0.000	11.940	12.130	59.286%	0.363	0.200	3.171	2.406
3	21:41:07	0.000	12.330	11.860	59.719%	0.360	0.185	3.103	2.423
x		0.000	12.150	12.110	59.264%	0.364	0.204	3.131	2.456
σ		0.000	0.197	0.232	0.466%	0.005	0.021	0.035	0.072
%RSD		0.000	1.624	1.916	0.785	1.359	10.440	1.131	2.914
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:41	61.352%	7.385	1.044	0.982	754.000	756.100	65.474%	66.403%
2	21:40:24	62.069%	7.383	1.030	1.002	755.300	749.900	66.586%	67.369%
3	21:41:07	62.455%	7.318	1.063	0.960	748.800	748.100	66.830%	67.599%
x		61.959%	7.362	1.046	0.981	752.700	751.400	66.297%	67.124%
σ		0.560%	0.038	0.017	0.021	3.445	4.219	0.723%	0.635%
%RSD		0.904	0.519	1.578	2.139	0.458	0.562	1.091	0.945
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:39:41	0.984	1.024	147.200	145.600	146.600	54.429%		
2	21:40:24	1.057	1.007	147.000	145.400	146.100	55.296%		
3	21:41:07	1.012	1.028	146.500	145.400	145.800	55.187%		
x		1.018	1.020	146.900	145.500	146.200	54.971%		
σ		0.037	0.011	0.351	0.131	0.411	0.472%		
%RSD		3.633	1.096	0.239	0.090	0.281	0.859		

240-18441-I-2-A 12/23/2012 9:43:16 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	79.590%	8.732	27.490	27.520	0.000	372.200	39640.000	39970.000
2	21:44:41	79.250%	9.039	27.110	27.510	0.000	386.000	40230.000	41680.000
3	21:45:24	76.371%	8.914	27.320	27.910	0.000	384.700	40080.000	41240.000
X		78.404%	8.895	27.310	27.650	0.000	381.000	39980.000	40960.000
σ		1.768%	0.154	0.190	0.229	0.000	7.587	305.600	888.000
%RSD		2.255	1.736	0.696	0.830	0.000	1.992	0.764	2.168
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	92390.000	1651.000	0.000	12860.000	5986.000	5844.000	87.961%	311.600
2	21:44:41	97060.000	1714.000	0.000	13640.000	6486.000	6373.000	79.854%	336.900
3	21:45:24	93570.000	1496.000	0.000	12970.000	6091.000	5935.000	84.727%	314.200
X		94340.000	1620.000	0.000	13150.000	6187.000	6050.000	84.181%	320.900
σ		2430.000	112.100	0.000	421.000	263.500	282.600	4.081%	13.920
%RSD		2.576	6.920	0.000	3.200	4.258	4.671	4.848	4.337
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	180.900	187.000	9913.000	358300.000	375300.000	161.000	359.500	285.300
2	21:44:41	195.700	201.200	10650.000	380600.000	397600.000	170.900	384.500	304.200
3	21:45:24	181.700	191.300	10100.000	364500.000	380500.000	161.500	359.500	293.300
X		186.100	193.200	10220.000	367800.000	384500.000	164.400	367.800	294.300
σ		8.302	7.319	384.600	11530.000	11680.000	5.579	14.480	9.487
%RSD		4.461	3.789	3.763	3.135	3.038	3.393	3.936	3.224
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	286.400	817.300	824.800	41.680	2.533	7.959	0.000	87.910
2	21:44:41	303.300	865.600	875.400	44.510	2.917	8.381	0.000	90.570
3	21:45:24	292.000	838.500	844.100	42.380	2.514	8.558	0.000	90.360
X		293.900	840.500	848.100	42.860	2.655	8.299	0.000	89.610
σ		8.642	24.210	25.540	1.470	0.228	0.308	0.000	1.480
%RSD		2.940	2.880	3.011	3.430	8.573	3.705	0.000	1.652
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	0.000	12.270	12.330	68.707%	0.350	0.229	3.100	2.579
2	21:44:41	0.000	12.320	12.500	68.575%	0.379	0.247	2.939	2.391
3	21:45:24	0.000	12.390	12.550	68.735%	0.374	0.222	2.775	2.394
X		0.000	12.330	12.460	68.672%	0.368	0.233	2.938	2.454
σ		0.000	0.063	0.114	0.086%	0.015	0.013	0.163	0.107
%RSD		0.000	0.514	0.918	0.125	4.119	5.615	5.534	4.377
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:58	69.251%	9.511	1.194	1.254	454.400	455.300	73.890%	73.747%
2	21:44:41	70.424%	9.474	1.234	1.269	453.700	454.700	75.263%	75.487%
3	21:45:24	70.913%	9.506	1.214	1.217	450.700	453.700	76.487%	76.681%
X		70.196%	9.497	1.214	1.246	452.900	454.600	75.213%	75.305%
σ		0.854%	0.020	0.020	0.027	1.928	0.794	1.299%	1.475%
%RSD		1.216	0.211	1.636	2.161	0.426	0.175	1.727	1.959
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:43:58	1.301	1.312	195.800	194.000	193.900	64.439%		
2	21:44:41	1.326	1.312	197.200	194.600	195.700	65.792%		
3	21:45:24	1.355	1.324	198.300	196.400	196.700	66.569%		
X		1.327	1.316	197.100	195.000	195.400	65.600%		
σ		0.027	0.007	1.241	1.232	1.443	1.078%		
%RSD		2.035	0.543	0.630	0.632	0.739	1.643		



240-18441-I-3-A 12/23/2012 9:47:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	78.837%	8.111	20.170	19.930	0.000	316.100	38280.000	39620.000
2	21:49:00	79.262%	8.410	20.470	21.110	0.000	326.100	39210.000	40370.000
3	21:49:43	78.892%	7.846	19.550	19.720	0.000	316.700	38420.000	39520.000
X		78.997%	8.123	20.060	20.250	0.000	319.600	38640.000	39840.000
σ		0.231%	0.282	0.470	0.746	0.000	5.618	501.300	467.600
%RSD		0.293	3.472	2.344	3.685	0.000	1.758	1.297	1.174
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	87560.000	1534.000	0.000	10720.000	4337.000	4233.000	85.688%	382.200
2	21:49:00	89990.000	1674.000	0.000	10990.000	4562.000	4379.000	84.109%	401.500
3	21:49:43	88460.000	1592.000	0.000	10800.000	4489.000	4372.000	78.466%	399.300
X		88670.000	1600.000	0.000	10830.000	4463.000	4328.000	82.754%	394.300
σ		1225.000	70.690	0.000	136.900	114.700	82.400	3.796%	10.560
%RSD		1.381	4.418	0.000	1.264	2.571	1.904	4.588	2.678
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	174.800	184.000	8157.000	349100.000	368000.000	128.100	275.900	300.800
2	21:49:00	187.700	194.500	8589.000	361800.000	375400.000	132.700	287.600	309.800
3	21:49:43	180.800	190.300	8502.000	365800.000	379700.000	132.500	287.900	309.100
X		181.100	189.600	8416.000	358900.000	374400.000	131.100	283.800	306.600
σ		6.469	5.238	228.400	8716.000	5924.000	2.614	6.806	4.993
%RSD		3.572	2.763	2.714	2.428	1.582	1.994	2.398	1.629
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	300.600	913.300	924.000	38.690	2.028	8.449	0.000	60.180
2	21:49:00	307.400	941.100	952.100	40.280	2.164	9.267	0.000	62.810
3	21:49:43	309.800	940.200	952.900	39.940	2.239	8.702	0.000	60.220
X		305.900	931.500	943.000	39.640	2.144	8.806	0.000	61.070
σ		4.807	15.770	16.440	0.836	0.107	0.419	0.000	1.506
%RSD		1.571	1.693	1.743	2.108	4.994	4.756	0.000	2.466
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	0.000	8.065	8.228	68.131%	0.330	0.136	3.136	2.503
2	21:49:00	0.000	8.388	8.545	67.828%	0.344	0.163	3.055	2.589
3	21:49:43	0.000	8.228	7.998	69.152%	0.328	0.130	2.925	2.295
X		0.000	8.227	8.257	68.370%	0.334	0.143	3.039	2.462
σ		0.000	0.162	0.275	0.693%	0.009	0.018	0.106	0.152
%RSD		0.000	1.964	3.324	1.014	2.669	12.370	3.495	6.151
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	69.413%	9.518	1.152	1.132	333.700	332.400	75.974%	75.182%
2	21:49:00	69.549%	9.871	1.178	1.238	346.800	348.900	75.674%	75.618%
3	21:49:43	71.506%	9.343	1.156	1.153	323.700	327.600	77.573%	78.282%
X		70.156%	9.577	1.162	1.174	334.800	336.300	76.407%	76.361%
σ		1.171%	0.269	0.014	0.056	11.580	11.160	1.021%	1.678%
%RSD		1.670	2.806	1.172	4.756	3.460	3.319	1.336	2.198
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:48:17	1.017	0.981	174.500	173.900	173.600	65.044%		
2	21:49:00	1.075	1.046	181.500	179.000	180.100	65.113%		
3	21:49:43	0.935	0.934	167.700	166.300	167.100	68.189%		
X		1.009	0.987	174.500	173.100	173.600	66.115%		
σ		0.070	0.056	6.911	6.415	6.499	1.796%		
%RSD		6.954	5.651	3.959	3.707	3.744	2.717		

240-18441-I-4-A 12/23/2012 9:51:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	73.884%	11.850	30.690	30.770	0.000	399.300	41260.000	41970.000
2	21:53:18	72.943%	11.720	30.180	31.310	0.000	402.300	40670.000	42590.000
3	21:54:01	73.878%	11.590	29.640	31.010	0.000	404.800	41300.000	42330.000
X		73.568%	11.720	30.170	31.030	0.000	402.200	41070.000	42300.000
σ		0.541%	0.128	0.525	0.271	0.000	2.749	354.300	315.200
%RSD		0.736	1.095	1.739	0.874	0.000	0.684	0.863	0.745
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	101800.000	1805.000	0.000	15600.000	6997.000	6861.000	76.797%	322.800
2	21:53:18	104000.000	1839.000	0.000	15860.000	7360.000	7040.000	74.829%	329.300
3	21:54:01	102700.000	1687.000	0.000	15930.000	7445.000	7196.000	73.742%	331.400
X		102800.000	1777.000	0.000	15800.000	7267.000	7033.000	75.123%	327.800
σ		1098.000	79.400	0.000	171.900	237.700	167.600	1.548%	4.484
%RSD		1.068	4.468	0.000	1.088	3.271	2.383	2.061	1.368
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	211.600	208.900	9350.000	603300.000	660300.000	251.000	373.200	350.400
2	21:53:18	217.500	216.200	9637.000	616200.000	675900.000	258.300	382.400	355.500
3	21:54:01	222.100	218.700	9713.000	617600.000	679000.000	256.300	384.000	355.500
X		217.000	214.600	9567.000	612400.000	671700.000	255.200	379.800	353.800
σ		5.301	5.115	191.400	7862.000	10020.000	3.766	5.834	2.971
%RSD		2.442	2.384	2.001	1.284	1.492	1.476	1.536	0.840
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	347.600	739.100	746.700	28.470	3.687	11.180	0.000	94.650
2	21:53:18	357.800	757.200	760.300	28.620	3.669	11.100	0.000	95.750
3	21:54:01	354.800	757.400	767.900	29.340	4.074	11.260	0.000	96.590
X		353.400	751.200	758.300	28.810	3.810	11.180	0.000	95.670
σ		5.223	10.470	10.720	0.463	0.229	0.076	0.000	0.974
%RSD		1.478	1.394	1.413	1.606	6.012	0.684	0.000	1.018
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	0.000	11.240	11.110	64.115%	0.397	0.281	2.397	1.890
2	21:53:18	0.000	11.540	11.570	64.362%	0.456	0.243	2.399	1.752
3	21:54:01	0.000	11.370	11.430	64.502%	0.411	0.288	2.433	1.862
X		0.000	11.380	11.370	64.327%	0.421	0.271	2.410	1.835
σ		0.000	0.147	0.239	0.196%	0.031	0.024	0.020	0.073
%RSD		0.000	1.296	2.102	0.304	7.289	8.867	0.843	3.980
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:35	65.625%	8.819	1.394	1.398	407.400	408.300	72.568%	72.133%
2	21:53:18	66.774%	8.730	1.315	1.359	408.000	408.300	74.119%	73.654%
3	21:54:01	67.145%	8.803	1.320	1.427	411.100	411.500	74.417%	74.039%
X		66.515%	8.784	1.343	1.395	408.800	409.400	73.701%	73.275%
σ		0.792%	0.047	0.044	0.034	2.009	1.850	0.993%	1.008%
%RSD		1.191	0.540	3.308	2.447	0.491	0.452	1.347	1.376
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:52:35	1.069	1.114	187.400	185.400	186.300	60.837%		
2	21:53:18	1.112	1.061	189.600	187.000	188.600	61.783%		
3	21:54:01	1.053	1.118	189.400	187.400	189.000	62.638%		
X		1.078	1.098	188.800	186.600	187.900	61.753%		
σ		0.031	0.032	1.210	1.034	1.466	0.900%		
%RSD		2.840	2.912	0.641	0.554	0.780	1.458		

240-18441-I-6-A 12/23/2012 9:56:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	76.530%	9.058	25.800	26.210	0.000	353.500	38440.000	39210.000
2	21:57:36	72.646%	9.308	26.170	26.550	0.000	369.300	39650.000	41660.000
3	21:58:20	73.450%	9.311	26.100	25.970	0.000	348.200	37850.000	39170.000
X		74.208%	9.226	26.020	26.240	0.000	357.000	38650.000	40010.000
σ		2.050%	0.145	0.197	0.293	0.000	10.990	920.600	1424.000
%RSD		2.763	1.574	0.757	1.117	0.000	3.080	2.382	3.559
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	99910.000	1499.000	0.000	14090.000	6683.000	6437.000	78.047%	309.000
2	21:57:36	106500.000	1525.000	0.000	15090.000	7327.000	7048.000	71.098%	340.300
3	21:58:20	100700.000	1513.000	0.000	14210.000	6725.000	6536.000	74.584%	319.300
X		102400.000	1512.000	0.000	14460.000	6912.000	6674.000	74.576%	322.800
σ		3582.000	12.710	0.000	544.800	360.500	328.200	3.475%	15.990
%RSD		3.499	0.841	0.000	3.767	5.215	4.917	4.659	4.951
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	206.100	213.300	10730.000	462900.000	488000.000	149.300	356.500	312.300
2	21:57:36	228.400	230.600	11550.000	503800.000	532700.000	161.100	378.600	338.400
3	21:58:20	214.800	218.400	10990.000	475400.000	501300.000	151.800	361.800	321.900
X		216.400	220.800	11090.000	480700.000	507300.000	154.100	365.700	324.200
σ		11.250	8.890	417.600	20930.000	22970.000	6.246	11.530	13.190
%RSD		5.201	4.027	3.766	4.354	4.529	4.054	3.153	4.068
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	312.900	828.100	840.100	24.060	2.399	8.725	0.000	78.830
2	21:57:36	335.200	891.600	898.200	25.390	3.009	10.140	0.000	83.190
3	21:58:20	318.000	850.600	855.700	23.480	2.826	9.031	0.000	80.680
X		322.000	856.800	864.700	24.310	2.745	9.297	0.000	80.900
σ		11.700	32.160	30.060	0.983	0.313	0.742	0.000	2.188
%RSD		3.632	3.754	3.476	4.042	11.400	7.979	0.000	2.704
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	0.000	11.570	11.620	65.681%	0.329	0.188	2.595	2.055
2	21:57:36	0.000	12.330	11.880	65.012%	0.342	0.211	3.106	2.338
3	21:58:20	0.000	11.610	11.570	65.848%	0.355	0.162	2.697	2.136
X		0.000	11.840	11.690	65.514%	0.342	0.187	2.799	2.176
σ		0.000	0.428	0.168	0.442%	0.013	0.025	0.271	0.146
%RSD		0.000	3.620	1.437	0.675	3.761	13.120	9.663	6.693
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:56:54	67.050%	6.911	0.882	0.957	498.700	498.100	72.139%	71.864%
2	21:57:36	67.003%	7.109	1.016	0.912	514.600	513.300	72.951%	73.120%
3	21:58:20	67.676%	6.952	0.908	0.901	497.500	499.500	74.456%	74.793%
X		67.243%	6.991	0.935	0.923	503.600	503.600	73.182%	73.259%
σ		0.376%	0.105	0.071	0.029	9.541	8.417	1.175%	1.469%
%RSD		0.559	1.499	7.555	3.162	1.895	1.671	1.606	2.006
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:56:54	0.975	0.996	151.200	149.100	149.300	63.149%		
2	21:57:36	1.049	1.049	156.800	155.300	155.700	63.426%		
3	21:58:20	1.001	1.000	152.500	150.500	151.400	64.694%		
X		1.008	1.015	153.500	151.600	152.100	63.756%		
σ		0.037	0.030	2.927	3.230	3.265	0.824%		
%RSD		3.695	2.919	1.907	2.130	2.146	1.292		

CCV 664806 12/23/2012 10:03:23 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	77.949%	102.200	98.460	103.100	0.000	50720.000	48910.000	49660.000
2	22:04:49	77.001%	99.960	99.110	99.850	0.000	48010.000	46560.000	46960.000
3	22:05:32	78.357%	99.580	100.700	103.000	0.000	47950.000	45430.000	46980.000
X		77.769%	100.571%	99.437%	101.976%	0.000	97.789%	93.937%	95.736%
σ		0.695%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.894	1.389	1.188	1.810	0.000	3.233	3.780	3.241
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	497.300	5252.000	0.000	48980.000	49260.000	50510.000	81.512%	101.400
2	22:04:49	480.100	5038.000	0.000	46190.000	45970.000	47940.000	83.234%	98.300
3	22:05:32	477.400	5038.000	0.000	46850.000	46670.000	48180.000	85.346%	98.840
X		96.991%	102.188%	0.000	94.680%	94.597%	97.754%	83.364%	99.505%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.920%	n/a
%RSD		2.218	2.418	0.000	3.082	3.661	2.909	2.303	1.648
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	97.270	97.880	526.200	25890.000	25560.000	98.540	96.660	97.820
2	22:04:49	95.830	96.520	501.300	24960.000	24830.000	94.920	94.790	94.200
3	22:05:32	95.420	95.870	505.500	25140.000	25120.000	94.320	93.180	93.420
X		96.174%	96.756%	102.201%	101.325%	100.678%	95.925%	94.874%	95.144%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.007	1.063	2.603	1.939	1.467	2.377	1.836	2.471
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	96.570	102.100	102.100	100.700	101.000	106.300	0.000	96.700
2	22:04:49	94.720	101.000	101.000	96.980	100.500	102.400	0.000	93.790
3	22:05:32	93.420	100.600	99.430	96.670	99.970	104.500	0.000	94.550
X		94.905%	101.221%	100.837%	98.108%	100.487%	104.399%	0.000	95.015%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.666	0.728	1.312	2.269	0.494	1.892	0.000	1.592
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	74.543%	97.680	97.060	72.826%	95.740	96.870	98.780	100.400
2	22:04:49	77.607%	96.720	97.390	75.858%	93.660	93.860	95.640	97.160
3	22:05:32	79.156%	98.550	97.870	77.227%	92.890	93.700	96.080	96.700
X		77.102%	97.649%	97.438%	75.303%	94.094%	94.811%	96.830%	98.092%
σ		2.348%	n/a	n/a	2.252%	n/a	n/a	n/a	n/a
%RSD		3.045	0.940	0.418	2.991	1.565	1.885	1.756	2.062
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:04:06	72.632%	97.980	98.590	99.340	95.820	96.120	71.998%	72.627%
2	22:04:49	76.920%	94.650	95.010	96.060	91.730	92.150	76.346%	76.846%
3	22:05:32	78.667%	95.470	95.940	96.000	92.400	91.660	77.682%	78.372%
X		76.073%	96.036%	96.514%	97.132%	93.316%	93.309%	75.342%	75.948%
σ		3.105%	n/a	n/a	n/a	n/a	n/a	2.972%	2.976%
%RSD		4.082	1.809	1.926	1.971	2.351	2.621	3.945	3.918
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:04:06	96.710	96.760	96.520	96.120	96.150	70.103%		
2	22:04:49	93.770	93.710	94.370	94.110	94.000	73.928%		
3	22:05:32	94.100	94.310	95.500	94.750	94.870	75.686%		
X		94.861%	94.926%	95.461%	94.994%	95.010%	73.239%		
σ		n/a	n/a	n/a	n/a	n/a	2.854%		
%RSD		1.701	1.701	1.127	1.082	1.136	3.897		

CCB4 12/23/2012 10:11:21 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	98.003%	-0.004	0.587	0.579	0.000	1.212	2.238	2.483
2	22:12:47	91.060%	-0.010	0.641	0.537	0.000	1.511	2.881	2.395
3	22:13:30	92.555%	-0.024	0.359	0.474	0.000	1.542	2.418	2.436
X		93.873%	-0.012	0.529	0.530	0.000	1.422	2.513	2.438
σ		3.654%	0.010	0.149	0.053	0.000	0.182	0.332	0.044
%RSD		3.893	82.530	28.260	9.939	0.000	12.790	13.190	1.800
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	2.172	-2.955	0.000	-10.940	27.010	25.700	104.635%	-0.039
2	22:12:47	2.368	-2.550	0.000	-9.587	22.380	28.130	97.678%	-0.069
3	22:13:30	2.246	-3.167	0.000	-11.470	26.350	26.390	99.621%	-0.110
X		2.262	-2.891	0.000	-10.670	25.250	26.740	100.645%	-0.073
σ		0.099	0.313	0.000	0.972	2.506	1.252	3.590%	0.036
%RSD		4.378	10.840	0.000	9.116	9.924	4.682	3.567	48.980
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	0.025	-0.047	0.362	-5.944	12.310	-0.008	-0.038	-0.028
2	22:12:47	0.009	-0.069	0.327	-6.022	10.860	-0.008	-0.013	-0.046
3	22:13:30	0.007	-0.089	0.365	-10.200	8.574	-0.008	-0.022	-0.038
X		0.013	-0.068	0.351	-7.389	10.580	-0.008	-0.024	-0.037
σ		0.010	0.021	0.021	2.435	1.885	0.000	0.013	0.009
%RSD		73.350	30.590	6.006	32.960	17.820	1.329	51.690	24.820
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	-0.043	-0.495	-0.307	-0.033	-0.951	0.102	0.000	0.018
2	22:12:47	-0.060	-0.142	-0.388	0.139	-0.884	0.653	0.000	0.014
3	22:13:30	-0.059	-0.198	-0.242	-0.025	-0.881	0.194	0.000	0.013
X		-0.054	-0.278	-0.312	0.027	-0.905	0.317	0.000	0.015
σ		0.010	0.190	0.073	0.097	0.039	0.295	0.000	0.002
%RSD		18.290	68.190	23.470	361.700	4.345	93.240	0.000	16.140
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	95.507%	0.173	0.200	91.843%	-0.007	-0.011	-0.011	-0.002
2	22:12:47	93.425%	0.145	0.175	88.467%	-0.012	-0.009	-0.082	-0.049
3	22:13:30	93.616%	0.125	0.131	90.707%	-0.006	-0.009	-0.131	-0.072
X		94.183%	0.148	0.169	90.339%	-0.008	-0.010	-0.075	-0.041
σ		1.151%	0.024	0.035	1.718%	0.003	0.001	0.060	0.036
%RSD		1.222	16.440	20.690	1.902	37.260	15.240	80.490	87.990
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:12:04	84.690%	-0.304	-0.056	-0.034	0.023	0.046	85.453%	85.940%
2	22:12:47	83.779%	-0.302	-0.061	-0.039	0.016	0.032	85.139%	85.911%
3	22:13:30	84.635%	-0.286	-0.069	-0.056	0.034	0.027	86.816%	87.460%
X		84.368%	-0.297	-0.062	-0.043	0.024	0.035	85.803%	86.437%
σ		0.511%	0.010	0.007	0.012	0.009	0.010	0.892%	0.886%
%RSD		0.605	3.358	10.850	26.850	37.720	29.470	1.039	1.025
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:12:04	-0.001	-0.002	0.075	0.067	0.072	87.979%		
2	22:12:47	-0.001	0.000	0.079	0.069	0.075	87.466%		
3	22:13:30	0.002	-0.002	0.043	0.062	0.054	88.499%		
X		0.000	-0.001	0.065	0.066	0.067	87.981%		
σ		0.002	0.001	0.019	0.003	0.011	0.516%		
%RSD		416.800	107.200	29.560	5.181	16.950	0.587		

240-18441-I-7-A 12/23/2012 10:15:42 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	70.270%	11.290	25.850	25.100	0.000	449.100	53790.000	54760.000
2	22:17:08	71.225%	11.350	23.840	25.360	0.000	455.000	53710.000	55310.000
3	22:17:51	70.443%	11.320	25.030	26.230	0.000	449.800	53710.000	55440.000
X		70.646%	11.320	24.910	25.560	0.000	451.300	53740.000	55170.000
σ		0.509%	0.030	1.012	0.593	0.000	3.233	49.940	361.600
%RSD		0.720	0.265	4.062	2.319	0.000	0.717	0.093	0.655
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	122400.000	1430.000	0.000	14810.000	5994.000	5673.000	77.186%	340.500
2	22:17:08	124200.000	1441.000	0.000	15000.000	6171.000	5915.000	73.684%	350.500
3	22:17:51	122700.000	1456.000	0.000	14730.000	5983.000	5824.000	76.176%	344.400
X		123100.000	1443.000	0.000	14850.000	6049.000	5804.000	75.682%	345.100
σ		939.400	12.770	0.000	135.400	105.300	122.300	1.802%	5.040
%RSD		0.763	0.885	0.000	0.912	1.741	2.108	2.381	1.460
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	252.300	260.900	13830.000	560700.000	607000.000	191.200	525.600	379.500
2	22:17:08	260.700	272.300	14340.000	582200.000	636600.000	201.400	547.300	392.100
3	22:17:51	252.100	262.900	14060.000	567900.000	616800.000	195.100	537.200	385.900
X		255.000	265.400	14080.000	570200.000	620100.000	195.900	536.700	385.800
σ		4.879	6.099	254.700	10930.000	15080.000	5.160	10.860	6.302
%RSD		1.913	2.298	1.809	1.917	2.431	2.634	2.023	1.633
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	381.300	1030.000	1037.000	31.700	3.140	10.070	0.000	108.500
2	22:17:08	395.200	1066.000	1071.000	33.840	3.549	11.260	0.000	111.100
3	22:17:51	383.300	1042.000	1056.000	33.010	3.393	10.400	0.000	111.300
X		386.600	1046.000	1055.000	32.850	3.361	10.580	0.000	110.300
σ		7.481	18.030	17.430	1.077	0.206	0.614	0.000	1.556
%RSD		1.935	1.723	1.652	3.277	6.141	5.803	0.000	1.411
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	0.000	13.260	13.230	64.227%	0.363	0.231	3.108	2.434
2	22:17:08	0.000	13.500	13.680	64.159%	0.369	0.217	2.969	2.373
3	22:17:51	0.000	13.650	13.390	64.014%	0.386	0.208	3.259	2.642
X		0.000	13.470	13.430	64.133%	0.373	0.219	3.112	2.483
σ		0.000	0.192	0.231	0.109%	0.012	0.011	0.145	0.141
%RSD		0.000	1.428	1.716	0.169	3.156	5.186	4.656	5.668
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:16:25	65.976%	7.477	1.249	1.241	707.500	704.200	72.358%	72.010%
2	22:17:08	66.424%	7.554	1.275	1.245	712.700	714.400	73.439%	73.471%
3	22:17:51	66.990%	7.422	1.211	1.264	711.600	714.300	73.513%	73.226%
X		66.463%	7.485	1.245	1.250	710.600	711.000	73.103%	72.903%
σ		0.508%	0.066	0.032	0.012	2.772	5.894	0.647%	0.783%
%RSD		0.765	0.888	2.587	0.971	0.390	0.829	0.885	1.074
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:16:25	1.095	1.131	202.900	200.300	201.900	62.937%		
2	22:17:08	1.154	1.180	205.700	204.600	205.000	63.283%		
3	22:17:51	1.194	1.216	208.900	206.200	207.400	62.980%		
X		1.148	1.176	205.800	203.700	204.800	63.067%		
σ		0.049	0.043	3.000	3.043	2.767	0.189%		
%RSD		4.312	3.639	1.457	1.494	1.351	0.299		

