UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

May 19, 2011

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: for Marvelyn Humphrey, ESAT Regional Project Officer
Environmental Services Branch (6MD-H)

TO: Vincent Malott, Superfund Project Manager (6SF-RA)

Site : **WEST CR 112 GROUND WATER**

Case#: **41214**

SDG#: **MF3T98**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2140.

651114

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: May 19, 2011

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Tseng-Ying Fan, Data Reviewer, ESAT TF

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	018
Task/Sub-Task:	2-12
ESAT Doc. No.:	9018-212-0147
TDF No.:	6-10-441A
ESAT File No.:	I-0367

Attached is the data review summary for Case # 41214
SDG # MF3T98
Site West CR 112 Ground Water

COMMENTS:

I. LEVEL OF DATA REVIEW

Modified CADRE review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS found the package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Some results were qualified for technical problems. The significant problem is addressed below.

The chromium pre-digestion matrix spike recovery was below the QC limit.

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INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	41214	SITE	West CR 112 Ground Water
LABORATORY	CHEM	NO. OF SAMPLES	7
CONTRACT#	EP-W-09-038	MATRIX	Water
SDG#	MF3T98	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.2	REVIEWER'S NAME	Tseng-Ying Fan
SF#	302DD2CA6R6	COMPLETION DATE	May 19, 2011

SAMPLE NO.					
	MF3T98	MF3TE5			
	MF3TB2	MF3TE7			
	MF3TB8	MF3TE8			
	MF3TE1				

DATA ASSESSMENT SUMMARY

	ICP
1. HOLDING TIMES	O
2. CALIBRATIONS	O
3. BLANKS	M
4. MATRIX SPIKES	M
5. DUPLICATE ANALYSIS	O
6. ICP QC	O
7. LCS	O
8. SAMPLE VERIFICATION	O
9. OTHER QC	N/A
10. OVERALL ASSESSMENT	M

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: Laboratory blank concentrations caused the qualification of two copper and two manganese results. The pre-digestion matrix spike recovery for chromium was below 75%.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 41214 SDG MF3T98 SITE West CR 112 Ground Water LAB CHEM

COMMENTS: This SDG consisted of seven water samples for total metals analysis by ICP/MS following SOW ISM01.2. The sampler designated sample MF3TB8 for laboratory QC analyses.

The target analyte of concern was chromium with a desired detection limit of 2 ug/L. All results met the user's desired detection limit criterion. The target analyte of concern was reported at concentrations above the desired detection limit in samples MF3T98, MF3TB2, MF3TB8, MF3TE1, and MF3TE8. The laboratory diluted 25X and reanalyzed all samples because the calcium and sodium concentrations were over the calibration ranges.

Modified CADRE Review was performed for this package as requested by the Region. For this review option, the CCS and CADRE primarily determine the laboratory contractual compliance and the technical usability of the sample results, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the CADRE report. The CADRE narrative for the SDG is attached to this report as an addendum for additional information.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

- Because of laboratory blank concentrations, the manganese results above the CRQL for samples MF3T98 and MF3TB8 were qualified as undetected ("U"-flagged), and the reported concentrations should be used as raised quantitation limits ("C"-flagged).

- Because of laboratory blank concentrations, the copper results above the CRQL for samples MF3TE7 and MF3TE8 were qualified as estimated and high biased.

- Because of laboratory blank concentrations, some results below the CRQL's for the following analytes should be considered undetected and were flagged "U" at the CRQL's on the DST: aluminum, antimony, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, silver, thallium, and zinc.

- The reviewer qualified all chromium results as estimated because the chromium pre-digestion matrix spike recovery was below the QC limit. The result for the post-digestion matrix spike analysis did not indicate a bias effect.

INORGANIC QA REVIEW
CONTINUATION PAGE

CASE 41214 SDG MF3T98 SITE West CR 112 Ground Water LAB CHEM

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with laboratory blank concentration and/or matrix spike recovery. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

INORGANIC ACRONYMS

CADRE	Computer-Aided Data Review and Evaluation
CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440382	Arsenic	7.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440393	Barium	37.8		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	17:21:14	7440702	Calcium	294000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440473	Chromium	3.1	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439896	Iron	1030		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439954	Magnesium	51300		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439965	Manganese	1.1	UC	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440020	Nickel	3.4		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440097	Potassium	6860		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7782492	Selenium	25.0		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	17:21:14	7440235	Sodium	302000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440622	Vanadium	30.8		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440666	Zinc	42.7		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440382	Arsenic	12.5		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440393	Barium	38.5		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	17:29:09	7440702	Calcium	171000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440473	Chromium	8.5	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440508	Copper	56.1		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439896	Iron	617		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439921	Lead	3.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439954	Magnesium	43400		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440020	Nickel	2.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440097	Potassium	5760		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7782492	Selenium	18.6		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	17:29:09	7440235	Sodium	264000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440622	Vanadium	63.3		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440666	Zinc	17.7		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440382	Arsenic	10.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440393	Barium	34.2		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	18:24:24	7440702	Calcium	173000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440473	Chromium	32.2	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439896	Iron	681		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439954	Magnesium	37000		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439965	Manganese	1.3	UC	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440020	Nickel	1.7		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440097	Potassium	6430		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7782492	Selenium	14.2		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	18:24:24	7440235	Sodium	303000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440622	Vanadium	61.1		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440666	Zinc	3.5		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440382	Arsenic	8.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440393	Barium	23.6		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715

41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	18:56:04	7440702	Calcium	374000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440473	Chromium	3.4	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440508	Copper	4.8		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439896	Iron	1220		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439954	Magnesium	75700		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440020	Nickel	3.6		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440097	Potassium	8690		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7782492	Selenium	29.2		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	18:56:04	7440235	Sodium	316000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440622	Vanadium	28.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440666	Zinc	20.6		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440382	Arsenic	10.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440393	Barium	18.2		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	19:04:01	7440702	Calcium	264000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440473	Chromium	2.0	UJ	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439896	Iron	819		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439954	Magnesium	59000		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440020	Nickel	3.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440097	Potassium	5170		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7782492	Selenium	24.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	19:04:01	7440235	Sodium	359000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440622	Vanadium	39.0		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440666	Zinc	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440382	Arsenic	10.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440393	Barium	27.7		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	19:51:23	7440702	Calcium	346000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440473	Chromium	2.0	UJ	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440508	Copper	2.2	J+	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439896	Iron	1150		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439921	Lead	2.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439954	Magnesium	68900		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440020	Nickel	5.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440097	Potassium	6370		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7782492	Selenium	29.8		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	19:51:23	7440235	Sodium	484000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440622	Vanadium	43.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440666	Zinc	54.2		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440382	Arsenic	8.5		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440393	Barium	36.7		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:43:29	7440702	Calcium	163000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440473	Chromium	2.4	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440508	Copper	2.8	J+	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439896	Iron	599		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717

41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439954	Magnesium	42500		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440020	Nickel	1.8		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440097	Potassium	6750		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7782492	Selenium	16.9		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:43:29	7440235	Sodium	282000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440622	Vanadium	39.9		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440666	Zinc	14.9		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 41214 SDG No. MF3T98 SDG Nos. To Follow Mod. Ref. No. Date Rec 5/12/11

EPA Lab ID: CHEM

Lab location: Mountainside, NJ

Region: 6 Audit No.: 41214/MF3T98

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Item	Description
8	As noted in the SDG Narrative, the Airbill received by the laboratory had an Airbill number that was different from the one shown on the associated TR/COC Record.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited [signature] Tseng-Ying Fan/ESAT Data Reviewer Date 5/18/11

Audited ____ ____ Date ____

Signature Printed Name/Title

DC-2

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41214
DAS No:
R

Region:	6	Date Shipped:	4/14/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	7969 7136 3175	1 [illegible] 4-14-2011 1500	
CERCLIS ID:	TXN000606992	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:				3	
Site Name/State:	WCR 112 Ground Water Plume Site/TX			4	
Project Leader:	LUIS VEGA				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science and Technology				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MF3T98	Ground Water/ JAVIER MANZANO	L/G	TM CLP (21)	6-455761 (HNO3) (1)	GW-191	S: 4/13/2011 16:22		--
MF3TB2	Ground Water/ JACK SCHWERTZ	L/G	TM CLP (21)	6-455776 (HNO3) (1)	GW-040	S: 4/13/2011 15:21		--
MF3TB8	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455782 (HNO3), 6-455783 (HNO3) (2)	GW-107-MS/MD	S: 4/13/2011 17:01		--
MF3TE1	Ground Water/ JAVIER MANZANO	L/G	TM CLP (21)	6-455806 (HNO3) (1)	GW-715	S: 4/13/2011 15:41		--
MF3TE6	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455810 (HNO3) (1)	GW-335	S: 4/13/2011 14:50		--
MF3TE7	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455812 (HNO3) (1)	GW-713	S: 4/13/2011 15:31		--
MF3TE8	Ground Water/ JASON STROUP	L/G	TM CLP (21)	6-455813 (HNO3) (1)	GW-717	S: 4/13/2011 10:12		--

Page 1 of 1

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: MF3TB8	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: TM CLP = CLP TM ISM01.2 ICP-MS	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-271667327-041411-0004

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

ADDENDUM

CADRE NARRATIVE

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8, MF3TB8A
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Arsenic LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Calcium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Chromium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TB8A , MF3TE8
	Nickel LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Copper LCS , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8S , MF3TE8
	Lead LCS , MF3TB2 , MF3TE7 , MF3TB8S
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Selenium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Barium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Cobalt LCS , MF3TB8S
	Zinc LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Aluminum LCS
	Beryllium LCS , MF3TB8S
	Antimony LCS , MF3TB8S
	Thallium LCS , MF3TB8S
	Cadmium LCS , MF3TB8S
	Magnesium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Silver LCS , MF3TB8S
	Manganese LCS , MF3T98 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L
	Iron LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
	MF3TE5, MF3TE7, MF3TB8, MF3TB8L, MF3TE8, MF3T98, MF3TB2, MF3TE1, MF3TB8D
	Chromium MF3TE5 , MF3TE7
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Beryllium MF3TB8
	Zinc MF3TE5
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Manganese MF3TE8
	Silver MF3T98 , MF3TB8
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
Blanks	**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8, MF3TB8A
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Arsenic LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Calcium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Chromium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TB8A , MF3TE8
	Nickel LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Copper LCS , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8S , MF3TE8
	Lead LCS , MF3TB2 , MF3TE7 , MF3TB8S
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Selenium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Barium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
	Cobalt LCS , MF3TB8S
	Zinc LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Aluminum LCS
	Beryllium LCS , MF3TB8S
	Antimony LCS , MF3TB8S
	Thallium LCS , MF3TB8S
	Cadmium LCS , MF3TB8S
	Magnesium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Silver LCS , MF3TB8S
	Manganese LCS , MF3T98 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L
	Iron LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
Blanks	**ICP_MS**
NCB01	The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs.
	MF3TE1
	Manganese MF3TE1
Blanks	**ICP_MS**
NCB02	The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs.
	MF3TE1
	Manganese MF3TE1
Blanks	**ICP_MS**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	**ICP_MS**
Blanks	**ICP_MS**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBW, MF3TE5, MF3TE7, MF3T98, MF3TB8, MF3TB8D, MF3TB8L, MF3TE1, MF3TE8, MF3TB2
	Vanadium PBW
	Chromium MF3TE5 , MF3TE7
	Potassium PBW
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
	Sodium PBW
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Zinc MF3TE5
	Beryllium MF3TB8
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Manganese MF3TE8
	Silver MF3T98 , MF3TB8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBW, MF3TE5, MF3TE7, MF3TB8L, MF3T98, MF3TB8, MF3TB8D, MF3TE1, MF3TE8, MF3TB2
	Vanadium PBW
	Chromium MF3TE5 , MF3TE7
	Nickel MF3TB8L
	Potassium PBW
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
	Sodium PBW
	Selenium MF3TB8L
	Barium MF3TB8L
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Zinc MF3TE5 , MF3TB8L
	Beryllium MF3TB8
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Manganese MF3TB8L , MF3TE8
	Iron MF3TB8L
	Silver MF3T98 , MF3TB8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TE8
	Chromium MF3TB8S

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME **CHEMTECH CONSULTING GROUP, INC.**
CITY/STATE **MOUNTAINSIDE, NJ**

CASE NO. **41214** SDG NO. **MF3T98**
SDG NOs TO FOLLOW
NRAS NO.

CONTRACT NO. **EPW09038**
SOW NO. **ISM01.2**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference – Exhibit B Section 2.6)

	PAGE NOs		CHECK	
	FROM	TO	LAB	REGION
1. Inventory Sheet (DC-2)	1	2	√	✓
2. SDG Narrative	3	4	√	✓
3. Sample Log-In Sheet (DC-1)	5	5	√	✓
4. Traffic Report/Chain of Custody Record(s)	6	7	√	✓
5. Cover Page	8	8	√	✓
Inorganic Analysis				
6. Data Sheet (Form IA-IN)	9	15	√	✓
7. Initial & Continuing Calibration Verification (Form IIA-IN)	16	17	√	✓
8. Blanks (Form III-IN)	18	19	√	✓
9. ICP-AES Interference Check Sample (Form IVA-IN)				
10. ICP-MS Interference Check Sample (Form IVB-IN)	20	21	√	✓
11. Matrix Spike Sample Recovery (Form VA-IN)	22	22	√	✓
12. Post-Digestion Spike Sample Recovery (Form VB-IN)	23	23	√	✓
13. Duplicates (Form VI-IN)	24	24	√	✓
14. Laboratory Control Sample (Form VII-IN)	25	25	√	✓
15. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	26	26	√	✓
16. Method Detection Limits (Annually) (Form IX-IN)	27	27	√	✓
17. ICP-AES Interelement Correction Factors (Annually) (Form XA-IN)				
18. ICP-AES Interelement Correction Factors (Annually) (Form XB-IN)				
19. Internal Standard Association (Form XI-IN)	28	28	√	✓
20. Preparation Log (Form XII-IN)	29	29	√	✓

	PAGE NOs FROM	TO	CHECK LAB	REGION
21. Analysis Run Log (Form XIII-IN)	30	31	√	✓
22. ICP-MS Tune (Form XIV-IN)	32	32	√	✓
23. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	33	34	√	✓
24. Initial Calibration (Form XVI-IN)	35	36	√	✓
25. ICP-AES Raw Data				
26. ICP-MS Raw Data	37	216	√	✓
27. Mercury Raw Data				
28. Cyanide Raw Data				
29. Preparation Logs Raw Data	217	219	√	✓
30. Percent Solids Determination Log				
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments _1__)	220	220	√	✓
Sample Tags ***(In a Plastic Bag w/ Page #)***	226	226	√	✓
Sample Log-In Sheet (Lab)	221	223	√	✓
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone log	224	224	√	✓
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Internal Lab COC	225	225	√	✓
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records				
Analysis Records				
Description				
35. Other Records (describe or list)				
Communications Log				

36. Comments: _____

Completed By:
(CLP Lab) Mildred V Reyes (Signature) **Mildred V. Reyes, Document Control Officer** (Print Name & Title) 5/10/11 (Date)

Audited By:
(USEPA) [signature] (Signature) TSENG-YING FAN / Data Rev (Print Name & Title) 5/18/11 (Date)
(ESAT)

FORM DC-2-2 ISM01.2

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MF3T98
CASE # 41214
CONTRACT # EPW09038
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT # C1938

A. Number of Samples and Date of Receipt

07 Water Samples were delivered to the laboratory intact on 04/20/11.

B. Parameters

Test requested for Metals CLP MS= Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 4°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: The FedEx airbill number listed on the attached TR/COC is 796971363175; however, the actual FedEx airbill number that samples were received under is 850427178964.

E. Corrective Action taken for above:

Resolution: In accordance with previous direction from Region 6, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ISMO1.2

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

G. Calculation:

Calculation example for ICP-MS Water Sample:

Results reported in Ug/L = Results in ppb X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP Water- Prep

Fraction of Sample Amount Taken in ICP-MS Water- Prep = 100/100 or 50/50 =1

(If 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-MS Water Digestion procedure)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Chromium. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date 5/10/11 Title: Document Control Officer

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP

Received By (Print Name) Ken Rivera	Log-in Date **4/20/2011**
Received By (Signature) Ken Rivera	
Case Number 41214	Sample Delivery Group No. MF3T98 / NRAS Number N/A

Remarks:

1. Custody Seal(s) — Present/Absent* Intact/Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/Chain Of Custody Records or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 8504 2717 8964
6. Sample Tags Sample Tag # — Present/Absent* Listed/Not Listed On TR/ Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 4°C
10. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
11. Date Received at Lab — 4/20/11
12. Time Received — 11:40

Corresponding

EPA Sample #	Aqueous Sample pH	Sample Tag #	igned Lab #	Remarks: Condition of Sample shipment, etc.
MF3T98	<2	6-455761	C1938-01	intact
MF3TB2		6-455776	C1938-02	
MF3TB8		6-455782	C1938-03	
MF3TB8D		6-455783	C1938-04	
MF3TB8S		6-455783	C1938-05	
MF3TE1		6-455806	C1938-06	
MF3TE5		6-455810	C1938-07	
MF3TE7		6-455812	C1938-08	
MF3TE8		6-455813	C1938-09	

Sample Transfer

Fraction	Fraction Metals
Area #	Area # A51
By	By Ken Rivera
On	On 4/20/11

* Contact SMO and attach record of resolution

Reviewed By Snehal Mehta	Logbook No.
Date 4/20/11	Logbook Page

Sample Delivery Group (SDG) Cover Sheet

SDG Number	MF3T98	Case Number	41214	Contract Number	EPW09038
Lab Code	CHEM	SDG Turnaround	21 days	Delivery CLIN(s)	—

First Sample Received in SDG	MF3T98	Last Sample Received in SDG	MF3TE8
First Sample Receipt Date	4/20/2011 11:40:00 AM	Last Sample Receipt Date	4/20/2011 11:40:00 AM

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
MF3T98	Field Sample	0010C	NONE	NONE
MF3TB2	Field Sample	0010C		
MF3TB8	Field Sample	0010C		
MF3TB8D	Field Sample	0010C		
MF3TB8S	Field Sample	0010C		
MF3TE1	Field Sample	0010C		
MF3TE5	Field Sample	0010C		
MF3TE7	Field Sample	0010C		
MF3TE8	Field Sample	0010C		

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature Snehal Mehta Date 4/20/11

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	41214
DAS No:	
SDG No:	MF3T98 L

Date Shipped:	4/14/2011
Carrier Name:	FedEx
Airbill:	7969 7136 3175
Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	4-14-2011 1500	FedEx	4/20/11 11:40
2			
3			
4			

For Lab Use Only

Lab Contract No:	EPW09038
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3T98	Ground Water/ JAVIER MANZANO	L/G	TM CLP (21)	6-455761 (HNO3) (1)	GW-191	S: 4/13/2011	16:22		
MF3TB2	Ground Water/ JACK SCHWERTZ	L/G	TM CLP (21)	6-455776 (HNO3) (1)	GW-040	S: 4/13/2011	15:21		
MF3TB8	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455782 (HNO3), 6-455783 (HNO3) (2)	GW-107-MS/MD	S: 4/13/2011	17:01		
MF3TE1	Ground Water/ JAVIER MANZANO	L/G	TM CLP (21)	6-455806 (HNO3) (1)	GW-715	S: 4/13/2011	15:41		
MF3TE5	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455810 (HNO3) (1)	GW-335	S: 4/13/2011	14:50		
MF3TE7	Ground Water/ DAVID WERTH	L/G	TM CLP (21)	6-455812 (HNO3) (1)	GW-713	S: 4/13/2011	15:31		
MF3TE8	Ground Water/ JASON STROUP	L/G	TM CLP (21)	6-455813 (HNO3) (1)	GW-717	S: 4/13/2011	10:12		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: MF3TB8	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? YES / Shipment Iced? YES

TM CLP = CLP TM ISM01.2 ICP-MS

TR Number: 6-271667327-041411-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

Metals

COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No: 41214 Mod. Ref. No.: SDG No: MF3T98

SOW No.: ISM01.2

EPA Sample No.	Lab Sample ID
MF3T98	C1938-01
MF3TB2	C1938-02
MF3TB8	C1938-03
MF3TB8D	C1938-04D
MF3TB8S	C1938-05S
MF3TE1	C1938-06
MF3TE5	C1938-07
MF3TE7	C1938-08
MF3TE8	C1938-09