240-18441-I-8-A 12/23/2012 10:20:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	76.462%	10.110	21.720	22.350	0.000	356.800	36510.000	37520.000
2	22:21:27	77.110%	9.934	22.700	22.330	0.000	353.400	36480.000	37310.000
3	22:22:10	73.683%	10.090	23.030	22.100	0.000	376.500	38390.000	39700.000
X		75.752%	10.050	22.480	22.260	0.000	362.200	37130.000	38180.000
σ		1.821%	0.097	0.678	0.136	0.000	12.470	1096.000	1323.000
%RSD		2.404	0.966	3.017	0.612	0.000	3.444	2.951	3.464
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	86630.000	1524.000	0.000	11540.000	4828.000	4623.000	83.692%	284.400
2	22:21:27	86580.000	1523.000	0.000	11740.000	4813.000	4724.000	82.912%	292.700
3	22:22:10	92840.000	1556.000	0.000	12790.000	5259.000	5100.000	73.712%	317.600
X		88680.000	1534.000	0.000	12020.000	4967.000	4816.000	80.105%	298.200
σ		3597.000	18.510	0.000	672.300	253.300	251.300	5.551%	17.300
%RSD		4.056	1.206	0.000	5.592	5.099	5.219	6.929	5.801
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	185.600	177.600	9079.000	440500.000	465500.000	122.000	294.300	278.000
2	22:21:27	191.400	183.500	9269.000	449300.000	476900.000	127.100	302.700	288.100
3	22:22:10	206.700	200.900	9936.000	488300.000	520600.000	136.000	324.600	306.200
X		194.600	187.300	9428.000	459400.000	487700.000	128.400	307.200	290.700
σ		10.940	12.160	450.500	25430.000	29100.000	7.048	15.640	14.290
%RSD		5.625	6.490	4.778	5.536	5.966	5.491	5.092	4.917
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	277.300	659.900	665.900	29.460	2.540	8.085	0.000	82.020
2	22:21:27	289.600	685.800	684.400	29.750	2.505	8.804	0.000	85.190
3	22:22:10	308.600	720.600	721.400	30.600	2.446	9.310	0.000	86.930
X		291.800	688.800	690.600	29.940	2.497	8.733	0.000	84.710
σ		15.780	30.480	28.280	0.593	0.048	0.615	0.000	2.490
%RSD		5.408	4.425	4.095	1.981	1.905	7.046	0.000	2.940
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	0.000	9.251	9.440	65.064%	0.306	0.160	2.695	2.137
2	22:21:27	0.000	9.535	9.733	64.802%	0.310	0.165	2.586	2.078
3	22:22:10	0.000	9.627	9.454	65.345%	0.319	0.176	2.496	1.948
X		0.000	9.471	9.542	65.071%	0.312	0.167	2.592	2.054
σ		0.000	0.196	0.165	0.272%	0.007	0.008	0.099	0.096
%RSD		0.000	2.071	1.730	0.418	2.198	4.701	3.831	4.689
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:44	65.641%	8.668	0.969	0.904	407.400	409.100	70.643%	71.330%
2	22:21:27	66.169%	8.945	0.923	1.008	415.200	416.200	72.029%	72.266%
3	22:22:10	67.211%	8.866	0.869	0.986	409.400	410.000	72.688%	72.828%
X		66.340%	8.826	0.920	0.966	410.700	411.800	71.787%	72.141%
σ		0.799%	0.142	0.050	0.055	4.066	3.851	1.043%	0.757%
%RSD		1.204	1.614	5.407	5.654	0.990	0.935	1.454	1.049
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:20:44	1.209	1.213	133.600	130.800	132.000	62.031%		
2	22:21:27	1.179	1.282	136.500	135.800	135.600	62.563%		
3	22:22:10	1.251	1.227	135.100	132.600	133.600	63.336%		
X		1.213	1.240	135.100	133.100	133.700	62.643%		
σ		0.036	0.036	1.469	2.547	1.793	0.656%		
%RSD		2.988	2.938	1.087	1.914	1.340	1.048		

MB 180-59174/1-A 12/23/2012 10:27:58 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	97.612%	0.009	0.123	0.191	0.000	1.564	4.492	4.305
2	22:29:24	100.902%	-0.012	0.221	0.171	0.000	2.283	5.450	5.230
3	22:30:07	99.163%	-0.013	0.155	0.162	0.000	2.672	5.852	6.097
X		99.226%	-0.005	0.166	0.174	0.000	2.173	5.265	5.210
σ		1.646%	0.012	0.050	0.015	0.000	0.562	0.699	0.896
%RSD		1.659	232.100	29.950	8.416	0.000	25.870	13.270	17.200
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	3.228	-2.282	0.000	-14.520	16.050	10.520	109.351%	0.057
2	22:29:24	4.423	-1.172	0.000	-9.263	21.670	18.090	92.557%	0.048
3	22:30:07	5.544	-1.195	0.000	-9.768	16.150	17.940	92.008%	-0.066
X		4.398	-1.549	0.000	-11.180	17.960	15.510	97.972%	0.013
σ		1.158	0.634	0.000	2.899	3.214	4.330	9.858%	0.068
%RSD		26.320	40.940	0.000	25.920	17.900	27.910	10.063	523.500
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	-0.235	-0.015	0.305	20.910	44.630	-0.015	-0.015	0.379
2	22:29:24	-0.073	-0.016	0.474	24.820	43.550	-0.011	-0.001	0.409
3	22:30:07	-0.158	-0.007	0.632	24.800	44.240	-0.010	0.018	0.406
X		-0.155	-0.013	0.471	23.510	44.140	-0.012	0.000	0.398
σ		0.081	0.005	0.164	2.251	0.548	0.003	0.016	0.016
%RSD		52.390	38.250	34.790	9.577	1.242	20.930	3702.000	4.130
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	0.335	0.108	0.381	-0.204	-1.418	-0.280	0.000	0.032
2	22:29:24	0.362	0.265	0.351	0.159	-1.181	0.462	0.000	0.038
3	22:30:07	0.363	0.210	0.524	-0.066	-1.190	-0.269	0.000	0.045
X		0.353	0.194	0.419	-0.037	-1.263	-0.029	0.000	0.038
σ		0.016	0.080	0.092	0.183	0.134	0.426	0.000	0.006
%RSD		4.551	41.110	22.040	490.100	10.640	1465.000	0.000	16.870
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	85.010%	0.028	0.025	84.384%	-0.012	-0.018	-0.080	-0.031
2	22:29:24	86.308%	0.039	0.023	84.534%	-0.016	-0.014	-0.065	-0.045
3	22:30:07	87.010%	0.007	0.020	84.938%	-0.014	-0.013	-0.059	-0.045
X		86.109%	0.025	0.023	84.619%	-0.014	-0.015	-0.068	-0.040
σ		1.015%	0.016	0.002	0.286%	0.002	0.002	0.011	0.008
%RSD		1.178	65.320	10.710	0.338	14.680	15.910	16.290	19.780
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:28:41	80.336%	1.769	-0.090	-0.073	0.077	0.117	82.281%	82.761%
2	22:29:24	81.181%	1.768	-0.073	-0.075	0.110	0.118	83.853%	84.681%
3	22:30:07	81.202%	1.677	-0.083	-0.084	0.114	0.113	84.301%	85.339%
X		80.906%	1.738	-0.082	-0.077	0.100	0.116	83.478%	84.260%
σ		0.494%	0.053	0.009	0.006	0.020	0.003	1.061%	1.340%
%RSD		0.610	3.052	10.620	7.519	20.400	2.322	1.271	1.590
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:28:41	-0.013	-0.005	0.032	0.041	0.036	83.442%		
2	22:29:24	-0.010	-0.004	0.030	0.051	0.037	85.422%		
3	22:30:07	-0.000	-0.008	0.022	0.033	0.027	85.761%		
X		-0.008	-0.006	0.028	0.042	0.033	84.875%		
σ		0.007	0.002	0.006	0.009	0.006	1.253%		
%RSD		87.170	36.110	20.210	21.640	16.980	1.476		



LCS 180-59174/2-A 12/23/2012 10:32:19 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	82.169%	884.700	90.400	90.570	0.000	9013.000	8873.000	9045.000
2	22:33:44	81.987%	852.300	87.010	89.030	0.000	8987.000	8723.000	9107.000
3	22:34:28	81.520%	844.200	88.830	89.600	0.000	8635.000	8601.000	8913.000
x		81.892%	860.400	88.740	89.730	0.000	8879.000	8732.000	9022.000
σ		0.335%	21.460	1.699	0.780	0.000	211.200	136.400	99.360
%RSD		0.409	2.495	1.914	0.870	0.000	2.379	1.562	1.101
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	9111.000	24.270	0.000	8994.000	9917.000	9421.000	79.834%	97.770
2	22:33:44	9105.000	23.390	0.000	8706.000	9631.000	9108.000	80.511%	92.440
3	22:34:28	8731.000	24.550	0.000	8723.000	9533.000	9196.000	81.504%	92.080
x		8982.000	24.070	0.000	8808.000	9694.000	9242.000	80.616%	94.100
σ		217.700	0.605	0.000	161.300	199.400	161.500	0.840%	3.188
%RSD		2.424	2.514	0.000	1.831	2.057	1.747	1.042	3.388
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	965.900	974.600	983.300	9913.000	9424.000	966.000	925.500	940.200
2	22:33:44	925.300	931.800	937.300	9376.000	8989.000	913.300	879.600	889.600
3	22:34:28	926.900	945.000	952.900	9488.000	9098.000	915.100	877.700	904.800
x		939.400	950.500	957.800	9592.000	9170.000	931.500	894.300	911.500
σ		23.010	21.910	23.380	283.500	226.200	29.900	27.100	25.940
%RSD		2.449	2.305	2.441	2.955	2.467	3.210	3.030	2.846
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	931.500	890.900	886.600	852.200	836.200	843.400	0.000	950.200
2	22:33:44	888.800	850.700	851.000	814.900	795.300	805.400	0.000	904.800
3	22:34:28	896.700	861.300	854.300	819.700	788.300	804.500	0.000	906.700
x		905.700	867.600	864.000	828.900	806.600	817.800	0.000	920.600
σ		22.680	20.810	19.630	20.270	25.850	22.240	0.000	25.690
%RSD		2.504	2.398	2.272	2.445	3.205	2.720	0.000	2.791
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	69.756%	92.870	93.060	69.291%	94.550	95.320	895.800	908.300
2	22:33:44	72.423%	89.820	90.410	70.871%	90.830	91.320	852.900	868.300
3	22:34:28	72.609%	90.080	90.390	71.329%	91.790	92.890	863.200	875.500
x		71.596%	90.920	91.280	70.497%	92.390	93.180	870.600	884.000
σ		1.596%	1.693	1.535	1.069%	1.932	2.014	22.420	21.300
%RSD		2.230	1.862	1.681	1.516	2.092	2.162	2.575	2.409
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:02	68.244%	102.900	87.520	87.450	881.500	885.900	70.714%	70.993%
2	22:33:44	71.947%	99.540	84.140	83.580	836.300	843.700	74.491%	74.302%
3	22:34:28	71.896%	98.990	85.110	83.950	846.500	847.600	74.959%	75.521%
x		70.696%	100.500	85.590	85.000	854.800	859.100	73.388%	73.606%
σ		2.123%	2.113	1.740	2.135	23.700	23.310	2.327%	2.343%
%RSD		3.004	2.103	2.034	2.512	2.773	2.713	3.171	3.183
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:33:02	216.000	215.300	855.500	904.300	905.700	68.805%		
2	22:33:44	212.800	212.300	844.700	894.900	890.500	70.884%		
3	22:34:28	209.100	209.300	832.800	879.100	875.200	73.461%		
x		212.600	212.300	844.400	892.800	890.500	71.050%		
σ		3.464	3.024	11.340	12.770	15.240	2.333%		
%RSD		1.629	1.424	1.343	1.430	1.711	3.283		

240-18441-W-11-A 12/23/2012 10:39:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	90.303%	6.995	33.270	32.820	0.000	716.800	22430.000	23070.000
2	22:40:59	88.651%	6.978	32.780	32.690	0.000	698.600	22030.000	22940.000
3	22:41:42	89.450%	6.796	32.190	32.090	0.000	709.600	22160.000	23210.000
X		89.468%	6.923	32.750	32.530	0.000	708.300	22200.000	23070.000
σ		0.827%	0.111	0.540	0.389	0.000	9.155	205.500	136.700
%RSD		0.924	1.596	1.650	1.194	0.000	1.292	0.925	0.592
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	60540.000	1276.000	0.000	12770.000	7540.000	7432.000	94.452%	372.200
2	22:40:59	59740.000	1318.000	0.000	12760.000	7606.000	7399.000	94.106%	371.600
3	22:41:42	60630.000	1382.000	0.000	12970.000	7916.000	7565.000	91.604%	380.000
X		60300.000	1325.000	0.000	12830.000	7687.000	7465.000	93.387%	374.600
σ		488.700	53.510	0.000	118.900	201.100	88.140	1.554%	4.713
%RSD		0.810	4.037	0.000	0.927	2.616	1.181	1.664	1.258
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	86.050	124.200	2045.000	108700.000	108000.000	54.630	163.600	164.500
2	22:40:59	87.300	124.600	2046.000	106900.000	107800.000	54.460	162.500	165.700
3	22:41:42	91.940	129.400	2097.000	111400.000	110500.000	55.810	165.500	168.000
X		88.430	126.100	2063.000	109000.000	108800.000	54.970	163.900	166.100
σ		3.104	2.903	29.560	2247.000	1492.000	0.734	1.527	1.761
%RSD		3.510	2.303	1.433	2.062	1.371	1.336	0.932	1.061
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	165.000	443.300	447.300	5.100	2.934	7.676	0.000	60.690
2	22:40:59	162.900	447.700	448.900	4.882	2.411	7.754	0.000	61.360
3	22:41:42	166.900	457.700	460.600	5.234	2.327	6.789	0.000	61.960
X		164.900	449.600	452.300	5.072	2.557	7.406	0.000	61.340
σ		1.997	7.401	7.235	0.177	0.329	0.536	0.000	0.631
%RSD		1.211	1.646	1.600	3.497	12.860	7.239	0.000	1.028
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	0.000	1.059	1.065	75.910%	0.278	0.140	1.773	1.326
2	22:40:59	0.000	0.906	1.033	77.805%	0.320	0.136	1.884	1.332
3	22:41:42	0.000	0.948	0.927	77.830%	0.302	0.122	1.931	1.389
X		0.000	0.971	1.008	77.182%	0.300	0.133	1.863	1.349
σ		0.000	0.079	0.072	1.101%	0.021	0.009	0.081	0.035
%RSD		0.000	8.124	7.176	1.427	7.164	7.065	4.337	2.562
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:40:16	74.618%	8.206	0.204	0.210	305.500	306.500	80.399%	78.397%
2	22:40:59	77.143%	7.925	0.169	0.202	305.800	302.400	83.389%	81.493%
3	22:41:42	77.332%	8.250	0.167	0.184	306.700	306.100	84.792%	82.350%
X		76.364%	8.127	0.180	0.199	306.000	305.000	82.860%	80.747%
σ		1.515%	0.176	0.021	0.013	0.643	2.236	2.244%	2.079%
%RSD		1.985	2.168	11.650	6.582	0.210	0.733	2.708	2.575
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:40:16	1.264	1.255	87.350	85.040	86.260	70.412%		
2	22:40:59	1.169	1.154	86.580	85.100	85.970	72.882%		
3	22:41:42	1.115	1.134	87.300	85.730	86.530	73.420%		
X		1.183	1.181	87.080	85.290	86.250	72.238%		
σ		0.075	0.065	0.431	0.378	0.280	1.604%		
%RSD		6.364	5.520	0.494	0.443	0.324	2.220		

240-18441-W-11-A SD@5 12/23/2012 10:43:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	91.122%	1.404	7.036	6.922	0.000	134.500	3902.000	4291.000
2	22:45:18	87.290%	1.402	6.417	6.967	0.000	138.500	4045.000	4420.000
3	22:46:01	86.761%	1.494	6.564	6.815	0.000	135.000	4123.000	4417.000
X		88.391%	1.433	6.672	6.901	0.000	136.000	4023.000	4376.000
σ		2.380%	0.052	0.323	0.078	0.000	2.206	112.100	73.140
%RSD		2.693	3.650	4.845	1.133	0.000	1.622	2.787	1.672
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	12040.000	275.200	0.000	2547.000	1547.000	1489.000	91.235%	75.210
2	22:45:18	12440.000	286.800	0.000	2672.000	1561.000	1563.000	87.023%	77.430
3	22:46:01	12040.000	274.100	0.000	2541.000	1554.000	1503.000	87.023%	74.560
X		12170.000	278.700	0.000	2587.000	1554.000	1519.000	88.488%	75.730
σ		228.700	7.052	0.000	74.280	7.236	39.450	2.381%	1.507
%RSD		1.879	2.530	0.000	2.872	0.466	2.598	2.690	1.990
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	17.620	25.040	406.600	21950.000	21450.000	10.780	32.200	33.450
2	22:45:18	18.140	25.900	428.700	22880.000	22300.000	11.180	33.560	34.280
3	22:46:01	17.250	25.090	410.800	22070.000	21520.000	10.790	32.070	33.430
X		17.670	25.350	415.400	22300.000	21750.000	10.920	32.610	33.720
σ		0.446	0.484	11.750	506.400	469.400	0.230	0.826	0.482
%RSD		2.524	1.908	2.829	2.271	2.158	2.109	2.532	1.429
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	33.070	98.380	97.170	1.216	-0.364	2.625	0.000	10.880
2	22:45:18	33.200	101.900	101.800	0.949	-0.160	1.945	0.000	11.260
3	22:46:01	32.720	98.370	98.190	1.017	-0.336	1.501	0.000	10.900
X		32.990	99.560	99.070	1.061	-0.287	2.024	0.000	11.010
σ		0.247	2.055	2.460	0.139	0.111	0.566	0.000	0.218
%RSD		0.749	2.064	2.483	13.090	38.520	27.970	0.000	1.978
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	91.715%	0.183	0.169	81.709%	0.036	0.012	0.253	0.185
2	22:45:18	90.256%	0.235	0.203	80.255%	0.038	0.017	0.307	0.227
3	22:46:01	91.006%	0.189	0.179	80.552%	0.044	0.017	0.331	0.270
X		90.992%	0.202	0.184	80.839%	0.039	0.015	0.297	0.227
σ		0.730%	0.028	0.017	0.768%	0.004	0.003	0.040	0.043
%RSD		0.802	13.990	9.528	0.950	9.904	20.550	13.450	18.730
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:35	79.897%	1.159	-0.037	-0.031	60.950	60.900	81.660%	81.354%
2	22:45:18	78.838%	1.262	-0.013	-0.017	62.750	62.770	81.602%	80.919%
3	22:46:01	80.030%	1.145	-0.011	0.009	60.300	60.980	82.339%	82.524%
X		79.588%	1.189	-0.020	-0.013	61.340	61.550	81.867%	81.599%
σ		0.653%	0.064	0.015	0.020	1.270	1.056	0.409%	0.830%
%RSD		0.820	5.382	72.220	156.000	2.071	1.716	0.500	1.017
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:44:35	0.259	0.273	16.300	16.150	16.170	81.336%		
2	22:45:18	0.267	0.267	17.250	16.820	17.010	81.730%		
3	22:46:01	0.234	0.235	17.040	16.260	16.620	82.836%		
X		0.254	0.258	16.870	16.410	16.600	81.967%		
σ		0.018	0.020	0.502	0.358	0.423	0.778%		
%RSD		6.923	7.916	2.975	2.184	2.551	0.949		

240-18441-W-11-B DU

12/23/2012 10:48:09 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	87.273%	6.120	28.430	28.750	0.000	661.200	21770.000	22510.000
2	22:49:35	83.254%	6.258	28.780	29.670	0.000	695.400	22690.000	23540.000
3	22:50:18	81.504%	6.863	29.220	29.870	0.000	709.000	23520.000	24220.000
X		84.010%	6.414	28.810	29.430	0.000	688.500	22660.000	23420.000
σ		2.958%	0.395	0.394	0.595	0.000	24.580	875.300	859.500
%RSD		3.521	6.158	1.369	2.021	0.000	3.571	3.863	3.669
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	55970.000	1171.000	0.000	11770.000	7421.000	7220.000	90.177%	410.200
2	22:49:35	58360.000	1307.000	0.000	12730.000	7907.000	7738.000	79.197%	441.900
3	22:50:18	60630.000	1286.000	0.000	12900.000	8167.000	8005.000	74.935%	455.400
X		58320.000	1254.000	0.000	12470.000	7832.000	7654.000	81.436%	435.800
σ		2330.000	73.310	0.000	607.400	378.900	399.500	7.864%	23.200
%RSD		3.994	5.845	0.000	4.872	4.838	5.219	9.656	5.323
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	86.950	119.800	1672.000	105700.000	105300.000	52.130	153.500	163.100
2	22:49:35	90.420	129.100	1791.000	114500.000	113400.000	56.010	162.900	172.900
3	22:50:18	93.880	132.500	1867.000	116500.000	116000.000	56.630	166.100	177.200
X		90.410	127.100	1776.000	112200.000	111500.000	54.920	160.800	171.100
σ		3.465	6.571	98.440	5720.000	5565.000	2.439	6.555	7.237
%RSD		3.832	5.169	5.542	5.096	4.989	4.441	4.076	4.231
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	161.900	435.600	437.900	4.343	1.641	6.460	0.000	54.900
2	22:49:35	170.700	463.400	470.200	5.159	2.021	6.753	0.000	57.560
3	22:50:18	177.200	478.000	482.800	4.905	1.914	7.118	0.000	58.170
X		169.900	459.000	463.600	4.803	1.859	6.777	0.000	56.880
σ		7.713	21.520	23.160	0.418	0.196	0.330	0.000	1.739
%RSD		4.539	4.688	4.995	8.699	10.520	4.870	0.000	3.057
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	0.000	0.757	0.739	73.203%	0.341	0.135	2.145	1.515
2	22:49:35	0.000	0.824	0.772	71.115%	0.347	0.141	2.098	1.527
3	22:50:18	0.000	0.780	0.723	69.386%	0.332	0.139	1.774	1.265
X		0.000	0.787	0.745	71.235%	0.340	0.138	2.006	1.436
σ		0.000	0.034	0.025	1.912%	0.008	0.003	0.202	0.148
%RSD		0.000	4.307	3.384	2.683	2.220	2.188	10.080	10.300
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:52	72.246%	27.050	0.139	0.148	269.500	268.500	78.375%	76.758%
2	22:49:35	70.985%	27.500	0.188	0.182	272.500	271.300	77.943%	77.226%
3	22:50:18	69.764%	27.960	0.148	0.163	278.600	276.000	77.450%	76.227%
X		70.998%	27.510	0.158	0.164	273.500	271.900	77.922%	76.737%
σ		1.241%	0.457	0.026	0.017	4.593	3.801	0.463%	0.500%
%RSD		1.749	1.661	16.560	10.310	1.679	1.398	0.594	0.651
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:48:52	0.913	0.948	84.390	82.340	83.190	69.451%		
2	22:49:35	0.936	0.928	86.080	83.860	84.830	69.449%		
3	22:50:18	0.953	0.970	87.580	85.600	86.280	69.341%		
X		0.934	0.949	86.020	83.930	84.770	69.413%		
σ		0.020	0.021	1.593	1.629	1.547	0.063%		
%RSD		2.170	2.216	1.852	1.941	1.825	0.091		

240-18441-W-11-C MS

12/23/2012 10:52:27 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	75.127%	93.830	106.400	107.100	0.000	8893.000	31560.000	32350.000
2	22:53:53	71.575%	97.260	110.000	109.900	0.000	9164.000	32100.000	33430.000
3	22:54:36	69.449%	100.100	113.900	116.300	0.000	9318.000	32540.000	34430.000
x		72.051%	97.070	110.100	111.100	0.000	9125.000	32060.000	33400.000
σ		2.869%	3.141	3.749	4.744	0.000	214.900	492.100	1042.000
%RSD		3.981	3.236	3.405	4.269	0.000	2.356	1.535	3.118
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	95900.000	2228.000	0.000	22050.000	14700.000	14510.000	82.826%	329.100
2	22:53:53	100100.000	2276.000	0.000	22680.000	15470.000	15060.000	78.837%	343.500
3	22:54:36	103500.000	2328.000	0.000	23040.000	15500.000	15080.000	79.179%	342.000
x		99840.000	2277.000	0.000	22590.000	15220.000	14880.000	80.281%	338.200
σ		3804.000	49.910	0.000	503.500	454.800	322.400	2.211%	7.909
%RSD		3.810	2.192	0.000	2.229	2.987	2.166	2.754	2.338
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	177.700	221.400	1671.000	115000.000	114400.000	131.800	240.700	233.700
2	22:53:53	188.400	236.600	1766.000	123000.000	119900.000	138.200	252.200	246.100
3	22:54:36	187.300	231.700	1738.000	121400.000	119700.000	138.000	253.800	243.800
x		184.400	229.900	1725.000	119800.000	118000.000	136.000	248.900	241.200
σ		5.891	7.757	48.890	4222.000	3134.000	3.668	7.153	6.607
%RSD		3.194	3.374	2.834	3.524	2.657	2.697	2.874	2.739
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	233.600	560.000	565.100	70.220	71.100	76.840	0.000	172.700
2	22:53:53	243.700	589.900	598.400	76.380	75.220	81.820	0.000	183.100
3	22:54:36	242.200	585.600	592.200	76.240	75.420	81.470	0.000	182.300
x		239.800	578.500	585.200	74.280	73.920	80.040	0.000	179.400
σ		5.468	16.170	17.690	3.515	2.436	2.782	0.000	5.784
%RSD		2.280	2.796	3.023	4.732	3.296	3.476	0.000	3.224
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	0.000	69.970	69.790	70.281%	79.330	79.500	82.000	83.560
2	22:53:53	0.000	74.050	74.230	68.306%	83.190	83.230	86.520	87.110
3	22:54:36	0.000	74.040	74.260	68.281%	83.410	83.640	87.130	87.200
x		0.000	72.690	72.760	68.956%	81.980	82.120	85.220	85.960
σ		0.000	2.349	2.568	1.147%	2.296	2.281	2.803	2.075
%RSD		0.000	3.231	3.530	1.664	2.801	2.778	3.290	2.414
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:53:10	70.114%	78.810	19.170	19.480	403.200	402.600	74.218%	72.197%
2	22:53:53	69.979%	81.030	20.110	19.980	416.900	416.800	74.265%	72.955%
3	22:54:36	69.248%	81.620	20.200	20.130	416.300	417.000	74.296%	73.361%
x		69.780%	80.490	19.830	19.860	412.100	412.100	74.260%	72.837%
σ		0.466%	1.483	0.566	0.343	7.743	8.213	0.039%	0.591%
%RSD		0.668	1.843	2.856	1.726	1.879	1.993	0.053	0.811
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:53:10	74.380	74.270	174.300	175.300	174.300	67.847%		
2	22:53:53	77.710	77.790	181.400	182.000	181.400	68.679%		
3	22:54:36	78.290	77.830	182.000	182.600	181.800	69.425%		
x		76.790	76.630	179.200	180.000	179.200	68.650%		
σ		2.109	2.042	4.269	4.022	4.205	0.790%		
%RSD		2.746	2.664	2.382	2.235	2.347	1.150		

240-18441-W-11-A PDS 12/23/2012 10:56:46 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	77.614%	55.250	1001.000	1027.000	0.000	46740.000	67770.000	68760.000
2	22:58:11	77.329%	53.300	981.900	988.800	0.000	44390.000	64020.000	66240.000
3	22:58:54	78.436%	53.580	973.600	1007.000	0.000	45580.000	65110.000	67590.000
X		77.793%	54.040	985.600	1008.000	0.000	45570.000	65630.000	67530.000
σ		0.575%	1.058	14.300	18.970	0.000	1176.000	1933.000	1262.000
%RSD		0.739	1.958	1.451	1.883	0.000	2.579	2.944	1.869
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	64200.000	10820.000	0.000	56520.000	51480.000	53150.000	83.647%	1321.000
2	22:58:11	61790.000	10390.000	0.000	55200.000	50970.000	51880.000	82.575%	1277.000
3	22:58:54	63350.000	10610.000	0.000	56830.000	52660.000	54060.000	83.059%	1295.000
X		63110.000	10610.000	0.000	56180.000	51700.000	53030.000	83.094%	1298.000
σ		1223.000	211.900	0.000	865.200	866.400	1096.000	0.537%	22.260
%RSD		1.937	1.998	0.000	1.540	1.676	2.067	0.646	1.715
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	603.100	325.500	2614.000	112000.000	111200.000	549.500	628.800	397.800
2	22:58:11	581.500	314.800	2549.000	110400.000	109600.000	532.900	619.800	391.400
3	22:58:54	590.700	322.500	2608.000	110500.000	110300.000	540.000	627.700	401.800
X		591.800	320.900	2590.000	111000.000	110400.000	540.800	625.400	397.000
σ		10.800	5.538	35.860	914.800	784.800	8.295	4.887	5.267
%RSD		1.825	1.726	1.385	0.824	0.711	1.534	0.781	1.327
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	395.700	891.100	893.800	39.910	10.870	17.420	0.000	1064.000
2	22:58:11	393.600	886.000	890.500	40.770	10.720	16.780	0.000	1052.000
3	22:58:54	398.700	898.200	905.200	40.590	11.160	18.260	0.000	1068.000
X		396.000	891.800	896.500	40.420	10.920	17.490	0.000	1061.000
σ		2.546	6.084	7.678	0.452	0.226	0.746	0.000	8.400
%RSD		0.643	0.682	0.857	1.118	2.070	4.263	0.000	0.792
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	0.000	961.900	969.200	68.189%	48.170	47.850	48.840	43.080
2	22:58:11	0.000	960.600	962.900	69.511%	47.160	47.510	47.830	41.840
3	22:58:54	0.000	969.900	975.400	68.863%	48.310	48.070	48.040	41.780
X		0.000	964.100	969.200	68.855%	47.880	47.810	48.240	42.230
σ		0.000	5.001	6.228	0.661%	0.628	0.282	0.534	0.733
%RSD		0.000	0.519	0.643	0.960	1.312	0.591	1.107	1.737
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:57:28	69.179%	1917.000	428.800	425.700	2150.000	2151.000	74.234%	72.547%
2	22:58:11	70.989%	1889.000	420.600	418.300	2120.000	2119.000	76.376%	75.072%
3	22:58:54	70.754%	1919.000	427.200	426.300	2149.000	2138.000	77.157%	75.121%
X		70.307%	1908.000	425.500	423.400	2140.000	2136.000	75.922%	74.247%
σ		0.984%	16.540	4.312	4.449	17.120	16.090	1.513%	1.473%
%RSD		1.400	0.867	1.013	1.051	0.800	0.753	1.993	1.983
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:57:28	50.120	50.420	111.500	110.200	110.800	63.273%		
2	22:58:11	48.810	48.830	107.800	105.700	107.000	66.673%		
3	22:58:54	49.440	49.680	109.300	107.800	108.600	67.012%		
X		49.450	49.640	109.500	107.900	108.800	65.653%		
σ		0.656	0.796	1.883	2.256	1.945	2.068%		
%RSD		1.327	1.604	1.719	2.091	1.787	3.150		

240-18441-I-9-A 12/23/2012 11:03:58 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	71.812%	13.170	28.660	28.920	0.000	355.800	33140.000	34690.000
2	23:05:24	71.906%	12.860	28.100	28.860	0.000	361.300	33240.000	34280.000
3	23:06:07	70.973%	13.250	29.120	28.170	0.000	359.600	34030.000	35530.000
X		71.564%	13.100	28.630	28.650	0.000	358.900	33470.000	34830.000
σ		0.514%	0.204	0.511	0.418	0.000	2.787	485.400	639.800
%RSD		0.718	1.561	1.785	1.458	0.000	0.776	1.450	1.837
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	91270.000	2063.000	0.000	13620.000	5975.000	5765.000	74.033%	393.900
2	23:05:24	89410.000	2033.000	0.000	13580.000	5900.000	5864.000	73.094%	391.200
3	23:06:07	92130.000	2085.000	0.000	13950.000	6176.000	6039.000	71.911%	403.300
X		90940.000	2060.000	0.000	13720.000	6017.000	5889.000	73.013%	396.100
σ		1392.000	25.990	0.000	204.900	142.400	138.800	1.064%	6.327
%RSD		1.530	1.261	0.000	1.494	2.367	2.358	1.457	1.597
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	211.400	196.800	14600.000	767400.000	876400.000	155.400	356.800	298.100
2	23:05:24	210.400	195.500	14580.000	759300.000	869800.000	153.400	356.100	298.800
3	23:06:07	217.800	199.500	14720.000	770800.000	888000.000	158.500	363.400	303.100
X		213.200	197.300	14630.000	765800.000	878100.000	155.800	358.800	300.000
σ		4.052	2.044	75.650	5906.000	9244.000	2.565	4.059	2.682
%RSD		1.901	1.036	0.517	0.771	1.053	1.647	1.131	0.894
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	298.900	673.500	674.000	30.720	2.969	11.210	0.000	61.330
2	23:05:24	298.100	675.400	684.000	31.010	2.964	10.810	0.000	61.630
3	23:06:07	304.200	687.600	695.800	31.510	3.054	11.550	0.000	63.020
X		300.400	678.800	684.600	31.080	2.995	11.190	0.000	61.990
σ		3.336	7.686	10.930	0.402	0.050	0.370	0.000	0.905
%RSD		1.110	1.132	1.596	1.293	1.683	3.303	0.000	1.460
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	0.000	13.520	13.840	60.963%	0.379	0.233	2.758	2.151
2	23:05:24	0.000	13.440	13.560	60.890%	0.399	0.250	2.907	2.248
3	23:06:07	0.000	13.670	13.500	60.767%	0.419	0.260	2.509	2.022
X		0.000	13.540	13.630	60.873%	0.399	0.248	2.725	2.140
σ		0.000	0.119	0.182	0.099%	0.020	0.014	0.201	0.114
%RSD		0.000	0.880	1.338	0.163	5.105	5.521	7.379	5.305
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:04:41	62.389%	13.720	1.499	1.422	484.700	485.200	69.172%	69.823%
2	23:05:24	63.114%	11.670	1.479	1.400	482.900	481.300	70.526%	70.671%
3	23:06:07	62.948%	11.280	1.411	1.451	488.900	487.500	69.903%	70.695%
X		62.817%	12.220	1.463	1.424	485.500	484.700	69.867%	70.396%
σ		0.380%	1.310	0.046	0.026	3.045	3.126	0.678%	0.497%
%RSD		0.604	10.720	3.156	1.805	0.627	0.645	0.970	0.706
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:04:41	1.183	1.174	151.300	149.200	150.100	58.076%		
2	23:05:24	1.131	1.097	152.400	150.500	151.400	58.505%		
3	23:06:07	1.155	1.173	154.400	153.500	154.200	58.058%		
X		1.157	1.148	152.700	151.000	151.900	58.213%		
σ		0.026	0.044	1.563	2.209	2.095	0.253%		
%RSD		2.248	3.862	1.024	1.463	1.379	0.434		

CCV 664806 12/23/2012 11:11:11 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	78.560%	100.600	99.490	101.300	0.000	48440.000	46610.000	47180.000
2	23:12:37	77.298%	100.500	103.000	102.400	0.000	48980.000	47140.000	48800.000
3	23:13:20	73.554%	106.500	108.600	108.800	0.000	50610.000	48670.000	50560.000
x		76.471%	102.539%	103.714%	104.148%	0.000	98.684%	94.946%	97.696%
σ		2.604%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.405	3.365	4.432	3.877	0.000	2.291	2.251	3.466
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	480.100	5050.000	0.000	45830.000	46160.000	48450.000	82.442%	99.240
2	23:12:37	490.300	5121.000	0.000	47910.000	47770.000	49240.000	82.670%	100.500
3	23:13:20	510.100	5353.000	0.000	49070.000	49730.000	51210.000	82.262%	106.200
x		98.702%	103.489%	0.000	95.209%	95.775%	99.263%	82.458%	102.001%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.205%	n/a
%RSD		3.097	3.058	0.000	3.442	3.727	2.864	0.248	3.648
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	94.470	95.030	507.500	25390.000	25050.000	94.570	93.550	94.600
2	23:12:37	98.140	97.660	513.200	25640.000	25290.000	96.400	97.020	96.650
3	23:13:20	100.700	100.200	531.300	26670.000	26210.000	99.330	96.670	98.860
x		97.762%	97.626%	103.462%	103.599%	102.069%	96.767%	95.749%	96.704%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.196	2.638	2.405	2.608	2.406	2.483	1.994	2.203
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	94.470	99.960	101.300	96.230	99.710	101.500	0.000	93.780
2	23:12:37	95.610	101.600	103.100	98.340	101.400	105.800	0.000	95.700
3	23:13:20	97.530	104.400	104.600	101.700	105.200	107.500	0.000	98.890
x		95.871%	101.980%	102.998%	98.760%	102.100%	104.931%	0.000	96.120%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.613	2.208	1.598	2.799	2.722	2.934	0.000	2.684
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	74.867%	96.700	98.040	70.943%	96.090	96.130	98.700	100.600
2	23:12:37	76.458%	102.100	102.300	71.087%	98.420	98.990	100.900	102.900
3	23:13:20	76.330%	106.100	106.300	71.250%	101.900	103.500	104.900	107.400
x		75.885%	101.609%	102.215%	71.093%	98.804%	99.529%	101.493%	103.640%
σ		0.884%	n/a	n/a	0.154%	n/a	n/a	n/a	n/a
%RSD		1.164	4.623	4.043	0.216	2.962	3.714	3.101	3.303
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:11:54	70.200%	98.290	98.430	99.110	93.110	95.040	71.823%	72.248%
2	23:12:37	72.188%	100.700	101.000	100.400	96.360	96.250	74.059%	74.493%
3	23:13:20	72.236%	104.700	105.000	104.000	99.370	99.300	74.536%	75.047%
x		71.541%	101.232%	101.462%	101.165%	96.277%	96.864%	73.473%	73.929%
σ		1.162%	n/a	n/a	n/a	n/a	n/a	1.449%	1.483%
%RSD		1.624	3.190	3.253	2.480	3.252	2.263	1.972	2.006
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:11:54	93.500	93.090	93.760	93.770	93.510	69.735%		
2	23:12:37	96.410	96.500	96.400	96.480	96.330	71.494%		
3	23:13:20	99.190	99.240	99.620	100.200	99.500	72.405%		
x		96.367%	96.274%	96.595%	96.816%	96.447%	71.211%		
σ		n/a	n/a	n/a	n/a	n/a	1.357%		
%RSD		2.955	3.204	3.041	3.337	3.103	1.906		



CCB5 12/23/2012 11:19:08 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	94.035%	0.002	1.496	1.561	0.000	2.326	3.034	3.065
2	23:20:34	92.221%	0.018	1.345	1.371	0.000	1.990	2.798	2.904
3	23:21:17	93.505%	-0.011	1.086	1.328	0.000	1.458	2.550	2.987
X		93.254%	0.003	1.309	1.420	0.000	1.925	2.794	2.985
σ		0.933%	0.015	0.207	0.124	0.000	0.438	0.242	0.081
%RSD		1.000	458.400	15.850	8.728	0.000	22.740	8.679	2.704
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	2.408	-2.764	0.000	-8.843	30.180	27.480	101.557%	-0.076
2	23:20:34	2.415	-2.666	0.000	-10.100	31.920	28.770	100.374%	-0.000
3	23:21:17	2.197	-3.037	0.000	-11.340	32.230	27.850	99.704%	-0.079
X		2.340	-2.822	0.000	-10.090	31.440	28.030	100.545%	-0.052
σ		0.124	0.192	0.000	1.247	1.104	0.667	0.938%	0.045
%RSD		5.306	6.815	0.000	12.350	3.510	2.380	0.933	86.510
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	-0.001	-0.068	0.380	-2.712	13.450	-0.010	-0.011	-0.017
2	23:20:34	0.020	-0.043	0.380	-7.371	9.930	-0.008	-0.013	-0.025
3	23:21:17	-0.020	-0.082	0.341	-9.652	8.436	-0.010	-0.029	-0.037
X		-0.001	-0.064	0.367	-6.578	10.610	-0.009	-0.018	-0.026
σ		0.020	0.020	0.022	3.537	2.576	0.001	0.009	0.010
%RSD		3138.000	30.730	6.078	53.770	24.290	12.530	53.290	39.020
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	-0.021	-0.357	-0.432	-0.063	-0.703	0.043	0.000	0.020
2	23:20:34	-0.062	-0.305	-0.412	-0.013	-0.960	0.070	0.000	0.015
3	23:21:17	-0.053	-0.380	-0.488	0.106	-0.994	0.425	0.000	0.019
X		-0.046	-0.347	-0.444	0.010	-0.886	0.180	0.000	0.018
σ		0.022	0.039	0.039	0.087	0.159	0.213	0.000	0.003
%RSD		47.180	11.110	8.811	864.900	17.970	118.600	0.000	13.910
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	94.683%	0.252	0.254	88.458%	-0.008	-0.011	-0.088	-0.055
2	23:20:34	97.033%	0.206	0.179	89.108%	-0.002	-0.013	-0.041	-0.020
3	23:21:17	97.870%	0.145	0.170	90.593%	-0.006	-0.008	-0.100	-0.061
X		96.529%	0.201	0.201	89.386%	-0.006	-0.011	-0.077	-0.045
σ		1.652%	0.054	0.046	1.094%	0.003	0.002	0.031	0.022
%RSD		1.712	26.710	23.000	1.224	54.540	21.140	40.500	49.430
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:51	85.109%	-0.381	-0.030	-0.044	0.058	0.041	83.398%	83.452%
2	23:20:34	86.884%	-0.391	-0.053	-0.055	-0.000	0.018	86.848%	87.366%
3	23:21:17	89.047%	-0.347	-0.051	-0.036	0.024	0.057	88.191%	89.201%
X		87.013%	-0.373	-0.045	-0.045	0.027	0.038	86.145%	86.673%
σ		1.972%	0.023	0.013	0.009	0.029	0.020	2.473%	2.937%
%RSD		2.267	6.109	28.360	20.890	106.900	51.090	2.870	3.388
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:19:51	0.028	0.023	0.074	0.083	0.072	88.322%		
2	23:20:34	0.034	0.012	0.063	0.054	0.059	91.603%		
3	23:21:17	0.022	0.016	0.062	0.066	0.063	93.937%		
X		0.028	0.017	0.066	0.068	0.065	91.287%		
σ		0.006	0.005	0.007	0.014	0.007	2.821%		
%RSD		21.050	32.000	10.680	20.980	10.180	3.090		

240-18441-I-12-A 12/23/2012 11:23:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	92.534%	5.546	28.400	28.470	0.000	668.300	19330.000	19810.000
2	23:24:55	90.977%	5.790	29.420	30.130	0.000	672.800	19520.000	20410.000
3	23:25:38	90.251%	5.764	28.750	29.750	0.000	672.200	19620.000	20150.000
X		91.254%	5.700	28.860	29.450	0.000	671.100	19490.000	20120.000
σ		1.166%	0.134	0.518	0.867	0.000	2.487	147.000	302.100
%RSD		1.278	2.355	1.794	2.945	0.000	0.371	0.754	1.501
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	56870.000	1353.000	0.000	10730.000	7091.000	6905.000	98.955%	349.900
2	23:24:55	58570.000	1433.000	0.000	10680.000	7117.000	6946.000	97.782%	350.300
3	23:25:38	56720.000	1363.000	0.000	10640.000	7004.000	6974.000	95.410%	348.100
X		57390.000	1383.000	0.000	10680.000	7071.000	6942.000	97.382%	349.400
σ		1028.000	43.300	0.000	48.140	58.720	34.340	1.806%	1.187
%RSD		1.792	3.131	0.000	0.451	0.831	0.495	1.854	0.340
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	94.020	127.800	815.800	119100.000	118500.000	59.690	238.900	163.900
2	23:24:55	96.060	129.800	819.100	120500.000	120100.000	61.490	241.900	167.100
3	23:25:38	93.180	129.500	821.700	119200.000	120300.000	60.800	240.700	162.900
X		94.420	129.000	818.800	119600.000	119600.000	60.660	240.500	164.600
σ		1.481	1.100	2.966	796.600	1003.000	0.910	1.492	2.234
%RSD		1.568	0.853	0.362	0.666	0.839	1.500	0.620	1.357
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	166.000	325.300	328.700	9.947	1.745	6.650	0.000	48.980
2	23:24:55	166.000	328.200	329.300	10.320	1.804	6.798	0.000	49.230
3	23:25:38	162.500	324.700	328.800	10.600	1.594	6.523	0.000	49.410
X		164.800	326.100	328.900	10.290	1.714	6.657	0.000	49.210
σ		2.016	1.862	0.295	0.329	0.108	0.137	0.000	0.212
%RSD		1.223	0.571	0.090	3.197	6.305	2.060	0.000	0.430
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	0.000	0.878	0.887	79.839%	0.591	0.495	1.320	0.965
2	23:24:55	0.000	0.818	0.841	81.203%	0.598	0.487	1.524	1.151
3	23:25:38	0.000	0.784	0.755	78.817%	0.599	0.463	1.461	0.987
X		0.000	0.826	0.828	79.953%	0.596	0.482	1.435	1.035
σ		0.000	0.048	0.067	1.197%	0.005	0.017	0.105	0.102
%RSD		0.000	5.761	8.086	1.498	0.767	3.537	7.304	9.829
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:12	78.187%	8.866	0.800	0.807	157.800	155.800	82.763%	81.044%
2	23:24:55	79.652%	8.517	0.813	0.752	157.000	156.200	85.146%	83.297%
3	23:25:38	78.501%	8.633	0.782	0.761	156.800	156.100	83.774%	81.825%
X		78.780%	8.672	0.798	0.773	157.200	156.000	83.894%	82.056%
σ		0.771%	0.178	0.016	0.029	0.552	0.165	1.196%	1.144%
%RSD		0.979	2.049	1.956	3.785	0.351	0.106	1.426	1.394
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:24:12	1.036	1.011	100.600	98.750	99.450	73.564%		
2	23:24:55	1.061	1.041	100.000	99.160	99.590	75.545%		
3	23:25:38	1.062	1.034	101.600	100.000	100.800	74.029%		
X		1.053	1.028	100.700	99.310	99.930	74.380%		
σ		0.014	0.016	0.788	0.651	0.714	1.036%		
%RSD		1.373	1.522	0.782	0.655	0.715	1.393		

240-18441-I-13-A 12/23/2012 11:27:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	86.462%	6.753	30.680	31.380	0.000	729.200	23210.000	23840.000
2	23:29:14	84.126%	6.430	30.510	30.250	0.000	697.400	22180.000	22990.000
3	23:29:57	81.744%	6.131	30.930	30.230	0.000	699.300	22350.000	23330.000
X		84.111%	6.438	30.710	30.620	0.000	708.600	22580.000	23390.000
σ		2.359%	0.311	0.210	0.658	0.000	17.870	551.500	423.900
%RSD		2.805	4.832	0.683	2.149	0.000	2.522	2.442	1.813
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	61450.000	1248.000	0.000	12650.000	7915.000	7591.000	90.684%	350.700
2	23:29:14	60140.000	1187.000	0.000	12350.000	7683.000	7570.000	85.661%	355.600
3	23:29:57	60390.000	1287.000	0.000	12480.000	7943.000	7633.000	82.822%	356.200
X		60660.000	1240.000	0.000	12490.000	7847.000	7598.000	86.389%	354.200
σ		693.400	50.420	0.000	146.400	142.500	32.210	3.982%	3.009
%RSD		1.143	4.064	0.000	1.172	1.815	0.424	4.609	0.850
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	83.460	125.900	1993.000	113100.000	112700.000	59.090	168.900	151.700
2	23:29:14	86.340	126.800	1994.000	113500.000	113900.000	59.740	168.900	149.200
3	23:29:57	85.270	126.600	2025.000	112900.000	111900.000	58.420	168.500	150.400
X		85.020	126.400	2004.000	113100.000	112800.000	59.080	168.800	150.400
σ		1.456	0.446	17.810	310.000	990.000	0.662	0.231	1.233
%RSD		1.713	0.352	0.889	0.274	0.877	1.121	0.137	0.820
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	151.300	443.300	447.900	4.858	1.959	7.104	0.000	64.940
2	23:29:14	150.600	447.800	453.700	4.391	1.909	6.154	0.000	65.640
3	23:29:57	149.500	450.100	453.200	5.537	1.740	7.019	0.000	65.770
X		150.500	447.100	451.600	4.929	1.869	6.759	0.000	65.450
σ		0.921	3.472	3.239	0.577	0.115	0.525	0.000	0.448
%RSD		0.612	0.777	0.717	11.700	6.151	7.773	0.000	0.685
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	0.000	0.868	0.902	74.529%	0.341	0.155	1.754	1.225
2	23:29:14	0.000	0.950	0.927	72.303%	0.339	0.142	1.879	1.322
3	23:29:57	0.000	0.903	0.884	70.758%	0.341	0.149	2.065	1.522
X		0.000	0.907	0.905	72.530%	0.341	0.149	1.900	1.356
σ		0.000	0.041	0.022	1.896%	0.001	0.006	0.157	0.151
%RSD		0.000	4.567	2.377	2.614	0.273	4.353	8.240	11.140
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:31	73.704%	7.479	0.176	0.161	395.100	397.200	79.921%	77.530%
2	23:29:14	71.659%	7.511	0.173	0.195	399.400	397.100	79.106%	77.667%
3	23:29:57	70.182%	7.585	0.165	0.151	400.300	399.500	78.647%	77.437%
X		71.849%	7.525	0.172	0.169	398.300	397.900	79.225%	77.545%
σ		1.769%	0.054	0.006	0.023	2.827	1.384	0.645%	0.116%
%RSD		2.462	0.723	3.302	13.520	0.710	0.348	0.814	0.149
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:28:31	0.867	0.893	86.020	84.370	84.810	69.685%		
2	23:29:14	0.888	0.909	87.290	85.150	86.120	70.222%		
3	23:29:57	0.956	0.938	86.780	84.360	85.770	70.513%		
X		0.903	0.913	86.700	84.630	85.570	70.140%		
σ		0.047	0.023	0.638	0.453	0.678	0.420%		
%RSD		5.168	2.493	0.736	0.535	0.792	0.599		

240-18441-I-14-A 12/23/2012 11:32:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	85.464%	5.333	28.530	28.620	0.000	649.800	19050.000	19780.000
2	23:33:33	81.938%	5.371	29.020	29.970	0.000	653.600	18970.000	20110.000
3	23:34:16	82.522%	5.573	28.470	29.620	0.000	666.700	20040.000	20720.000
X		83.308%	5.426	28.670	29.410	0.000	656.700	19350.000	20200.000
σ		1.890%	0.129	0.299	0.700	0.000	8.869	595.300	477.200
%RSD		2.269	2.383	1.042	2.380	0.000	1.351	3.076	2.362
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	49710.000	1421.000	0.000	11690.000	6660.000	6371.000	87.633%	436.700
2	23:33:33	50370.000	1448.000	0.000	11670.000	6494.000	6434.000	82.344%	445.000
3	23:34:16	52290.000	1530.000	0.000	12260.000	6959.000	6827.000	76.913%	469.200
X		50790.000	1466.000	0.000	11870.000	6705.000	6544.000	82.297%	450.300
σ		1338.000	56.590	0.000	332.200	235.600	247.200	5.360%	16.870
%RSD		2.635	3.859	0.000	2.798	3.515	3.777	6.513	3.747
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	69.880	99.330	1262.000	90930.000	89730.000	45.870	125.600	127.400
2	23:33:33	71.230	101.200	1291.000	92860.000	91950.000	46.490	127.800	129.900
3	23:34:16	75.600	106.700	1353.000	97510.000	96180.000	48.850	132.400	134.400
X		72.230	102.400	1302.000	93770.000	92620.000	47.070	128.600	130.600
σ		2.991	3.817	46.550	3381.000	3275.000	1.573	3.444	3.539
%RSD		4.141	3.727	3.575	3.606	3.536	3.342	2.678	2.710
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	128.100	378.600	380.200	3.917	1.472	6.682	0.000	53.070
2	23:33:33	129.100	384.900	390.000	4.430	1.649	7.177	0.000	54.010
3	23:34:16	135.100	402.500	406.600	4.116	1.679	7.189	0.000	55.230
X		130.800	388.700	392.300	4.154	1.600	7.016	0.000	54.100
σ		3.792	12.420	13.350	0.259	0.112	0.290	0.000	1.085
%RSD		2.900	3.195	3.402	6.227	7.008	4.128	0.000	2.006
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	0.000	0.525	0.486	72.367%	0.301	0.121	1.916	1.388
2	23:33:33	0.000	0.459	0.473	71.653%	0.314	0.140	1.812	1.246
3	23:34:16	0.000	0.497	0.555	70.759%	0.292	0.127	1.792	1.295
X		0.000	0.494	0.505	71.593%	0.303	0.129	1.840	1.310
σ		0.000	0.033	0.044	0.805%	0.011	0.009	0.067	0.072
%RSD		0.000	6.733	8.766	1.125	3.625	7.263	3.629	5.520
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:32:50	71.294%	6.474	0.112	0.121	296.900	296.800	78.416%	76.821%
2	23:33:33	71.628%	6.650	0.128	0.130	298.900	297.800	79.580%	77.695%
3	23:34:16	70.597%	6.582	0.131	0.133	298.700	300.600	79.035%	77.494%
X		71.173%	6.569	0.124	0.128	298.200	298.400	79.010%	77.336%
σ		0.526%	0.089	0.010	0.006	1.106	1.972	0.582%	0.458%
%RSD		0.739	1.350	8.032	5.038	0.371	0.661	0.737	0.592
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:32:50	0.761	0.744	88.220	86.030	87.020	69.505%		
2	23:33:33	0.769	0.764	89.090	87.370	87.860	70.801%		
3	23:34:16	0.788	0.793	90.630	87.700	89.240	70.005%		
X		0.773	0.767	89.310	87.030	88.040	70.104%		
σ		0.014	0.025	1.223	0.888	1.120	0.653%		
%RSD		1.790	3.239	1.370	1.020	1.272	0.932		