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	NO	YES
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	NO	YES
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	N/A

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Data Package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred U Reyes Name: MILDRED REYES

Date: 5/10/11 Title: DOCUMENT CONTROL OFFICER

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3T98

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-01

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4.6	J		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	7.2			MS
7440-39-3	Barium	37.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	294000		D	MS
7440-47-3	Chromium	3.1		N	MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	1.4	J		MS
7439-89-6	Iron	1030			MS
7439-92-1	Lead	0.21	J		MS
7439-95-4	Magnesium	51300			MS
7439-96-5	Manganese	1.1			MS
7440-02-0	Nickel	3.4			MS
7440-09-7	Potassium	6860			MS
7782-49-2	Selenium	25.0			MS
7440-22-4	Silver	0.073	J		MS
7440-23-5	Sodium	302000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	30.8			MS
7440-66-6	Zinc	42.7			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TB2

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-02

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2.7	J		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	12.5			MS
7440-39-3	Barium	38.5			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	171000		D	MS
7440-47-3	Chromium	8.5		N	MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	56.1			MS
7439-89-6	Iron	617			MS
7439-92-1	Lead	3.1			MS
7439-95-4	Magnesium	43400			MS
7439-96-5	Manganese	1.0	U		MS
7440-02-0	Nickel	2.1			MS
7440-09-7	Potassium	5760			MS
7782-49-2	Selenium	18.6			MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	264000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	63.3			MS
7440-66-6	Zinc	17.7			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TB8

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-03

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2.8	J		MS
7440-36-0	Antimony	0.23	J		MS
7440-38-2	Arsenic	10.2			MS
7440-39-3	Barium	34.2			MS
7440-41-7	Beryllium	0.14	J		MS
7440-43-9	Cadmium	0.15	J		MS
7440-70-2	Calcium	173000		D	MS
7440-47-3	Chromium	32.2		N	MS
7440-48-4	Cobalt	0.11	J		MS
7440-50-8	Copper	1.4	J		MS
7439-89-6	Iron	681			MS
7439-92-1	Lead	0.24	J		MS
7439-95-4	Magnesium	37000			MS
7439-96-5	Manganese	1.3			MS
7440-02-0	Nickel	1.7			MS
7440-09-7	Potassium	6430			MS
7782-49-2	Selenium	14.2			MS
7440-22-4	Silver	0.093	J		MS
7440-23-5	Sodium	303000		D	MS
7440-28-0	Thallium	0.15	J		MS
7440-62-2	Vanadium	61.1			MS
7440-66-6	Zinc	3.5			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TE1

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-06

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4.6	J		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	8.3			MS
7440-39-3	Barium	23.6			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	374000		D	MS
7440-47-3	Chromium	3.4		N	MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	4.8			MS
7439-89-6	Iron	1220			MS
7439-92-1	Lead	0.50	J		MS
7439-95-4	Magnesium	75700			MS
7439-96-5	Manganese	1.00	J		MS
7440-02-0	Nickel	3.6			MS
7440-09-7	Potassium	8690			MS
7782-49-2	Selenium	29.2			MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	316000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	28.5			MS
7440-66-6	Zinc	20.6			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TE5

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-07

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	10.1			MS
7440-39-3	Barium	18.2			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	264000		D	MS
7440-47-3	Chromium	1.2	J	N	MS
7440-48-4	Cobalt	0.083	J		MS
7440-50-8	Copper	0.94	J		MS
7439-89-6	Iron	819			MS
7439-92-1	Lead	0.077	J		MS
7439-95-4	Magnesium	59000			MS
7439-96-5	Manganese	1.0	U		MS
7440-02-0	Nickel	3.1			MS
7440-09-7	Potassium	5170			MS
7782-49-2	Selenium	24.5			MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	359000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	39.0			MS
7440-66-6	Zinc	1.7	J		MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TE7

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-08

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1.9	J		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	10.2			MS
7440-39-3	Barium	27.7			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	346000		D	MS
7440-47-3	Chromium	1.7	J	N	MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.2			MS
7439-89-6	Iron	1150			MS
7439-92-1	Lead	2.3			MS
7439-95-4	Magnesium	68900			MS
7439-96-5	Manganese	1.0	U		MS
7440-02-0	Nickel	5.3			MS
7440-09-7	Potassium	6370			MS
7782-49-2	Selenium	29.8			MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	484000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	43.5			MS
7440-66-6	Zinc	54.2			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF3TE8

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER Lab Sample ID: C1938-09

% Solids: Date Received: 04/20/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	8.5			MS
7440-39-3	Barium	36.7			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	163000		D	MS
7440-47-3	Chromium	2.4		N	MS
7440-48-4	Cobalt	0.065	J		MS
7440-50-8	Copper	2.8			MS
7439-89-6	Iron	599			MS
7439-92-1	Lead	0.32	J		MS
7439-95-4	Magnesium	42500			MS
7439-96-5	Manganese	0.33	J		MS
7440-02-0	Nickel	1.8			MS
7440-09-7	Potassium	6750			MS
7782-49-2	Selenium	16.9			MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	282000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	39.9			MS
7440-66-6	Zinc	14.9			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: MP6700

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	504.0	520.20	103	10000.0	10180.00	102	10100.00	101	MS
Antimony	199.0	190.20	96	500.0	502.20	100	507.00	101	MS
Arsenic	200.0	193.90	97	500.0	496.50	99	491.50	98	MS
Barium	99.0	100.00	101	2500.0	2476.00	99	2488.00	100	MS
Beryllium	99.0	95.78	97	500.0	491.90	98	493.90	99	MS
Cadmium	99.0	98.42	99	500.0	507.00	101	506.30	101	MS
Calcium	2005.0	1966.00	98	50000.0	49340.00	99	49310.00	99	MS
Chromium	98.0	96.29	98	500.0	489.80	98	492.00	98	MS
Cobalt	100.0	98.83	99	500.0	496.00	99	492.10	98	MS
Copper	98.0	101.90	104	1000.0	994.20	99	980.50	98	MS
Iron	1016.0	1017.00	100	25000.0	25190.00	101	25370.00	101	MS
Lead	200.0	196.90	98	500.0	502.40	100	505.90	101	MS
Magnesium	1215.0	1190.00	98	50000.0	50690.00	101	50740.00	101	MS
Manganese	100.0	97.61	98	1000.0	998.70	100	998.70	100	MS
Nickel	101.0	100.30	99	500.0	494.20	99	489.90	98	MS
Potassium	2004.0	1949.00	97	25000.0	24970.00	100	25360.00	101	MS
Selenium	206.0	194.80	95	500.0	502.00	100	492.40	98	MS
Silver	100.0	99.58	100	500.0	505.40	101	504.40	101	MS
Sodium	2019.0	1876.00	93	50000.0	50930.00	102	51000.00	102	MS
Thallium	206.0	199.80	97	500.0	504.40	101	505.00	101	MS
Vanadium	100.0	95.24	95	500.0	489.60	98	488.00	98	MS
Zinc	205.0	199.90	98	1000.0	1014.00	101	1013.00	101	MS

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

Metals

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: MP6700

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000.0	10000.00	100	10350.00	104	MS
Antimony				500.0	498.10	100	510.80	102	MS
Arsenic				500.0	492.70	99	501.90	100	MS
Barium				2500.0	2460.00	98	2529.00	101	MS
Beryllium				500.0	491.30	98	497.80	100	MS
Cadmium				500.0	501.80	100	516.10	103	MS
Calcium				50000.0	48960.00	98	50260.00	101	MS
Chromium				500.0	491.20	98	496.50	99	MS
Cobalt				500.0	488.30	98	500.30	100	MS
Copper				1000.0	982.00	98	995.50	100	MS
Iron				25000.0	25120.00	100	25870.00	103	MS
Lead				500.0	497.50	100	509.40	102	MS
Magnesium				50000.0	50700.00	101	51830.00	104	MS
Manganese				1000.0	990.30	99	1021.00	102	MS
Nickel				500.0	491.90	98	496.20	99	MS
Potassium				25000.0	25130.00	101	25920.00	104	MS
Selenium				500.0	492.00	98	499.30	100	MS
Silver				500.0	500.30	100	504.10	101	MS
Sodium				50000.0	50620.00	101	51980.00	104	MS
Thallium				500.0	499.20	100	509.00	102	MS
Vanadium				500.0	487.00	97	495.00	99	MS
Zinc				1000.0	1003.00	100	1032.00	103	MS

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: _____ SDG No.: MF3T98

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	2.532	J	7.666	J	3.201	J	4.523	J	20.000	U	MS
Antimony	0.680	J	0.481	J	0.598	J	0.639	J	2.000	U	MS
Arsenic	0.385	J	0.396	J	0.281	J	0.491	J	1.000	U	MS
Barium	0.863	J	0.953	J	1.212	J	1.417	J	10.000	U	MS
Beryllium	0.263	J	0.190	J	0.263	J	0.298	J	1.000	U	MS
Cadmium	0.261	J	0.150	J	0.232	J	0.280	J	1.000	U	MS
Calcium	7.476	J	9.872	J	34.270	J	22.610	J	-7.165	J	MS
Chromium	0.210	J	0.150	J	0.215	J	0.206	J	2.000	U	MS
Cobalt	0.224	J	0.169	J	0.230	J	0.295	J	1.000	U	MS
Copper	0.398	J	0.406	J	0.430	J	0.557	J	2.000	U	MS
Iron	8.968	J	16.590	J	14.710	J	20.780	J	200.000	U	MS
Lead	0.310	J	0.185	J	0.244	J	0.294	J	1.000	U	MS
Magnesium	8.271	J	16.160	J	22.300	J	24.800	J	500.000	U	MS
Manganese	0.320	J	0.298	J	0.434	J	0.530	J	1.000	U	MS
Nickel	0.254	J	0.156	J	0.253	J	0.211	J	1.000	U	MS
Potassium	23.910	J	44.020	J	62.530	J	52.350	J	26.350	J	MS
Selenium	0.742	J	0.805	J	5.000	U	0.738	J	5.000	U	MS
Silver	0.224	J	0.250	J	0.321	J	0.368	J	1.000	U	MS
Sodium	29.490	J	40.980	J	76.680	J	53.030	J	25.620	J	MS
Thallium	0.377	J	0.245	J	0.316	J	0.358	J	1.000	U	MS
Vanadium	0.289	J	0.281	J	5.000	U	0.541	J	0.118	J	MS
Zinc	0.411	J	0.293	J	0.475	J	0.377	J	2.000	U	MS

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: _____ SDG No.: MF3T98

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			5.452	J							MS
Antimony			0.549	J							MS
Arsenic			1.000	U							MS
Barium			1.069	J							MS
Beryllium			0.285	J							MS
Cadmium			0.296	J							MS
Calcium			11.970	J							MS
Chromium			0.225	J							MS
Cobalt			0.232	J							MS
Copper			0.357	J							MS
Iron			16.670	J							MS
Lead			0.208	J							MS
Magnesium			16.520	J							MS
Manganese			0.380	J							MS
Nickel			0.190	J							MS
Potassium			52.600	J							MS
Selenium			5.000	U							MS
Silver			0.261	J							MS
Sodium			48.850	J							MS
Thallium			0.251	J							MS
Vanadium			0.171	J							MS
Zinc			2.000	U							MS

Metals

4B-IN

ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

ICP-MS Instrument ID: P6 ICS Source: MS8055

Concentration Units: ug/L

Analyte	True Sol.A	True Sol.AB	Found Sol.A	Found %R	Found Sol. AB	Found %R
Antimony	1.5	22.0	1.3	87	21.4	97
Arsenic	0.1	19.0	0.074	74	20.3	107
Barium	1.2	22.0	1.4	117	21.8	99
Beryllium	0.0	19.0	0.32	0	20.8	109
Cadmium	0.7	20.0	0.60	86	20.8	104
Chromium	21.0	40.0	19.3	92	39.7	99
Cobalt	1.0	20.0	1.0	100	21.0	105
Copper	8.0	25.0	7.9	99	28.0	112
Lead	4.0	25.0	4.4	110	24.6	98
Manganese	7.0	27.0	8.1	116	29.2	108
Nickel	6.0	24.0	5.9	98	26.4	110
Selenium	0.3	19.0	-1.1	-367	19.6	103
Silver	0.0	18.0	0.16	0	19.9	111
Thallium	0.0	21.0	0.049	0	20.8	99
Vanadium	0.5	19.0	-0.023	-5	19.7	104
Zinc	11.0	29.0	12.3	112	32.9	113

Metals

4B-IN

ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

ICP-MS Instrument ID: P6 ICS Source: MS8055

Concentration Units: ug/L

Analyte	True Sol.A	True Sol.AB	Found Sol.A	Found %R	Found Sol. AB	Found %R
Aluminum	100000.0	100000.0	103000	103	100000	100
Calcium	100000.0	100000.0	101000	101	98600	99
Iron	100000.0	100000.0	101000	101	99800	100
Magnesium	100000.0	100000.0	102000	102	100000	100
Potassium	100000.0	100000.0	102000	102	101000	101
Sodium	100000.0	100000.0	104000	104	103000	103

Metals

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF3TB8S

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	89.0400		0.2280		100.00	89		MS
Arsenic	75 - 125	45.7700		10.2200		40.00	89		MS
Barium	75 - 125	1712.0000		34.2200		2000.00	84		MS
Beryllium	75 - 125	38.7700		0.1440		50.00	77		MS
Cadmium	75 - 125	43.6200		0.1540		50.00	87		MS
Chromium	75 - 125	178.3000		32.1800		200.00	73	N	MS
Cobalt	75 - 125	393.0000		0.1060		500.00	79		MS
Copper	75 - 125	196.4000		1.4110		250.00	78		MS
Lead	75 - 125	17.6700		0.2410		20.00	87		MS
Manganese	75 - 125	397.7000		1.2970		500.00	79		MS
Nickel	75 - 125	381.2000		1.6770		500.00	76		MS
Selenium	75 - 125	23.6100		14.1900		10.00	94		MS
Silver	75 - 125	44.5200		0.0930		50.00	89		MS
Thallium	75 - 125	44.6400		0.1530		50.00	89		MS
Vanadium	75 - 125	442.2000		61.0900		500.00	76		MS
Zinc	75 - 125	411.5000		3.4660		500.00	82		MS

Comments:

Metals

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF3TB8A

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER

Concentration Units: (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium		165.60		36.83		70.0	184		MS

Comments:

Metals

6-IN

DUPLICATES

EPA SAMPLE NO.

MF3TB8D

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER

% Solids for Sample:

Concentration Units:(ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2.8060		1.3330	J	71		MS
Antimony		0.2280		2.0000	U	56		MS
Arsenic		10.2200		10.5900		4		MS
Barium	10.0000	34.2200		34.1600		0		MS
Beryllium		0.1440		1.0000	U	147		MS
Cadmium		0.1540		1.0000	U	263		MS
Calcium		173475.0000		166600.0000		4		MS
Chromium		32.1800		32.7800		2		MS
Cobalt		0.1060		1.0000	U	68		MS
Copper		1.4110		1.2940	J	9		MS
Iron	200.0000	681.0000		635.4000		7		MS
Lead		0.2410		0.1620	J	39		MS
Magnesium		37010.0000		36640.0000		1		MS
Manganese	1.0000	1.2970		1.2260		6		MS
Nickel	1.0000	1.6770		1.7140		2		MS
Potassium		6427.0000		6406.0000		0		MS
Selenium	5.0000	14.1900		13.7300		3		MS
Silver		0.0930		1.0000	U	60		MS
Sodium		303000.0000		293500.0000		3		MS
Thallium		0.1530		1.0000	U	106		MS
Vanadium		61.0900		61.8300		1		MS
Zinc	2.0000	3.4660		4.6510		29		MS

7 - IN

LABORATORY CONTROL SAMPLE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Analyte	Aqueous/Water (ug/L), Soil Sediment (mg/Kg), Wipe/Filter (ug)		
	True	Found	%R
Aluminum	40.00	42.06	105
Antimony	4.00	3.87	97
Arsenic	2.00	2.09	104
Barium	20.00	19.62	98
Beryllium	2.00	1.90	95
Cadmium	2.00	1.89	94
Calcium	1000.00	972.70	97
Chromium	4.00	3.98	100
Cobalt	2.00	1.94	97
Copper	4.00	4.16	104
Iron	400.00	408.60	102
Lead	2.00	1.92	96
Magnesium	1000.00	1000.00	100
Manganese	2.00	1.99	100
Nickel	2.00	1.91	96
Potassium	1000.00	1008.00	101
Selenium	10.00	10.00	100
Silver	2.00	2.04	102
Sodium	1000.00	946.40	95
Thallium	2.00	2.00	100
Vanadium	10.00	10.15	102
Zinc	4.00	3.98	100

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF3TB8L

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Matrix: WATER

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	2.81		100.00	U	100		MS
Antimony	0.23		10.00	U	100		MS
Arsenic	10.22		10.48		3		MS
Barium	34.22		35.46	J	4		MS
Beryllium	0.14		5.00	U	100		MS
Cadmium	0.15		5.00	U	100		MS
Calcium	173475.00		161250.00		7		MS
Chromium	32.18		33.81		5		MS
Cobalt	0.11		0.30	J	173		MS
Copper	1.41		0.96	J	32		MS
Iron	681.00		709.00	J	4		MS
Lead	0.24		5.00	U	100		MS
Magnesium	37010.00		39635.00		7		MS
Manganese	1.30		1.22	J	6		MS
Nickel	1.68		1.73	J	3		MS
Potassium	6427.00		6870.00		7		MS
Selenium	14.19		16.21	J	14		MS
Silver	0.09		5.00	U	100		MS
Sodium	303000.00		278000.00		8		MS
Thallium	0.15		0.55	J	267		MS
Vanadium	61.09		62.60		2		MS
Zinc	3.47		7.07	J	104		MS

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: _____ SDG No.: MF3T98

Instrument Type: MS Instrument ID: P6 Date: 01/11/2011

Preparation Method: 200.8

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Aluminum	27.00	1.20
Antimony	121.00	0.17
Arsenic	75.00	0.14
Barium	137.00	0.29
Beryllium	9.00	0.06
Cadmium	111.00	0.11
Calcium	44.00	6.30
Chromium	52.00	0.08
Cobalt	59.00	0.05
Copper	63.00	0.10
Iron	57.00	6.60
Lead	208.00	0.05
Magnesium	24.00	5.50
Manganese	55.00	0.15
Nickel	60.00	0.15
Potassium	39.00	8.00
Selenium	82.00	0.63
Silver	107.00	0.07
Sodium	23.00	5.70
Thallium	205.00	0.07
Vanadium	51.00	0.11
Zinc	66.00	0.24

Comments: _____

Metals

11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: _____ SDG No.: MF3T98

ICP-MS Instrument ID: P6 Date: 05/05/11

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Aluminum	6Li	45Sc
Antimony	103Rh	159Tb
Arsenic	45Sc	103Rh
Barium	103Rh	159Tb
Beryllium	6Li	45Sc
Cadmium	103Rh	159Tb
Calcium	6Li	45Sc
Chromium	45Sc	103Rh
Cobalt	45Sc	103Rh
Copper	45Sc	103Rh
Iron	45Sc	103Rh
Lead	165Ho	209Bi
Magnesium	6Li	45Sc
Manganese	45Sc	103Rh
Nickel	45Sc	103Rh
Potassium	6Li	45Sc
Selenium	45Sc	103Rh
Silver	103Rh	159Tb
Sodium	6Li	45Sc
Thallium	165Ho	209Bi
Vanadium	45Sc	103Rh
Zinc	45Sc	103Rh

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Preparation Method: 200.8

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
PBW	04/26/2011	50.00	50
LCS	04/26/2011	50.00	50
MF3T98	04/26/2011	50.00	50
MF3TB2	04/26/2011	50.00	50
MF3TE1	04/26/2011	50.00	50
MF3TE5	04/26/2011	50.00	50
MF3TE7	04/26/2011	50.00	50
MF3TB8	04/26/2011	50.00	50
MF3TB8D	04/26/2011	50.00	50
MF3TB8S	04/26/2011	50.00	50
MF3TE8	04/26/2011	50.00	50

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Instrument ID: P6 Analysis Method: MS