240-18441-J-15-A 12/23/2012 11:36:27 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	80.501%	7.030	32.630	34.390	0.000	744.600	23280.000	23990.000
2	23:37:53	80.082%	7.037	33.910	35.500	0.000	795.400	25040.000	26290.000
3	23:38:36	77.325%	7.422	35.880	35.300	0.000	736.200	23380.000	24680.000
X		79.303%	7.163	34.140	35.060	0.000	758.700	23900.000	24980.000
σ		1.726%	0.225	1.640	0.594	0.000	32.060	991.400	1179.000
%RSD		2.176	3.134	4.803	1.693	0.000	4.226	4.148	4.721
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	68040.000	1355.000	0.000	13560.000	7472.000	7322.000	83.666%	330.700
2	23:37:53	74190.000	1446.000	0.000	15340.000	8520.000	8462.000	68.916%	382.700
3	23:38:36	70950.000	1374.000	0.000	14020.000	7890.000	7887.000	74.429%	351.900
X		71060.000	1392.000	0.000	14310.000	7961.000	7890.000	75.670%	355.100
σ		3076.000	48.110	0.000	928.600	527.200	569.800	7.453%	26.150
%RSD		4.328	3.456	0.000	6.491	6.622	7.221	9.849	7.364
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	89.110	134.500	2321.000	114900.000	114300.000	58.190	179.200	162.400
2	23:37:53	104.300	156.700	2696.000	133700.000	133100.000	66.410	202.300	180.900
3	23:38:36	95.650	144.200	2500.000	123900.000	122800.000	61.310	189.300	169.700
X		96.360	145.100	2506.000	124200.000	123400.000	61.970	190.300	171.000
σ		7.638	11.120	187.400	9418.000	9423.000	4.150	11.570	9.303
%RSD		7.926	7.665	7.477	7.584	7.637	6.696	6.080	5.441
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	158.600	444.500	452.300	5.188	1.915	6.986	0.000	66.650
2	23:37:53	178.500	500.200	504.800	5.333	2.270	7.589	0.000	70.980
3	23:38:36	170.200	477.200	483.500	5.812	2.027	6.803	0.000	70.300
X		169.100	474.000	480.200	5.444	2.071	7.126	0.000	69.310
σ		9.982	28.000	26.400	0.327	0.182	0.412	0.000	2.327
%RSD		5.903	5.908	5.499	5.998	8.773	5.777	0.000	3.357
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	0.000	0.868	0.884	69.746%	0.364	0.201	2.143	1.566
2	23:37:53	0.000	0.945	0.869	68.846%	0.390	0.178	2.172	1.566
3	23:38:36	0.000	0.898	0.876	67.666%	0.375	0.214	1.973	1.452
X		0.000	0.903	0.876	68.753%	0.376	0.198	2.096	1.528
σ		0.000	0.039	0.008	1.043%	0.013	0.018	0.107	0.066
%RSD		0.000	4.267	0.866	1.517	3.508	9.196	5.106	4.300
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:37:10	68.872%	7.171	0.172	0.171	317.800	319.900	75.886%	74.174%
2	23:37:53	68.619%	7.204	0.186	0.199	321.500	321.500	76.799%	74.996%
3	23:38:36	68.043%	7.214	0.136	0.204	320.400	325.400	76.936%	75.395%
X		68.511%	7.197	0.165	0.191	319.900	322.300	76.541%	74.855%
σ		0.425%	0.022	0.026	0.018	1.878	2.821	0.571%	0.623%
%RSD		0.620	0.311	15.840	9.354	0.587	0.875	0.746	0.832
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:37:10	0.921	0.915	90.490	88.120	89.250	68.268%		
2	23:37:53	0.958	0.950	90.740	88.670	89.950	69.788%		
3	23:38:36	0.984	0.943	92.150	89.810	90.860	69.397%		
X		0.954	0.936	91.130	88.870	90.020	69.151%		
σ		0.032	0.018	0.898	0.863	0.810	0.789%		
%RSD		3.333	1.922	0.985	0.971	0.900	1.141		

240-18441-I-16-A 12/23/2012 11:40:47 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	75.679%	6.545	28.730	29.210	0.000	712.400	20410.000	21030.000
2	23:42:13	76.201%	6.348	26.630	27.530	0.000	657.600	19520.000	20200.000
3	23:42:56	72.516%	6.665	28.490	29.550	0.000	687.700	20170.000	21120.000
x		74.799%	6.519	27.950	28.760	0.000	685.900	20030.000	20780.000
σ		1.994%	0.160	1.147	1.082	0.000	27.440	457.400	507.900
%RSD		2.665	2.460	4.105	3.763	0.000	4.000	2.283	2.444
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	62680.000	1367.000	0.000	12810.000	7050.000	6883.000	71.449%	361.400
2	23:42:13	60430.000	1314.000	0.000	12390.000	6998.000	6637.000	70.721%	337.300
3	23:42:56	62690.000	1408.000	0.000	12400.000	6866.000	6651.000	71.079%	357.700
x		61930.000	1363.000	0.000	12530.000	6971.000	6724.000	71.083%	352.100
σ		1305.000	47.040	0.000	238.900	94.970	138.000	0.364%	12.990
%RSD		2.107	3.451	0.000	1.906	1.362	2.053	0.512	3.689
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	82.610	116.200	1556.000	99890.000	98550.000	49.950	148.100	140.600
2	23:42:13	76.770	113.300	1500.000	96050.000	95350.000	48.480	142.500	134.500
3	23:42:56	80.600	117.300	1550.000	99720.000	98790.000	50.290	147.900	140.200
x		80.000	115.600	1535.000	98550.000	97560.000	49.580	146.200	138.400
σ		2.966	2.031	30.750	2168.000	1917.000	0.965	3.180	3.456
%RSD		3.708	1.757	2.003	2.200	1.965	1.946	2.176	2.496
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	137.900	463.700	469.300	3.968	1.746	7.159	0.000	65.830
2	23:42:13	132.800	448.100	454.700	3.345	1.521	6.126	0.000	65.310
3	23:42:56	138.000	466.400	471.600	4.008	1.997	6.331	0.000	68.680
x		136.300	459.400	465.200	3.774	1.755	6.539	0.000	66.610
σ		2.966	9.915	9.121	0.372	0.238	0.547	0.000	1.813
%RSD		2.177	2.158	1.961	9.854	13.550	8.361	0.000	2.722
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	0.000	0.475	0.466	68.771%	0.195	0.090	1.335	0.970
2	23:42:13	0.000	0.546	0.478	68.846%	0.214	0.092	1.396	1.034
3	23:42:56	0.000	0.533	0.521	67.533%	0.202	0.100	1.560	1.196
x		0.000	0.518	0.488	68.383%	0.204	0.094	1.430	1.067
σ		0.000	0.038	0.029	0.737%	0.009	0.005	0.117	0.117
%RSD		0.000	7.369	5.918	1.078	4.625	5.719	8.146	10.940
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:30	67.884%	6.225	0.130	0.139	298.600	296.000	74.933%	73.349%
2	23:42:13	69.230%	6.299	0.099	0.095	291.000	290.200	76.736%	75.357%
3	23:42:56	67.649%	6.353	0.146	0.118	300.800	302.100	76.058%	74.183%
x		68.255%	6.293	0.125	0.117	296.800	296.100	75.909%	74.296%
σ		0.853%	0.064	0.024	0.022	5.143	5.904	0.911%	1.008%
%RSD		1.250	1.025	18.860	18.610	1.733	1.994	1.200	1.357
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:41:30	0.663	0.659	70.640	68.400	69.300	70.703%		
2	23:42:13	0.688	0.647	68.930	66.990	67.670	72.743%		
3	23:42:56	0.712	0.718	72.420	70.100	71.460	71.667%		
x		0.688	0.675	70.660	68.500	69.480	71.705%		
σ		0.025	0.038	1.747	1.558	1.898	1.021%		
%RSD		3.578	5.668	2.472	2.274	2.732	1.423		

240-18441-I-17-A 12/23/2012 11:45:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	81.369%	5.503	25.810	26.380	0.000	594.500	18540.000	19210.000
2	23:46:34	81.834%	5.416	24.560	26.220	0.000	605.800	19210.000	19850.000
3	23:47:17	79.099%	5.562	26.910	27.040	0.000	602.100	19280.000	20430.000
X		80.768%	5.493	25.760	26.550	0.000	600.800	19010.000	19830.000
σ		1.463%	0.074	1.175	0.432	0.000	5.765	408.700	608.700
%RSD		1.812	1.339	4.561	1.628	0.000	0.960	2.149	3.069
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	48970.000	1170.000	0.000	10800.000	6720.000	6462.000	82.076%	403.500
2	23:46:34	50330.000	1228.000	0.000	11410.000	7152.000	6932.000	74.302%	436.900
3	23:47:17	51750.000	1271.000	0.000	11520.000	7258.000	7102.000	73.595%	445.600
X		50350.000	1223.000	0.000	11240.000	7043.000	6832.000	76.658%	428.700
σ		1386.000	51.160	0.000	390.700	285.000	331.300	4.706%	22.220
%RSD		2.753	4.182	0.000	3.475	4.046	4.850	6.139	5.185
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	72.520	101.000	1039.000	93750.000	92240.000	44.950	129.300	135.400
2	23:46:34	78.210	108.700	1101.000	99460.000	98440.000	47.520	132.100	140.000
3	23:47:17	81.330	109.800	1125.000	101200.000	100200.000	48.500	137.400	144.600
X		77.350	106.500	1088.000	98150.000	96970.000	46.990	132.900	140.000
σ		4.466	4.827	44.290	3914.000	4193.000	1.829	4.080	4.609
%RSD		5.774	4.531	4.070	3.988	4.324	3.893	3.069	3.292
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	135.900	378.400	382.700	3.638	1.401	5.590	0.000	52.140
2	23:46:34	139.800	401.100	406.500	4.237	1.493	5.536	0.000	52.850
3	23:47:17	143.000	403.500	408.700	4.664	1.281	5.935	0.000	53.450
X		139.600	394.300	399.300	4.180	1.392	5.687	0.000	52.820
σ		3.522	13.880	14.430	0.515	0.106	0.217	0.000	0.653
%RSD		2.524	3.521	3.615	12.330	7.609	3.808	0.000	1.236
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	0.000	0.554	0.508	69.301%	0.329	0.102	2.167	1.570
2	23:46:34	0.000	0.487	0.459	69.524%	0.321	0.100	1.863	1.306
3	23:47:17	0.000	0.525	0.509	68.912%	0.302	0.097	1.761	1.227
X		0.000	0.522	0.492	69.246%	0.317	0.100	1.930	1.368
σ		0.000	0.033	0.028	0.310%	0.014	0.003	0.211	0.180
%RSD		0.000	6.411	5.793	0.447	4.364	2.828	10.960	13.130
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:45:51	68.384%	7.191	0.114	0.102	284.000	283.400	74.999%	73.368%
2	23:46:34	69.059%	7.021	0.100	0.105	283.100	281.500	75.817%	75.100%
3	23:47:17	68.650%	7.370	0.102	0.106	284.100	286.200	75.998%	74.829%
X		68.698%	7.194	0.106	0.104	283.700	283.700	75.605%	74.432%
σ		0.340%	0.174	0.008	0.002	0.551	2.359	0.532%	0.932%
%RSD		0.495	2.424	7.218	1.516	0.194	0.831	0.704	1.252
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:45:51	0.775	0.765	74.360	72.590	73.410	68.268%		
2	23:46:34	0.785	0.752	74.210	72.510	73.300	70.006%		
3	23:47:17	0.806	0.766	75.240	72.860	74.200	69.641%		
X		0.789	0.761	74.600	72.650	73.640	69.305%		
σ		0.016	0.008	0.559	0.183	0.488	0.917%		
%RSD		2.025	1.035	0.750	0.252	0.663	1.323		

240-18441-E-21-A 12/23/2012 11:49:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	78.906%	5.389	29.380	30.460	0.000	744.000	30110.000	31610.000
2	23:50:55	76.120%	5.644	29.930	29.840	0.000	731.500	30930.000	32420.000
3	23:51:38	76.631%	5.730	29.740	29.950	0.000	718.100	30330.000	31350.000
X		77.219%	5.588	29.680	30.080	0.000	731.200	30460.000	31790.000
σ		1.483%	0.177	0.280	0.333	0.000	12.950	424.400	557.400
%RSD		1.921	3.172	0.945	1.105	0.000	1.771	1.394	1.753
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	102400.000	2507.000	0.000	11140.000	39360.000	40850.000	73.333%	715.700
2	23:50:55	103400.000	2549.000	0.000	11320.000	39990.000	41770.000	72.320%	738.300
3	23:51:38	99590.000	2431.000	0.000	10940.000	39090.000	40430.000	73.184%	699.100
X		101800.000	2496.000	0.000	11130.000	39480.000	41020.000	72.946%	717.700
σ		1991.000	59.710	0.000	193.300	462.800	681.500	0.547%	19.670
%RSD		1.956	2.393	0.000	1.736	1.172	1.661	0.750	2.740
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	165.800	207.800	3644.000	275600.000	280000.000	103.200	267.700	219.700
2	23:50:55	168.800	213.900	3685.000	274400.000	282000.000	105.600	273.400	226.300
3	23:51:38	161.800	207.100	3593.000	273000.000	275500.000	104.000	265.200	221.100
X		165.500	209.600	3641.000	274300.000	279200.000	104.300	268.700	222.400
σ		3.479	3.716	45.970	1318.000	3357.000	1.220	4.198	3.492
%RSD		2.102	1.773	1.263	0.480	1.203	1.171	1.562	1.570
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	219.100	736.200	739.100	131.600	2.197	9.136	0.000	146.700
2	23:50:55	224.300	752.600	758.400	134.300	2.080	8.396	0.000	149.800
3	23:51:38	219.200	740.000	750.200	131.600	2.210	7.916	0.000	148.600
X		220.900	742.900	749.300	132.500	2.162	8.483	0.000	148.400
σ		2.979	8.567	9.672	1.568	0.072	0.614	0.000	1.567
%RSD		1.349	1.153	1.291	1.184	3.324	7.240	0.000	1.056
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	0.000	12.050	11.790	66.100%	0.307	0.117	2.906	2.240
2	23:50:55	0.000	12.470	12.170	66.003%	0.312	0.119	2.749	2.130
3	23:51:38	0.000	12.240	12.330	66.159%	0.269	0.152	2.750	2.137
X		0.000	12.250	12.100	66.087%	0.296	0.130	2.802	2.169
σ		0.000	0.208	0.274	0.079%	0.023	0.020	0.090	0.062
%RSD		0.000	1.699	2.261	0.119	7.915	15.350	3.222	2.844
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:12	66.115%	9.589	0.890	0.856	535.600	538.000	72.042%	70.945%
2	23:50:55	67.040%	9.772	0.929	0.895	545.100	545.300	73.021%	71.695%
3	23:51:38	67.646%	10.050	0.865	0.863	535.300	537.200	74.044%	73.071%
X		66.934%	9.804	0.895	0.871	538.700	540.200	73.036%	71.904%
σ		0.771%	0.233	0.032	0.021	5.555	4.466	1.001%	1.078%
%RSD		1.152	2.375	3.608	2.441	1.031	0.827	1.371	1.500
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:50:12	1.410	1.381	161.200	159.000	160.000	63.948%		
2	23:50:55	1.427	1.478	167.600	163.300	165.400	64.476%		
3	23:51:38	1.467	1.466	166.300	161.100	163.400	65.255%		
X		1.435	1.442	165.100	161.100	162.900	64.559%		
σ		0.029	0.053	3.362	2.143	2.730	0.658%		
%RSD		2.050	3.686	2.037	1.330	1.676	1.018		



240-18441-E-21-A SD@5 12/23/2012 11:53:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	81.006%	1.063	6.677	6.473	0.000	142.000	4045.000	6262.000
2	23:55:14	77.835%	1.114	6.050	6.610	0.000	142.300	4477.000	6363.000
3	23:55:57	78.080%	1.107	5.949	6.475	0.000	136.900	4531.000	6090.000
x		78.974%	1.095	6.225	6.519	0.000	140.400	4351.000	6238.000
σ		1.764%	0.028	0.395	0.078	0.000	3.055	266.600	138.100
%RSD		2.234	2.557	6.337	1.204	0.000	2.176	6.128	2.213
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	20040.000	492.800	0.000	2191.000	7690.000	7654.000	72.794%	142.800
2	23:55:14	20700.000	510.700	0.000	2256.000	8047.000	7936.000	70.476%	144.700
3	23:55:57	19790.000	488.800	0.000	2102.000	7382.000	7365.000	73.186%	138.800
x		20170.000	497.400	0.000	2183.000	7706.000	7651.000	72.152%	142.100
σ		470.400	11.660	0.000	77.110	332.800	285.700	1.465%	2.991
%RSD		2.332	2.345	0.000	3.532	4.319	3.734	2.030	2.105
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	32.250	41.150	715.600	55900.000	54850.000	19.830	52.840	43.960
2	23:55:14	33.170	42.410	741.500	57840.000	55910.000	20.640	54.680	45.680
3	23:55:57	31.610	39.170	690.700	54210.000	52950.000	19.220	51.220	43.430
x		32.340	40.910	715.900	55980.000	54570.000	19.900	52.920	44.360
σ		0.782	1.634	25.410	1815.000	1502.000	0.713	1.734	1.177
%RSD		2.418	3.994	3.549	3.243	2.753	3.581	3.276	2.653
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	43.320	157.800	162.800	27.500	-0.470	2.290	0.000	25.520
2	23:55:14	45.470	168.100	167.500	28.470	-0.356	2.676	0.000	26.160
3	23:55:57	42.510	155.800	155.100	26.060	-0.339	1.307	0.000	25.200
x		43.770	160.600	161.800	27.340	-0.389	2.091	0.000	25.630
σ		1.529	6.602	6.240	1.211	0.072	0.706	0.000	0.487
%RSD		3.493	4.112	3.856	4.431	18.410	33.740	0.000	1.901
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	79.896%	2.101	2.066	72.504%	0.027	0.009	0.537	0.458
2	23:55:14	78.711%	2.266	2.247	71.023%	0.049	0.019	0.429	0.381
3	23:55:57	80.348%	2.115	2.185	72.044%	0.038	0.015	0.517	0.370
x		79.652%	2.161	2.166	71.857%	0.038	0.014	0.495	0.403
σ		0.846%	0.092	0.092	0.758%	0.011	0.005	0.058	0.048
%RSD		1.062	4.246	4.228	1.055	28.270	33.490	11.650	11.890
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:54:31	70.382%	1.572	0.119	0.137	106.400	106.300	73.440%	73.357%
2	23:55:14	69.842%	1.646	0.125	0.131	109.700	110.700	73.904%	74.317%
3	23:55:57	71.263%	1.446	0.123	0.109	105.000	104.900	75.555%	75.975%
x		70.495%	1.555	0.122	0.126	107.000	107.300	74.300%	74.550%
σ		0.717%	0.101	0.003	0.015	2.410	3.055	1.112%	1.324%
%RSD		1.017	6.512	2.385	11.810	2.252	2.848	1.496	1.776
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:54:31	0.266	0.268	31.750	30.660	31.120	72.709%		
2	23:55:14	0.265	0.284	32.870	32.030	32.320	73.184%		
3	23:55:57	0.270	0.258	31.220	30.400	30.640	75.060%		
x		0.267	0.270	31.950	31.030	31.360	73.651%		
σ		0.002	0.013	0.841	0.879	0.869	1.243%		
%RSD		0.841	4.808	2.633	2.834	2.770	1.688		

240-18441-E-21-B DU 12/23/2012 11:58:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	79.954%	5.620	34.620	34.670	0.000	771.100	30660.000	31190.000
2	23:59:32	77.870%	5.835	33.920	35.860	0.000	789.900	30730.000	31700.000
3	00:00:15	76.596%	5.837	35.050	35.440	0.000	797.500	31480.000	32910.000
x		78.140%	5.764	34.530	35.320	0.000	786.200	30960.000	31930.000
σ		1.696%	0.125	0.572	0.604	0.000	13.600	456.100	886.500
%RSD		2.170	2.162	1.657	1.710	0.000	1.730	1.473	2.776
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	103500.000	1918.000	0.000	12120.000	44120.000	45580.000	77.607%	610.600
2	23:59:32	104100.000	1931.000	0.000	12340.000	45620.000	47460.000	73.851%	628.600
3	00:00:15	108200.000	1978.000	0.000	12670.000	48020.000	49410.000	70.136%	662.200
x		105300.000	1942.000	0.000	12380.000	45920.000	47480.000	73.865%	633.800
σ		2566.000	31.620	0.000	276.500	1966.000	1919.000	3.735%	26.210
%RSD		2.438	1.628	0.000	2.234	4.281	4.042	5.057	4.136
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	163.100	210.100	3824.000	276700.000	283500.000	109.300	268.500	214.900
2	23:59:32	169.600	215.200	3916.000	285000.000	291300.000	112.500	272.500	224.400
3	00:00:15	176.300	225.600	4126.000	294600.000	301200.000	118.200	286.000	233.200
x		169.700	217.000	3955.000	285400.000	292000.000	113.300	275.700	224.200
σ		6.611	7.885	154.600	8977.000	8871.000	4.486	9.182	9.137
%RSD		3.896	3.635	3.908	3.145	3.038	3.958	3.331	4.075
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	216.300	759.000	766.700	132.800	2.318	8.049	0.000	166.400
2	23:59:32	223.300	783.600	785.400	135.300	2.506	7.701	0.000	170.800
3	00:00:15	229.600	811.100	815.100	140.900	2.441	8.977	0.000	174.300
x		223.100	784.600	789.100	136.300	2.422	8.242	0.000	170.500
σ		6.647	26.040	24.410	4.177	0.095	0.660	0.000	3.951
%RSD		2.980	3.320	3.093	3.064	3.940	8.003	0.000	2.317
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	0.000	12.640	12.790	66.676%	0.307	0.155	2.647	2.111
2	23:59:32	0.000	12.760	12.970	66.344%	0.272	0.150	2.444	2.026
3	00:00:15	0.000	13.230	13.390	65.812%	0.263	0.142	2.621	2.161
x		0.000	12.880	13.050	66.277%	0.281	0.149	2.571	2.099
σ		0.000	0.312	0.309	0.436%	0.023	0.007	0.111	0.068
%RSD		0.000	2.424	2.366	0.658	8.272	4.522	4.301	3.234
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:58:49	67.098%	9.789	1.057	1.020	542.400	544.100	72.181%	71.135%
2	23:59:32	66.725%	9.903	1.084	1.201	546.400	546.600	73.579%	72.435%
3	00:00:15	66.920%	10.090	1.102	1.073	554.300	555.900	73.317%	72.665%
x		66.914%	9.926	1.081	1.098	547.700	548.800	73.026%	72.078%
σ		0.187%	0.149	0.023	0.093	6.037	6.197	0.743%	0.825%
%RSD		0.279	1.505	2.101	8.436	1.102	1.129	1.018	1.145
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:58:49	1.374	1.398	166.800	162.800	164.400	63.853%		
2	23:59:32	1.423	1.441	167.400	164.600	165.700	65.166%		
3	00:00:15	1.407	1.484	171.700	168.200	169.100	65.060%		
x		1.401	1.441	168.600	165.200	166.400	64.693%		
σ		0.025	0.043	2.660	2.742	2.443	0.729%		
%RSD		1.791	2.985	1.577	1.660	1.468	1.127		

240-18441-E-21-C MS 12/24/2012 12:02:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	71.316%	94.440	122.900	121.300	0.000	9401.000	42080.000	43630.000
2	00:03:50	69.961%	97.620	125.600	127.800	0.000	10140.000	46130.000	47950.000
3	00:04:33	71.052%	93.950	124.800	128.800	0.000	9885.000	44300.000	46410.000
X		70.776%	95.340	124.500	126.000	0.000	9809.000	44170.000	46000.000
σ		0.719%	1.991	1.404	4.093	0.000	375.800	2031.000	2191.000
%RSD		1.015	2.089	1.128	3.250	0.000	3.831	4.597	4.763
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	137500.000	1489.000	0.000	23720.000	51690.000	53990.000	79.178%	669.000
2	00:03:50	152300.000	1571.000	0.000	27850.000	61440.000	62790.000	68.050%	781.100
3	00:04:33	146500.000	1473.000	0.000	26890.000	60380.000	61410.000	69.335%	748.500
X		145400.000	1511.000	0.000	26150.000	57840.000	59400.000	72.187%	732.900
σ		7471.000	52.650	0.000	2162.000	5352.000	4730.000	6.088%	57.660
%RSD		5.137	3.484	0.000	8.268	9.253	7.963	8.433	7.868
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	273.900	304.900	3871.000	288400.000	296400.000	187.400	354.200	316.800
2	00:03:50	322.500	354.400	4436.000	326500.000	336300.000	212.500	400.600	357.000
3	00:04:33	309.500	342.900	4314.000	318500.000	327500.000	206.400	392.000	348.100
X		302.000	334.100	4207.000	311100.000	320000.000	202.100	382.200	340.700
σ		25.190	25.920	297.400	20070.000	20930.000	13.120	24.690	21.110
%RSD		8.341	7.757	7.069	6.452	6.540	6.494	6.460	6.196
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	315.600	864.300	874.900	222.000	77.860	85.670	0.000	286.700
2	00:03:50	353.500	974.700	983.500	245.800	86.310	94.430	0.000	310.900
3	00:04:33	346.800	951.500	964.200	242.100	84.030	92.730	0.000	300.900
X		338.600	930.200	940.800	236.600	82.730	90.940	0.000	299.500
σ		20.210	58.210	57.940	12.770	4.371	4.641	0.000	12.150
%RSD		5.968	6.258	6.158	5.397	5.283	5.103	0.000	4.057
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	0.000	92.820	93.490	64.080%	83.040	83.400	85.710	86.340
2	00:03:50	0.000	98.380	98.630	63.187%	86.520	86.510	89.290	88.590
3	00:04:33	0.000	97.250	96.690	64.282%	84.530	84.460	87.310	86.700
X		0.000	96.150	96.270	63.850%	84.700	84.790	87.440	87.210
σ		0.000	2.938	2.598	0.582%	1.748	1.577	1.791	1.208
%RSD		0.000	3.056	2.699	0.912	2.064	1.859	2.048	1.385
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:03:07	66.055%	83.660	21.400	21.760	719.000	719.500	68.322%	67.727%
2	00:03:50	66.343%	86.750	22.500	21.970	738.600	741.700	69.534%	68.549%
3	00:04:33	67.433%	85.110	21.720	21.670	722.700	721.900	70.648%	69.621%
X		66.611%	85.170	21.870	21.800	726.800	727.700	69.502%	68.632%
σ		0.727%	1.547	0.566	0.155	10.420	12.140	1.163%	0.949%
%RSD		1.091	1.816	2.587	0.710	1.433	1.668	1.674	1.383
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:03:07	82.200	81.770	257.900	259.700	257.800	62.470%		
2	00:03:50	85.250	85.260	267.800	268.700	266.500	63.246%		
3	00:04:33	84.230	84.370	264.600	264.500	263.700	63.486%		
X		83.890	83.800	263.400	264.300	262.700	63.067%		
σ		1.552	1.812	5.048	4.492	4.421	0.531%		
%RSD		1.850	2.162	1.916	1.700	1.683	0.842		

CCV 664806 12/24/2012 12:09:37 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	77.546%	101.100	101.500	103.200	0.000	49370.000	47440.000	48840.000
2	00:11:03	76.242%	100.400	101.600	102.200	0.000	48610.000	46540.000	47420.000
3	00:11:46	77.944%	98.080	101.400	98.720	0.000	46810.000	44510.000	46280.000
X		77.244%	99.855%	101.535%	101.377%	0.000	96.529%	92.333%	95.028%
σ		0.890%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.153	1.581	0.104	2.323	0.000	2.723	3.254	2.701
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	506.700	5201.000	0.000	48430.000	48520.000	49780.000	80.975%	100.700
2	00:11:03	489.800	5083.000	0.000	45750.000	45690.000	47820.000	83.973%	99.700
3	00:11:46	473.300	4949.000	0.000	45590.000	45780.000	47830.000	84.525%	98.350
X		97.985%	101.553%	0.000	93.183%	93.325%	96.954%	83.158%	99.582%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.910%	n/a
%RSD		3.410	2.475	0.000	3.419	3.453	2.332	2.297	1.182
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	98.280	98.590	522.100	25940.000	25750.000	96.590	96.650	97.220
2	00:11:03	94.610	94.200	500.100	24550.000	24310.000	92.430	91.940	91.690
3	00:11:46	94.350	92.790	500.500	24860.000	24640.000	94.240	91.160	92.500
X		95.747%	95.191%	101.514%	100.461%	99.605%	94.421%	93.251%	93.803%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.292	3.177	2.473	2.916	3.038	2.209	3.188	3.184
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	98.260	102.700	104.200	100.200	103.000	105.800	0.000	97.880
2	00:11:03	91.330	98.300	97.370	96.200	99.280	102.700	0.000	93.960
3	00:11:46	92.410	98.180	98.350	96.440	100.500	104.400	0.000	93.620
X		94.001%	99.724%	99.968%	97.624%	100.907%	104.330%	0.000	95.153%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.969	2.577	3.683	2.316	1.872	1.465	0.000	2.490
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	72.775%	98.520	98.630	69.775%	98.530	98.700	101.200	102.900
2	00:11:03	75.935%	97.990	99.100	72.047%	94.460	94.800	97.520	99.380
3	00:11:46	77.572%	98.500	99.790	73.695%	93.860	95.040	96.660	97.550
X		75.427%	98.338%	99.173%	71.839%	95.615%	96.180%	98.474%	99.935%
σ		2.439%	n/a	n/a	1.968%	n/a	n/a	n/a	n/a
%RSD		3.233	0.305	0.587	2.739	2.658	2.270	2.477	2.712
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:20	68.996%	100.500	100.800	100.200	98.050	97.620	69.284%	69.654%
2	00:11:03	72.088%	97.210	97.250	97.150	94.300	94.420	73.541%	73.490%
3	00:11:46	74.290%	96.950	96.090	98.000	92.840	93.500	74.295%	74.777%
X		71.791%	98.225%	98.058%	98.453%	95.063%	95.180%	72.373%	72.640%
σ		2.660%	n/a	n/a	n/a	n/a	n/a	2.702%	2.665%
%RSD		3.705	2.030	2.525	1.611	2.827	2.271	3.733	3.669
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:10:20	94.880	94.950	95.040	94.840	94.570	68.874%		
2	00:11:03	91.010	91.420	92.370	91.480	91.550	72.813%		
3	00:11:46	92.070	92.130	92.390	91.640	91.690	74.036%		
X		92.653%	92.833%	93.265%	92.652%	92.605%	71.908%		
σ		n/a	n/a	n/a	n/a	n/a	2.698%		
%RSD		2.162	2.016	1.644	2.047	1.844	3.752		

CCB6 12/24/2012 12:17:34 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	95.323%	-0.006	1.007	0.791	0.000	1.453	2.951	3.089
2	00:19:00	90.545%	0.004	0.812	0.740	0.000	1.908	2.854	3.120
3	00:19:43	91.692%	0.003	0.510	0.628	0.000	1.581	3.409	3.475
X		92.520%	0.000	0.777	0.720	0.000	1.648	3.071	3.228
σ		2.494%	0.006	0.250	0.083	0.000	0.235	0.296	0.215
%RSD		2.696	1761.000	32.240	11.570	0.000	14.260	9.646	6.646
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	2.461	-3.346	0.000	-12.330	20.320	24.520	107.390%	-0.067
2	00:19:00	2.463	-3.083	0.000	-11.650	32.690	30.420	103.083%	-0.084
3	00:19:43	2.469	-3.237	0.000	-13.000	23.110	28.040	103.314%	-0.066
X		2.465	-3.222	0.000	-12.330	25.370	27.660	104.595%	-0.072
σ		0.004	0.132	0.000	0.674	6.487	2.967	2.423%	0.010
%RSD		0.172	4.102	0.000	5.470	25.570	10.730	2.316	13.950
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	-0.008	-0.087	0.388	-7.938	13.850	-0.008	-0.028	-0.007
2	00:19:00	-0.009	-0.053	0.385	-9.360	9.974	-0.007	-0.021	-0.045
3	00:19:43	0.020	-0.068	0.370	-12.250	7.219	-0.006	-0.033	-0.038
X		0.001	-0.069	0.381	-9.851	10.350	-0.007	-0.027	-0.030
σ		0.016	0.017	0.010	2.199	3.334	0.001	0.006	0.021
%RSD		1504.000	24.780	2.597	22.320	32.210	20.090	22.420	68.340
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	-0.064	-0.371	-0.298	-0.064	-0.752	-0.075	0.000	0.027
2	00:19:00	-0.050	-0.466	-0.563	0.213	-0.783	1.016	0.000	0.023
3	00:19:43	-0.049	-0.332	-0.418	0.065	-0.697	0.319	0.000	0.019
X		-0.054	-0.389	-0.426	0.071	-0.744	0.420	0.000	0.023
σ		0.008	0.069	0.133	0.138	0.044	0.553	0.000	0.004
%RSD		15.310	17.710	31.150	193.400	5.892	131.500	0.000	15.890
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	90.217%	0.211	0.203	89.436%	-0.007	-0.007	-0.033	-0.004
2	00:19:00	89.549%	0.181	0.174	87.659%	-0.002	-0.006	-0.047	-0.027
3	00:19:43	90.703%	0.165	0.129	88.898%	-0.015	-0.010	-0.107	-0.048
X		90.156%	0.186	0.169	88.664%	-0.008	-0.008	-0.062	-0.026
σ		0.579%	0.023	0.037	0.911%	0.007	0.002	0.039	0.022
%RSD		0.643	12.500	22.040	1.028	81.880	30.040	62.940	84.620
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:17	81.983%	-0.293	-0.051	-0.039	0.017	0.028	82.249%	82.696%
2	00:19:00	82.222%	-0.376	-0.048	-0.050	0.020	0.030	83.466%	83.964%
3	00:19:43	83.790%	-0.428	-0.055	-0.046	0.034	0.021	86.001%	86.613%
X		82.665%	-0.366	-0.051	-0.045	0.024	0.026	83.905%	84.424%
σ		0.981%	0.068	0.004	0.006	0.009	0.005	1.914%	1.999%
%RSD		1.187	18.660	7.424	12.540	38.520	19.570	2.282	2.367
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:18:17	0.031	0.032	0.076	0.078	0.079	88.766%		
2	00:19:00	0.038	0.035	0.078	0.061	0.076	89.442%		
3	00:19:43	0.027	0.027	0.070	0.062	0.072	92.001%		
X		0.032	0.031	0.074	0.067	0.076	90.070%		
σ		0.006	0.004	0.004	0.010	0.004	1.707%		
%RSD		18.160	13.700	5.844	14.220	4.781	1.895		

240-18441-E-21-A PDS 12/24/2012 12:21:55 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	75.838%	50.310	923.100	924.500	0.000	46740.000	73250.000	75430.000
2	00:23:21	76.523%	51.140	933.000	934.100	0.000	46160.000	74150.000	75260.000
3	00:24:04	75.763%	49.770	924.600	923.100	0.000	44760.000	70370.000	73120.000
X		76.041%	50.410	926.900	927.300	0.000	45890.000	72590.000	74600.000
σ		0.419%	0.687	5.327	6.007	0.000	1019.000	1973.000	1289.000
%RSD		0.551	1.363	0.575	0.648	0.000	2.220	2.718	1.727
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	101400.000	11870.000	0.000	54110.000	80640.000	82640.000	84.620%	1596.000
2	00:23:21	100600.000	11750.000	0.000	54300.000	81340.000	83780.000	84.483%	1632.000
3	00:24:04	98550.000	11500.000	0.000	52920.000	79370.000	81660.000	83.457%	1558.000
X		100200.000	11710.000	0.000	53780.000	80450.000	82690.000	84.187%	1595.000
σ		1481.000	188.800	0.000	746.400	999.100	1061.000	0.635%	37.020
%RSD		1.479	1.613	0.000	1.388	1.242	1.283	0.755	2.321
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	637.900	377.100	3844.000	254400.000	261300.000	555.800	682.100	424.700
2	00:23:21	641.100	382.200	3862.000	258300.000	263400.000	559.100	695.100	431.400
3	00:24:04	620.800	371.500	3785.000	252200.000	258000.000	540.900	672.100	418.600
X		633.200	376.900	3830.000	255000.000	260900.000	551.900	683.100	424.900
σ		10.910	5.359	40.380	3124.000	2686.000	9.691	11.520	6.433
%RSD		1.723	1.422	1.054	1.225	1.029	1.756	1.686	1.514
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	423.000	1093.000	1105.000	165.000	11.350	18.550	0.000	1130.000
2	00:23:21	432.200	1121.000	1132.000	167.800	11.000	18.720	0.000	1155.000
3	00:24:04	419.000	1101.000	1117.000	163.500	10.810	18.710	0.000	1128.000
X		424.700	1105.000	1118.000	165.400	11.050	18.660	0.000	1138.000
σ		6.732	14.140	13.500	2.181	0.274	0.097	0.000	15.090
%RSD		1.585	1.279	1.208	1.318	2.474	0.520	0.000	1.326
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	0.000	995.600	1002.000	65.519%	45.310	45.090	45.690	39.770
2	00:23:21	0.000	1025.000	1036.000	65.136%	46.200	46.160	46.080	39.620
3	00:24:04	0.000	1010.000	1016.000	65.651%	45.320	45.310	46.060	39.150
X		0.000	1010.000	1018.000	65.435%	45.610	45.520	45.940	39.510
σ		0.000	14.750	16.900	0.267%	0.512	0.561	0.220	0.326
%RSD		0.000	1.460	1.660	0.409	1.122	1.232	0.479	0.825
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:38	67.303%	1950.000	425.300	426.600	2309.000	2313.000	70.753%	69.751%
2	00:23:21	68.297%	1973.000	434.000	433.400	2358.000	2362.000	71.467%	70.464%
3	00:24:04	68.896%	1927.000	423.300	420.200	2298.000	2293.000	72.867%	72.028%
X		68.165%	1950.000	427.500	426.700	2322.000	2323.000	71.696%	70.748%
σ		0.804%	23.050	5.648	6.606	32.240	35.520	1.075%	1.165%
%RSD		1.180	1.182	1.321	1.548	1.389	1.529	1.500	1.646
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:22:38	46.300	46.540	186.400	183.800	184.600	61.571%		
2	00:23:21	48.360	48.560	192.900	188.600	190.400	61.769%		
3	00:24:04	46.720	46.430	184.800	182.700	183.400	63.693%		
X		47.130	47.180	188.100	185.000	186.200	62.344%		
σ		1.086	1.197	4.278	3.166	3.746	1.172%		
%RSD		2.305	2.537	2.275	1.711	2.012	1.880		

240-18441-C-22-A 12/24/2012 12:26:14 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	80.628%	6.950	75.860	75.290	0.000	1148.000	38630.000	39710.000
2	00:27:40	81.425%	6.132	69.670	69.840	0.000	1055.000	35380.000	36580.000
3	00:28:23	80.739%	6.394	69.850	69.740	0.000	1094.000	36370.000	38240.000
X		80.931%	6.492	71.790	71.620	0.000	1099.000	36790.000	38180.000
σ		0.432%	0.418	3.522	3.176	0.000	46.660	1666.000	1567.000
%RSD		0.534	6.435	4.905	4.434	0.000	4.247	4.528	4.104
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	113700.000	1127.000	0.000	18940.000	103200.000	105500.000	86.949%	674.100
2	00:27:40	105500.000	1171.000	0.000	17780.000	95970.000	99260.000	87.207%	635.100
3	00:28:23	110700.000	1131.000	0.000	18200.000	100100.000	103600.000	86.386%	658.800
X		109900.000	1143.000	0.000	18310.000	99750.000	102800.000	86.847%	656.000
σ		4162.000	24.310	0.000	589.600	3636.000	3207.000	0.420%	19.700
%RSD		3.786	2.128	0.000	3.221	3.645	3.120	0.483	3.003
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	176.600	201.300	3173.000	239600.000	243700.000	96.400	252.200	184.600
2	00:27:40	166.700	192.700	3028.000	227400.000	231900.000	91.010	236.800	172.900
3	00:28:23	172.600	197.100	3147.000	236500.000	239700.000	94.610	246.700	182.000
X		172.000	197.100	3116.000	234500.000	238400.000	94.000	245.200	179.800
σ		5.001	4.296	77.160	6329.000	6008.000	2.747	7.845	6.164
%RSD		2.908	2.180	2.476	2.699	2.520	2.922	3.199	3.428
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	183.300	677.100	686.300	110.000	2.461	8.293	0.000	296.100
2	00:27:40	173.000	643.700	651.500	105.300	2.589	7.806	0.000	280.700
3	00:28:23	183.200	675.100	686.900	109.600	2.798	8.923	0.000	293.500
X		179.800	665.300	674.900	108.300	2.616	8.341	0.000	290.100
σ		5.922	18.720	20.250	2.579	0.170	0.560	0.000	8.253
%RSD		3.293	2.813	3.000	2.382	6.506	6.711	0.000	2.845
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	0.000	16.400	16.000	70.428%	0.312	0.171	2.192	1.898
2	00:27:40	0.000	13.680	13.560	73.613%	0.255	0.173	2.190	1.770
3	00:28:23	0.000	13.490	13.390	71.735%	0.309	0.178	2.349	1.821
X		0.000	14.530	14.310	71.925%	0.292	0.174	2.244	1.830
σ		0.000	1.629	1.463	1.601%	0.032	0.004	0.091	0.064
%RSD		0.000	11.220	10.220	2.226	10.990	2.199	4.071	3.510
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:26:57	70.945%	13.370	1.130	1.098	588.800	583.900	74.073%	72.740%
2	00:27:40	74.189%	9.876	0.883	0.907	553.500	553.300	77.656%	76.578%
3	00:28:23	73.136%	9.625	0.824	0.794	574.000	572.700	77.293%	75.891%
X		72.757%	10.960	0.946	0.933	572.100	570.000	76.341%	75.070%
σ		1.655%	2.094	0.162	0.153	17.720	15.490	1.972%	2.047%
%RSD		2.274	19.110	17.170	16.420	3.097	2.718	2.583	2.727
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:26:57	1.727	1.727	132.000	129.200	130.200	66.782%		
2	00:27:40	1.608	1.557	124.100	122.500	123.000	70.734%		
3	00:28:23	1.609	1.591	130.500	128.000	129.200	69.531%		
X		1.648	1.625	128.900	126.600	127.400	69.015%		
σ		0.068	0.090	4.193	3.551	3.903	2.026%		
%RSD		4.144	5.530	3.253	2.805	3.062	2.936		

240-18441-C-23-A 12/24/2012 12:30:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	88.918%	4.596	44.240	44.210	0.000	824.100	29120.000	30180.000
2	00:31:59	86.779%	4.580	43.910	44.020	0.000	823.500	28980.000	30260.000
3	00:32:42	88.613%	4.381	41.930	41.870	0.000	794.200	28750.000	29580.000
X		88.104%	4.519	43.360	43.370	0.000	813.900	28950.000	30000.000
σ		1.157%	0.120	1.252	1.299	0.000	17.060	188.400	370.600
%RSD		1.313	2.648	2.886	2.995	0.000	2.096	0.651	1.235
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	78700.000	2740.000	0.000	12060.000	65500.000	67790.000	93.389%	745.600
2	00:31:59	80440.000	2787.000	0.000	12150.000	67400.000	69240.000	92.566%	749.700
3	00:32:42	77790.000	2678.000	0.000	11700.000	63970.000	67010.000	91.578%	715.100
X		78980.000	2735.000	0.000	11970.000	65620.000	68010.000	92.511%	736.800
σ		1344.000	54.990	0.000	239.400	1718.000	1135.000	0.907%	18.930
%RSD		1.702	2.011	0.000	2.000	2.618	1.669	0.980	2.569
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	135.900	147.400	2924.000	189200.000	190400.000	80.030	201.200	149.300
2	00:31:59	139.500	151.500	3002.000	195300.000	196600.000	82.160	209.400	152.500
3	00:32:42	131.700	147.100	2926.000	188000.000	189300.000	80.320	202.200	149.100
X		135.700	148.700	2951.000	190800.000	192100.000	80.840	204.300	150.300
σ		3.919	2.439	44.430	3891.000	3919.000	1.152	4.471	1.889
%RSD		2.889	1.640	1.506	2.039	2.040	1.425	2.189	1.257
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	149.700	468.600	469.100	81.190	1.544	7.278	0.000	193.900
2	00:31:59	151.500	478.700	486.500	84.030	1.945	7.631	0.000	201.500
3	00:32:42	147.200	467.100	467.900	80.010	1.582	7.364	0.000	193.400
X		149.500	471.500	474.500	81.740	1.691	7.424	0.000	196.200
σ		2.170	6.307	10.380	2.067	0.221	0.184	0.000	4.556
%RSD		1.451	1.338	2.187	2.529	13.100	2.474	0.000	2.321
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	0.000	11.380	11.370	74.729%	0.243	0.140	1.892	1.380
2	00:31:59	0.000	11.570	11.580	74.155%	0.256	0.131	1.975	1.525
3	00:32:42	0.000	10.720	10.930	76.697%	0.251	0.128	1.803	1.459
X		0.000	11.220	11.290	75.193%	0.250	0.133	1.890	1.455
σ		0.000	0.448	0.328	1.333%	0.006	0.006	0.086	0.073
%RSD		0.000	3.989	2.904	1.773	2.583	4.575	4.553	4.995
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:31:16	74.019%	10.630	0.695	0.706	458.900	459.800	77.074%	76.371%
2	00:31:59	73.993%	10.350	0.698	0.718	476.000	474.200	77.888%	77.039%
3	00:32:42	75.678%	9.627	0.660	0.625	448.200	451.100	79.443%	78.786%
X		74.563%	10.200	0.685	0.683	461.000	461.700	78.135%	77.399%
σ		0.965%	0.516	0.021	0.051	14.040	11.650	1.204%	1.247%
%RSD		1.295	5.059	3.048	7.452	3.044	2.523	1.541	1.611
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:31:16	1.344	1.345	105.700	103.700	104.200	68.419%		
2	00:31:59	1.402	1.402	109.400	107.400	108.100	69.056%		
3	00:32:42	1.338	1.305	103.800	101.800	102.600	71.195%		
X		1.361	1.350	106.300	104.300	105.000	69.557%		
σ		0.035	0.048	2.834	2.839	2.853	1.454%		
%RSD		2.588	3.580	2.665	2.721	2.717	2.090		



240-18441-C-24-A 12/24/2012 12:34:53 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	82.696%	7.647	59.430	62.830	0.000	711.800	40230.000	41740.000
2	00:36:19	79.808%	7.778	65.940	64.950	0.000	727.200	41180.000	43430.000
3	00:37:02	80.602%	7.583	61.190	61.650	0.000	694.100	39580.000	41020.000
X		81.035%	7.669	62.190	63.150	0.000	711.000	40330.000	42060.000
σ		1.492%	0.099	3.367	1.675	0.000	16.540	807.100	1236.000
%RSD		1.841	1.291	5.414	2.652	0.000	2.326	2.001	2.937
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	136100.000	1236.000	0.000	19440.000	53500.000	55400.000	90.401%	668.500
2	00:36:19	139500.000	1286.000	0.000	19920.000	55280.000	57100.000	86.977%	677.300
3	00:37:02	133300.000	1342.000	0.000	19230.000	52660.000	54810.000	88.091%	661.100
X		136300.000	1288.000	0.000	19530.000	53820.000	55770.000	88.490%	669.000
σ		3132.000	53.370	0.000	352.700	1338.000	1188.000	1.746%	8.078
%RSD		2.297	4.143	0.000	1.806	2.487	2.130	1.973	1.207
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	197.700	212.400	3659.000	286100.000	295900.000	120.000	291.200	230.000
2	00:36:19	204.100	218.100	3858.000	302000.000	310000.000	125.700	303.700	240.900
3	00:37:02	200.100	209.700	3634.000	283100.000	293700.000	120.500	287.800	228.400
X		200.600	213.400	3717.000	290400.000	299800.000	122.000	294.200	233.100
σ		3.224	4.287	122.700	10150.000	8829.000	3.133	8.350	6.828
%RSD		1.607	2.009	3.302	3.495	2.944	2.567	2.838	2.929
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	231.400	701.300	705.300	156.100	2.476	8.848	0.000	170.000
2	00:36:19	237.100	729.200	735.700	162.700	2.709	8.987	0.000	177.800
3	00:37:02	228.400	694.100	709.100	153.900	2.682	8.118	0.000	170.400
X		232.300	708.200	716.700	157.500	2.622	8.651	0.000	172.800
σ		4.419	18.580	16.590	4.567	0.127	0.467	0.000	4.396
%RSD		1.902	2.623	2.315	2.899	4.849	5.401	0.000	2.544
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	0.000	12.470	12.430	71.643%	0.242	0.144	1.837	1.513
2	00:36:19	0.000	13.010	12.890	70.298%	0.241	0.165	1.999	1.624
3	00:37:02	0.000	12.440	12.790	71.559%	0.230	0.153	1.855	1.456
X		0.000	12.640	12.710	71.167%	0.238	0.154	1.897	1.531
σ		0.000	0.321	0.242	0.753%	0.007	0.010	0.089	0.086
%RSD		0.000	2.540	1.902	1.059	2.765	6.787	4.674	5.595
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:35:36	71.144%	7.931	0.738	0.753	633.600	635.600	74.960%	72.942%
2	00:36:19	70.913%	8.271	0.713	0.781	655.500	658.000	74.732%	73.658%
3	00:37:02	71.862%	8.052	0.684	0.728	629.300	631.600	76.607%	75.308%
X		71.306%	8.085	0.712	0.754	639.500	641.700	75.433%	73.969%
σ		0.495%	0.172	0.027	0.026	14.060	14.230	1.023%	1.213%
%RSD		0.694	2.130	3.768	3.476	2.199	2.217	1.356	1.640
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:35:36	1.856	1.924	129.800	128.900	129.000	66.486%		
2	00:36:19	1.971	1.954	135.900	133.500	135.000	66.471%		
3	00:37:02	1.883	1.922	131.200	128.400	129.100	68.384%		
X		1.903	1.933	132.300	130.300	131.000	67.114%		
σ		0.060	0.018	3.213	2.815	3.418	1.100%		
%RSD		3.159	0.924	2.428	2.161	2.608	1.639		

240-18441-D-25-A 12/24/2012 12:39:13 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	78.072%	10.240	95.510	97.450	0.000	1356.000	56470.000	58870.000
2	00:40:39	77.467%	10.060	97.850	99.920	0.000	1371.000	56960.000	59010.000
3	00:41:22	75.517%	10.290	100.700	100.700	0.000	1404.000	58360.000	60300.000
X		77.019%	10.200	98.020	99.360	0.000	1377.000	57270.000	59390.000
σ		1.335%	0.124	2.597	1.701	0.000	24.790	981.100	789.300
%RSD		1.734	1.212	2.650	1.712	0.000	1.800	1.713	1.329
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	181900.000	1883.000	0.000	28880.000	99770.000	103800.000	89.793%	768.800
2	00:40:39	179600.000	1873.000	0.000	28740.000	101200.000	103200.000	89.001%	783.100
3	00:41:22	185900.000	1908.000	0.000	29090.000	100700.000	103200.000	89.126%	787.100
X		182500.000	1888.000	0.000	28910.000	100600.000	103400.000	89.307%	779.700
σ		3192.000	17.930	0.000	176.400	724.500	364.000	0.426%	9.632
%RSD		1.750	0.950	0.000	0.610	0.721	0.352	0.477	1.235
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	277.400	281.200	4507.000	354300.000	372600.000	156.500	388.400	258.300
2	00:40:39	287.400	286.900	4569.000	359400.000	378300.000	158.700	389.400	258.700
3	00:41:22	281.000	285.000	4622.000	361000.000	378800.000	156.900	387.900	259.300
X		281.900	284.400	4566.000	358200.000	376600.000	157.400	388.600	258.800
σ		5.048	2.921	57.610	3506.000	3463.000	1.186	0.771	0.502
%RSD		1.790	1.027	1.262	0.979	0.919	0.753	0.198	0.194
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	257.600	793.500	803.900	157.200	2.784	9.582	0.000	303.300
2	00:40:39	260.400	812.200	821.000	160.200	2.913	9.706	0.000	311.100
3	00:41:22	261.500	809.300	819.300	159.200	2.930	9.989	0.000	309.800
X		259.900	805.000	814.800	158.900	2.876	9.759	0.000	308.100
σ		2.008	10.040	9.410	1.516	0.080	0.208	0.000	4.163
%RSD		0.773	1.248	1.155	0.954	2.774	2.136	0.000	1.351
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	0.000	14.990	14.930	69.420%	0.380	0.217	2.780	2.000
2	00:40:39	0.000	15.190	15.040	69.849%	0.373	0.228	2.923	2.105
3	00:41:22	0.000	15.360	15.180	70.275%	0.378	0.181	2.740	2.120
X		0.000	15.180	15.050	69.848%	0.377	0.209	2.814	2.075
σ		0.000	0.182	0.127	0.428%	0.004	0.025	0.096	0.066
%RSD		0.000	1.198	0.841	0.612	0.934	11.760	3.413	3.162
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:39:56	70.706%	11.780	0.889	0.963	904.800	901.700	75.041%	73.293%
2	00:40:39	71.011%	11.980	0.880	0.931	912.200	912.300	77.177%	74.988%
3	00:41:22	71.258%	12.220	0.921	0.970	918.300	922.000	77.266%	74.973%
X		70.992%	11.990	0.897	0.955	911.800	912.000	76.495%	74.418%
σ		0.277%	0.223	0.022	0.021	6.767	10.160	1.259%	0.974%
%RSD		0.390	1.859	2.412	2.168	0.742	1.114	1.647	1.309
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:39:56	2.304	2.338	166.100	163.200	164.800	63.222%		
2	00:40:39	2.399	2.344	168.900	166.700	167.500	64.441%		
3	00:41:22	2.440	2.352	167.100	164.500	166.200	65.407%		
X		2.381	2.345	167.400	164.800	166.100	64.357%		
σ		0.070	0.007	1.395	1.806	1.333	1.095%		
%RSD		2.921	0.309	0.834	1.096	0.803	1.701		