Start Date: 05/05/2011 End Date: 05/05/2011

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
TUNE	1.0	1318					X				X			X	X													
S0	1.0	1413	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1421	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1429	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1437	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1445	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1452	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1500	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1508	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1516		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSAB	1.0	1524		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	10	1532	X						X				X		X				X			X						
ICSAB	10	1540	X						X				X		X				X			X						
CCV	1.0	1548	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1556	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1604																										
PBW	1.0	1611	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1633	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3T98	1.0	1641	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TB2	1.0	1649	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TE1	1.0	1657	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TE5	1.0	1705	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TE7	1.0	1713	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3T98	25	1721							X													X						
MF3TB2	25	1729							X													X						
CCV	1.0	1737	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1744	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3TB8	1.0	1752	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TB8D	1.0	1800	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TB8S	1.0	1808		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF3TB8L	5.0	1816	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TB8	25	1824							X													X						
MF3TB8D	25	1832							X													X						
ZZZZZZ	25	1840																										
MF3TB8L	125	1848							X													X						
MF3TE1	25	1856							X													X						
MF3TE5	25	1904							X													X						

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Instrument ID: P6 Analysis Method: MS

Start Date: 05/05/2011 End Date: 05/05/2011

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV	1.0	1911	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1919	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MF3TB8A	1.0	1927								X																		
MF3TE8	1.0	1935	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X		X	X	X			
MF3TE8	25	1943							X													X						
MF3TE7	25	1951							X													X						
ZZZZZZ	1.0	1959																										
CCV	1.0	2007	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	2015	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

Metals

14 - IN

ICP-MS Tune

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: _____ SDG No.: MF3T98

ICP-MS Instrument ID: P6 Date: 05/05/2011

Element - Mass	Avg. Measured Mass (amu)	Average Peak Width (amu)	%Height	%RSD
Be_9	9.01	0.77	5.0	0.913
Mg_24	23.99	0.77	5.0	0.340
Mg_25	24.99	0.77	5.0	1.017
Mg_26	25.98	0.77	5.0	0.619
Co_59	58.93	0.77	5.0	0.641
In_113	112.90	0.77	5.0	1.073
In_115	114.90	0.77	5.0	0.421
Ce_140	139.91	0.77	5.0	0.397
Pb_206	205.97	0.77	5.0	0.803
Pb_207	206.98	0.77	5.0	0.507
Pb_208	207.98	0.77	5.0	0.600

Comments:

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG NO.: MF3T98

ICP-MS Instrument ID: P6 Start Date: 05/05/2011 End Date: 05/05/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element 159Tb	Q	Element 45Sc	Q	Element 6Li	Q	Element 103Rh	Q
S0	1413	100		100		100		100		100	
S	1421	96		96		98		99		98	
S	1429	94		95		93		94		92	
S	1437	93		93		90		90		89	
S	1445	91		92		89		89		87	
S	1452	86		89		87		88		84	
ICV	1500	91		91		89		89		89	
ICB	1508	93		92		91		90		91	
ICSA	1516	86		88		82		78		81	
ICSAB	1524	85		87		83		80		82	
ICSA	1532	91		92		89		86		89	
ICSAB	1540	92		92		88		85		89	
CCV	1548	90		91		88		85		87	
CCB	1556	91		90		88		88		90	
ZZZZZZ	1604										
PBW	1611	95		93		91		87		92	
LCS	1633	94		93		92		90		92	
MF3T98	1641	83		86		91		85		77	
MF3TB2	1649	84		87		83		85		79	
MF3TE1	1657	84		88		96		95		80	
MF3TE5	1705	83		88		95		89		78	
MF3TE7	1713	83		87		97		89		79	
MF3T98	1721	90		91		90		90		89	
MF3TB2	1729	90		89		84		87		86	
CCV	1737	88		89		83		82		83	
CCB	1744	91		90		86		85		88	
MF3TB8	1752	82		85		84		86		78	
MF3TB8D	1800	83		86		84		87		78	
MF3TB8S	1808	86		89		87		85		81	
MF3TB8L	1816	89		90		85		86		85	
MF3TB8	1824	90		89		85		86		86	
MF3TB8D	1832	91		90		85		86		87	
ZZZZZZ	1840										
MF3TB8L	1848	91		91		87		90		88	
MF3TE1	1856	88		88		85		88		85	
MF3TE5	1904	87		87		83		86		84	
CCV	1911	88		89		84		84		83	
CCB	1919	91		90		87		88		88	
MF3TB8A	1927	82		85		84		86		78	
MF3TE8	1935	84		87		83		84		79	
MF3TE8	1943	90		89		86		86		87	
MF3TE7	1951	90		90		85		85		85	
ZZZZZZ	1959										
CCV	2007	87		88		81		81		82	
CCB	2015	90		89		86		86		87	

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG NO.: MF3T98

ICP-MS Instrument ID: P6 Start Date: 05/05/2011 End Date: 05/05/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 165Ho	Q	Element 159Tb	Q	Element 45Sc	Q	Element 6Li	Q	Element 103Rh	Q
S0	1413	100									
S	1421	97									
S	1429	96									
S	1437	94									
S	1445	94									
S	1452	90									
ICV	1500	91									
ICB	1508	93									
ICSA	1516	90									
ICSAB	1524	89									
ICSA	1532	92									
ICSAB	1540	93									
CCV	1548	92									
CCB	1556	91									
ZZZZZZ	1604										
PBW	1611	94									
LCS	1633	94									
MF3T98	1641	87									
MF3TB2	1649	88									
MF3TE1	1657	90									
MF3TE5	1705	88									
MF3TE7	1713	88									
MF3T98	1721	92									
MF3TB2	1729	90									
CCV	1737	91									
CCB	1744	90									
MF3TB8	1752	86									
MF3TB8D	1800	87									
MF3TB8S	1808	90									
MF3TB8L	1816	91									
MF3TB8	1824	90									
MF3TB8D	1832	91									
ZZZZZZ	1840										
MF3TB8L	1848	91									
MF3TE1	1856	89									
MF3TE5	1904	87									
CCV	1911	90									
CCB	1919	91									
MF3TB8A	1927	86									
MF3TE8	1935	88									
MF3TE8	1943	90									
MF3TE7	1951	90									
ZZZZZZ	1959										
CCV	2007	89									
CCB	2015	90									

Metals

16-IN

INITIAL CALIBRATION

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Instrument ID: P6 Start Date: 05/05/11

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	0.00000	0	20.0	24	-22	2500	2636	-5
Antimony	0.00	0.00000	0	2.00	2.0	1	125	123	2
Arsenic	0.00	0.00000	0	1.00	1.2	-24	125	127	-2
Barium	0.00	0.00000	0	10.0	10	-2	625	624	0
Beryllium	0.00	0.00000	0	1.00	0.99	1	125	126	-1
Cadmium	0.00	0.00000	0	1.00	1.2	-15	125	127	-2
Calcium	0.00	0.00000	0	500	518	-4	12500	12580	-1
Chromium	0.00	0.00000	0	2.00	2.1	-7	125	126	-1
Cobalt	0.00	0.00000	0	1.00	1.1	-8	125	127	-2
Copper	0.00	0.00000	0	2.00	2.2	-8	250	261	-4
Iron	0.00	0.00000	0	200	221	-10	6250	6483	-4
Lead	0.00	0.00000	0	1.00	1.0	-5	125	126	-1
Magnesium	0.00	0.00000	0	500	526	-5	12500	12820	-3
Manganese	0.00	0.00000	0	1.00	1.2	-17	250	255	-2
Nickel	0.00	0.00000	0	1.00	1.1	-6	125	131	-5
Potassium	0.00	0.00000	0	500	522	-4	6250	6380	-2
Selenium	0.00	0.00000	0	5.00	5.8	-15	125	125	0
Silver	0.00	0.00000	0	1.00	1.1	-7	125	128	-2
Sodium	0.00	0.00000	0	500	485	3	12500	12820	-3
Thallium	0.00	0.00000	0	1.00	1.1	-7	125	127	-2
Vanadium	0.00	0.00000	0	5.00	5.3	-5	125	126	-1
Zinc	0.00	0.00000	0	2.00	2.6	-30	250	257	-3

Control Limits ± 30

Metals

16-IN

INITIAL CALIBRATION

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41214 Mod. Ref. No.: SDG No.: MF3T98

Instrument ID: P6 Start Date: 05/05/11

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	5000	5050	-1	10000	10050	-1	20000	19940	0
Antimony	250	249	0	500	502	0	1000	1000	0
Arsenic	250	251	0	500	499	0	1000	1000	0
Barium	1250	1246	0	2500	2496	0	5000	5003	0
Beryllium	250	253	-1	500	495	1	1000	1001	0
Cadmium	250	254	-2	500	504	-1	1000	997	0
Calcium	25000	24820	1	50000	49260	1	100000	100400	0
Chromium	250	252	-1	500	498	0	1000	1001	0
Cobalt	250	253	-1	500	500	0	1000	999	0
Copper	500	510	-2	1000	1006	-1	2000	1993	0
Iron	12500	12740	-2	25000	25100	0	50000	49860	0
Lead	250	251	0	500	501	0	1000	999	0
Magnesium	25000	25480	-2	50000	50450	-1	100000	99620	0
Manganese	500	503	-1	1000	1002	0	2000	1998	0
Nickel	250	253	-1	500	498	0	1000	1000	0
Potassium	12500	12660	-1	25000	25110	0	50000	49890	0
Selenium	250	252	-1	500	501	0	1000	999	0
Silver	250	254	-1	500	499	0	1000	999	0
Sodium	25000	25440	-2	50000	50340	-1	100000	99680	0
Thallium	250	253	-1	500	504	-1	1000	997	0
Vanadium	250	250	0	500	496	1	1000	1002	0
Zinc	500	509	-2	1000	1008	-1	2000	1993	0

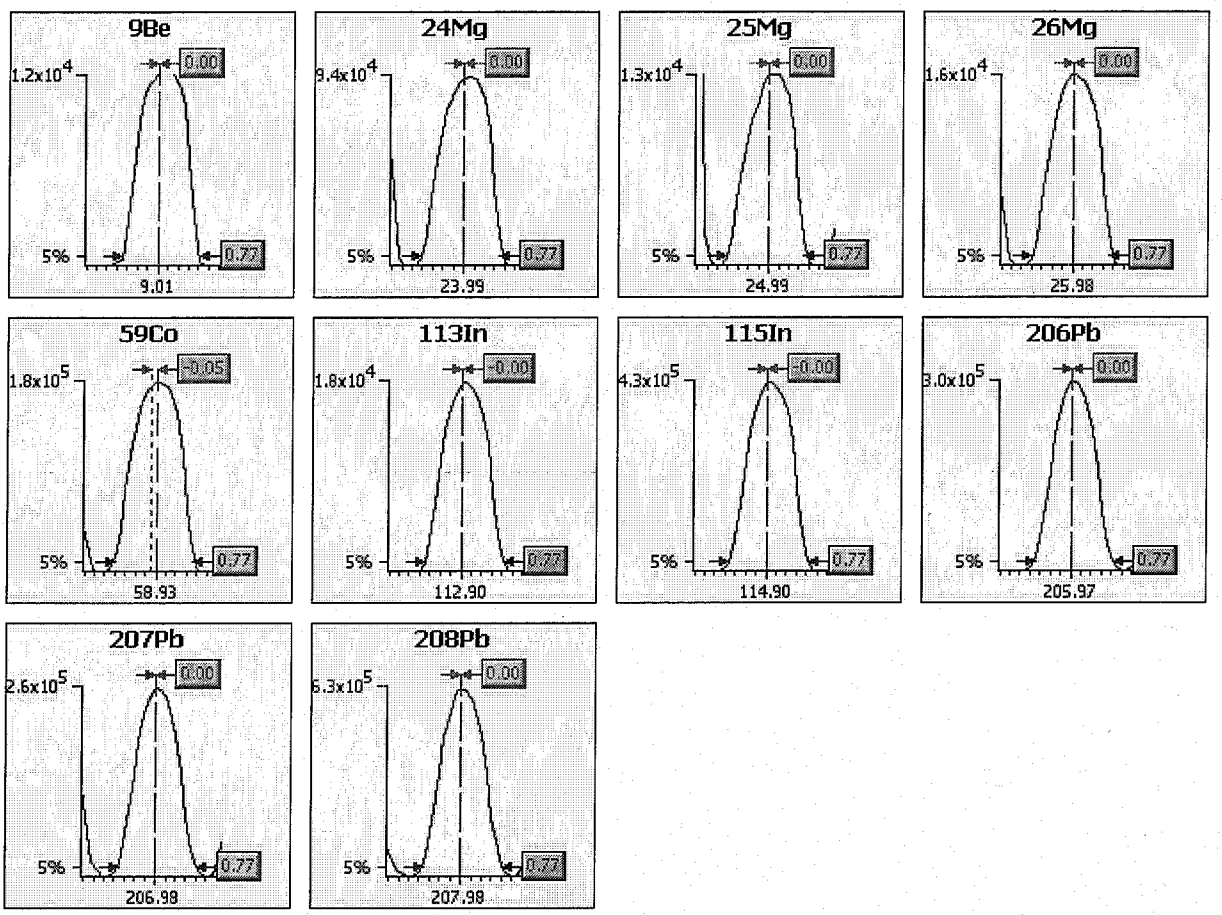
Control Limits ± 30

Performance Report

Sample details
Sample name : TUNE (TUNE)
Acquired at : 05/05/2011 01:18:42 PM
Report name : ISM01.2 [03/09/2010 11:16:01 AM]

Mass Calibration verification

Acquisition parameters
Sweeps : 20
Dwell : 3.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.77	0.00
24Mg	0.85	0.65	0.10	0.77	0.00
25Mg	0.85	0.65	0.10	0.77	0.00
26Mg	0.85	0.65	0.10	0.77	0.00
59Co	0.85	0.65	0.10	0.77	-0.05
113In	0.85	0.65	0.10	0.77	-0.00
115In	0.85	0.65	0.10	0.77	-0.00
206Pb	0.85	0.65	0.10	0.77	0.00
207Pb	0.85	0.65	0.10	0.77	0.00
208Pb	0.85	0.65	0.10	0.77	0.00

INSTRUMENT ID: P6

Sample details
Sample name : TUNE
Acquired at : 05/05/2011 01:18:42 PM
Report name : ISM01.2 [03/09/2010 11:16:01 AM]

(TUNE)

Tune conditions

Major	
Extraction	-173
Lens 1	0.3
Focus	20.0
D1	-38.4
Pole Bias	1.0
Hexapole Bias	-3.0
Nebuliser	0.82
Sampling Depth	130

Minor	
Lens 2	-34.5
Lens 3	-151.4
Forward power	1349
Horizontal	111
Vertical	576
D2	-160
DA	-80.0
Cool	13.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases

Sensitivity and stability results

Acquisition parameters

Sweeps : 130

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	138Ba++	113In	115In
Dwell (mSecs)		0.0	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%	-	5.0%	5.0%
	Countrate	-	>2000	>8000	>1000	>1000	>25000	-	>2500	>50000
1	01:19:04 PM	0.000	12907.367	93230.923	12997.448	15405.225	184792.12	4772.335	17935.868	430986.15
2	01:19:33 PM	0.000	12759.542	93062.910	12883.499	15470.680	182354.17	4821.583	17966.676	430803.85
3	01:20:02 PM	0.769	12754.152	93767.495	12920.456	15416.776	184178.11	4669.224	18201.588	430934.63
4	01:20:31 PM	0.000	12811.896	93525.144	13189.163	15644.716	185389.79	4723.088	18277.839	429044.37
5	01:21:00 PM	0.000	12587.081	93767.495	12865.791	15483.001	183483.10	4770.027	17814.177	426823.94
x		0.154	12764.008	93470.793	12971.271	15484.080	184039.46	4751.252	18039.229	429718.59
σ		0.34	116.47	317.38	131.88	95.83	1178.86	57.59	193.58	1809.47
%RSD		223.607	0.913	0.340	1.017	0.619	0.641	1.212	1.073	0.421

Run	Time	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	-	5.0%	5.0%	5.0%	-
	Countrate	-	-	-	>20000	>20000	>40000	<1
1	01:19:04 PM	358627.21	519394.15	7737.479	295574.13	256178.86	629374.34	0.000
2	01:19:33 PM	357631.16	518013.83	7606.640	294778.71	254714.56	625081.90	0.000
3	01:20:02 PM	355397.21	520154.94	7807.518	291344.72	254966.69	626088.42	0.000
4	01:20:31 PM	354497.57	517256.34	7758.260	293736.02	256191.39	623952.57	0.769
5	01:21:00 PM	355096.01	514866.92	7674.368	289984.38	253053.90	619061.13	0.000
x		356249.83	517937.23	7716.853	293083.59	255021.08	624711.67	0.154
σ		1781.06	2057.74	77.96	2352.16	1291.97	3750.93	0.34
%RSD		0.500	0.397	1.010	0.803	0.507	0.600	223.607

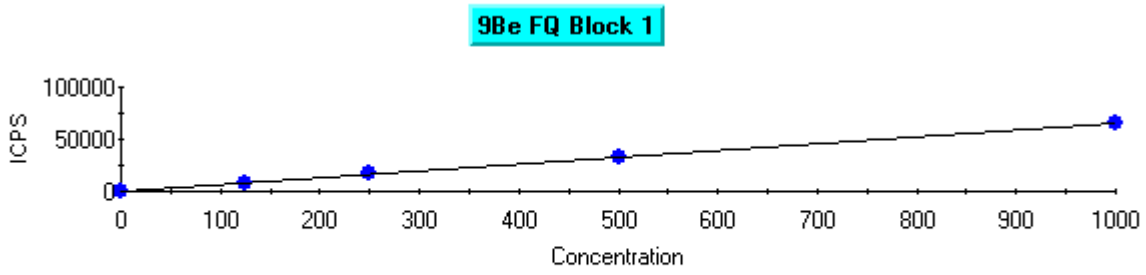
Ratio results

Run	Time	156Ce O/140Ce	138Ba++/138Ba
	Ratio limits	<0.0200	<0.0300
1	01:19:04 PM	0.015	0.013
2	01:19:33 PM	0.015	0.013
3	01:20:02 PM	0.015	0.013
4	01:20:31 PM	0.015	0.013
5	01:21:00 PM	0.015	0.013
x		0.0149	0.0133
σ		0.00	0.00
%RSD		0.8781	0.9983

Result : The performance report passed.