240-18441-C-26-A 12/24/2012 12:43:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	86.761%	5.044	45.330	45.700	0.000	1012.000	25200.000	26070.000
2	00:44:59	84.194%	5.130	44.920	45.080	0.000	965.000	24630.000	25890.000
3	00:45:42	86.888%	4.776	42.310	42.940	0.000	965.700	24330.000	25110.000
X		85.948%	4.983	44.190	44.570	0.000	981.000	24720.000	25690.000
σ		1.520%	0.185	1.638	1.451	0.000	27.050	441.900	510.400
%RSD		1.768	3.704	3.706	3.254	0.000	2.758	1.788	1.987
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	86320.000	1295.000	0.000	12940.000	47340.000	49140.000	91.778%	557.000
2	00:44:59	86690.000	1211.000	0.000	12880.000	46930.000	49690.000	90.625%	549.000
3	00:45:42	83190.000	1308.000	0.000	12740.000	46890.000	48230.000	90.164%	529.600
X		85400.000	1271.000	0.000	12850.000	47050.000	49020.000	90.856%	545.200
σ		1922.000	52.330	0.000	101.100	248.100	734.900	0.831%	14.080
%RSD		2.250	4.117	0.000	0.787	0.527	1.499	0.915	2.583
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	134.900	185.500	2806.000	183900.000	186400.000	73.100	200.800	175.400
2	00:44:59	133.700	183.900	2825.000	184800.000	186200.000	72.460	205.200	178.400
3	00:45:42	130.700	179.900	2747.000	178700.000	181000.000	70.590	197.600	169.300
X		133.100	183.100	2793.000	182500.000	184500.000	72.050	201.200	174.400
σ		2.184	2.864	40.950	3323.000	3076.000	1.305	3.787	4.631
%RSD		1.641	1.565	1.466	1.821	1.667	1.812	1.882	2.656
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	175.200	654.100	663.200	90.200	2.254	7.283	0.000	175.800
2	00:44:59	179.000	665.700	674.400	91.380	2.174	7.376	0.000	176.600
3	00:45:42	170.900	648.500	655.300	87.430	2.135	7.634	0.000	171.700
X		175.000	656.100	664.300	89.670	2.188	7.431	0.000	174.700
σ		4.066	8.783	9.593	2.028	0.060	0.181	0.000	2.629
%RSD		2.323	1.339	1.444	2.262	2.753	2.443	0.000	1.505
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	0.000	11.060	11.120	74.248%	0.256	0.155	2.038	1.677
2	00:44:59	0.000	11.320	11.350	74.876%	0.232	0.131	1.933	1.565
3	00:45:42	0.000	10.900	10.830	75.861%	0.207	0.149	1.825	1.541
X		0.000	11.090	11.100	74.995%	0.231	0.145	1.932	1.594
σ		0.000	0.214	0.260	0.813%	0.024	0.012	0.106	0.072
%RSD		0.000	1.933	2.344	1.084	10.540	8.504	5.508	4.547
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:44:16	72.317%	10.680	0.808	0.810	449.200	451.300	76.011%	74.888%
2	00:44:59	74.106%	10.530	0.839	0.829	447.800	449.500	77.942%	76.981%
3	00:45:42	75.421%	10.340	0.791	0.759	436.000	436.600	79.235%	78.339%
X		73.948%	10.520	0.812	0.799	444.300	445.800	77.729%	76.736%
σ		1.558%	0.169	0.025	0.036	7.221	8.027	1.623%	1.738%
%RSD		2.107	1.607	3.020	4.519	1.625	1.801	2.088	2.265
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:44:16	1.298	1.360	127.400	125.600	126.200	68.725%		
2	00:44:59	1.306	1.338	128.500	125.500	126.500	70.653%		
3	00:45:42	1.264	1.248	122.700	121.200	121.400	73.408%		
X		1.289	1.315	126.200	124.100	124.700	70.929%		
σ		0.022	0.060	3.046	2.501	2.853	2.354%		
%RSD		1.706	4.525	2.413	2.016	2.288	3.318		

240-18441-C-27-A 12/24/2012 12:47:54 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	83.855%	6.269	52.800	53.630	0.000	1132.000	36600.000	38010.000
2	00:49:20	83.262%	6.229	52.450	53.350	0.000	1116.000	36510.000	38080.000
3	00:50:03	80.357%	6.293	52.960	54.030	0.000	1110.000	36460.000	38390.000
X		82.491%	6.264	52.740	53.670	0.000	1119.000	36530.000	38160.000
σ		1.872%	0.032	0.260	0.343	0.000	11.320	72.260	205.000
%RSD		2.269	0.513	0.493	0.639	0.000	1.012	0.198	0.537
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	101900.000	2600.000	0.000	14290.000	123400.000	128900.000	91.482%	745.000
2	00:49:20	103300.000	2639.000	0.000	14190.000	124800.000	129800.000	89.719%	750.200
3	00:50:03	102700.000	2629.000	0.000	14280.000	126500.000	130700.000	88.214%	747.600
X		102600.000	2623.000	0.000	14250.000	124900.000	129800.000	89.805%	747.600
σ		671.300	20.400	0.000	56.580	1551.000	905.300	1.636%	2.564
%RSD		0.654	0.778	0.000	0.397	1.241	0.698	1.821	0.343
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	164.600	192.900	4353.000	251500.000	257300.000	92.890	241.000	205.000
2	00:49:20	164.900	193.600	4362.000	250300.000	256500.000	93.790	241.200	206.800
3	00:50:03	163.800	193.700	4355.000	251100.000	259200.000	94.010	243.800	207.600
X		164.400	193.400	4357.000	251000.000	257700.000	93.560	242.000	206.500
σ		0.555	0.457	5.099	617.800	1419.000	0.593	1.593	1.364
%RSD		0.338	0.236	0.117	0.246	0.551	0.634	0.658	0.660
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	205.800	792.100	806.500	116.600	3.293	8.738	0.000	374.400
2	00:49:20	207.900	805.300	809.600	115.800	3.116	8.755	0.000	376.800
3	00:50:03	207.900	811.200	819.700	118.100	3.324	9.084	0.000	379.300
X		207.200	802.900	811.900	116.800	3.244	8.859	0.000	376.800
σ		1.220	9.773	6.923	1.184	0.112	0.195	0.000	2.435
%RSD		0.589	1.217	0.853	1.013	3.455	2.202	0.000	0.646
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	0.000	15.100	15.060	72.490%	0.411	0.227	3.041	2.625
2	00:49:20	0.000	14.890	15.210	72.977%	0.388	0.233	2.855	2.345
3	00:50:03	0.000	14.950	15.190	72.511%	0.383	0.233	2.825	2.367
X		0.000	14.980	15.150	72.660%	0.394	0.231	2.907	2.445
σ		0.000	0.108	0.083	0.275%	0.015	0.003	0.117	0.156
%RSD		0.000	0.720	0.547	0.379	3.828	1.502	4.024	6.369
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:48:37	71.997%	11.490	1.182	1.232	863.400	862.900	75.780%	74.890%
2	00:49:20	73.803%	11.340	1.143	1.278	860.200	859.500	77.627%	76.401%
3	00:50:03	73.162%	11.550	1.234	1.268	864.900	863.500	78.148%	76.712%
X		72.987%	11.460	1.186	1.259	862.800	862.000	77.185%	76.001%
σ		0.916%	0.109	0.045	0.024	2.412	2.148	1.244%	0.975%
%RSD		1.254	0.949	3.826	1.932	0.280	0.249	1.612	1.282
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:48:37	1.535	1.525	268.800	260.200	262.800	66.222%		
2	00:49:20	1.609	1.560	270.900	260.800	264.800	68.105%		
3	00:50:03	1.578	1.638	273.800	263.900	267.700	68.431%		
X		1.574	1.574	271.200	261.600	265.100	67.586%		
σ		0.037	0.058	2.477	1.974	2.486	1.193%		
%RSD		2.350	3.657	0.913	0.755	0.938	1.765		

240-18441-C-28-A 12/24/2012 12:52:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	85.056%	5.731	41.860	43.580	0.000	1073.000	30230.000	31450.000
2	00:53:41	83.323%	6.054	44.270	44.210	0.000	1092.000	30730.000	32250.000
3	00:54:24	83.048%	5.953	44.320	44.070	0.000	1092.000	30740.000	32350.000
X		83.809%	5.912	43.480	43.950	0.000	1086.000	30560.000	32020.000
σ		1.089%	0.165	1.403	0.332	0.000	11.200	290.600	488.000
%RSD		1.299	2.798	3.226	0.756	0.000	1.031	0.951	1.524
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	99460.000	1928.000	0.000	14370.000	53940.000	55870.000	91.337%	626.100
2	00:53:41	101800.000	1951.000	0.000	14290.000	54790.000	56830.000	89.324%	640.300
3	00:54:24	101500.000	1940.000	0.000	14410.000	54640.000	56240.000	88.369%	635.200
X		100900.000	1940.000	0.000	14360.000	54460.000	56310.000	89.677%	633.900
σ		1282.000	11.200	0.000	63.570	451.900	484.500	1.515%	7.219
%RSD		1.270	0.577	0.000	0.443	0.830	0.860	1.690	1.139
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	155.700	182.000	3279.000	242100.000	248400.000	100.500	241.900	166.700
2	00:53:41	161.500	186.000	3376.000	248900.000	255300.000	102.500	246.000	168.800
3	00:54:24	160.500	184.200	3393.000	247600.000	253500.000	101.900	242.700	167.800
X		159.300	184.100	3349.000	246200.000	252400.000	101.600	243.500	167.800
σ		3.102	1.972	61.390	3622.000	3576.000	1.042	2.179	1.048
%RSD		1.948	1.071	1.833	1.471	1.417	1.025	0.895	0.625
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	168.600	611.700	618.200	121.800	3.210	8.621	0.000	244.200
2	00:53:41	170.100	623.900	631.500	125.100	3.685	8.855	0.000	249.900
3	00:54:24	169.000	619.700	627.300	123.500	3.268	8.037	0.000	250.100
X		169.200	618.400	625.700	123.500	3.388	8.504	0.000	248.100
σ		0.748	6.207	6.767	1.640	0.259	0.421	0.000	3.350
%RSD		0.442	1.004	1.082	1.328	7.653	4.950	0.000	1.350
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	0.000	12.280	12.350	73.417%	0.271	0.169	2.422	1.965
2	00:53:41	0.000	12.670	12.680	72.942%	0.297	0.177	2.403	1.901
3	00:54:24	0.000	12.320	12.390	73.311%	0.287	0.148	2.563	2.036
X		0.000	12.420	12.470	73.223%	0.285	0.165	2.463	1.967
σ		0.000	0.216	0.180	0.249%	0.013	0.015	0.087	0.067
%RSD		0.000	1.741	1.445	0.340	4.504	9.214	3.548	3.429
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:52:58	72.271%	6.663	0.820	0.825	550.800	553.000	75.939%	75.134%
2	00:53:41	72.863%	7.020	0.807	0.771	556.500	560.100	76.911%	76.153%
3	00:54:24	73.336%	6.978	0.806	0.783	557.400	552.100	77.599%	76.461%
X		72.823%	6.887	0.811	0.793	554.900	555.100	76.816%	75.916%
σ		0.533%	0.196	0.007	0.028	3.569	4.372	0.834%	0.695%
%RSD		0.732	2.839	0.913	3.556	0.643	0.788	1.086	0.915
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:52:58	1.447	1.467	137.700	135.300	136.000	68.268%		
2	00:53:41	1.446	1.510	141.100	138.500	139.200	68.647%		
3	00:54:24	1.485	1.502	140.000	137.100	138.100	69.432%		
X		1.460	1.493	139.600	137.000	137.700	68.782%		
σ		0.022	0.023	1.705	1.593	1.622	0.594%		
%RSD		1.528	1.512	1.221	1.163	1.177	0.863		

240-18449-I-3-A 12/24/2012 12:56:36 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	82.418%	4.972	40.840	40.830	0.000	707.300	44260.000	46150.000
2	00:58:02	82.529%	4.911	39.840	39.900	0.000	690.400	43890.000	45600.000
3	00:58:45	80.898%	4.996	39.610	40.460	0.000	685.900	44430.000	46500.000
X		81.948%	4.960	40.100	40.390	0.000	694.500	44190.000	46080.000
σ		0.912%	0.043	0.653	0.468	0.000	11.270	273.000	454.400
%RSD		1.113	0.875	1.628	1.158	0.000	1.623	0.618	0.986
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	85790.000	1193.000	0.000	16120.000	54030.000	56080.000	86.948%	447.700
2	00:58:02	83570.000	1185.000	0.000	15400.000	53400.000	55350.000	85.649%	440.900
3	00:58:45	86650.000	1239.000	0.000	15860.000	54960.000	56560.000	84.127%	444.900
X		85330.000	1206.000	0.000	15790.000	54130.000	55990.000	85.575%	444.500
σ		1589.000	29.170	0.000	363.900	786.700	608.800	1.412%	3.392
%RSD		1.862	2.420	0.000	2.304	1.453	1.087	1.650	0.763
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	123.400	125.300	2515.000	219900.000	223600.000	88.130	213.200	141.600
2	00:58:02	122.000	124.900	2495.000	215600.000	219800.000	86.830	210.200	141.800
3	00:58:45	122.400	128.200	2544.000	220500.000	222000.000	88.530	211.700	142.400
X		122.600	126.100	2518.000	218700.000	221800.000	87.830	211.700	141.900
σ		0.742	1.771	24.740	2666.000	1888.000	0.892	1.488	0.446
%RSD		0.605	1.404	0.983	1.219	0.851	1.016	0.703	0.314
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	142.700	590.000	595.500	132.000	1.519	6.463	0.000	103.700
2	00:58:02	141.400	585.700	595.700	131.200	1.339	5.954	0.000	103.700
3	00:58:45	141.900	592.500	602.600	130.400	1.479	6.534	0.000	105.600
X		142.000	589.400	597.900	131.200	1.446	6.317	0.000	104.300
σ		0.632	3.472	4.092	0.781	0.095	0.317	0.000	1.059
%RSD		0.445	0.589	0.684	0.595	6.547	5.010	0.000	1.015
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	0.000	6.374	6.353	72.336%	0.304	0.202	1.438	1.164
2	00:58:02	0.000	6.387	6.396	73.268%	0.262	0.179	1.239	1.033
3	00:58:45	0.000	6.694	6.631	73.059%	0.266	0.186	1.369	1.017
X		0.000	6.485	6.460	72.888%	0.277	0.189	1.349	1.071
σ		0.000	0.181	0.150	0.489%	0.023	0.012	0.101	0.081
%RSD		0.000	2.799	2.321	0.671	8.426	6.352	7.499	7.530
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:57:19	71.221%	7.419	0.390	0.453	203.300	204.500	73.153%	71.893%
2	00:58:02	72.738%	7.300	0.385	0.428	201.600	203.100	75.535%	74.705%
3	00:58:45	73.138%	7.527	0.417	0.401	203.600	205.000	76.141%	75.497%
X		72.366%	7.416	0.397	0.428	202.800	204.200	74.943%	74.032%
σ		1.011%	0.113	0.017	0.026	1.104	0.970	1.579%	1.894%
%RSD		1.397	1.528	4.348	6.047	0.544	0.475	2.108	2.558
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:57:19	0.950	0.914	81.400	80.060	80.480	69.001%		
2	00:58:02	0.936	0.948	82.000	80.760	80.940	71.037%		
3	00:58:45	0.963	0.958	82.170	81.430	81.450	71.819%		
X		0.950	0.940	81.860	80.750	80.960	70.619%		
σ		0.013	0.023	0.403	0.686	0.489	1.454%		
%RSD		1.411	2.464	0.492	0.850	0.604	2.060		

240-18449-I-4-A 12/24/2012 1:00:56 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	86.127%	5.323	34.990	36.400	0.000	570.100	45540.000	47140.000
2	01:02:22	82.081%	5.408	34.510	35.140	0.000	557.600	45630.000	47420.000
3	01:03:05	83.573%	5.667	34.380	35.620	0.000	559.600	45830.000	47670.000
X		83.927%	5.466	34.620	35.720	0.000	562.400	45670.000	47410.000
σ		2.046%	0.179	0.322	0.637	0.000	6.723	145.200	266.100
%RSD		2.438	3.273	0.930	1.783	0.000	1.195	0.318	0.561
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	97810.000	1944.000	0.000	14470.000	68610.000	71940.000	90.378%	423.500
2	01:02:22	99030.000	1934.000	0.000	14380.000	69280.000	71830.000	88.920%	419.000
3	01:03:05	97620.000	1946.000	0.000	14400.000	70320.000	73360.000	87.637%	428.800
X		98160.000	1941.000	0.000	14420.000	69400.000	72380.000	88.978%	423.800
σ		766.700	6.678	0.000	48.100	864.400	852.600	1.372%	4.890
%RSD		0.781	0.344	0.000	0.334	1.246	1.178	1.541	1.154
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	148.100	154.900	2515.000	267900.000	273600.000	119.600	272.700	159.200
2	01:02:22	145.400	153.600	2511.000	264500.000	270900.000	120.200	274.100	159.900
3	01:03:05	150.500	156.700	2575.000	269900.000	278900.000	121.500	280.700	162.900
X		148.000	155.100	2534.000	267400.000	274500.000	120.400	275.800	160.700
σ		2.560	1.568	35.770	2771.000	4021.000	0.965	4.270	1.981
%RSD		1.730	1.011	1.412	1.036	1.465	0.802	1.548	1.233
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	159.700	601.700	607.600	162.900	1.176	7.109	0.000	157.100
2	01:02:22	159.700	601.600	610.100	161.500	1.392	7.097	0.000	155.500
3	01:03:05	163.500	613.600	620.800	165.200	1.623	7.408	0.000	159.300
X		160.900	605.700	612.800	163.200	1.397	7.205	0.000	157.300
σ		2.185	6.886	7.001	1.869	0.224	0.176	0.000	1.935
%RSD		1.358	1.137	1.142	1.145	16.020	2.441	0.000	1.230
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	0.000	10.950	10.710	73.017%	0.338	0.183	1.732	1.215
2	01:02:22	0.000	10.750	10.920	73.758%	0.337	0.169	1.697	1.244
3	01:03:05	0.000	10.870	11.020	72.524%	0.341	0.182	1.597	1.181
X		0.000	10.860	10.880	73.100%	0.338	0.178	1.675	1.213
σ		0.000	0.104	0.160	0.621%	0.002	0.008	0.070	0.032
%RSD		0.000	0.958	1.472	0.850	0.580	4.535	4.195	2.632
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:01:39	72.671%	6.045	0.483	0.509	437.000	440.200	75.713%	74.177%
2	01:02:22	73.755%	6.023	0.435	0.520	433.000	434.400	77.064%	76.109%
3	01:03:05	73.202%	5.961	0.528	0.551	441.500	441.100	77.011%	75.902%
X		73.209%	6.010	0.482	0.527	437.200	438.600	76.596%	75.396%
σ		0.542%	0.043	0.047	0.022	4.215	3.624	0.765%	1.061%
%RSD		0.741	0.723	9.745	4.133	0.964	0.826	0.999	1.407
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:01:39	1.391	1.357	101.500	99.890	100.100	66.650%		
2	01:02:22	1.342	1.346	99.390	98.410	98.830	68.679%		
3	01:03:05	1.359	1.350	101.000	99.620	100.500	68.417%		
X		1.364	1.351	100.600	99.310	99.820	67.916%		
σ		0.025	0.005	1.092	0.787	0.882	1.104%		
%RSD		1.827	0.385	1.085	0.792	0.883	1.625		

CCV 664806 12/24/2012 1:08:08 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	81.510%	104.600	105.500	107.600	0.000	49040.000	47170.000	48940.000
2	01:09:34	79.762%	106.900	106.400	106.800	0.000	51000.000	48580.000	49860.000
3	01:10:17	78.731%	106.000	108.100	106.200	0.000	49250.000	47180.000	48750.000
X		80.001%	105.822%	106.653%	106.876%	0.000	99.525%	95.293%	98.365%
σ		1.405%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.756	1.073	1.228	0.647	0.000	2.165	1.705	1.206
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	512.200	5280.000	0.000	48500.000	48340.000	49640.000	89.017%	104.700
2	01:09:34	510.600	5385.000	0.000	49530.000	49660.000	51090.000	85.448%	104.100
3	01:10:17	504.300	5290.000	0.000	47790.000	47730.000	49490.000	86.231%	102.200
X		101.810%	106.368%	0.000	97.214%	97.157%	100.145%	86.899%	103.684%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.876%	n/a
%RSD		0.820	1.082	0.000	1.797	2.034	1.757	2.159	1.248
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	98.130	97.790	517.800	25890.000	25640.000	96.380	94.800	95.760
2	01:09:34	101.100	99.710	532.900	26380.000	26210.000	99.760	99.200	100.700
3	01:10:17	98.990	98.540	518.000	25630.000	25370.000	95.710	96.050	95.970
X		99.419%	98.681%	104.586%	103.866%	102.966%	97.284%	96.682%	97.485%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.563	0.982	1.656	1.463	1.662	2.231	2.346	2.884
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	94.980	99.950	99.470	99.010	102.000	105.400	0.000	96.660
2	01:09:34	98.570	103.700	103.200	102.900	105.100	110.500	0.000	99.410
3	01:10:17	95.600	100.400	100.300	98.920	103.100	105.800	0.000	96.620
X		96.380%	101.350%	100.972%	100.293%	103.441%	107.216%	0.000	97.561%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.990	1.986	1.926	2.294	1.526	2.652	0.000	1.637
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	78.935%	98.530	99.030	75.398%	97.830	99.010	100.800	102.700
2	01:09:34	78.449%	103.300	104.500	74.844%	99.060	100.400	103.100	104.200
3	01:10:17	80.204%	102.200	102.700	75.524%	96.910	97.900	99.890	101.400
X		79.196%	101.349%	102.080%	75.255%	97.936%	99.115%	101.265%	102.782%
σ		0.906%	n/a	n/a	0.362%	n/a	n/a	n/a	n/a
%RSD		1.144	2.462	2.742	0.481	1.101	1.287	1.656	1.327
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:08:51	72.926%	99.710	101.200	99.400	98.360	98.340	71.743%	72.110%
2	01:09:34	73.545%	102.600	103.000	102.600	100.200	100.300	73.250%	73.839%
3	01:10:17	74.929%	99.940	100.200	100.500	97.500	98.540	74.468%	75.458%
X		73.800%	100.744%	101.432%	100.835%	98.691%	99.058%	73.154%	73.802%
σ		1.025%	n/a	n/a	n/a	n/a	n/a	1.365%	1.674%
%RSD		1.389	1.580	1.420	1.614	1.401	1.082	1.866	2.269
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:08:51	95.750	94.460	95.110	94.780	94.930	70.424%		
2	01:09:34	98.420	98.660	98.910	98.430	98.080	71.177%		
3	01:10:17	95.240	95.220	95.960	96.200	95.740	72.839%		
X		96.467%	96.113%	96.661%	96.472%	96.250%	71.480%		
σ		n/a	n/a	n/a	n/a	n/a	1.236%		
%RSD		1.770	2.325	2.063	1.908	1.703	1.729		



CCB7 12/24/2012 1:16:07 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	98.870%	-0.017	1.154	0.890	0.000	1.849	3.236	3.283
2	01:17:33	95.661%	-0.010	0.954	0.788	0.000	1.863	3.516	3.572
3	01:18:16	97.707%	-0.007	0.795	0.762	0.000	1.333	2.922	2.859
X		97.412%	-0.011	0.968	0.813	0.000	1.682	3.224	3.238
σ		1.624%	0.005	0.180	0.068	0.000	0.302	0.297	0.359
%RSD		1.668	43.190	18.600	8.326	0.000	17.940	9.217	11.070
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	2.614	-2.656	0.000	-10.980	40.560	26.470	103.425%	-0.073
2	01:17:33	2.830	-3.110	0.000	-10.140	30.430	30.580	99.912%	-0.042
3	01:18:16	2.332	-2.399	0.000	-13.750	31.580	26.350	103.757%	-0.002
X		2.592	-2.721	0.000	-11.620	34.190	27.800	102.365%	-0.039
σ		0.249	0.360	0.000	1.890	5.545	2.407	2.130%	0.036
%RSD		9.624	13.230	0.000	16.260	16.220	8.657	2.081	91.690
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	-0.003	-0.070	0.408	-3.745	11.380	-0.007	-0.011	-0.022
2	01:17:33	-0.023	-0.056	0.394	-6.509	9.991	-0.007	-0.014	-0.044
3	01:18:16	0.006	-0.090	0.356	-12.080	6.110	-0.009	-0.026	-0.042
X		-0.007	-0.072	0.386	-7.444	9.161	-0.008	-0.017	-0.036
σ		0.015	0.017	0.027	4.244	2.732	0.001	0.008	0.012
%RSD		220.500	23.990	6.957	57.020	29.820	18.210	46.770	34.340
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	-0.051	-0.453	-0.676	-0.099	-0.928	-0.642	0.000	0.018
2	01:17:33	-0.062	-0.399	-0.455	0.088	-0.862	0.141	0.000	0.023
3	01:18:16	-0.046	-0.464	-0.667	0.082	-0.878	0.221	0.000	0.022
X		-0.053	-0.438	-0.599	0.024	-0.889	-0.093	0.000	0.021
σ		0.008	0.035	0.125	0.106	0.034	0.477	0.000	0.003
%RSD		14.990	7.897	20.860	446.400	3.850	510.700	0.000	13.850
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	96.427%	0.188	0.168	90.877%	-0.011	-0.009	-0.076	-0.027
2	01:17:33	95.686%	0.134	0.147	88.477%	-0.007	-0.006	-0.105	-0.057
3	01:18:16	97.608%	0.103	0.118	90.492%	-0.012	-0.005	-0.135	-0.069
X		96.574%	0.142	0.144	89.949%	-0.010	-0.007	-0.105	-0.051
σ		0.970%	0.043	0.025	1.289%	0.003	0.002	0.029	0.022
%RSD		1.004	30.350	17.510	1.433	27.160	33.880	28.070	42.590
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:16:50	84.078%	-0.375	-0.066	-0.043	0.008	0.032	84.993%	84.971%
2	01:17:33	83.416%	-0.422	-0.069	-0.042	0.012	0.054	84.373%	85.509%
3	01:18:16	86.234%	-0.398	-0.067	-0.034	0.036	0.047	88.377%	88.800%
X		84.576%	-0.398	-0.067	-0.040	0.019	0.044	85.914%	86.427%
σ		1.473%	0.023	0.002	0.005	0.015	0.011	2.155%	2.073%
%RSD		1.742	5.890	2.642	12.070	80.970	25.850	2.509	2.398
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:16:50	0.001	0.004	0.103	0.109	0.099	89.342%		
2	01:17:33	0.012	0.006	0.084	0.081	0.086	89.619%		
3	01:18:16	0.003	0.002	0.072	0.072	0.076	92.722%		
X		0.006	0.004	0.086	0.087	0.087	90.561%		
σ		0.006	0.002	0.016	0.019	0.012	1.877%		
%RSD		102.800	48.470	18.200	21.800	13.520	2.072		