22	C1938-07 MF3TE5	Unknown	1.000	1	2	9	144
23	C1938-08 MF3TE7	Unknown	1.000	1	2	10	144
24	C1938-01X25 MF3T98	Unknown	1.000	1	2	11	144
25	C1938-02X25 MF3TB2	Unknown	1.000	1	2	12	144
26	CCV	Unknown	1.000	1	3	1	144
27	CCB	Unknown	1.000	1	3	2	144
28	C1938-03 MF3TB8	Unknown	1.000	1	3	3	144
29	C1938-04 MF3TB8D	Unknown	1.000	1	3	4	144
30	C1938-05 MF3TB8S	Unknown	1.000	1	3	5	144
31	C1938-03LX5 MF3TB8L	Unknown	1.000	1	3	6	144
32	C1938-03X25 MF3TB8	Unknown	1.000	1	3	7	144
33	C1938-04X25 MF3TB8D	Unknown	1.000	1	3	8	144
34	C1938-05X25 MF3TB8S	Unknown	1.000	1	3	9	144
35	C1938-03LX125 MF3TB8L	Unknown	1.000	1	3	10	144
36	C1938-06X25 MF3TE1	Unknown	1.000	1	3	11	144
37	C1938-07X25 MF3TE5	Unknown	1.000	1	3	12	144
38	CCV	Unknown	1.000	1	4	1	144
39	CCB	Unknown	1.000	1	4	2	144
40	C1938-03A MF3TB8A	Unknown	1.000	1	4	3	144
41	C1938-09 MF3TE8	Unknown	1.000	1	4	4	144
42	C1938-09X25 MF3TE8	Unknown	1.000	1	4	5	144
43	C1938-08X25 MF3TE7	Unknown	1.000	1	4	6	144
44	ZZZZZZ	Unknown	1.000	1	4	7	144
45	CCV	Unknown	1.000	1	4	8	144
46	CCB	Unknown	1.000	1	4	9	144
47	ZZZZZZ	Unknown	1.000	1	4	10	144
48	ZZZZZZ	Unknown	1.000	1	4	11	144
49	ZZZZZZ	Unknown	1.000	1	4	12	144
50	ZZZZZZ	Unknown	1.000	1	5	1	144
51	ZZZZZZ	Unknown	1.000	1	5	2	144
52	ZZZZZZ	Unknown	1.000	1	5	3	144
53	ZZZZZZ	Unknown	1.000	1	5	4	144
54	ZZZZZZ	Unknown	1.000	1	5	5	144
55	ZZZZZZ	Unknown	1.000	1	5	6	144
56	ZZZZZZ	Unknown	1.000	1	5	7	144
57	CCV	Unknown	1.000	1	5	8	144
58	CCB	Unknown	1.000	1	5	9	144
59	IDL-1	Unknown	1.000	1	5	10	144
60	IDL-2	Unknown	1.000	1	5	11	144
61	IDL-3	Unknown	1.000	1	5	12	144
62	IDL-4	Unknown	1.000	2	1	1	144
63	IDL-5	Unknown	1.000	2	1	2	144
64	IDL-6	Unknown	1.000	2	1	3	144
65	IDL-7	Unknown	1.000	2	1	4	144
66	ZZZZZZ	Unknown	1.000	2	1	5	144
67	ZZZZZZ	Unknown	1.000	2	1	6	144
68	ZZZZZZ	Unknown	1.000	2	1	7	144
69	CCV	Unknown	1.000	2	1	8	144
70	CCB	Unknown	1.000	2	1	9	144

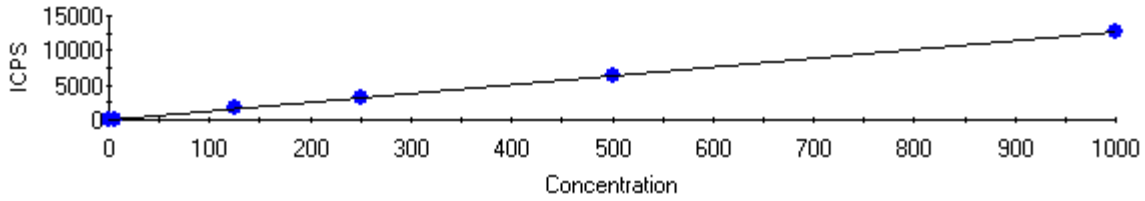
Fully Quant Calibration



Intercept CPS=4.511792 Intercept Conc=0.068723
Sensitivity=65.651825 Correlation Coeff=0.999979

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	4.51	0.00
S1 (S)	1.000	0.988	0.012	69.38	1.19
S2 (S)	125.000	126.279	1.279	8294.94	1.02
S3 (S)	250.000	252.550	2.550	16584.87	1.02
S4 (S)	500.000	495.447	4.553	32531.50	0.91
S5 (S)	1000.000	1001.479	1.479	65753.45	0.15

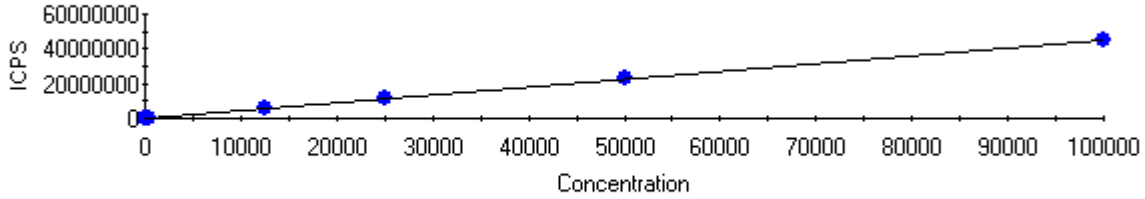
10B FQ Block 1



Intercept CPS=15.622240 Intercept Conc=1.225614
Sensitivity=12.746463 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	15.62	0.00
S1 (S)	5.000	5.910	0.910	90.95	18.20
S2 (S)	125.000	123.634	1.366	1591.51	1.09
S3 (S)	250.000	253.016	3.016	3240.68	1.21
S4 (S)	500.000	503.116	3.116	6428.57	0.62
S5 (S)	1000.000	997.854	2.146	12734.73	0.21

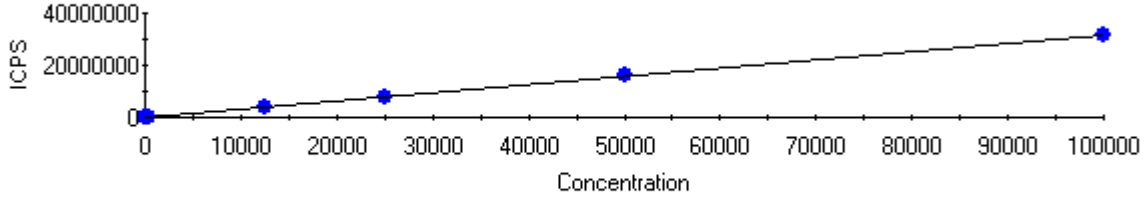
23Na FQ Block 1



Intercept CPS=110684.215906 Intercept Conc=243.991858
Sensitivity=453.638973 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	110684.22	0.00
S1 (S)	500.000	484.977	15.023	330688.56	3.00
S2 (S)	12500.000	12819.167	319.167	5925957.84	2.55
S3 (S)	25000.000	25436.384	436.384	11649619.49	1.75
S4 (S)	50000.000	50341.270	341.270	22947446.01	0.68
S5 (S)	100000.000	99680.448	319.552	45329620.48	0.32

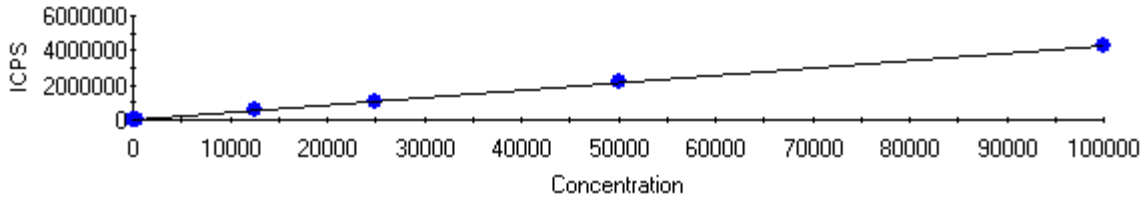
24Mg FQ Block 1



Intercept CPS=4420.442895 Intercept Conc=14.037868
Sensitivity=314.894186 Correlation Coeff=0.999970

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	4420.44	0.00
S1 (S)	500.000	526.308	26.308	170151.93	5.26
S2 (S)	12500.000	12823.077	323.077	4042332.88	2.58
S3 (S)	25000.000	25475.163	475.163	8026401.12	1.90
S4 (S)	50000.000	50445.657	445.657	15889464.50	0.89
S5 (S)	100000.000	99617.865	382.135	31373506.81	0.38

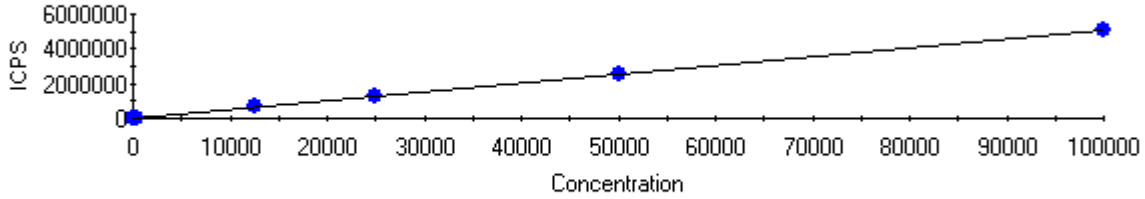
25Mg FQ Block 1



Intercept CPS=582.352851 Intercept Conc=13.642603
Sensitivity=42.686343 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	582.35	0.00
S1 (S)	500.000	527.435	27.435	23096.64	5.49
S2 (S)	12500.000	12848.700	348.700	549046.38	2.79
S3 (S)	25000.000	25378.434	378.434	1083894.92	1.51
S4 (S)	50000.000	50151.488	151.488	2141366.00	0.30
S5 (S)	100000.000	99785.923	214.077	4260078.52	0.21

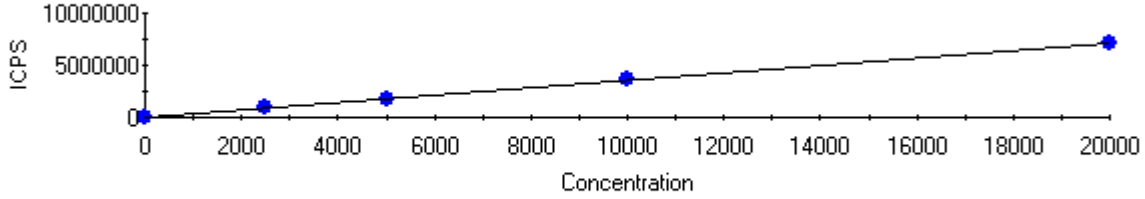
26Mg FQ Block 1



Intercept CPS=677.576214 Intercept Conc=13.452903
Sensitivity=50.366544 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	677.58	0.00
S1 (S)	500.000	530.252	30.252	27384.53	6.05
S2 (S)	12500.000	12800.908	300.908	645415.06	2.41
S3 (S)	25000.000	25676.636	676.636	1293920.99	2.71
S4 (S)	50000.000	50158.196	158.196	2526972.56	0.32
S5 (S)	100000.000	99713.978	286.022	5022926.04	0.29

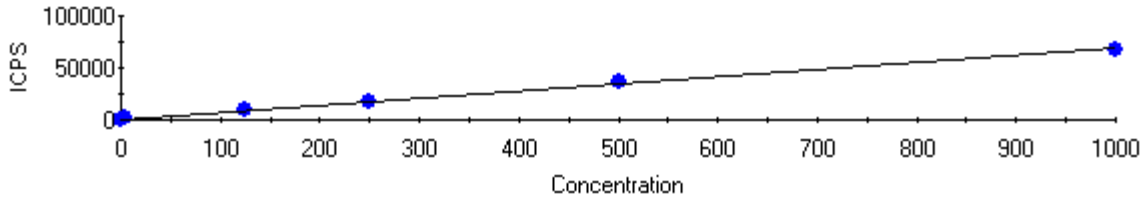
27Al FQ Block 1



Intercept CPS=1255.852717 Intercept Conc=3.535806
Sensitivity=355.181415 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	1255.85	0.00
S1 (S)	20.000	24.492	4.492	9955.08	22.46
S2 (S)	2500.000	2636.069	136.069	937538.65	5.44
S3 (S)	5000.000	5049.580	49.580	1794772.67	0.99
S4 (S)	10000.000	10052.123	52.123	3571583.01	0.52
S5 (S)	20000.000	19944.531	55.469	7085182.46	0.28

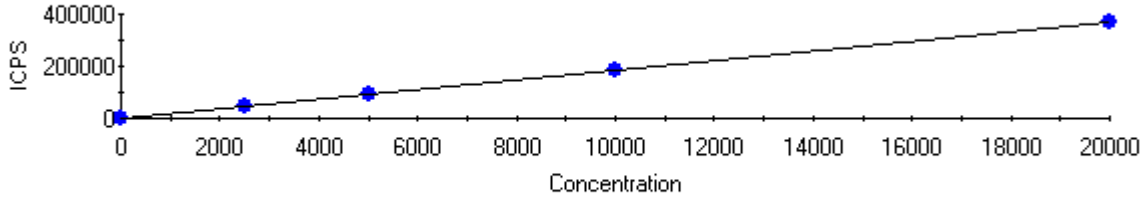
28Si FQ Block 1



Intercept CPS=658.486700 Intercept Conc=9.729362
Sensitivity=67.680355 Correlation Coeff=0.999611

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	658.49	0.00
S1 (S)	5.000	8.250	3.250	1216.86	65.00
S2 (S)	125.000	124.013	0.987	9051.71	0.79
S3 (S)	250.000	245.551	4.449	17277.46	1.78
S4 (S)	500.000	521.805	21.805	35974.43	4.36
S5 (S)	1000.000	990.317	9.683	67683.49	0.97

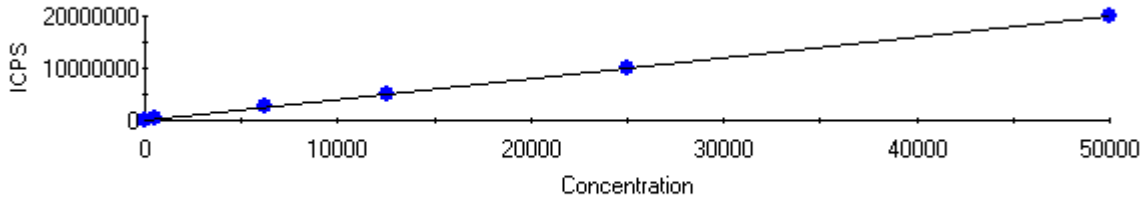
31P FQ Block 1



Intercept CPS=870.305028 Intercept Conc=47.394571
Sensitivity=18.362969 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	870.31	0.00
S1 (S)	0.000	5.161	5.161	965.09	0.00
S2 (S)	2500.000	2560.788	60.788	47893.98	2.43
S3 (S)	5000.000	5065.103	65.103	93880.63	1.30
S4 (S)	10000.000	9904.331	95.669	182743.22	0.96
S5 (S)	20000.000	20023.960	23.960	368569.67	0.12

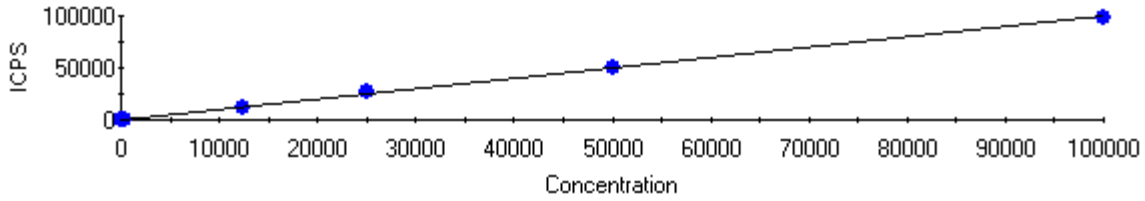
39K FQ Block 1



Intercept CPS=82623.886759 Intercept Conc=208.393806
Sensitivity=396.479571 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	82623.89	0.00
S1 (S)	500.000	522.044	22.044	289603.66	4.41
S2 (S)	6250.000	6380.068	130.068	2612190.70	2.08
S3 (S)	12500.000	12662.063	162.063	5102873.09	1.30
S4 (S)	25000.000	25114.166	114.166	10039877.73	0.46
S5 (S)	50000.000	49885.922	114.078	19861372.92	0.23

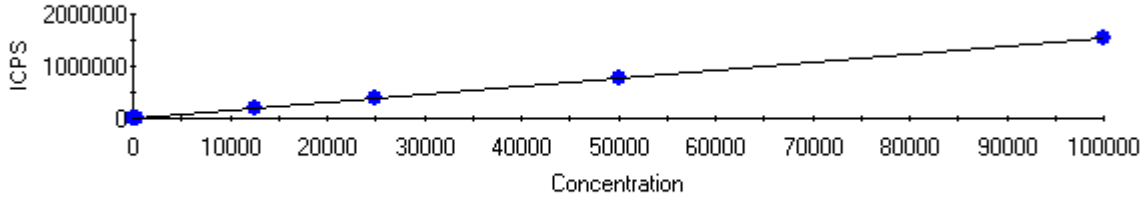
43Ca FQ Block 1



Intercept CPS=26.048808 Intercept Conc=26.255338
Sensitivity=0.992134 Correlation Coeff=0.999700

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	26.05	0.00
S1 (S)	500.000	498.986	1.014	521.11	0.20
S2 (S)	12500.000	11950.822	549.178	11882.86	4.39
S3 (S)	25000.000	26657.962	1657.962	26474.31	6.63
S4 (S)	50000.000	51038.404	1038.404	50662.97	2.08
S5 (S)	100000.000	99134.960	865.040	98381.19	0.87

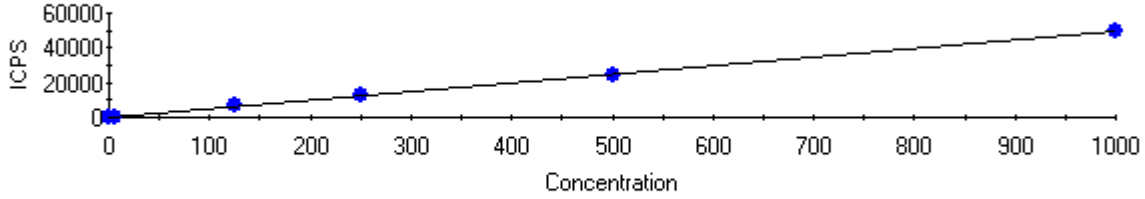
44Ca FQ Block 1



Intercept CPS=609.419452 Intercept Conc=39.311481
Sensitivity=15.502328 Correlation Coeff=0.999953

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	609.42	0.00
S1 (S)	500.000	518.270	18.270	8643.81	3.65
S2 (S)	12500.000	12584.630	84.630	195700.47	0.68
S3 (S)	25000.000	24820.766	179.234	385389.07	0.72
S4 (S)	50000.000	49259.872	740.128	764252.09	1.48
S5 (S)	100000.000	100404.203	404.203	1557108.27	0.40

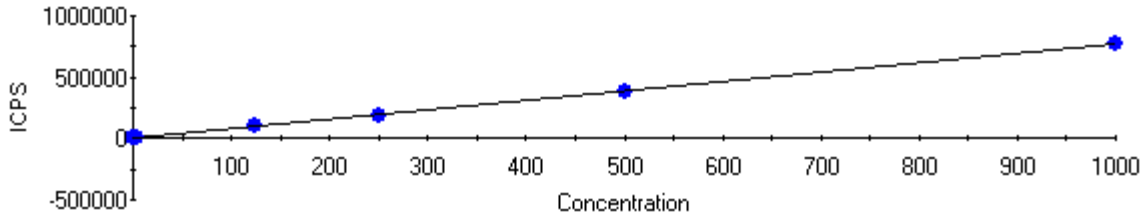
47Ti FQ Block 1



Intercept CPS=4.170262 Intercept Conc=0.083313
Sensitivity=50.055336 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	4.17	0.00
S1 (S)	5.000	5.052	0.052	257.07	1.05
S2 (S)	125.000	127.444	2.444	6383.42	1.96
S3 (S)	250.000	249.243	0.757	12480.13	0.30
S4 (S)	500.000	495.419	4.581	24802.54	0.92
S5 (S)	1000.000	1002.174	2.174	50168.32	0.22

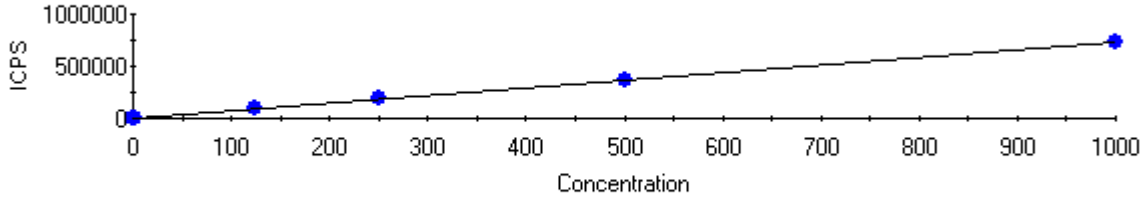
51V FQ Block 1



Intercept CPS=4.351885 Intercept Conc=0.005648
Sensitivity=770.547874 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	4.35	0.00
S1 (S)	5.000	5.265	0.265	4061.46	5.30
S2 (S)	125.000	125.728	0.728	96884.17	0.58
S3 (S)	250.000	249.504	0.496	192258.91	0.20
S4 (S)	500.000	495.712	4.288	381973.97	0.86
S5 (S)	1000.000	1002.176	2.176	772228.80	0.22