240-18449-I-5-A 12/24/2012 1:20:28 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	87.844%	5.074	33.540	33.940	0.000	664.200	40690.000	42230.000
2	01:21:54	88.838%	5.057	33.540	34.580	0.000	661.000	40000.000	40710.000
3	01:22:37	86.095%	5.088	33.730	33.780	0.000	644.300	40280.000	41980.000
X		87.592%	5.073	33.600	34.100	0.000	656.500	40320.000	41640.000
σ		1.389%	0.016	0.112	0.422	0.000	10.710	345.300	816.500
%RSD		1.586	0.307	0.333	1.238	0.000	1.631	0.856	1.961
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	88110.000	1217.000	0.000	13980.000	32370.000	33530.000	94.076%	387.400
2	01:21:54	87750.000	1061.000	0.000	13920.000	32880.000	34030.000	93.903%	380.200
3	01:22:37	90640.000	1214.000	0.000	14270.000	32930.000	34250.000	90.276%	403.100
X		88830.000	1164.000	0.000	14050.000	32730.000	33940.000	92.752%	390.200
σ		1577.000	89.270	0.000	186.500	312.500	367.700	2.146%	11.700
%RSD		1.775	7.667	0.000	1.327	0.955	1.083	2.313	2.999
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	135.100	135.300	1756.000	235100.000	238600.000	96.120	225.700	133.300
2	01:21:54	135.700	138.100	1776.000	236500.000	240600.000	98.360	228.600	135.700
3	01:22:37	142.500	143.200	1828.000	243400.000	250600.000	103.300	238.100	141.000
X		137.800	138.900	1787.000	238400.000	243300.000	99.240	230.800	136.700
σ		4.105	4.039	37.390	4454.000	6464.000	3.649	6.500	3.905
%RSD		2.979	2.908	2.093	1.868	2.657	3.677	2.816	2.858
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	132.400	485.400	488.600	137.900	1.563	6.849	0.000	91.790
2	01:21:54	135.300	494.300	501.400	139.400	1.555	6.721	0.000	94.080
3	01:22:37	141.700	512.700	515.100	143.800	1.339	6.523	0.000	96.060
X		136.500	497.500	501.700	140.400	1.486	6.698	0.000	93.980
σ		4.750	13.890	13.300	3.087	0.127	0.165	0.000	2.136
%RSD		3.480	2.791	2.651	2.199	8.572	2.455	0.000	2.273
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	0.000	7.823	8.037	75.318%	0.271	0.144	1.264	0.913
2	01:21:54	0.000	8.192	8.250	76.014%	0.261	0.162	1.482	1.035
3	01:22:37	0.000	8.329	8.385	75.193%	0.288	0.172	1.584	1.162
X		0.000	8.114	8.224	75.509%	0.273	0.159	1.444	1.037
σ		0.000	0.262	0.175	0.442%	0.014	0.014	0.164	0.125
%RSD		0.000	3.228	2.131	0.585	5.075	9.003	11.330	12.020
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:21:11	73.675%	7.188	0.568	0.592	403.300	404.500	77.013%	75.679%
2	01:21:54	75.460%	6.717	0.530	0.546	408.100	409.600	78.292%	77.346%
3	01:22:37	74.309%	6.864	0.560	0.527	416.300	414.200	77.875%	76.777%
X		74.481%	6.923	0.553	0.555	409.200	409.400	77.727%	76.601%
σ		0.905%	0.241	0.020	0.033	6.579	4.843	0.652%	0.847%
%RSD		1.215	3.480	3.561	6.029	1.608	1.183	0.839	1.106
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:21:11	1.083	1.130	97.740	96.360	96.650	69.074%		
2	01:21:54	1.164	1.119	100.200	98.050	98.950	70.046%		
3	01:22:37	1.186	1.154	100.700	99.080	99.790	69.892%		
X		1.144	1.134	99.560	97.830	98.470	69.670%		
σ		0.054	0.018	1.599	1.371	1.626	0.523%		
%RSD		4.718	1.546	1.606	1.402	1.652	0.750		

240-18449-N-6-A 12/24/2012 1:24:47 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	84.956%	5.563	74.150	75.360	0.000	751.200	50380.000	52580.000
2	01:26:13	82.472%	5.750	75.840	76.370	0.000	742.100	50270.000	52600.000
3	01:26:56	79.430%	5.825	77.920	79.520	0.000	775.700	52890.000	55190.000
X		82.286%	5.713	75.970	77.080	0.000	756.400	51180.000	53460.000
σ		2.768%	0.135	1.887	2.169	0.000	17.380	1482.000	1501.000
%RSD		3.363	2.361	2.483	2.814	0.000	2.298	2.895	2.809
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	108800.000	1623.000	0.000	21850.000	174600.000	178300.000	89.563%	579.500
2	01:26:13	109000.000	1613.000	0.000	21370.000	171500.000	178200.000	86.470%	574.500
3	01:26:56	113500.000	1702.000	0.000	22630.000	182600.000	189600.000	84.663%	608.600
X		110400.000	1646.000	0.000	21950.000	176200.000	182000.000	86.899%	587.600
σ		2649.000	49.170	0.000	635.700	5707.000	6542.000	2.477%	18.420
%RSD		2.400	2.987	0.000	2.896	3.239	3.594	2.851	3.135
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	172.900	159.600	2358.000	213800.000	219900.000	75.810	211.200	154.300
2	01:26:13	173.100	160.400	2365.000	215200.000	219500.000	75.390	210.500	154.700
3	01:26:56	182.200	167.600	2479.000	224300.000	227100.000	78.400	219.900	164.100
X		176.100	162.500	2401.000	217800.000	222200.000	76.530	213.900	157.700
σ		5.289	4.403	67.790	5665.000	4294.000	1.632	5.263	5.541
%RSD		3.004	2.710	2.824	2.601	1.933	2.132	2.461	3.513
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	154.100	463.700	470.700	82.760	1.716	6.351	0.000	301.100
2	01:26:13	155.700	472.000	475.600	82.150	1.911	6.828	0.000	305.200
3	01:26:56	165.600	497.400	496.500	87.210	1.755	7.790	0.000	322.700
X		158.500	477.700	480.900	84.040	1.794	6.990	0.000	309.700
σ		6.186	17.540	13.700	2.764	0.103	0.733	0.000	11.470
%RSD		3.904	3.672	2.849	3.289	5.753	10.490	0.000	3.705
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	0.000	7.698	7.965	71.915%	0.265	0.153	1.795	1.408
2	01:26:13	0.000	7.957	8.139	71.947%	0.248	0.145	1.724	1.322
3	01:26:56	0.000	8.592	8.504	70.232%	0.267	0.142	1.685	1.319
X		0.000	8.083	8.202	71.365%	0.260	0.147	1.735	1.350
σ		0.000	0.460	0.275	0.981%	0.010	0.006	0.056	0.051
%RSD		0.000	5.688	3.354	1.375	3.972	3.779	3.213	3.763
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:25:30	72.041%	7.089	0.439	0.439	442.600	442.500	74.086%	72.886%
2	01:26:13	73.257%	7.039	0.418	0.455	440.300	439.600	76.276%	74.984%
3	01:26:56	71.348%	7.540	0.449	0.495	466.200	464.000	74.703%	73.915%
X		72.215%	7.223	0.435	0.463	449.700	448.700	75.022%	73.928%
σ		0.966%	0.276	0.016	0.029	14.320	13.300	1.129%	1.049%
%RSD		1.338	3.819	3.611	6.286	3.184	2.964	1.505	1.419
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:25:30	1.240	1.227	85.960	84.480	85.260	65.721%		
2	01:26:13	1.209	1.218	85.870	84.140	85.240	68.031%		
3	01:26:56	1.271	1.297	90.750	88.490	89.550	67.280%		
X		1.240	1.247	87.520	85.700	86.680	67.010%		
σ		0.031	0.043	2.792	2.420	2.484	1.178%		
%RSD		2.526	3.477	3.190	2.823	2.866	1.758		

240-18441-H-1-A@10 12/24/2012 1:29:07 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	85.921%	1.746	3.874	3.826	0.000	40.340	2648.000	2640.000
2	01:30:33	80.735%	1.904	3.670	3.704	0.000	42.730	2839.000	2892.000
3	01:31:16	82.609%	1.728	3.157	3.604	0.000	41.100	2802.000	2863.000
X		83.088%	1.793	3.567	3.711	0.000	41.390	2763.000	2798.000
σ		2.626%	0.097	0.369	0.111	0.000	1.221	101.700	137.400
%RSD		3.160	5.387	10.350	2.994	0.000	2.951	3.679	4.909
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	7343.000	321.300	0.000	1108.000	536.200	535.000	89.740%	30.650
2	01:30:33	8076.000	355.500	0.000	1246.000	620.400	631.800	74.879%	33.700
3	01:31:16	8220.000	358.600	0.000	1311.000	648.500	661.900	67.557%	35.330
X		7879.000	345.100	0.000	1222.000	601.700	609.600	77.392%	33.230
σ		470.400	20.710	0.000	103.700	58.450	66.300	11.303%	2.375
%RSD		5.970	6.001	0.000	8.492	9.714	10.880	14.605	7.149
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	20.770	16.760	3456.000	151200.000	150400.000	12.670	30.850	25.750
2	01:30:33	23.200	19.040	3893.000	168800.000	168000.000	14.330	34.910	28.410
3	01:31:16	24.910	19.800	3997.000	174800.000	173200.000	14.510	35.510	28.390
X		22.960	18.530	3782.000	165000.000	163900.000	13.840	33.760	27.520
σ		2.080	1.585	286.700	12260.000	11950.000	1.016	2.535	1.533
%RSD		9.061	8.554	7.582	7.435	7.289	7.342	7.511	5.571
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	25.640	69.660	71.060	4.485	-0.324	2.682	0.000	5.306
2	01:30:33	27.720	77.770	77.360	4.746	-0.330	2.434	0.000	5.519
3	01:31:16	28.050	78.600	78.310	4.497	-0.339	2.430	0.000	5.326
X		27.140	75.350	75.580	4.576	-0.331	2.515	0.000	5.383
σ		1.309	4.939	3.940	0.147	0.008	0.144	0.000	0.117
%RSD		4.824	6.555	5.213	3.219	2.305	5.746	0.000	2.183
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	86.442%	2.442	2.351	78.177%	0.023	0.009	0.353	0.300
2	01:30:33	82.697%	2.512	2.565	73.885%	0.025	0.015	0.205	0.197
3	01:31:16	81.191%	2.319	2.443	73.841%	0.020	0.024	0.319	0.227
X		83.443%	2.424	2.453	75.301%	0.023	0.016	0.292	0.241
σ		2.704%	0.098	0.107	2.491%	0.003	0.007	0.077	0.053
%RSD		3.241	4.036	4.376	3.308	12.310	46.210	26.500	22.100
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:29:50	74.124%	0.546	0.043	0.052	78.150	77.210	75.811%	76.278%
2	01:30:33	72.171%	0.480	0.041	0.058	78.660	80.850	74.023%	74.598%
3	01:31:16	71.485%	0.477	0.050	0.049	75.980	77.330	74.311%	74.832%
X		72.593%	0.501	0.045	0.053	77.600	78.470	74.715%	75.236%
σ		1.370%	0.039	0.005	0.004	1.427	2.067	0.960%	0.910%
%RSD		1.887	7.700	11.340	8.018	1.839	2.634	1.285	1.210
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:29:50	0.100	0.095	13.710	13.210	13.360	78.486%		
2	01:30:33	0.108	0.103	14.100	13.640	13.800	77.084%		
3	01:31:16	0.089	0.106	13.630	13.320	13.380	77.621%		
X		0.099	0.101	13.820	13.390	13.510	77.730%		
σ		0.010	0.005	0.251	0.223	0.246	0.707%		
%RSD		9.653	5.362	1.820	1.663	1.821	0.910		

240-18441-H-9-A@10 12/24/2012 1:33:28 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	85.520%	1.418	3.212	3.119	0.000	32.300	3092.000	3101.000
2	01:34:54	82.656%	1.423	3.331	3.297	0.000	37.880	3486.000	3486.000
3	01:35:37	81.438%	1.393	2.600	3.207	0.000	33.930	3248.000	3314.000
X		83.205%	1.411	3.048	3.208	0.000	34.700	3275.000	3301.000
σ		2.095%	0.016	0.393	0.089	0.000	2.872	198.300	192.900
%RSD		2.518	1.116	12.880	2.772	0.000	8.275	6.056	5.845
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	8710.000	203.100	0.000	1334.000	609.900	570.100	82.261%	39.070
2	01:34:54	9752.000	227.600	0.000	1545.000	724.400	686.300	67.672%	46.040
3	01:35:37	9195.000	212.900	0.000	1398.000	628.700	636.600	71.798%	42.210
X		9219.000	214.500	0.000	1426.000	654.300	631.000	73.910%	42.440
σ		521.100	12.330	0.000	107.900	61.400	58.300	7.521%	3.489
%RSD		5.653	5.748	0.000	7.564	9.384	9.240	10.176	8.221
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	20.860	19.020	1434.000	86820.000	85640.000	14.880	35.580	30.230
2	01:34:54	23.880	21.790	1661.000	100300.000	97930.000	16.660	39.910	34.030
3	01:35:37	22.090	20.300	1551.000	93690.000	92380.000	15.740	37.850	31.960
X		22.280	20.370	1549.000	93590.000	91990.000	15.760	37.780	32.070
σ		1.516	1.388	113.400	6723.000	6152.000	0.892	2.167	1.902
%RSD		6.806	6.815	7.319	7.183	6.688	5.657	5.735	5.931
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	29.860	75.620	76.390	3.543	-0.516	2.072	0.000	5.462
2	01:34:54	33.700	84.450	84.590	4.129	-0.404	2.034	0.000	5.471
3	01:35:37	31.790	79.990	79.880	3.779	-0.373	1.993	0.000	5.329
X		31.780	80.020	80.290	3.817	-0.431	2.033	0.000	5.420
σ		1.919	4.416	4.117	0.295	0.075	0.040	0.000	0.080
%RSD		6.038	5.518	5.128	7.724	17.410	1.944	0.000	1.470
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	80.415%	1.112	1.113	73.143%	0.027	0.002	0.263	0.238
2	01:34:54	79.925%	1.137	1.161	72.301%	0.019	0.015	0.230	0.174
3	01:35:37	79.724%	1.035	1.133	71.906%	0.028	0.011	0.250	0.201
X		80.022%	1.095	1.136	72.450%	0.025	0.009	0.248	0.204
σ		0.355%	0.053	0.024	0.632%	0.005	0.007	0.017	0.032
%RSD		0.444	4.819	2.101	0.873	19.350	73.740	6.728	15.720
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:34:11	70.295%	0.661	0.049	0.074	49.150	49.890	72.351%	72.133%
2	01:34:54	70.271%	0.814	0.071	0.073	49.820	50.650	72.678%	73.409%
3	01:35:37	70.227%	0.731	0.068	0.071	49.090	49.210	73.384%	73.800%
X		70.264%	0.735	0.063	0.073	49.350	49.920	72.804%	73.114%
σ		0.034%	0.076	0.012	0.002	0.407	0.724	0.528%	0.872%
%RSD		0.049	10.350	19.280	2.110	0.824	1.451	0.725	1.193
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:34:11	0.095	0.095	13.540	13.650	13.530	75.394%		
2	01:34:54	0.096	0.087	14.070	13.870	13.830	76.227%		
3	01:35:37	0.073	0.091	14.050	13.800	13.780	77.536%		
X		0.088	0.091	13.890	13.770	13.710	76.386%		
σ		0.013	0.004	0.300	0.114	0.161	1.080%		
%RSD		14.490	4.123	2.163	0.829	1.173	1.413		

CRI 668876 12/24/2012 1:50:48 AM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	89.835%	0.930	5.747	6.042	0.000	98.800	96.150	95.310
2	01:52:14	87.918%	1.027	5.857	5.929	0.000	97.500	95.090	94.360
3	01:52:57	87.970%	1.005	6.198	6.153	0.000	98.070	94.550	95.860
X		88.574%	98.734%	118.686%	120.827%	0.000	98.124%	95.261%	95.177%
σ		1.092%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.233	5.115	3.961	1.852	0.000	0.667	0.855	0.798
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	32.760	510.800	0.000	87.650	127.800	109.100	89.864%	5.167
2	01:52:14	32.620	511.500	0.000	85.920	104.300	111.800	87.485%	4.996
3	01:52:57	33.010	517.300	0.000	85.340	113.600	109.600	86.133%	5.111
X		109.323%	102.639%	0.000	86.303%	115.237%	110.177%	87.828%	101.836%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.889%	n/a
%RSD		0.597	0.693	0.000	1.388	10.280	1.304	2.151	1.713
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	0.963	1.888	5.592	49.640	61.060	0.456	0.992	1.906
2	01:52:14	0.935	1.863	5.596	50.790	60.170	0.490	1.022	1.939
3	01:52:57	0.944	1.882	5.839	49.160	60.570	0.491	0.970	1.960
X		94.698%	93.886%	1135.151%	99.724%	121.198%	95.794%	99.446%	96.741%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.518	0.699	2.484	1.685	0.738	4.146	2.640	1.396
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	1.844	4.903	4.591	1.173	3.853	5.577	0.000	4.381
2	01:52:14	1.934	4.738	4.866	1.026	4.166	5.452	0.000	4.272
3	01:52:57	1.949	5.115	5.009	1.288	3.892	5.763	0.000	4.312
X		95.458%	98.373%	96.440%	116.224%	79.407%	111.941%	0.000	86.428%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.987	3.844	4.403	11.330	4.299	2.792	0.000	1.276
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	88.069%	4.367	4.285	79.277%	0.988	0.993	1.124	1.063
2	01:52:14	88.175%	4.431	4.656	79.477%	1.012	1.015	0.934	1.059
3	01:52:57	87.922%	4.435	4.690	79.408%	0.947	1.017	1.121	1.088
X		88.056%	88.218%	90.870%	79.387%	98.236%	100.802%	105.970%	107.025%
σ		0.127%	n/a	n/a	0.101%	n/a	n/a	n/a	n/a
%RSD		0.144	0.866	4.939	0.128	3.344	1.326	10.280	1.480
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:31	73.692%	5.238	1.951	1.895	9.962	9.649	73.910%	74.400%
2	01:52:14	74.838%	5.267	1.913	1.947	9.749	9.813	75.787%	75.824%
3	01:52:57	75.105%	5.213	1.949	2.032	9.548	9.855	76.306%	76.583%
X		74.545%	104.786%	96.882%	97.920%	97.531%	97.725%	75.334%	75.602%
σ		0.750%	n/a	n/a	n/a	n/a	n/a	1.260%	1.108%
%RSD		1.007	0.511	1.110	3.532	2.125	1.111	1.673	1.466
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:51:31	0.834	0.864	0.948	0.881	0.908	82.203%		
2	01:52:14	0.875	0.876	0.929	0.994	0.945	83.140%		
3	01:52:57	0.865	0.895	0.959	0.960	0.933	83.861%		
X		85.774%	87.838%	94.542%	94.500%	92.855%	83.068%		
σ		n/a	n/a	n/a	n/a	n/a	0.832%		
%RSD		2.494	1.763	1.634	6.168	1.994	1.001		

CCV 664806 12/24/2012 1:58:01 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	86.371%	97.250	94.850	97.300	0.000	46480.000	45390.000	46030.000
2	01:59:27	86.665%	96.140	97.660	96.470	0.000	46550.000	45440.000	46070.000
3	02:00:10	86.674%	99.190	102.700	101.100	0.000	48790.000	46730.000	47140.000
x		86.570%	97.527%	98.411%	98.304%	0.000	94.550%	91.702%	92.827%
σ		0.172%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.199	1.584	4.051	2.537	0.000	2.774	1.656	1.357
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	463.900	4944.000	0.000	46390.000	46390.000	48470.000	92.252%	98.330
2	01:59:27	475.100	4988.000	0.000	46360.000	45870.000	47690.000	92.015%	95.580
3	02:00:10	485.700	5106.000	0.000	47800.000	47730.000	49410.000	89.531%	102.500
x		94.976%	100.254%	0.000	93.703%	93.325%	97.042%	91.266%	98.813%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.507%	n/a
%RSD		2.293	1.677	0.000	1.763	2.055	1.776	1.651	3.538
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	93.370	93.210	496.500	24730.000	24570.000	92.440	91.680	93.210
2	01:59:27	92.930	93.890	498.400	24610.000	24450.000	92.630	91.320	93.650
3	02:00:10	98.490	97.330	521.200	25780.000	25720.000	97.010	96.570	97.010
x		94.928%	94.810%	101.075%	100.162%	99.656%	94.024%	93.189%	94.623%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.254	2.326	2.722	2.560	2.823	2.748	3.149	2.194
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	92.960	96.790	96.360	97.630	100.800	104.600	0.000	96.480
2	01:59:27	93.800	97.530	97.740	98.300	100.300	105.600	0.000	95.670
3	02:00:10	97.430	101.800	101.000	100.800	104.400	109.100	0.000	99.570
x		94.733%	98.712%	98.362%	98.924%	101.854%	106.459%	0.000	97.242%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.509	2.747	2.413	1.713	2.204	2.213	0.000	2.119
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	76.239%	96.680	97.420	73.556%	95.110	95.520	97.620	98.350
2	01:59:27	77.969%	98.060	98.270	76.334%	93.470	93.680	95.710	97.240
3	02:00:10	78.279%	102.400	102.700	75.686%	96.580	98.120	99.280	100.600
x		77.496%	99.053%	99.463%	75.192%	95.052%	95.774%	97.535%	98.724%
σ		1.099%	n/a	n/a	1.453%	n/a	n/a	n/a	n/a
%RSD		1.419	3.024	2.848	1.933	1.636	2.332	1.830	1.727
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:58:44	72.258%	96.730	96.530	96.680	93.950	94.480	72.812%	73.057%
2	01:59:27	74.514%	95.430	96.420	96.510	92.570	93.310	75.733%	76.409%
3	02:00:10	74.866%	99.210	99.610	99.430	95.250	96.420	75.586%	76.366%
x		73.879%	97.121%	97.518%	97.541%	93.926%	94.737%	74.710%	75.277%
σ		1.415%	n/a	n/a	n/a	n/a	n/a	1.646%	1.923%
%RSD		1.915	1.977	1.855	1.678	1.426	1.656	2.203	2.555
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	01:58:44	95.350	95.110	95.790	95.360	95.550	67.160%		
2	01:59:27	94.530	95.010	95.440	95.070	95.100	69.379%		
3	02:00:10	98.460	98.990	98.960	98.870	98.910	69.055%		
x		96.111%	96.370%	96.731%	96.434%	96.518%	68.531%		
σ		n/a	n/a	n/a	n/a	n/a	1.198%		
%RSD		2.158	2.356	2.008	2.196	2.155	1.749		

CCBS 12/24/2012 2:05:59 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	101.845%	-0.013	0.470	0.590	0.000	2.967	4.209	3.970
2	02:07:25	97.703%	-0.011	0.466	0.568	0.000	2.603	4.524	4.041
3	02:08:08	95.652%	-0.015	0.333	0.379	0.000	2.644	4.052	3.860
X		98.400%	-0.013	0.423	0.512	0.000	2.738	4.262	3.957
σ		3.155%	0.002	0.078	0.116	0.000	0.199	0.241	0.091
%RSD		3.206	17.830	18.370	22.630	0.000	7.278	5.648	2.300
Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	2.681	-3.481	0.000	-8.741	34.200	25.880	109.329%	-0.070
2	02:07:25	2.729	-3.339	0.000	-8.780	33.550	30.370	105.949%	-0.094
3	02:08:08	2.837	-3.282	0.000	-8.385	36.230	30.620	103.920%	-0.043
X		2.749	-3.367	0.000	-8.635	34.660	28.960	106.399%	-0.069
σ		0.080	0.102	0.000	0.218	1.401	2.669	2.733%	0.025
%RSD		2.909	3.044	0.000	2.518	4.041	9.216	2.568	36.730
Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	-0.007	-0.072	0.282	-4.351	11.640	-0.007	-0.012	-0.016
2	02:07:25	0.004	-0.058	0.258	-7.071	10.930	-0.005	-0.016	-0.032
3	02:08:08	0.006	-0.071	0.279	-7.338	8.960	-0.000	0.009	-0.030
X		0.001	-0.067	0.273	-6.253	10.510	-0.004	-0.007	-0.026
σ		0.007	0.008	0.013	1.653	1.390	0.003	0.013	0.009
%RSD		632.200	11.810	4.814	26.430	13.220	79.670	200.500	33.510
Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	-0.046	-0.420	-0.411	-0.052	-0.663	0.071	0.000	0.019
2	02:07:25	-0.051	-0.359	-0.514	0.033	-0.743	0.365	0.000	0.027
3	02:08:08	-0.050	-0.412	-0.400	0.047	-0.602	0.576	0.000	0.026
X		-0.049	-0.397	-0.442	0.010	-0.669	0.338	0.000	0.024
σ		0.003	0.033	0.063	0.053	0.071	0.253	0.000	0.004
%RSD		5.144	8.348	14.280	561.400	10.540	75.040	0.000	17.100
Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	92.859%	0.167	0.201	91.062%	-0.007	-0.007	-0.082	-0.031
2	02:07:25	93.415%	0.158	0.155	91.226%	-0.010	-0.008	-0.024	0.012
3	02:08:08	92.635%	0.167	0.148	89.802%	-0.002	-0.007	-0.071	-0.046
X		92.970%	0.164	0.168	90.697%	-0.007	-0.008	-0.059	-0.022
σ		0.402%	0.005	0.029	0.779%	0.004	0.000	0.031	0.030
%RSD		0.432	2.994	16.980	0.859	62.200	5.383	52.250	137.300
Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:42	85.018%	-0.313	-0.053	-0.049	0.038	0.038	84.569%	84.994%
2	02:07:25	85.019%	-0.351	-0.057	-0.035	0.045	0.044	85.773%	86.571%
3	02:08:08	84.588%	-0.460	-0.061	-0.031	0.015	0.042	85.011%	85.803%
X		84.875%	-0.375	-0.057	-0.038	0.033	0.041	85.118%	85.790%
σ		0.248%	0.076	0.004	0.009	0.016	0.003	0.609%	0.789%
%RSD		0.293	20.280	6.861	23.890	47.140	7.575	0.716	0.919
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	02:06:42	0.005	0.005	0.036	0.036	0.041	92.568%		
2	02:07:25	0.001	0.005	0.031	0.029	0.029	93.596%		
3	02:08:08	0.002	0.005	0.024	0.034	0.029	92.831%		
X		0.003	0.005	0.030	0.033	0.033	92.998%		
σ		0.002	0.000	0.006	0.004	0.007	0.534%		
%RSD		83.950	2.004	19.480	11.430	21.490	0.574		



## Performance Report

### Sample details

Sample name : ITUNE

Acquired at : 12/23/2012 5:44:38 PM

Report name : EPA ILMO5.2/6020A 2.1 [8/5/2011 12:59:56 PM]