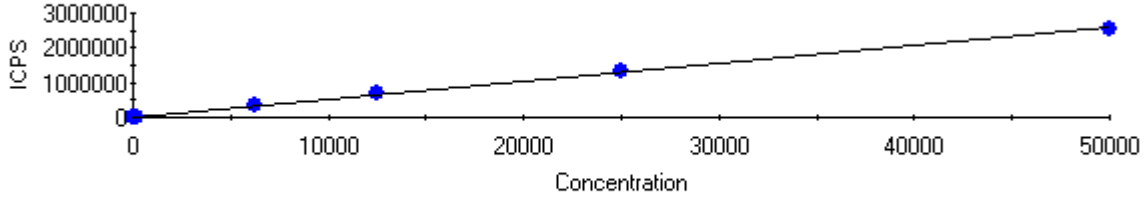
52Cr FQ Block 1



Intercept CPS=263.600874 Intercept Conc=0.359969
Sensitivity=732.287140 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	263.60	0.00
S1 (S)	2.000	2.149	0.149	1837.00	7.43
S2 (S)	125.000	126.220	1.220	92692.86	0.98
S3 (S)	250.000	251.766	1.766	184628.33	0.71
S4 (S)	500.000	497.660	2.340	364693.80	0.47
S5 (S)	1000.000	1000.576	0.576	732972.30	0.06

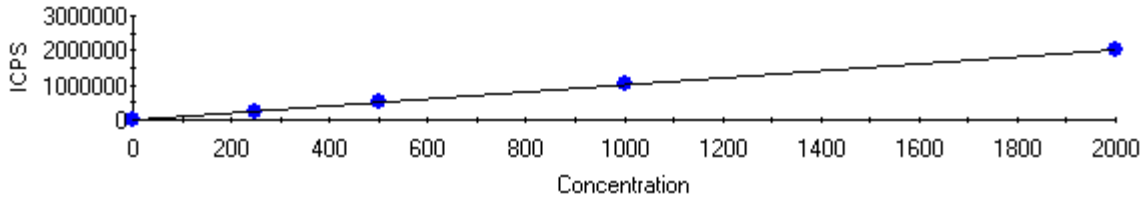
54Fe FQ Block 1



Intercept CPS=2572.710002 Intercept Conc=49.611600
Sensitivity=51.857025 Correlation Coeff=0.999526

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	2572.71	0.00
S1 (S)	200.000	220.272	20.272	13995.38	10.14
S2 (S)	6250.000	6616.916	366.916	345706.29	5.87
S3 (S)	12500.000	13106.492	606.492	682236.39	4.85
S4 (S)	25000.000	26094.043	1094.043	1355732.15	4.38
S5 (S)	50000.000	49255.410	744.590	2556811.75	1.49

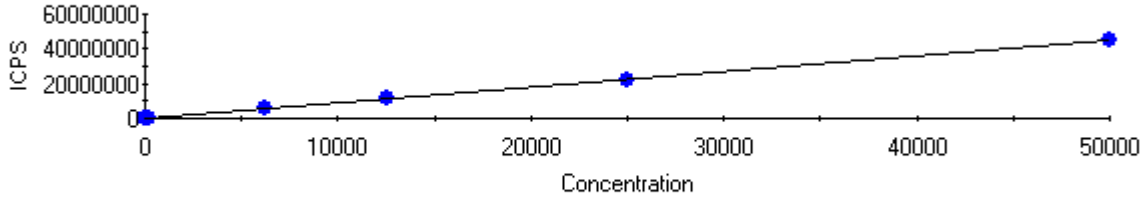
55Mn FQ Block 1



Intercept CPS=252.031382 Intercept Conc=0.248549
Sensitivity=1014.010106 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	252.03	0.00
S1 (S)	1.000	1.170	0.170	1438.12	16.97
S2 (S)	250.000	255.263	5.263	259090.94	2.11
S3 (S)	500.000	503.083	3.083	510383.15	0.62
S4 (S)	1000.000	1001.804	1.804	1016091.28	0.18
S5 (S)	2000.000	1997.669	2.331	2025909.02	0.12

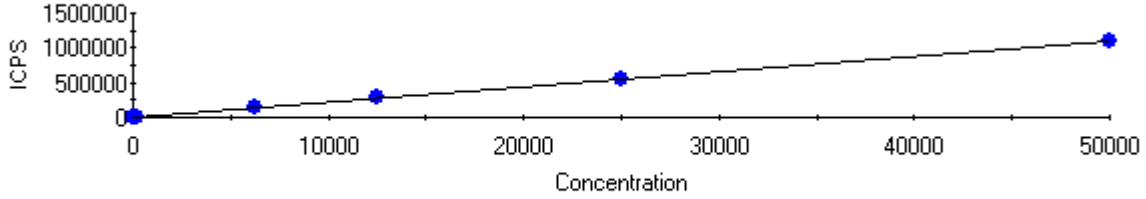
56Fe FQ Block 1



Intercept CPS=34758.529671 Intercept Conc=38.969170
Sensitivity=891.949448 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	34758.53	0.00
S1 (S)	200.000	213.236	13.236	224953.84	6.62
S2 (S)	6250.000	6382.027	132.027	5727204.04	2.11
S3 (S)	12500.000	12618.237	118.237	11289587.69	0.95
S4 (S)	25000.000	24882.501	117.499	22228691.21	0.47
S5 (S)	50000.000	50012.634	12.634	44643500.04	0.03

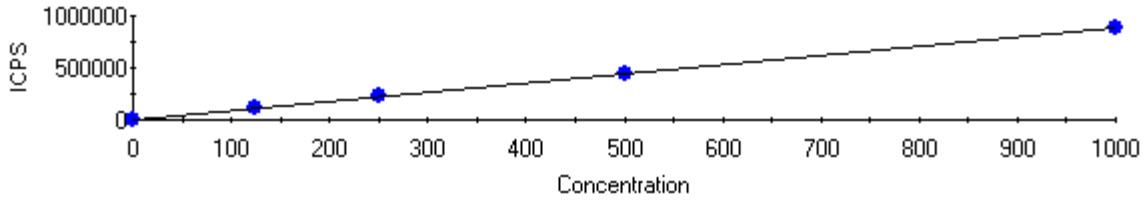
57Fe FQ Block 1



Intercept CPS=1485.959200 Intercept Conc=67.171843
Sensitivity=22.121757 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	1485.96	0.00
S1 (S)	200.000	220.468	20.468	6363.11	10.23
S2 (S)	6250.000	6482.667	232.667	144893.93	3.72
S3 (S)	12500.000	12741.092	241.092	283341.31	1.93
S4 (S)	25000.000	25099.454	99.454	556729.99	0.40
S5 (S)	50000.000	49860.835	139.165	1104495.24	0.28

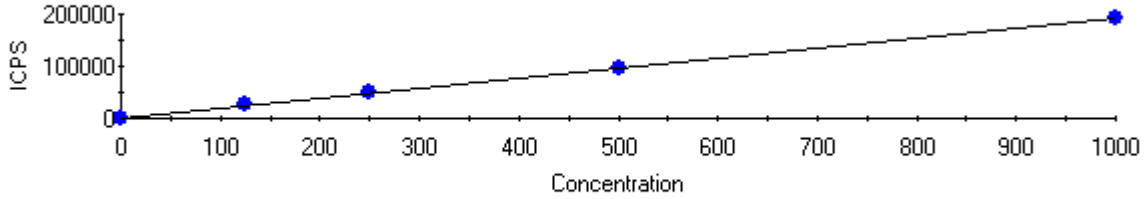
59Co FQ Block 1



Intercept CPS=36.906691 Intercept Conc=0.041645
Sensitivity=886.220360 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	36.91	0.00
S1 (S)	1.000	1.078	0.078	992.40	7.82
S2 (S)	125.000	127.264	2.264	112820.76	1.81
S3 (S)	250.000	252.717	2.717	223999.96	1.09
S4 (S)	500.000	500.060	0.060	443200.06	0.01
S5 (S)	1000.000	999.008	0.992	885377.93	0.10

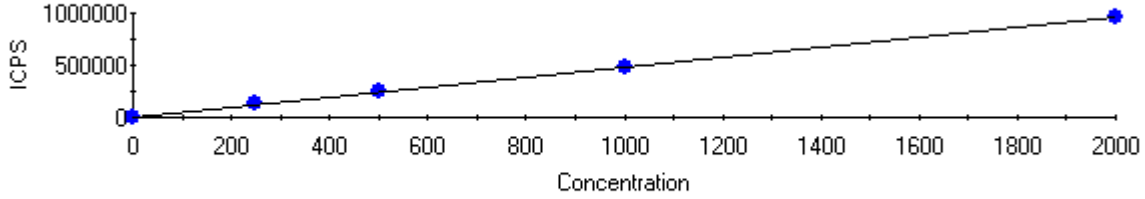
60Ni FQ Block 1



Intercept CPS=23.932548 Intercept Conc=0.124399
Sensitivity=192.385179 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	23.93	0.00
S1 (S)	1.000	1.063	0.063	228.36	6.26
S2 (S)	125.000	130.661	5.661	25161.16	4.53
S3 (S)	250.000	252.822	2.822	48663.23	1.13
S4 (S)	500.000	497.711	2.289	95776.15	0.46
S5 (S)	1000.000	999.731	0.269	192357.40	0.03

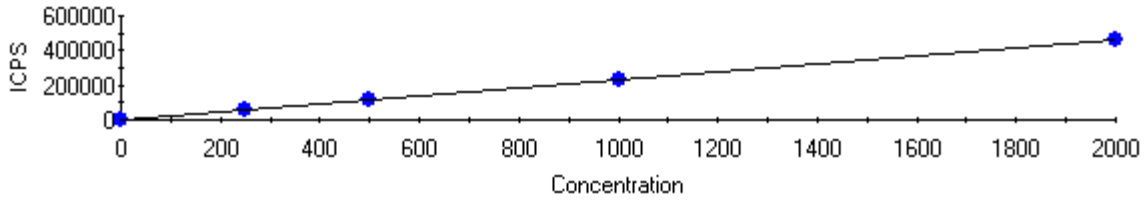
63Cu FQ Block 1



Intercept CPS=119.322887 Intercept Conc=0.246392
Sensitivity=484.281556 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	119.32	0.00
S1 (S)	2.000	2.166	0.166	1168.32	8.30
S2 (S)	250.000	260.891	10.891	126464.08	4.36
S3 (S)	500.000	509.757	9.757	246985.25	1.95
S4 (S)	1000.000	1005.684	5.684	487153.59	0.57
S5 (S)	2000.000	1993.357	6.643	965465.42	0.33

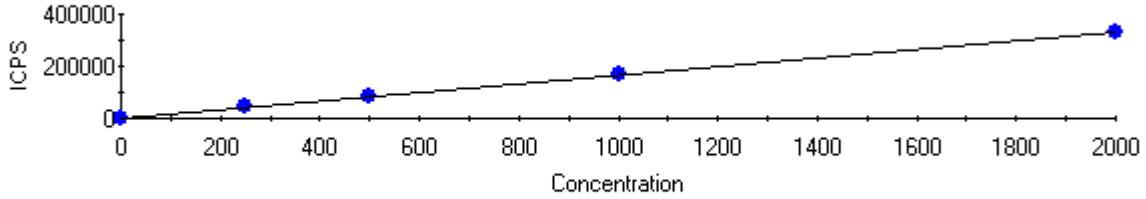
65Cu FQ Block 1



Intercept CPS=29.674574 Intercept Conc=0.128178
Sensitivity=231.510089 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	29.67	0.00
S1 (S)	2.000	2.319	0.319	566.49	15.94
S2 (S)	250.000	259.859	9.859	60189.66	3.94
S3 (S)	500.000	512.613	12.613	118704.76	2.52
S4 (S)	1000.000	1003.267	3.267	232296.12	0.33
S5 (S)	2000.000	1993.981	6.019	461656.28	0.30

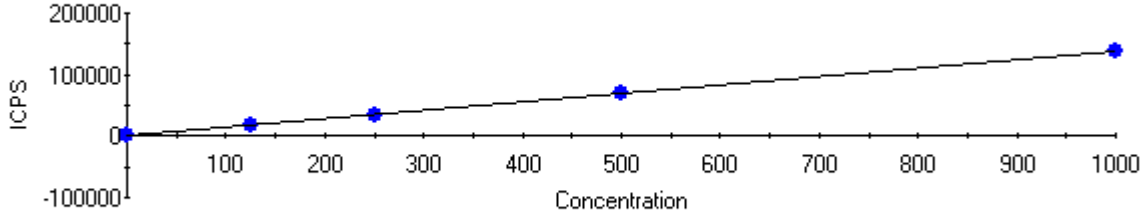
66Zn FQ Block 1



Intercept CPS=78.635968 Intercept Conc=0.472317
Sensitivity=166.489796 Correlation Coeff=0.999974

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	78.64	0.00
S1 (S)	2.000	2.591	0.591	510.09	29.57
S2 (S)	250.000	256.531	6.531	42788.48	2.61
S3 (S)	500.000	508.683	8.683	84769.16	1.74
S4 (S)	1000.000	1008.373	8.373	167962.49	0.84
S5 (S)	2000.000	1992.826	7.174	331863.77	0.36

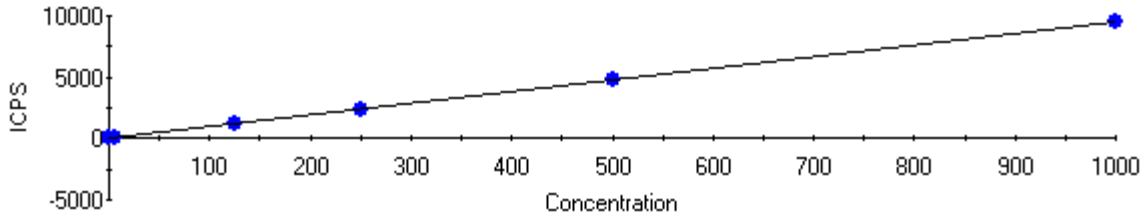
75As FQ Block 1



Intercept CPS=-13.923165 Intercept Conc=-0.099740
Sensitivity=139.594304 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	-13.92	0.00
S1 (S)	1.000	1.237	0.237	158.69	23.65
S2 (S)	125.000	127.165	2.165	17737.60	1.73
S3 (S)	250.000	250.644	0.644	34974.61	0.26
S4 (S)	500.000	499.338	0.662	69690.84	0.13
S5 (S)	1000.000	999.899	0.101	139566.27	0.01

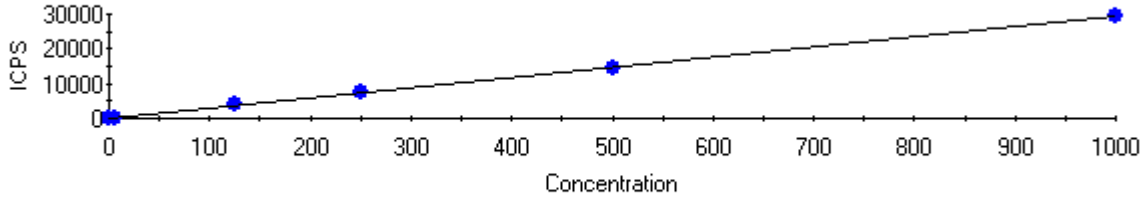
77Se FQ Block 1



Intercept CPS=-3.892453 Intercept Conc=-0.406415
Sensitivity=9.577520 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	-3.89	0.00
S1 (S)	5.000	5.785	0.785	51.51	15.69
S2 (S)	125.000	125.497	0.497	1198.06	0.40
S3 (S)	250.000	252.453	2.453	2413.98	0.98
S4 (S)	500.000	501.569	1.569	4799.90	0.31
S5 (S)	1000.000	998.536	1.464	9559.61	0.15

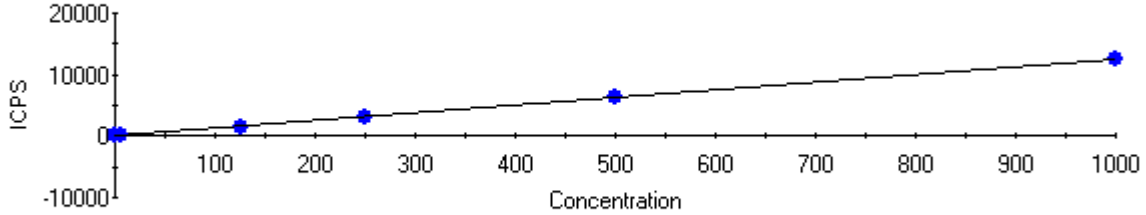
78Se FQ Block 1



Intercept CPS=134.366246 Intercept Conc=4.611959
Sensitivity=29.134311 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	134.37	0.00
S1 (S)	5.000	5.205	0.205	286.00	4.09
S2 (S)	125.000	125.522	0.522	3791.37	0.42
S3 (S)	250.000	251.499	1.499	7461.61	0.60
S4 (S)	500.000	500.208	0.208	14707.58	0.04
S5 (S)	1000.000	999.455	0.545	29252.80	0.05

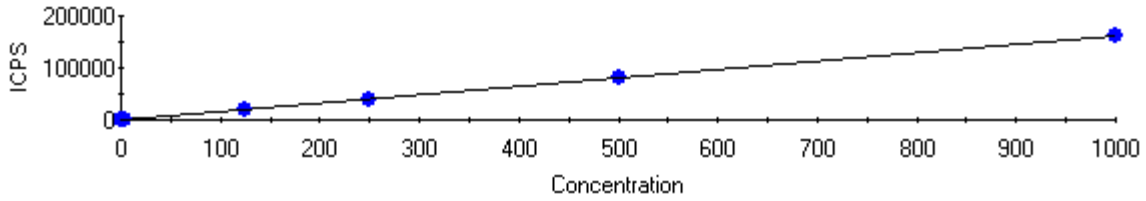
82Se FQ Block 1



Intercept CPS=-5.057419 Intercept Conc=-0.405406
Sensitivity=12.474941 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	-5.06	0.00
S1 (S)	5.000	5.768	0.768	66.90	15.36
S2 (S)	125.000	125.162	0.162	1556.33	0.13
S3 (S)	250.000	251.894	1.894	3137.31	0.76
S4 (S)	500.000	500.808	0.808	6242.49	0.16
S5 (S)	1000.000	999.099	0.901	12458.64	0.09

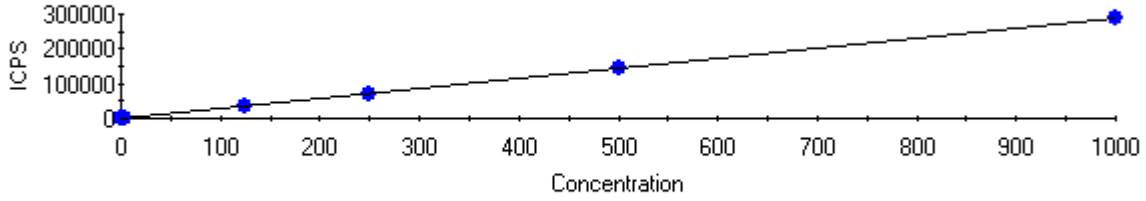
94Mo FQ Block 1



Intercept CPS=13.033382 Intercept Conc=0.081409
Sensitivity=160.097701 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	13.03	0.00
S1 (S)	5.000	4.987	0.013	811.38	0.27
S2 (S)	125.000	122.850	2.150	19681.00	1.72
S3 (S)	250.000	247.371	2.629	39616.58	1.05
S4 (S)	500.000	499.671	0.329	80009.25	0.07
S5 (S)	1000.000	1001.090	1.090	160285.31	0.11

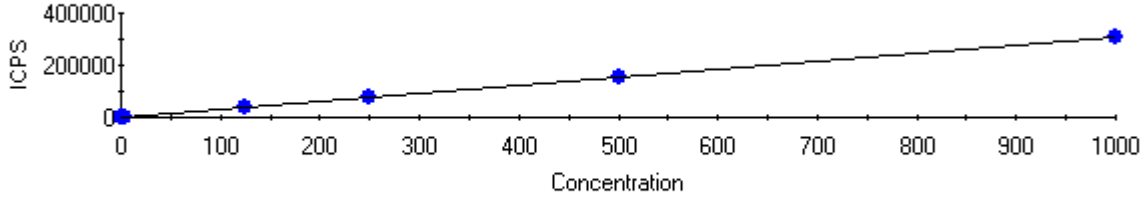
95Mo FQ Block 1



Intercept CPS=6.769106 Intercept Conc=0.023643
Sensitivity=286.299753 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	6.77	0.00
S1 (S)	5.000	4.999	0.001	1438.00	0.02
S2 (S)	125.000	121.826	3.174	34885.48	2.54
S3 (S)	250.000	245.917	4.083	70412.74	1.63
S4 (S)	500.000	498.567	1.433	142746.24	0.29
S5 (S)	1000.000	1002.134	2.134	286917.56	0.21

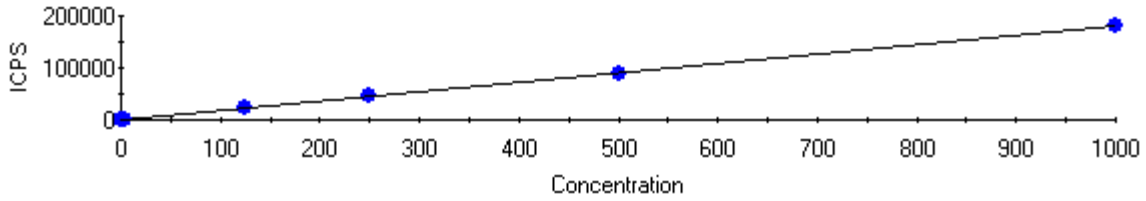
96Mo FQ Block 1



Intercept CPS=6.258249 Intercept Conc=0.020372
Sensitivity=307.194807 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	6.26	0.00
S1 (S)	5.000	5.022	0.022	1548.84	0.43
S2 (S)	125.000	122.780	2.220	37723.59	1.78
S3 (S)	250.000	248.502	1.498	76344.75	0.60
S4 (S)	500.000	498.012	1.988	152992.95	0.40
S5 (S)	1000.000	1001.646	1.646	307706.69	0.16

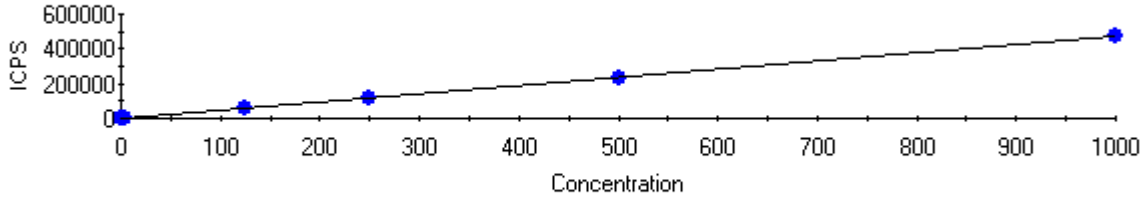
97Mo FQ Block 1



Intercept CPS=11.975941 Intercept Conc=0.066904
Sensitivity=179.003192 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	11.98	0.00
S1 (S)	5.000	5.063	0.063	918.31	1.26
S2 (S)	125.000	121.245	3.755	21715.23	3.00
S3 (S)	250.000	250.844	0.844	44913.82	0.34
S4 (S)	500.000	496.643	3.357	88912.70	0.67
S5 (S)	1000.000	1001.936	1.936	179361.81	0.19

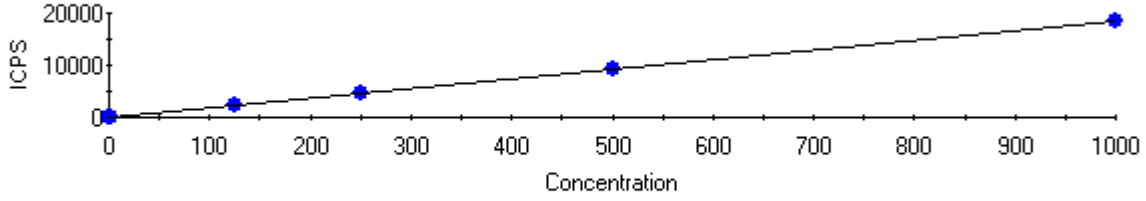
98Mo FQ Block 1



Intercept CPS=12.505706 Intercept Conc=0.026466
Sensitivity=472.515557 Correlation Coeff=0.999966

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	12.51	0.00
S1 (S)	5.000	4.892	0.108	2324.18	2.15
S2 (S)	125.000	123.075	1.925	58167.38	1.54
S3 (S)	250.000	246.346	3.654	116414.99	1.46
S4 (S)	500.000	494.188	5.812	233523.83	1.16
S5 (S)	1000.000	1004.061	4.061	474446.84	0.41

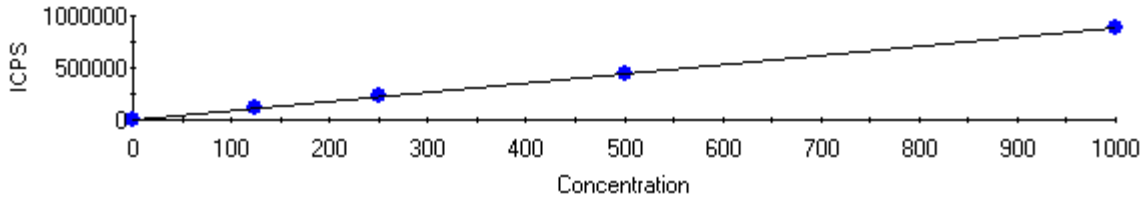
106Cd FQ Block 1



Intercept CPS=122.865747 Intercept Conc=6.742716
Sensitivity=18.221997 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	122.87	0.00
S1 (S)	1.000	1.497	0.497	150.15	49.73
S2 (S)	125.000	127.888	2.888	2453.24	2.31
S3 (S)	250.000	253.337	3.337	4739.18	1.33
S4 (S)	500.000	495.730	4.270	9156.06	0.85
S5 (S)	1000.000	1000.939	0.939	18361.97	0.09

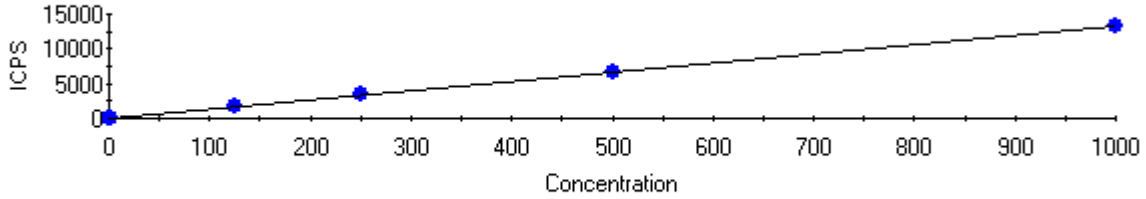
107Ag FQ Block 1



Intercept CPS=4.686542 Intercept Conc=0.005336
Sensitivity=878.322045 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	4.69	0.00
S1 (S)	1.000	1.072	0.072	946.41	7.22
S2 (S)	125.000	127.972	2.972	112405.35	2.38
S3 (S)	250.000	253.540	3.540	222694.28	1.42
S4 (S)	500.000	498.862	1.138	438166.54	0.23
S5 (S)	1000.000	999.312	0.688	877722.68	0.07

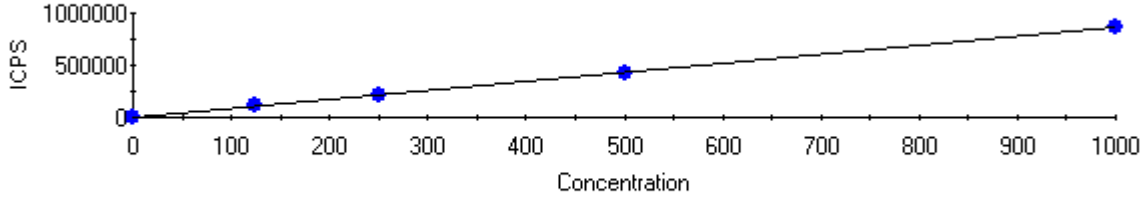
108Cd FQ Block 1



Intercept CPS=89.692381 Intercept Conc=6.756597
Sensitivity=13.274786 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	89.69	0.00
S1 (S)	1.000	1.507	0.507	109.70	50.73
S2 (S)	125.000	128.014	3.014	1789.05	2.41
S3 (S)	250.000	253.502	3.502	3454.87	1.40
S4 (S)	500.000	495.826	4.174	6671.68	0.83
S5 (S)	1000.000	1000.834	0.834	13375.55	0.08

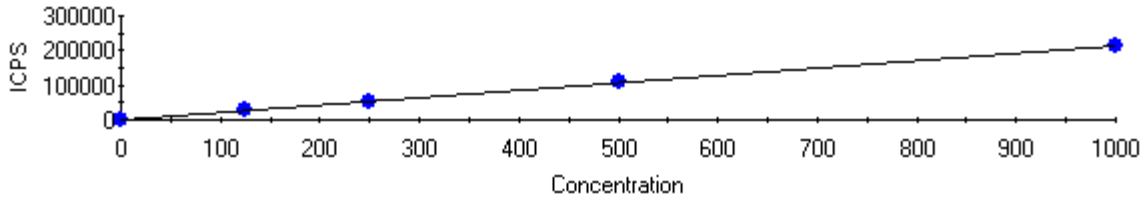
109Ag FQ Block 1



Intercept CPS=5.726091 Intercept Conc=0.006669
Sensitivity=858.556656 Correlation Coeff=0.999983

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	5.73	0.00
S1 (S)	1.000	1.074	0.074	927.52	7.37
S2 (S)	125.000	127.978	2.978	109882.40	2.38
S3 (S)	250.000	254.970	4.970	218912.26	1.99
S4 (S)	500.000	499.388	0.612	428758.60	0.12
S5 (S)	1000.000	998.691	1.309	857438.57	0.13

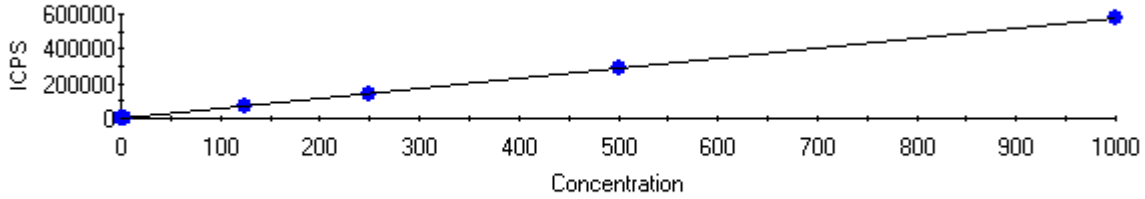
111Cd FQ Block 1



Intercept CPS=83.070842 Intercept Conc=0.388807
Sensitivity=213.655465 Correlation Coeff=0.999975

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	83.07	0.00
S1 (S)	1.000	1.154	0.154	329.55	15.36
S2 (S)	125.000	127.031	2.031	27223.89	1.62
S3 (S)	250.000	254.127	4.127	54378.60	1.65
S4 (S)	500.000	504.375	4.375	107845.62	0.88
S5 (S)	1000.000	996.527	3.473	212996.44	0.35

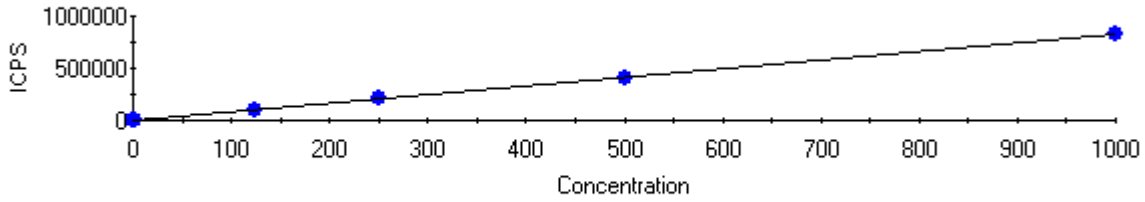
118Sn FQ Block 1



Intercept CPS=80.721975 Intercept Conc=0.139123
Sensitivity=580.218897 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	80.72	0.00
S1 (S)	5.000	5.098	0.098	3038.82	1.96
S2 (S)	125.000	124.360	0.640	72236.51	0.51
S3 (S)	250.000	248.239	1.761	144113.50	0.70
S4 (S)	500.000	499.455	0.545	289873.93	0.11
S5 (S)	1000.000	1000.792	0.792	580759.39	0.08

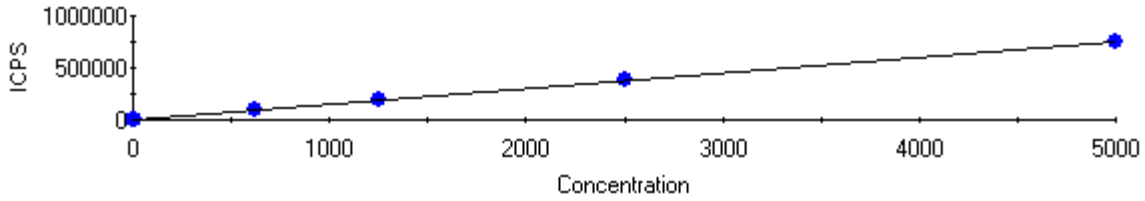
121Sb FQ Block 1



Intercept CPS=18.228425 Intercept Conc=0.022206
Sensitivity=820.882491 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	18.23	0.00
S1 (S)	2.000	1.975	0.025	1639.25	1.26
S2 (S)	125.000	123.121	1.879	101086.32	1.50
S3 (S)	250.000	249.203	0.797	204584.66	0.32
S4 (S)	500.000	501.928	1.928	412042.34	0.39
S5 (S)	1000.000	999.470	0.530	820465.65	0.05

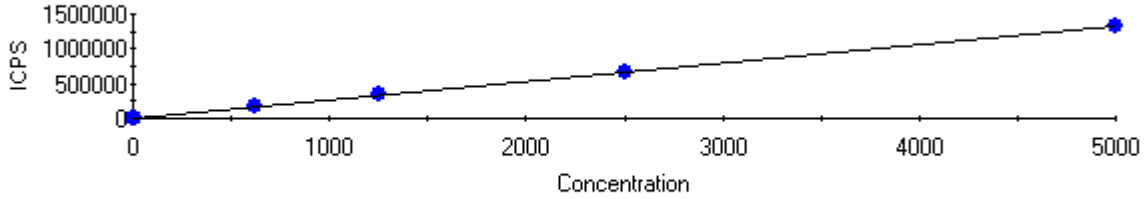
135Ba FQ Block 1



Intercept CPS=18.215047 Intercept Conc=0.121032
Sensitivity=150.497538 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	18.22	0.00
S1 (S)	10.000	10.759	0.759	1637.47	7.59
S2 (S)	625.000	627.802	2.802	94500.82	0.45
S3 (S)	1250.000	1248.687	1.313	187942.58	0.11
S4 (S)	2500.000	2497.460	2.540	375879.80	0.10
S5 (S)	5000.000	5001.246	1.246	752693.49	0.02

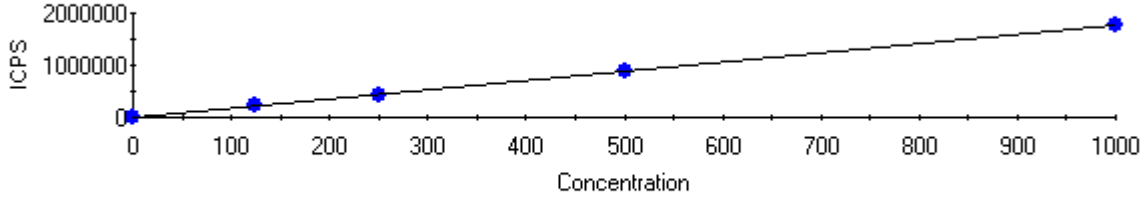
137Ba FQ Block 1



Intercept CPS=34.916242 Intercept Conc=0.130255
Sensitivity=268.060760 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	34.92	0.00
S1 (S)	10.000	10.222	0.222	2775.09	2.22
S2 (S)	625.000	624.409	0.591	167414.36	0.09
S3 (S)	1250.000	1246.496	3.504	334171.59	0.28
S4 (S)	2500.000	2495.979	4.021	669108.82	0.16
S5 (S)	5000.000	5002.960	2.960	1341132.23	0.06

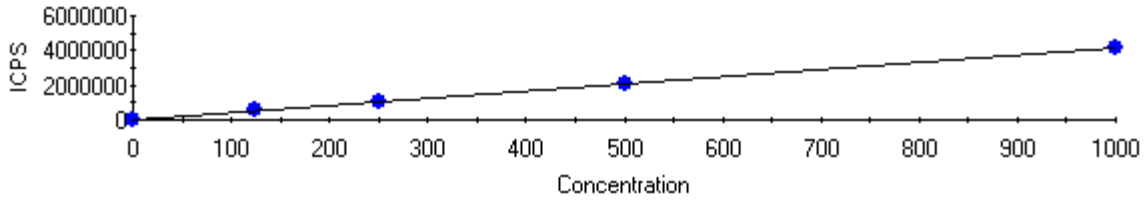
203Tl FQ Block 1



Intercept CPS=45.318070 Intercept Conc=0.025739
Sensitivity=1760.652326 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	45.32	0.00
S1 (S)	1.000	1.086	0.086	1956.72	8.56
S2 (S)	125.000	125.808	0.808	221549.82	0.65
S3 (S)	250.000	250.584	0.584	441237.00	0.23
S4 (S)	500.000	498.398	1.602	877551.56	0.32
S5 (S)	1000.000	1000.554	0.554	1761672.43	0.06

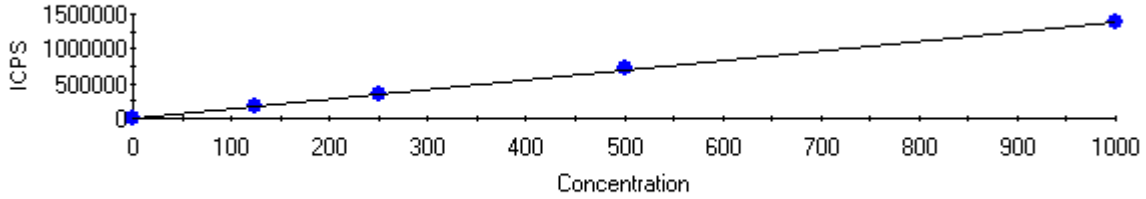
205Tl FQ Block 1



Intercept CPS=102.069689 Intercept Conc=0.024237
Sensitivity=4211.324705 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	102.07	0.00
S1 (S)	1.000	1.069	0.069	4605.06	6.93
S2 (S)	125.000	127.122	2.122	535452.10	1.70
S3 (S)	250.000	252.535	2.535	1063609.23	1.01
S4 (S)	500.000	503.620	3.620	2121007.96	0.72
S5 (S)	1000.000	997.291	2.709	4200018.91	0.27

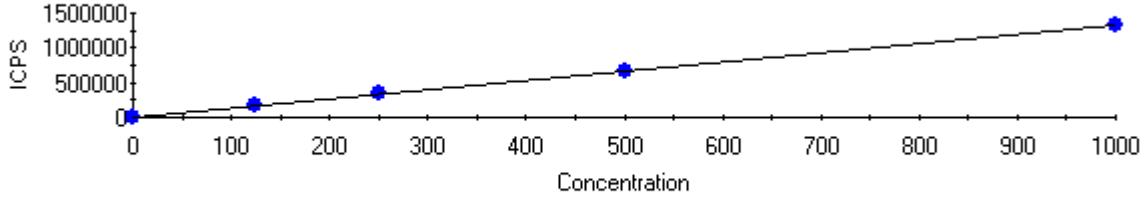
206Pb FQ Block 1



Intercept CPS=88.017240 Intercept Conc=0.063048
Sensitivity=1396.027591 Correlation Coeff=0.999962

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	88.02	0.00
S1 (S)	1.000	1.021	0.021	1513.07	2.08
S2 (S)	125.000	127.295	2.295	177795.55	1.84
S3 (S)	250.000	253.045	3.045	353346.28	1.22
S4 (S)	500.000	506.349	6.349	706965.62	1.27
S5 (S)	1000.000	995.777	4.223	1390220.33	0.42