### Mass Calibration verification

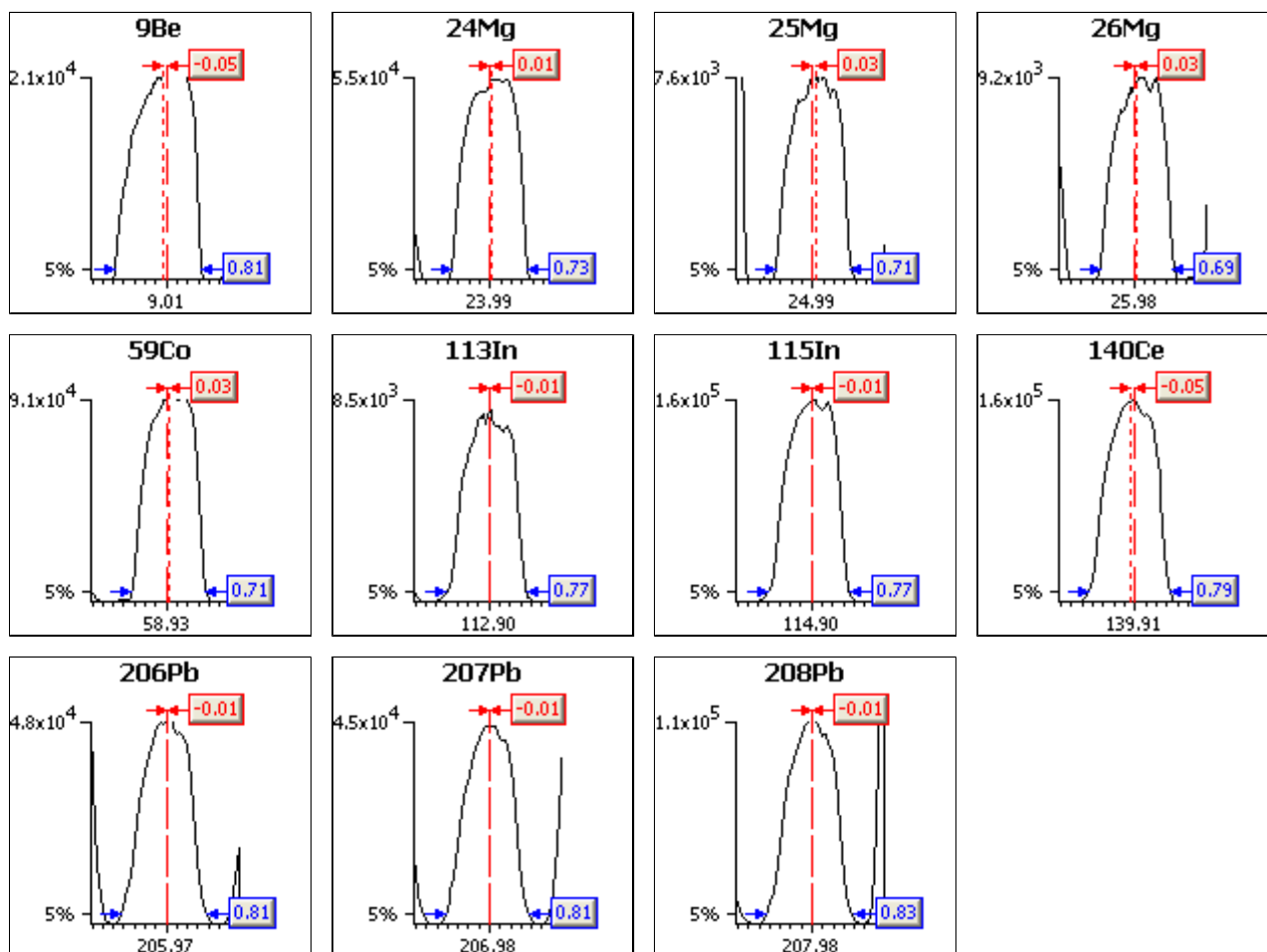
#### Acquisition parameters

Sweeps : 25

Dwell : 2.0 mSecs

Point spacing : 0.02 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
<b>9Be</b>	0.90	0.45	0.10	0.81	-0.05
<b>24Mg</b>	0.90	0.45	0.10	0.73	0.01
<b>25Mg</b>	0.90	0.45	0.10	0.71	0.03
<b>26Mg</b>	0.90	0.45	0.10	0.69	0.03
<b>59Co</b>	0.90	0.45	0.10	0.71	0.03
<b>113In</b>	0.90	0.45	0.10	0.77	-0.01
<b>115In</b>	0.90	0.45	0.10	0.77	-0.01
<b>140Ce</b>	0.90	0.45	0.10	0.79	-0.05
<b>206Pb</b>	0.90	0.45	0.10	0.81	-0.01
<b>207Pb</b>	0.90	0.45	0.10	0.81	-0.01
<b>208Pb</b>	0.90	0.45	0.10	0.83	-0.01

**Sample details**

Sample name : ITUNE

Acquired at : 12/23/2012 5:44:38 PM

Report name : EPA ILM05.2/6020A 2.1 [8/5/2011 12:59:56 PM]

**Tune conditions**

Major		Minor		Global		Add. Gases	
Extraction	-114	Lens 2	-36.1	Standard resolution	n/a	He/H2	0.00
Lens 1	2.0	Lens 3	-176.5	High resolution	n/a	He/NH3	0.00
Focus	26.7	Forward power	1349	Analogue Detector	n/a		
D1	-37.6	Horizontal	72	PC Detector	n/a		
Pole Bias	3.0	Vertical	408				
Hexapole Bias	-3.0	D2	-160				
Nebuliser	0.80	DA	-80.0				
Sampling Depth	150	Cool	13.0				
		Auxiliary	0.90				

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

Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
<b>Dwell (mSecs)</b>		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Limits</b>	<b>%RSD</b>	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	<b>Countrate</b>	-	>500	>500	>500	>500	-	>10000	-
1	5:45:26 PM	0	20234	57006	7075	8235	502422	95929	21
2	5:46:51 PM	0	20019	57152	7270	8371	469364	97878	29
3	5:48:16 PM	0	20265	57066	7142	8473	459450	96889	15
4	5:49:41 PM	0	20319	58006	7078	8468	460590	97412	14
5	5:51:06 PM	0	20580	58279	7352	8406	452737	98147	14
x		0	20283	57502	7183	8391	468913	97251	19
σ		0.07	201.34	594.98	122.94	97.21	19643.79	880.45	6.72
<b>%RSD</b>		100.000	0.993	1.035	1.711	1.159	4.189	0.905	35.981

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
<b>Dwell (mSecs)</b>		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Limits</b>	<b>%RSD</b>	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	<b>Countrate</b>	-	-	>200	>5000	-	>10000	-	>500
1	5:45:26 PM	142	0	7512	162366	3904	168017	2713	52425
2	5:46:51 PM	141	0	7511	166073	3858	171906	2740	53995
3	5:48:16 PM	132	0	7684	166608	3801	172052	2621	54070
4	5:49:41 PM	138	0	7492	165781	3832	171054	2729	53946
5	5:51:06 PM	140	0	7570	168420	3825	173077	2730	53911
x		139	0	7554	165850	3844	171221	2707	53669
σ		4.23	0.03	78.49	2200.55	39.29	1929.87	48.81	698.25
<b>%RSD</b>		3.047	223.607	1.039	1.327	1.022	1.127	1.803	1.301

Run	Time	207Pb	208Pb	220Bkg
<b>Dwell (mSecs)</b>		0.0	0.0	0.0
<b>Limits</b>	<b>%RSD</b>	5.0%	5.0%	-
	<b>Countrate</b>	>500	>500	<2500
1	5:45:26 PM	47827	114068	0
2	5:46:51 PM	48893	115702	0
3	5:48:16 PM	48775	115905	0
4	5:49:41 PM	48638	115529	0
5	5:51:06 PM	48794	116226	0
x		48585	115486	0
σ		433.44	833.81	0.08
<b>%RSD</b>		0.892	0.722	71.261

**Ratio results**

Run	Time	156Ce O/140Ce
<b>Ratio limits</b>		<0.0500
1	5:45:26 PM	0
2	5:46:51 PM	0

3	5:48:16 PM	0
4	5:49:41 PM	0
5	5:51:06 PM	0
$\bar{x}$		0.0158
$\sigma$		0.00
%RSD		2.2022

Result : The performance report passed.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Batch Number: 59062 Batch Start Date: 11/27/12 10:06 Batch Analyst: Reinheimer, Bill

Batch Method: 3050B Batch End Date: 11/27/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	CANMS2 00001	CANMSA)Low 00001	CANMSA High 00001
MB 180-59062/1		3050B, 6020/DOD		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 180-59062/2		3050B, 6020/DOD		CALC NOT SET TO RUN	1.00 g	100 mL	1 mL		1 mL
240-17796-F-1	076SB-0023M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.06 g	100 mL			
240-17796-F-1 DU	076SB-0023M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.06 g	100 mL			
240-17796-F-1 MS	076SB-0023M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.06 g	100 mL	1 mL	1 mL	
240-17796-D-2	076SS-0022M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.02 g	100 mL			
240-17796-F-3	076SB-0024M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.08 g	100 mL			
240-17796-F-4	076SB-0025M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.10 g	100 mL			
240-17796-F-5	076SB-0026M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.37 g	100 mL			
240-17796-F-6	076SB-0027M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.15 g	100 mL			
240-17796-F-7	076SB-0028M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.31 g	100 mL			
240-17796-F-8	076SB-0029M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.17 g	100 mL			
240-17796-D-9	076SB-0053M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.24 g	100 mL			
240-17796-D-10	076SS-0007M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.03 g	100 mL			
240-17796-D-11	076SB-0054M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.39 g	100 mL			
240-17796-D-12	076SB-0055M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.14 g	100 mL			
240-17796-D-13	076SB-0056M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.43 g	100 mL			
240-17796-D-14	076SB-0057M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.02 g	100 mL			
240-17796-D-15	076SB-0058M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.14 g	100 mL			
240-17796-D-16	076SB-0059M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.06 g	100 mL			
240-17796-F-22	076SB-0060M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.04 g	100 mL			
240-17796-F-23	076SB-0061M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.09 g	100 mL			

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Batch Number: 59062 Batch Start Date: 11/27/12 10:06 Batch Analyst: Reinheimer, Bill

Batch Method: 3050B Batch End Date: 11/27/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	CANMS2 00001	CANMSA)Low 00001	CANMSA High 00001
240-17796-F-24	076SB-0062M-0001	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.03 g	100 mL			
240-17796-F-25	076SB-0063M-0001	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.29 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	CANMSB High 00001	CANMSB Low 00001				
MB 180-59062/1		3050B, 6020/DOD							
LCS 180-59062/2		3050B, 6020/DOD		1 mL					
240-17796-F-1	076SB-0023M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-1 DU	076SB-0023M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-1 MS	076SB-0023M-0001 -SO	3050B, 6020/DOD	T		1 mL				
240-17796-D-2	076SS-0022M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-3	076SB-0024M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-4	076SB-0025M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-5	076SB-0026M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-6	076SB-0027M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-7	076SB-0028M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-8	076SB-0029M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-9	076SB-0053M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-10	076SS-0007M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-11	076SB-0054M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-12	076SB-0055M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-13	076SB-0056M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-14	076SB-0057M-0001 -SO	3050B, 6020/DOD	T						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Batch Number: 59062 Batch Start Date: 11/27/12 10:06 Batch Analyst: Reinheimer, Bill

Batch Method: 3050B Batch End Date: 11/27/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CANMSB High 00001	CANMSB Low 00001				
240-17796-D-15	076SB-0058M-0001 -SO	3050B, 6020/DOD	T						
240-17796-D-16	076SB-0059M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-22	076SB-0060M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-23	076SB-0061M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-24	076SB-0062M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-25	076SB-0063M-0001 -SO	3050B, 6020/DOD	T						

Batch Notes	
Analyst	Susan Girard Canton Lab
Balance ID	B038
Batch Comment	Samples were prepared in Canton lab. Batched @ Pitt for TALS upload.
Filter Paper Lot Number	6326666
Hydrogen peroxide lot number	10 mL K45A06
Lot # of hydrochloric acid	10 mL 0000013500
Logbook ID for diluted Nitric	5 mL L03021
Lot # of Nitric Acid	10 mL L03021
Pipette ID	383864-383389
Digestion Tube/Cup Lot #	121014

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Batch Number: 59171 Batch Start Date: 11/28/12 12:40 Batch Analyst: Reinheimer, Bill

Batch Method: 3050B Batch End Date: 11/28/12 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	CANMS2 00001	CANMSA)Low 00001	CANMSA High 00001
MB 180-59171/1		3050B, 6020/DOD		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 180-59171/2		3050B, 6020/DOD		CALC NOT SET TO RUN	1.00 g	100 mL	1 mL		1 mL
240-17796-F-26	076SB-0064M-0001	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.09 g	100 mL			
240-17796-F-26 DU	076SB-0064M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.09 g	100 mL			
240-17796-F-26 MS	076SB-0064M-0001 -SO	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.09 g	100 mL	1 mL	1 mL	
240-17796-F-27	076SB-0065M-0001	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.36 g	100 mL			
240-17796-F-28	076SB-0066M-0001	3050B, 6020/DOD	T	CALC NOT SET TO RUN	1.15 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	CANMSB_High 00001	CANMSB_Low 00001				
MB 180-59171/1		3050B, 6020/DOD							
LCS 180-59171/2		3050B, 6020/DOD		1 mL					
240-17796-F-26	076SB-0064M-0001	3050B, 6020/DOD	T						
240-17796-F-26 DU	076SB-0064M-0001 -SO	3050B, 6020/DOD	T						
240-17796-F-26 MS	076SB-0064M-0001 -SO	3050B, 6020/DOD	T		1 mL				
240-17796-F-27	076SB-0065M-0001	3050B, 6020/DOD	T						
240-17796-F-28	076SB-0066M-0001	3050B, 6020/DOD	T						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-17796-2

SDG No.: \_\_\_\_\_

Batch Number: 59171 Batch Start Date: 11/28/12 12:40 Batch Analyst: Reinheimer, Bill

Batch Method: 3050B Batch End Date: 11/28/12 17:30

Batch Notes	
Analyst	Dale Elshaw Canton Lab
Batch Comment	Samples were prepared in Canton Lab. Batched @ Pitt for TALS upload.
Filter Paper Lot Number	6326666
Hydrogen peroxide lot number	10 mL K45A06
Lot # of hydrochloric acid	10 mL 0000013500
Logbook ID for diluted Nitric	5 mL L03021
Lot # of Nitric Acid	10 mL L03021
Pipette ID	383364-383389
Digestion Tube/Cup Lot #	121014

Basis	Basis Description
T	Total/NA



# Subcontract Data

# Shipping and Receiving Documents

# Chain of Custody Record

TestAmerica Laboratory location:  DW  NPDES  RCRA  Other

<b>Company Name:</b> ECC		<b>Client Project Manager:</b> AL EASTMAN		<b>Lab Contact:</b> MARK LOEB		<b>COC No.:</b> 048703	
<b>Address:</b> 33 BOSTON POST RD CARLISLE MA 01702		<b>Site Contact:</b> J. JOYMAN		<b>Telephone:</b>		<b>1 of 3 COCs</b>	
<b>City/State/Zip:</b> CARLISLE MA 01702		<b>Analysis Transmission Method:</b> TAT (if different from 30 days)		<b>Analyses:</b>		<b>Date/Time:</b>	
<b>Project Name:</b> LAB PICK UP		<b>Method of Shipment/Carrier:</b> LAB PICK UP		VOC SVC TAL METALS NO SOLID EXPLOSIVES PROPRIETARY HEX, CHROMIUM		[ ] [ ] [ ]	
<b>Project Number:</b>		<b>Shipping/Tracking No.:</b>		<b>Composites/Drums:</b>		<b>Sample Specific Notes / Special Instructions:</b> NO EXPLOSIVES NO VOC/SE & H NETA	
<b>PO #</b>		<b>Matrix:</b>		<b>Containers &amp; Preservatives:</b>			
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>			
0765B-0023M-0001-50		11-15-12		0915		X	
0765S-0022M-0001-50		1225		1020		X	
0765B-0024M-0001-50		0900		0920		X	
0765B-0026M-0001-50		0940		1000		X	
0765B-0028M-0001-50		1025		1225		X	
0765B-0029M-0001-50		1225		1000		X	
0765S-0022M-0001-50		1225		1000		X	
0765B-0023M-0001-50		1225		1000		X	

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Archive For Months

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

\* FOR SAMPLE 0765S-0022M-0001-50 PLEASE HOLD HEX CHROM, ANALYSIS USING TOTAL CHROMIUM -  
 CONCENTRATIONS ARE KNOWN - PLEASE CALL JACKSON KILGORE TOTAL CHROMIUM RESULTS FIRST

**Relinquished by:** [Signature]  
**Relinquished by:** [Signature]  
**Relinquished by:** [Signature]

**Received by:** [Signature] **Date/Time:** 11-16-12 1740  
**Received by:** [Signature] **Date/Time:** 11-16-12 1812  
**Received in Laboratory by:** [Signature] **Date/Time:** 11/16/12 1842

Chain of Custody Record

TestAmerica Laboratory location:  
Regulatory program:  DW  NPDES  RCRA  Other

Client Contact Company Name: <b>ECC</b> Address: <b>33 BOSTON POST RD WEST</b> City/State/Zip: <b>MA 01752</b> Phone: <b>9420</b>		Client Project Manager: Name: <b>AL FASTER</b> Telephone: Email:		Site Contact: Name: <b>J. Bonham</b> Telephone:		Lab Contact: Name: <b>MAAX 6000</b> Telephone:		COC No: <b>048704</b> of <b>3</b> COCs	
Project Name: Project Number: PO #		Method of Shipment/Carrier: <b>CAR PICK UP</b> Shipping/Tracking No:		Analysis Turnaround Time (Estimate) TAT if different from above: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		For Lab use only Walk-in effects Lab pickup Lab scanning Job SPC/INP		Sample Specific Notes / Special Instructions:	
Sample Identification		Sample Date		Sample Time		Matrix		Analyses	
07658-0053M-0001-50		11-15-12		1555		X		SVC TAL METALS EXPOSURES PROBLEMS PCB	
07655-0007M-0001-50				1545					
07658-0054M-0001-50				1555					
07658-0055M-0001-50				1345					
07658-0056M-0001-50				1410					
07658-0057M-0001-50				1440					
07658-0058M-0001-50				1530					
07658-0059M-0001-50				1600					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		Months					
Retained by: <b>PC Bon</b>		Date/Time: <b>11-15-12 1740</b>		Company: <b>TRC NC</b>		Received by: <b>PC Bon</b>		Date/Time: <b>11-15-12 1740</b>	
Retained by: <b>PC Bon</b>		Date/Time: <b>11-16-12 1812</b>		Company: <b>TALAC</b>		Received by: <b>PC Bon</b>		Date/Time: <b>11-16-12 1842</b>	
Retained by: <b>PC Bon</b>		Date/Time: <b>11-16-12 1842</b>		Company: <b>TALAC</b>		Received in Laboratory by: <b>Denny Burns</b>		Date/Time: <b>11-16-12 1842</b>	

**Chain of Custody Record**

TestAmerica Laboratory location:  DW  NPDES  RCRA  Other

<b>Client Contact</b> Company Name: <i>FCC</i> Address: <i>33 Boston Pk. Sp. Unit</i> City/State/Zip: <i>MA 02100</i> Phone: <i>617-267-1000</i>		<b>Client Project Manager:</b> Name: <i>John</i> Telephone: <i>[blank]</i>		<b>Site Contact:</b> Name: <i>John</i> Telephone: <i>[blank]</i>		<b>Lab Contact:</b> Name: <i>Maria Lopez</i> Telephone: <i>[blank]</i>		<b>TestAmerica Laboratories, Inc.</b> COC No: <i>048707</i> 3 of 5 COCs			
<b>Sample Identification</b> Sample ID: <i>076 SW-0013-0001-SW</i> Sample Date: <i>11/15/12</i> Sample Time: <i>1400</i> Sample ID: <i>076 SW-0013-0002-SW</i> Sample Date: <i>11/15/12</i> Sample Time: <i>1400</i> Sample ID: <i>076 SW-0014-0001-SW</i> Sample Date: <i>11/15/12</i> Sample Time: <i>1500</i> Sample ID: <i>076 SW-0015-0001-SW</i> Sample Date: <i>11/15/12</i> Sample Time: <i>1530</i> Sample ID: <i>076-0067-0001-ER</i> Sample Date: <i>11/15/12</i> Sample Time: <i>1300</i> Sample ID: <i>076-0068-0001-TB</i> Sample Date: <i>11/15/12</i> Sample Time: <i>0700</i>		<b>Matrix</b> Air: <input checked="" type="checkbox"/> Aqueous: <input type="checkbox"/> Sediment: <input type="checkbox"/> Solid: <input type="checkbox"/> Other: <input type="checkbox"/>		<b>Containers &amp; Preservatives</b> H2SO4: <input type="checkbox"/> HNO3: <input type="checkbox"/> HCl: <input type="checkbox"/> NaOH: <input type="checkbox"/> ZnAc: <input type="checkbox"/> NaOH: <input type="checkbox"/> Unpres: <input type="checkbox"/> Other: <i>DI</i>		<b>Analysis / Preservation Time</b> Analysis: <i>SPERM</i> Preservation Time (at business): 3 weeks: <input type="checkbox"/> 2 weeks: <input type="checkbox"/> 1 week: <input type="checkbox"/> 2 days: <input type="checkbox"/> 1 day: <input type="checkbox"/>		<b>Analyses</b> PCB: <input type="checkbox"/> PAHs: <input type="checkbox"/> VOC: <input type="checkbox"/> TPH GRO: <input type="checkbox"/> PEST: <input type="checkbox"/> METALS: <input type="checkbox"/> SPEC: <input type="checkbox"/>		<b>Sample Specific Notes / Special Instructions:</b> <i>AS/N/SO</i> <i>EXPLOSIVES</i> <i>PCB</i> <i>PAHs</i> <i>VOC</i> <i>TPH GRO</i> <i>PEST</i> <i>METALS</i> <i>SPEC</i> <i>TRAIL BLANK</i> <i>EQUAR ALMONT</i>	
Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>											
Special Instructions (QC Requirements & Comments): <i>SAMPLES TO MAKE UP FOR AIRBORNE VOL, CALL AT 0-20 ON 11-8-12</i>											
Relinquished by: <i>[Signature]</i> Date/Time: <i>11-15-12 1740</i>					Received by: <i>[Signature]</i> Date/Time: <i>11-15-12 1740</i>						
Relinquished by: <i>[Signature]</i> Date/Time: <i>11-15-12 1842</i>					Received by: <i>[Signature]</i> Date/Time: <i>11-15-12 1842</i>						
Relinquished by: <i>[Signature]</i> Date/Time: <i>11/16/12 1842</i>					Received in Laboratory by: <i>[Signature]</i> Date/Time: <i>11/16/12 1842</i>						

Chain of Custody Record

TestAmerica Laboratory location:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

Lab Contact: **MARK LOBB**  
Telephone:

Client Project Manager: **JEFF DONGER**  
Telephone: **508 509-1784**

Site Contact: **JEFF DONGER**  
Telephone: **508 509-1784**

Company Name: **ECL**  
Address: **33 BOSTON POST RD WEST**  
City/State/Zip: **MA 01752**  
Phone: **MA 01752**

COG No: **048705**  
9 of 5 COGs

Analysis Turnaround Time (in 5 days):  
 3 weeks  
 2 weeks  
 1 week  
 2 days  
 1 day

TAT if different from above:

Method of Shipment/Carrier: **LAB PICKUP**

Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix						Other:	Unpres	ZnAc	NOH	HCl	HNO3	H2SO4	Biosol	Other:	Billed Sample (Y/N)	Composite/Grain	Analyses	Sample Specific Notes / Special Instructions:
			Air	Aqueous	Sediment	Solid	Other:	Other:													
07658-0060M-0001-50	11-15-12	1735	X															X		VBC SVC TAL METALS % SOLID	
07658-0061M-0001-50		1735																			
07658-0062M-0001-50		1705																			
07658-0063M-0001-50		1715																			
07658-0064M-0001-50		1725																			
07658-0065M-0001-50		1740																			
07658-0066M-0001-50		1650																			

Possible Hazard Identification:  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: **JEFF DONGER** Date/Time: **11-15-12-1740**  
 Relinquished by: **JEFF DONGER** Date/Time: **11-16-12-1842**  
 Relinquished by: **JEFF DONGER** Date/Time: **11-16-12-1842**

Company: **ECL**  
 Company: **TAL-NC**  
 Company: **TAL-NC**

Received by: **JEFF DONGER**  
 Received by: **JEFF DONGER**  
 Received in Laboratory by: **JEFF DONGER**

Date/Time: **11-15-12-1740**  
 Date/Time: **11-16-12-1842**  
 Date/Time: **11-16-12-1842**

Company: **TAL-NC**  
 Company: **TAL-NC**  
 Company: **TAL-NC**

**Chain of Custody Record**

TestAmerica Laboratory location:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

Lab Contact: **MARK LORA**

Site Contact: **J. DOWDAN**

Client Project Manager: **AL CASTRUPAK**

Company Name: **FC**

COC No: **048706**

Telephone: \_\_\_\_\_

Telephone: \_\_\_\_\_

Telephone: \_\_\_\_\_

Client Contact: \_\_\_\_\_

of **5** COCs

For lab use only

Analysis: \_\_\_\_\_

Analysis: \_\_\_\_\_

Analysis: \_\_\_\_\_

Wait-in effect

Wait-in effect

Wait-in effect

Wait-in effect

Wait-in effect

Lab packaging

Lab packaging

Lab packaging

Lab packaging

Lab packaging

Lab samples

Lab samples

Lab samples

Lab samples

Lab samples

Job-SPEC Nos:

Job-SPEC Nos:

Job-SPEC Nos:

Job-SPEC Nos:

Job-SPEC Nos:

Sample Specific Notes / Special Instructions:

Sample Specific Notes / Special Instructions:

Sample Specific Notes / Special Instructions:

Sample Specific Notes / Special Instructions:

Sample Specific Notes / Special Instructions:

Sample Identification

Sample Identification

Sample Identification

Sample Identification

Sample Identification

Sample Date

Sample Date

Sample Date

Sample Date

Sample Date

Sample Time

Sample Time

Sample Time

Sample Time

Sample Time

Matrix

Matrix

Matrix

Matrix

Matrix

Containers & Preservatives

Containers & Preservatives

Containers & Preservatives

Containers & Preservatives

Containers & Preservatives

Other

Other

Other

Other

Other

Filtered Sample (Y/N)

Filtered Sample (Y/N)

Filtered Sample (Y/N)

Filtered Sample (Y/N)

Filtered Sample (Y/N)

Compos. C-Strip

Compos. C-Strip

Compos. C-Strip

Compos. C-Strip

Compos. C-Strip

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Client ECC Site Name \_\_\_\_\_ By: Derry Burns

Cooler Received on 11/16/12 Opened on 11/17/12 (Signature)

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_ Foam Box Client Cooler Box Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 4G (CF 0 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 5G (CF 0 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 8 (CF 0 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

Multiple on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ Yes No

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Did all bottles arrive in good condition (Unbroken)? Yes No

7. Could all bottle labels be reconciled with the COC? Yes No

8. Were correct bottle(s) used for the test(s) indicated? Yes No

9. Sufficient quantity received to perform indicated analyses? Yes No

10. Were sample(s) at the correct pH upon receipt? Yes No NA

11. Were VOAs on the COC? Yes No

12. Were air bubbles >6 mm in any VOA vials? Yes No NA

13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Blank lines for Chain of Custody and Sample Discrepancies.

15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)





## Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Login Number: 17796**  
**List Number: 1**  
**Creator: Gamber, Tom**

**List Source: TestAmerica Pittsburgh**  
**List Creation: 12/20/12 05:49 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-17796-2

**Login Number: 17796**  
**List Number: 2**  
**Creator: Gamber, Tom**

**List Source: TestAmerica Pittsburgh**  
**List Creation: 12/21/12 11:35 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	