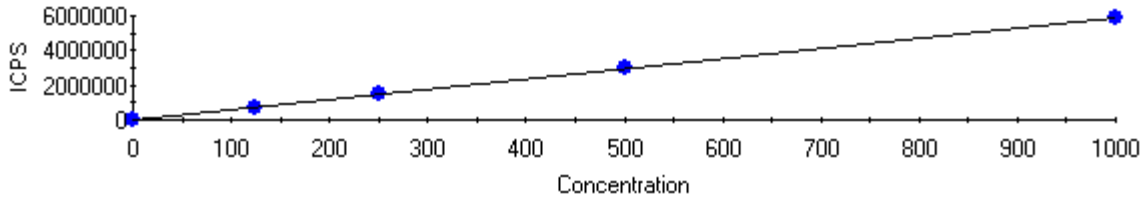
207Pb FQ Block 1



Intercept CPS=81.750063 Intercept Conc=0.061715
Sensitivity=1324.635695 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	81.75	0.00
S1 (S)	1.000	1.073	0.073	1503.21	7.31
S2 (S)	125.000	126.183	1.183	167228.02	0.95
S3 (S)	250.000	251.595	1.595	333353.72	0.64
S4 (S)	500.000	502.328	2.328	665483.18	0.47
S5 (S)	1000.000	998.289	1.711	1322451.45	0.17

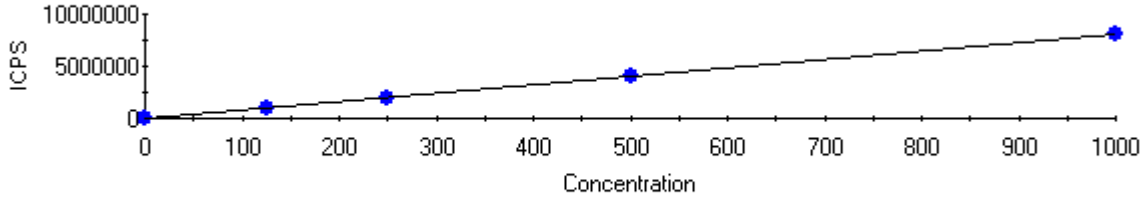
208Pb FQ Block 1



Intercept CPS=346.309202 Intercept Conc=0.058875
Sensitivity=5882.102436 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	346.31	0.00
S1 (S)	1.000	1.049	0.049	6514.55	4.86
S2 (S)	125.000	125.784	0.784	740219.81	0.63
S3 (S)	250.000	250.955	0.955	1476488.27	0.38
S4 (S)	500.000	500.864	0.864	2946478.79	0.17
S5 (S)	1000.000	999.231	0.769	5877927.41	0.08

238U FQ Block 1



Intercept CPS=147.406260 Intercept Conc=0.018323
Sensitivity=8044.779428 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	147.41	0.00
S1 (S)	0.000	0.031	0.031	395.49	0.00
S2 (S)	125.000	125.189	0.189	1007263.91	0.15
S3 (S)	250.000	250.735	0.735	2017252.94	0.29
S4 (S)	500.000	496.756	3.244	3996439.66	0.65
S5 (S)	1000.000	1001.415	1.415	8056308.01	0.14

Dilution Corrected Concentrations

S0 (S0) 05/05/2011 02:13:32 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	100%	-0.029	-0.120	0.000	2.301	1.455	1.529	2.283	0.184
2	14:15:48	100%	0.003	0.243	0.000	-0.051	-0.684	-0.179	-1.008	-0.022
3	14:16:56	100%	0.026	-0.123	0.000	-2.250	-0.772	-1.350	-1.275	-0.161
x		100%	-0.000	-0.000	0.000	-0.000	0.000	0.000	0.000	0.000
σ		0%	0.028	0.210	0.000	2.276	1.261	1.448	1.981	0.174
%RSD		0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	-0.514	-1.405	0.000	0.000	-2.378	3.491	-1.146	101%	-0.021
2	14:15:48	0.586	-0.665	0.000	0.000	3.192	0.869	0.327	99%	0.012
3	14:16:56	-0.072	2.070	0.000	0.000	-0.815	-4.360	0.819	101%	0.010
x		0.000	0.000	0.000	0.000	-0.000	0.000	-0.000	100%	0.000
σ		0.553	1.830	0.000	0.000	2.873	3.997	1.023	1%	0.018
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	0.000

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	0.133	-0.027	-0.185	-0.127	0.015	-0.081	0.284	-0.007	0.037
2	14:15:48	0.044	0.013	-0.087	1.867	0.021	0.249	-0.981	-0.003	-0.034
3	14:16:56	-0.177	0.013	0.272	-1.739	-0.036	-0.168	0.698	0.009	-0.003
x		0.000	0.000	-0.000	0.000	0.000	-0.000	-0.000	-0.000	0.000
σ		0.160	0.023	0.241	1.806	0.031	0.220	0.875	0.008	0.036
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	0.004	0.020	0.033	-0.119	-0.474	0.025	-0.466	-0.474	1.682
2	14:15:48	0.023	-0.019	-0.028	0.102	0.195	-0.018	-0.222	0.195	0.007
3	14:16:56	-0.028	-0.000	-0.005	0.017	0.280	-0.007	0.688	0.279	-1.688
x		0.000	-0.000	-0.000	0.000	0.000	0.000	0.000	-0.000	0.000
σ		0.026	0.020	0.031	0.111	0.413	0.022	0.608	0.412	1.685
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	0.007	-0.002	0.000	0.003	0.007	-0.007	100%	0.147	-0.002
2	14:15:48	-0.052	0.004	-0.015	0.011	-0.003	0.005	101%	1.010	-0.000
3	14:16:56	0.046	-0.002	0.015	-0.014	-0.003	0.001	100%	-1.157	0.002
x		-0.000	-0.000	-0.000	-0.000	-0.000	0.000	100%	0.000	-0.000
σ		0.049	0.003	0.015	0.013	0.006	0.006	1%	1.091	0.002
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	1	0.000	0.000

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	-0.052	0.146	-0.003	-0.009	-0.009	0.001	-0.027	0.033	100%
2	14:15:48	-0.480	1.013	0.001	0.047	0.003	0.001	0.034	-0.026	100%
3	14:16:56	0.532	-1.159	0.002	-0.038	0.007	-0.001	-0.007	-0.008	100%
x		-0.000	-0.000	0.000	-0.000	0.000	0.000	-0.000	0.000	100%
σ		0.508	1.093	0.003	0.043	0.008	0.001	0.031	0.030	0%
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:14:40	100%	0.001	0.002	0.024	0.007	0.010	100%	0.003
2	14:15:48	101%	-0.003	0.001	-0.014	0.010	0.002	100%	-0.003
3	14:16:56	99%	0.002	-0.003	-0.010	-0.017	-0.012	100%	-0.000
x		100%	0.000	0.000	-0.000	0.000	0.000	100%	-0.000
σ		1%	0.002	0.003	0.021	0.015	0.011	0%	0.003
%RSD		1	0.000	0.000	0.000	0.000	0.000	0	0.000

S1 (S) 05/05/2011 02:21:23 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	99%	1.065	6.550	0.000	478.900	523.500	522.800	525.000	24.130
2	14:23:39	99%	0.880	5.304	0.000	467.000	510.600	511.300	509.300	23.710
3	14:24:47	99%	1.019	5.875	0.000	509.000	544.800	548.100	556.400	25.640
x		99%	0.988	5.910	0.000	485.000	526.300	527.400	530.300	24.490
σ		0%	0.096	0.624	0.000	21.670	17.300	18.830	23.990	1.013
%RSD		0	9.731	10.550	0.000	4.467	3.287	3.570	4.524	4.137

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	8.953	3.512	0.000	0.000	516.300	503.000	510.300	98%	4.673
2	14:23:39	7.372	2.144	0.000	0.000	502.200	465.500	499.400	100%	4.555
3	14:24:47	8.425	9.829	0.000	0.000	547.500	528.400	545.000	96%	5.929
x		8.250	5.161	0.000	0.000	522.000	499.000	518.300	98%	5.052
σ		0.805	4.100	0.000	0.000	23.180	31.670	23.810	2%	0.762
%RSD		9.755	79.430	0.000	0.000	4.440	6.347	4.594	2	15.070

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	5.169	2.109	0.085	217.400	1.152	210.900	219.400	1.074	1.039
2	14:23:39	4.651	2.037	0.208	213.500	1.124	204.400	207.500	1.036	0.905
3	14:24:47	5.975	2.300	-0.793	229.900	1.233	224.300	234.500	1.125	1.244
x		5.265	2.149	-0.167	220.300	1.170	213.200	220.500	1.078	1.063
σ		0.667	0.136	0.546	8.551	0.057	10.130	13.510	0.045	0.171
%RSD		12.670	6.331	327.000	3.882	4.836	4.752	6.129	4.163	16.070

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	2.114	2.293	2.770	0.944	4.959	0.006	5.145	4.945	-0.769
2	14:23:39	1.940	2.250	2.403	1.345	6.385	-0.080	4.761	6.368	-7.369
3	14:24:47	2.444	2.414	2.601	1.421	6.010	-0.047	5.708	5.992	-3.147
x		2.166	2.319	2.591	1.237	5.785	-0.040	5.205	5.768	-3.762
σ		0.256	0.085	0.184	0.256	0.740	0.044	0.476	0.738	3.343
%RSD		11.820	3.670	7.086	20.730	12.780	107.800	9.150	12.790	88.870

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	5.277	4.804	4.960	5.143	4.933	0.001	98%	1.028	1.100
2	14:23:39	4.552	4.809	5.054	4.941	4.631	0.001	100%	1.329	1.009
3	14:24:47	5.131	5.384	5.051	5.106	5.113	0.014	96%	2.135	1.108
x		4.987	4.999	5.022	5.063	4.892	0.006	98%	1.497	1.072
σ		0.384	0.334	0.054	0.107	0.243	0.007	2%	0.573	0.055
%RSD		7.690	6.672	1.068	2.115	4.974	130.200	2	38.250	5.127

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	0.042	1.037	1.033	1.108	4.885	1.863	10.410	10.450	96%
2	14:23:39	-0.349	1.340	1.094	1.105	4.941	1.972	10.650	10.000	97%
3	14:24:47	-0.788	2.145	1.094	1.248	5.468	2.089	11.210	10.220	94%
x		-0.365	1.507	1.074	1.154	5.098	1.975	10.760	10.220	96%
σ		0.416	0.573	0.036	0.081	0.322	0.113	0.409	0.222	2%
%RSD		113.800	37.980	3.317	7.053	6.310	5.718	3.804	2.176	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:22:31	97%	1.086	1.080	0.894	1.029	0.998	97%	0.023
2	14:23:39	99%	1.072	1.025	1.025	1.048	1.025	98%	0.032
3	14:24:47	95%	1.099	1.103	1.143	1.142	1.123	95%	0.037
x		97%	1.086	1.069	1.021	1.073	1.049	96%	0.031
σ		2%	0.014	0.040	0.125	0.060	0.066	1%	0.007
%RSD		2	1.268	3.733	12.190	5.631	6.299	1	23.030

S2 (S) 05/05/2011 02:29:14 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	94%	126.600	130.100	0.000	12750.000	12740.000	12830.000	12840.000	2648.000
2	14:31:31	94%	125.100	119.600	0.000	12760.000	12790.000	12720.000	12650.000	2602.000
3	14:32:39	93%	127.100	121.200	0.000	12940.000	12940.000	13000.000	12910.000	2659.000
x		94%	126.300	123.600	0.000	12820.000	12820.000	12850.000	12800.000	2636.000
σ		1%	1.034	5.685	0.000	105.600	107.100	139.900	135.700	30.400
%RSD		1	0.819	4.598	0.000	0.824	0.835	1.089	1.060	1.153

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	122.300	2515.000	0.000	0.000	6372.000	11880.000	12420.000	95%	124.800
2	14:31:31	124.700	2577.000	0.000	0.000	6304.000	11780.000	12570.000	93%	127.300
3	14:32:39	125.000	2590.000	0.000	0.000	6464.000	12190.000	12760.000	91%	130.200
x		124.000	2561.000	0.000	0.000	6380.000	11950.000	12580.000	93%	127.400
σ		1.504	39.750	0.000	0.000	80.620	213.100	174.700	2%	2.704
%RSD		1.213	1.552	0.000	0.000	1.264	1.783	1.388	2	2.122

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	124.100	125.100	0.471	6512.000	252.500	6352.000	6501.000	126.900	129.300
2	14:31:31	127.300	126.500	-2.477	6593.000	255.500	6367.000	6421.000	126.900	130.200
3	14:32:39	125.900	127.100	1.807	6746.000	257.800	6426.000	6526.000	128.000	132.400
x		125.700	126.200	-0.066	6617.000	255.300	6382.000	6483.000	127.300	130.700
σ		1.592	1.018	2.192	118.800	2.661	39.030	54.640	0.649	1.571
%RSD		1.267	0.807	3304.000	1.796	1.042	0.612	0.843	0.510	1.202

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	260.200	257.000	254.100	125.700	124.400	-0.435	125.800	124.200	-1.465
2	14:31:31	259.600	260.800	255.000	126.800	126.200	-0.545	125.400	125.800	-1.978
3	14:32:39	262.900	261.700	260.600	129.000	125.900	-0.483	125.300	125.500	-0.415
x		260.900	259.900	256.500	127.200	125.500	-0.488	125.500	125.200	-1.286
σ		1.734	2.469	3.514	1.656	0.963	0.055	0.277	0.877	0.797
%RSD		0.665	0.950	1.370	1.302	0.768	11.310	0.221	0.701	61.980

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	122.500	121.300	121.600	119.900	121.800	-0.002	93%	122.700	126.500
2	14:31:31	122.600	121.400	122.000	119.200	122.700	-0.002	92%	131.300	127.800
3	14:32:39	123.500	122.800	124.700	124.600	124.700	0.015	92%	129.700	129.600
x		122.800	121.800	122.800	121.200	123.100	0.003	92%	127.900	128.000
σ		0.533	0.847	1.647	2.949	1.503	0.010	1%	4.593	1.553
%RSD		0.434	0.695	1.341	2.432	1.221	289.400	1	3.592	1.214

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	3.687	122.800	127.500	127.100	123.400	121.400	632.300	626.600	95%
2	14:31:31	-1.336	131.500	127.800	126.500	124.900	123.900	623.400	620.500	95%
3	14:32:39	3.306	129.800	128.600	127.500	124.700	124.100	627.800	626.200	95%
x		1.886	128.000	128.000	127.000	124.400	123.100	627.800	624.400	95%
σ		2.796	4.571	0.569	0.529	0.803	1.485	4.444	3.409	0%
%RSD		148.300	3.571	0.444	0.416	0.646	1.206	0.708	0.546	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:30:22	96%	125.600	127.100	126.900	125.000	124.700	94%	124.100
2	14:31:31	96%	124.800	126.300	125.600	126.300	125.700	94%	125.100
3	14:32:39	95%	127.000	128.000	129.500	127.300	127.000	94%	126.500
x		96%	125.800	127.100	127.300	126.200	125.800	94%	125.200
σ		1%	1.075	0.829	1.983	1.128	1.161	0%	1.199
%RSD		1	0.855	0.652	1.558	0.894	0.923	0	0.958

S3 (S) 05/05/2011 02:37:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	92%	250.000	246.300	0.000	25260.000	25270.000	25250.000	25740.000	5086.000
2	14:39:25	89%	254.300	259.100	0.000	25570.000	25690.000	25670.000	25900.000	5040.000
3	14:40:32	88%	253.300	253.700	0.000	25480.000	25470.000	25210.000	25390.000	5023.000
x		90%	252.500	253.000	0.000	25440.000	25480.000	25380.000	25680.000	5050.000
σ		2%	2.259	6.409	0.000	161.900	212.400	255.700	256.700	32.400
%RSD		2	0.894	2.533	0.000	0.636	0.834	1.007	1.000	0.642

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	239.400	5061.000	0.000	0.000	12810.000	26980.000	25110.000	91%	253.600
2	14:39:25	247.900	5106.000	0.000	0.000	12650.000	26770.000	24830.000	90%	249.500
3	14:40:32	249.400	5028.000	0.000	0.000	12530.000	26220.000	24520.000	90%	244.600
x		245.600	5065.000	0.000	0.000	12660.000	26660.000	24820.000	90%	249.200
σ		5.384	38.720	0.000	0.000	138.600	394.200	299.300	1%	4.542
%RSD		2.193	0.764	0.000	0.000	1.095	1.479	1.206	1	1.822

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	252.000	253.500	-3.120	13190.000	504.700	12710.000	12760.000	254.200	252.300
2	14:39:25	247.700	252.200	-0.558	13140.000	503.900	12570.000	12750.000	253.500	254.000
3	14:40:32	248.700	249.600	-3.071	12990.000	500.700	12580.000	12710.000	250.500	252.200
x		249.500	251.800	-2.250	13110.000	503.100	12620.000	12740.000	252.700	252.800
σ		2.242	1.949	1.465	108.000	2.117	78.460	24.390	1.968	0.999
%RSD		0.899	0.774	65.140	0.824	0.421	0.622	0.191	0.779	0.395

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	511.600	515.700	512.900	252.300	253.600	-0.415	250.000	253.100	0.561
2	14:39:25	510.400	514.300	506.200	249.600	255.000	-0.890	254.000	254.300	-4.239
3	14:40:32	507.200	507.900	506.900	250.000	248.800	-0.651	250.400	248.300	0.401
x		509.800	512.600	508.700	250.600	252.500	-0.652	251.500	251.900	-1.092
σ		2.283	4.154	3.668	1.440	3.267	0.238	2.202	3.180	2.726
%RSD		0.448	0.810	0.721	0.575	1.294	36.450	0.875	1.263	249.600

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	249.100	249.200	250.300	251.800	246.800	-0.002	90%	252.800	254.600
2	14:39:25	248.600	244.300	247.800	248.900	245.900	0.020	90%	249.100	253.300
3	14:40:32	244.400	244.200	247.500	251.800	246.300	0.011	89%	258.100	252.700
x		247.400	245.900	248.500	250.800	246.300	0.010	89%	253.300	253.500
σ		2.591	2.837	1.525	1.704	0.494	0.011	1%	4.497	0.960
%RSD		1.048	1.154	0.614	0.679	0.201	115.100	1	1.775	0.379

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	6.900	253.000	254.600	253.800	250.000	249.200	1260.000	1252.000	93%
2	14:39:25	8.551	249.300	254.600	254.700	248.800	250.400	1247.000	1242.000	93%
3	14:40:32	2.806	258.200	255.700	253.900	245.900	248.000	1239.000	1245.000	93%
x		6.086	253.500	255.000	254.100	248.200	249.200	1249.000	1246.000	93%
σ		2.958	4.455	0.645	0.484	2.121	1.176	10.320	5.025	0%
%RSD		48.600	1.757	0.253	0.191	0.854	0.472	0.827	0.403	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:38:17	94%	251.400	253.700	253.700	251.900	251.500	93%	249.500
2	14:39:25	94%	249.900	251.900	251.800	251.600	250.300	93%	252.300
3	14:40:32	94%	250.400	252.000	253.700	251.200	251.100	92%	250.400
x		94%	250.600	252.500	253.000	251.600	251.000	93%	250.700
σ		0%	0.778	1.000	1.053	0.329	0.641	0%	1.387
%RSD		0	0.310	0.396	0.416	0.131	0.256	0	0.553

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	89%	487.400	491.800	0.000	49660.000	49910.000	49650.000	50000.000	9963.000
2	14:47:17	89%	493.300	498.000	0.000	50350.000	50610.000	50400.000	50140.000	10050.000
3	14:48:25	88%	505.700	519.600	0.000	51010.000	50820.000	50410.000	50330.000	10140.000
x		89%	495.400	503.100	0.000	50340.000	50450.000	50150.000	50160.000	10050.000
σ		0%	9.333	14.600	0.000	670.900	474.800	435.000	168.100	88.650
%RSD		0	1.884	2.901	0.000	1.333	0.941	0.867	0.335	0.882

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	505.700	9851.000	0.000	0.000	25080.000	51420.000	49390.000	88%	493.500
2	14:47:17	534.400	9901.000	0.000	0.000	25050.000	50730.000	49180.000	89%	495.700
3	14:48:25	525.300	9962.000	0.000	0.000	25220.000	50970.000	49210.000	90%	497.000
x		521.800	9904.000	0.000	0.000	25110.000	51040.000	49260.000	89%	495.400
σ		14.660	55.580	0.000	0.000	90.010	349.600	113.400	1%	1.751
%RSD		2.809	0.561	0.000	0.000	0.358	0.685	0.230	1	0.354

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	496.500	499.300	-6.190	26180.000	1002.000	24950.000	25010.000	499.600	499.700
2	14:47:17	491.600	496.100	2.512	26010.000	997.100	24760.000	25300.000	503.300	501.300
3	14:48:25	499.000	497.700	-4.722	26090.000	1006.000	24930.000	24990.000	497.300	492.200
x		495.700	497.700	-2.800	26090.000	1002.000	24880.000	25100.000	500.100	497.700
σ		3.729	1.607	4.659	88.890	4.554	103.200	175.200	3.016	4.876
%RSD		0.752	0.323	166.400	0.341	0.455	0.415	0.698	0.603	0.980

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	997.100	1008.000	1009.000	497.800	503.500	-1.325	501.200	502.400	3.733
2	14:47:17	1014.000	1001.000	1013.000	502.200	496.000	-1.041	497.700	495.500	1.787
3	14:48:25	1006.000	1001.000	1003.000	498.000	505.200	-1.299	501.700	504.600	0.047
x		1006.000	1003.000	1008.000	499.300	501.600	-1.221	500.200	500.800	1.856
σ		8.623	4.233	5.252	2.515	4.937	0.157	2.173	4.758	1.844
%RSD		0.858	0.422	0.521	0.504	0.984	12.830	0.434	0.950	99.380

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	499.100	494.900	494.500	496.300	494.300	0.016	87%	493.900	497.000
2	14:47:17	501.000	505.100	502.500	494.600	496.500	-0.002	87%	488.800	504.100
3	14:48:25	498.900	495.700	497.000	499.000	491.800	0.016	88%	504.400	495.500
x		499.700	498.600	498.000	496.600	494.200	0.010	87%	495.700	498.900
σ		1.191	5.683	4.058	2.186	2.316	0.010	1%	7.937	4.575
%RSD		0.238	1.140	0.815	0.440	0.469	104.300	1	1.601	0.917

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	16.960	494.000	496.000	498.300	498.800	501.600	2474.000	2486.000	92%
2	14:47:17	16.700	488.900	505.100	511.900	503.700	504.300	2524.000	2499.000	92%
3	14:48:25	11.210	504.600	497.100	503.000	495.900	499.900	2494.000	2502.000	92%
x		14.960	495.800	499.400	504.400	499.500	501.900	2497.000	2496.000	92%
σ		3.247	8.025	4.945	6.918	3.924	2.218	24.970	8.316	0%
%RSD		21.710	1.619	0.990	1.372	0.786	0.442	1.000	0.333	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:09	93%	494.000	504.800	504.000	498.200	497.700	91%	496.300
2	14:47:17	94%	499.600	502.800	505.700	500.100	499.800	91%	495.900
3	14:48:25	93%	501.600	503.200	509.300	508.700	505.000	90%	498.000
x		94%	498.400	503.600	506.300	502.300	500.900	91%	496.800
σ		0%	3.953	1.063	2.714	5.585	3.758	0%	1.080
%RSD		0	0.793	0.211	0.536	1.112	0.750	0	0.217

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	91%	979.700	949.500	0.000	98890.000	98440.000	98920.000	99180.000	19710.000
2	14:55:10	88%	998.400	1019.000	0.000	98700.000	99100.000	98440.000	98670.000	19950.000
3	14:56:18	87%	1026.000	1025.000	0.000	101500.000	101300.000	102000.000	101300.000	20170.000
x		88%	1001.000	997.900	0.000	99680.000	99620.000	99790.000	99710.000	19940.000
σ		2%	23.440	41.950	0.000	1538.000	1506.000	1933.000	1392.000	227.700
%RSD		2	2.340	4.204	0.000	1.543	1.512	1.937	1.396	1.142

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	986.800	19980.000	0.000	0.000	50030.000	100700.000	100400.000	87%	1005.000
2	14:55:10	976.200	19990.000	0.000	0.000	49540.000	97150.000	98980.000	88%	985.900
3	14:56:18	1008.000	20110.000	0.000	0.000	50090.000	99590.000	101800.000	87%	1015.000
x		990.300	20020.000	0.000	0.000	49890.000	99130.000	100400.000	87%	1002.000
σ		16.140	74.390	0.000	0.000	303.400	1801.000	1429.000	1%	15.000
%RSD		1.630	0.372	0.000	0.000	0.608	1.817	1.424	1	1.496

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	1009.000	1007.000	-6.267	49330.000	2020.000	50470.000	50350.000	1006.000	1007.000
2	14:55:10	984.300	982.800	-6.389	48710.000	1946.000	49400.000	49060.000	986.400	982.300
3	14:56:18	1014.000	1012.000	-11.350	49730.000	2027.000	50170.000	50170.000	1004.000	1010.000
x		1002.000	1001.000	-8.003	49260.000	1998.000	50010.000	49860.000	999.000	999.700
σ		15.720	15.620	2.901	512.200	44.640	552.600	699.600	10.950	15.190
%RSD		1.569	1.561	36.250	1.040	2.235	1.105	1.403	1.096	1.519

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	2007.000	2004.000	1999.000	996.400	999.300	-2.194	998.600	999.800	7.179
2	14:55:10	1959.000	1959.000	1957.000	989.900	984.900	-3.494	982.900	985.500	5.996
3	14:56:18	2013.000	2018.000	2023.000	1013.000	1011.000	-2.434	1017.000	1012.000	-0.045
x		1993.000	1994.000	1993.000	999.900	998.500	-2.708	999.500	999.100	4.377
σ		29.520	30.830	33.590	12.190	13.290	0.692	17.000	13.260	3.875
%RSD		1.481	1.546	1.686	1.219	1.330	25.550	1.701	1.327	88.530

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	1002.000	1013.000	1011.000	1005.000	1004.000	0.022	83%	1017.000	1006.000
2	14:55:10	987.400	977.100	982.700	992.300	989.800	0.030	85%	982.600	986.500
3	14:56:18	1014.000	1017.000	1011.000	1008.000	1018.000	0.007	84%	1003.000	1006.000
x		1001.000	1002.000	1002.000	1002.000	1004.000	0.020	84%	1001.000	999.300
σ		13.140	21.770	16.400	8.471	14.150	0.012	1%	17.360	11.110
%RSD		1.312	2.172	1.637	0.846	1.409	58.270	1	1.734	1.111

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	14.620	1017.000	1001.000	998.500	1001.000	1003.000	5010.000	5003.000	89%
2	14:55:10	5.838	982.800	985.000	981.600	988.900	987.000	4929.000	4925.000	90%
3	14:56:18	25.930	1003.000	1010.000	1009.000	1012.000	1008.000	5065.000	5081.000	89%
x		15.460	1001.000	998.700	996.500	1001.000	999.500	5001.000	5003.000	89%
σ		10.070	17.100	12.830	14.050	11.600	11.120	68.250	78.010	0%
%RSD		65.140	1.709	1.284	1.410	1.159	1.112	1.365	1.559	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:54:02	90%	997.000	998.000	996.800	1001.000	999.400	85%	1004.000
2	14:55:10	90%	992.200	989.400	988.700	983.000	987.800	86%	991.600
3	14:56:18	90%	1012.000	1004.000	1002.000	1011.000	1011.000	86%	1008.000
x		90%	1001.000	997.300	995.800	998.300	999.200	86%	1001.000
σ		0%	10.560	7.508	6.655	14.190	11.380	0%	8.701
%RSD		0	1.055	0.753	0.668	1.421	1.139	0	0.869

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	90%	95.630	496.100	0.000	1861.000	1183.000	1188.000	1172.000	518.400
2	15:03:03	89%	95.390	487.600	0.000	1883.000	1182.000	1166.000	1179.000	516.700
3	15:04:11	88%	96.330	478.200	0.000	1884.000	1205.000	1219.000	1220.000	525.500
x		89%	95.780	487.300	0.000	1876.000	1190.000	1191.000	1190.000	520.200
σ		1%	0.487	8.946	0.000	12.870	13.110	26.510	25.640	4.615
%RSD		1	0.508	1.836	0.000	0.686	1.101	2.226	2.154	0.887

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	445.300	10.390	0.000	0.000	1938.000	1871.000	1961.000	91%	444.800
2	15:03:03	447.800	6.936	0.000	0.000	1953.000	1812.000	1951.000	89%	441.100
3	15:04:11	454.300	10.910	0.000	0.000	1957.000	1819.000	1984.000	89%	456.500
x		449.100	9.412	0.000	0.000	1949.000	1834.000	1966.000	89%	447.500
σ		4.666	2.159	0.000	0.000	10.180	31.940	16.940	1%	8.065
%RSD		1.039	22.940	0.000	0.000	0.522	1.742	0.862	1	1.802

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	94.880	96.490	-1.661	1055.000	97.310	1007.000	997.400	98.680	99.340
2	15:03:03	96.540	96.900	-1.718	1060.000	97.870	1005.000	1032.000	98.740	101.300
3	15:04:11	94.310	95.470	0.129	1040.000	97.660	1001.000	1022.000	99.080	100.100
x		95.240	96.290	-1.083	1052.000	97.610	1004.000	1017.000	98.830	100.300
σ		1.158	0.738	1.050	10.250	0.282	2.812	17.960	0.217	0.983
%RSD		1.215	0.766	96.950	0.975	0.289	0.280	1.765	0.220	0.980

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	101.800	101.300	199.500	193.500	197.400	-0.751	191.700	197.200	-2.269
2	15:03:03	100.800	101.100	200.500	195.900	195.900	-0.937	194.200	195.500	-2.921
3	15:04:11	103.000	100.700	199.600	192.400	192.200	-0.230	190.800	191.600	-3.728
x		101.900	101.000	199.900	193.900	195.200	-0.639	192.300	194.800	-2.973
σ		1.126	0.350	0.508	1.795	2.713	0.367	1.777	2.882	0.731
%RSD		1.105	0.346	0.254	0.925	1.390	57.380	0.924	1.480	24.590

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	456.500	456.700	454.600	457.700	453.000	0.007	89%	97.000	100.400
2	15:03:03	454.900	459.200	460.000	457.900	455.900	0.002	88%	103.200	99.740
3	15:04:11	452.400	456.700	455.600	454.400	452.900	0.002	89%	98.010	98.600
x		454.600	457.500	456.700	456.700	453.900	0.004	89%	99.400	99.580
σ		2.061	1.415	2.875	1.973	1.684	0.003	0%	3.318	0.919
%RSD		0.453	0.309	0.629	0.432	0.371	67.150	0	3.338	0.923

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	6.208	97.100	99.900	98.330	465.000	189.800	100.000	100.200	91%
2	15:03:03	2.519	103.300	99.440	98.780	466.400	191.000	100.500	99.680	91%
3	15:04:11	7.433	98.110	99.330	98.140	467.000	189.900	99.170	100.300	91%
x		5.387	99.500	99.550	98.420	466.100	190.200	99.910	100.000	91%
σ		2.558	3.326	0.302	0.325	1.033	0.634	0.675	0.316	0%
%RSD		47.490	3.343	0.304	0.331	0.222	0.333	0.676	0.316	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:55	92%	198.400	202.300	207.100	193.600	198.000	91%	0.373
2	15:03:03	91%	197.100	198.200	203.800	189.900	195.800	91%	0.359
3	15:04:11	91%	198.400	199.000	204.700	192.200	196.900	91%	0.458
x		91%	198.000	199.800	205.200	191.900	196.900	91%	0.397
σ		0%	0.751	2.183	1.679	1.879	1.085	0%	0.054
%RSD		0	0.379	1.092	0.818	0.979	0.551	0	13.600

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	89%	0.314	11.710	0.000	34.000	8.258	8.790	9.118	2.402
2	15:10:57	90%	0.311	12.560	0.000	30.130	9.066	8.437	9.530	2.728
3	15:12:05	92%	0.165	9.323	0.000	24.330	7.487	10.160	9.889	2.467
x		90%	0.263	11.200	0.000	29.490	8.271	9.129	9.512	2.532
σ		1%	0.086	1.678	0.000	4.867	0.790	0.910	0.386	0.172
%RSD		2	32.480	14.980	0.000	16.510	9.547	9.972	4.059	6.809

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	3.450	7.855	0.000	0.000	27.650	1.679	4.250	90%	0.816
2	15:10:57	1.140	7.191	0.000	0.000	24.120	1.659	9.699	90%	0.850
3	15:12:05	2.317	-1.902	0.000	0.000	19.970	-2.330	8.479	92%	0.560
x		2.302	4.381	0.000	0.000	23.910	0.336	7.476	91%	0.742
σ		1.155	5.452	0.000	0.000	3.845	2.309	2.859	1%	0.158
%RSD		50.190	124.400	0.000	0.000	16.080	687.100	38.250	1	21.340

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	0.093	0.181	-0.360	9.427	0.287	2.139	9.958	0.210	0.235
2	15:10:57	0.179	0.203	-0.376	7.665	0.350	3.136	9.743	0.234	0.245
3	15:12:05	0.597	0.245	-1.281	11.370	0.324	2.094	7.205	0.227	0.282
x		0.289	0.210	-0.672	9.486	0.320	2.456	8.968	0.224	0.254
σ		0.270	0.032	0.527	1.852	0.032	0.589	1.531	0.012	0.025
%RSD		93.270	15.440	78.400	19.520	9.920	23.980	17.070	5.398	9.681

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	0.390	0.388	0.598	0.441	1.008	-0.035	0.177	1.005	-5.763
2	15:10:57	0.461	0.507	0.422	0.416	0.591	-0.017	-0.016	0.589	-3.154
3	15:12:05	0.343	0.481	0.212	0.299	0.633	-0.027	0.531	0.632	-4.080
x		0.398	0.459	0.411	0.385	0.744	-0.026	0.231	0.742	-4.332
σ		0.060	0.063	0.193	0.076	0.230	0.009	0.278	0.229	1.322
%RSD		14.970	13.750	47.090	19.710	30.860	34.300	120.200	30.840	30.520

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	1.074	0.930	1.032	0.967	0.980	0.002	90%	0.559	0.239
2	15:10:57	0.817	0.914	0.825	0.930	0.846	-0.002	90%	-0.095	0.251
3	15:12:05	0.878	0.817	0.802	0.744	0.812	-0.002	91%	0.657	0.183
x		0.923	0.887	0.887	0.880	0.879	-0.001	91%	0.374	0.224
σ		0.135	0.061	0.127	0.119	0.089	0.003	1%	0.409	0.036
%RSD		14.570	6.919	14.280	13.570	10.080	335.900	1	109.500	16.080

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	-0.115	0.559	0.243	0.274	0.908	0.739	0.806	0.949	91%
2	15:10:57	0.081	-0.101	0.209	0.235	0.879	0.762	0.925	0.871	92%
3	15:12:05	-0.355	0.653	0.258	0.273	0.787	0.540	0.923	0.770	93%
x		-0.130	0.370	0.236	0.261	0.858	0.680	0.885	0.863	92%
σ		0.218	0.411	0.025	0.022	0.063	0.122	0.068	0.090	1%
%RSD		168.500	110.900	10.580	8.503	7.395	17.890	7.671	10.400	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:49	91%	0.377	0.420	0.328	0.319	0.309	92%	0.136
2	15:10:57	93%	0.331	0.361	0.319	0.306	0.313	93%	0.144
3	15:12:05	94%	0.293	0.349	0.306	0.313	0.307	93%	0.146
x		93%	0.334	0.377	0.318	0.313	0.310	93%	0.142
σ		1%	0.042	0.038	0.011	0.006	0.003	1%	0.005
%RSD		1	12.600	10.090	3.346	2.009	0.981	1	3.580

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	78%	0.287	6.922	0.000	99230.000	96520.000	96020.000	96580.000	97450.000
2	15:18:52	77%	0.311	7.488	0.000	100100.000	96330.000	95840.000	97020.000	97650.000
3	15:20:00	78%	0.356	5.955	0.000	100700.000	97600.000	97390.000	97600.000	98130.000
x		78%	0.318	6.788	0.000	100000.000	96820.000	96420.000	97070.000	97750.000
σ		1%	0.035	0.775	0.000	724.000	684.900	848.400	510.400	347.600
%RSD		1	11.100	11.420	0.000	0.724	0.707	0.880	0.526	0.356

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	60.300	96460.000	0.000	0.000	98140.000	97600.000	97600.000	81%	2058.000
2	15:18:52	46.010	95590.000	0.000	0.000	96530.000	96860.000	95960.000	83%	2030.000
3	15:20:00	64.390	97340.000	0.000	0.000	98440.000	100500.000	98620.000	82%	2065.000
x		56.900	96460.000	0.000	0.000	97700.000	98320.000	97390.000	82%	2051.000
σ		9.647	877.200	0.000	0.000	1026.000	1912.000	1340.000	1%	18.790
%RSD		16.950	0.909	0.000	0.000	1.051	1.944	1.376	1	0.916

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	0.396	19.340	27.140	95990.000	7.349	96940.000	95370.000	1.039	5.743
2	15:18:52	0.615	18.840	28.950	94090.000	8.530	95070.000	94170.000	0.994	5.965
3	15:20:00	-1.081	19.830	32.280	96860.000	8.502	97200.000	95760.000	1.068	6.084
x		-0.023	19.340	29.450	95640.000	8.127	96400.000	95100.000	1.034	5.931
σ		0.923	0.497	2.608	1418.000	0.674	1161.000	827.600	0.037	0.173
%RSD		3963.000	2.567	8.856	1.482	8.288	1.204	0.870	3.598	2.921

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	7.832	8.556	12.410	0.201	-0.791	0.168	0.688	-0.789	9.099
2	15:18:52	7.935	8.688	12.410	-0.006	-1.537	0.223	0.338	-1.535	13.620
3	15:20:00	8.027	8.490	12.080	0.026	-1.039	0.229	0.870	-1.039	6.073
x		7.931	8.578	12.300	0.074	-1.122	0.207	0.632	-1.121	9.599
σ		0.098	0.101	0.188	0.111	0.380	0.034	0.270	0.380	3.800
%RSD		1.234	1.173	1.531	151.100	33.860	16.230	42.760	33.900	39.590

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	1974.000	1970.000	1987.000	1991.000	1977.000	0.008	80%	-2.501	0.144
2	15:18:52	1961.000	1960.000	1978.000	1954.000	1965.000	0.018	81%	-0.027	0.153
3	15:20:00	2003.000	1999.000	2016.000	2026.000	2031.000	0.003	80%	0.048	0.179
x		1979.000	1977.000	1994.000	1990.000	1991.000	0.010	81%	-0.827	0.159
σ		21.160	20.270	20.260	35.710	35.190	0.007	1%	1.450	0.018
%RSD		1.069	1.025	1.016	1.794	1.768	75.760	1	175.400	11.490

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	19.920	-2.518	0.121	0.290	0.414	1.211	1.390	1.479	88%
2	15:18:52	17.020	-0.047	0.131	0.617	0.324	1.356	1.435	1.435	89%
3	15:20:00	16.750	0.026	0.123	0.892	0.364	1.325	1.533	1.247	88%
x		17.900	-0.847	0.125	0.600	0.367	1.297	1.453	1.387	88%
σ		1.759	1.448	0.005	0.301	0.045	0.076	0.073	0.123	0%
%RSD		9.828	171.100	4.073	50.270	12.270	5.856	5.017	8.857	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:43	89%	0.044	0.057	5.006	4.150	4.462	85%	0.011
2	15:18:52	90%	0.067	0.043	4.741	4.160	4.341	86%	0.018
3	15:20:00	90%	0.044	0.048	4.666	4.147	4.303	86%	0.013
x		90%	0.052	0.049	4.804	4.152	4.369	86%	0.014
σ		1%	0.013	0.007	0.179	0.007	0.083	1%	0.004
%RSD		1	25.650	15.080	3.720	0.166	1.901	1	26.370

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	78%	20.710	5.628	0.000	102000.000	98910.000	98490.000	98830.000	99450.000
2	15:26:46	81%	20.670	3.476	0.000	99200.000	96850.000	97520.000	97080.000	98330.000
3	15:27:54	81%	21.030	2.404	0.000	99200.000	96690.000	97460.000	98120.000	97730.000
x		80%	20.810	3.836	0.000	100100.000	97480.000	97820.000	98010.000	98510.000
σ		1%	0.198	1.642	0.000	1614.000	1241.000	577.700	880.700	871.200
%RSD		2	0.952	42.800	0.000	1.612	1.273	0.591	0.899	0.884

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	67.020	98840.000	0.000	0.000	97210.000	100100.000	97800.000	83%	2061.000
2	15:26:46	72.760	97500.000	0.000	0.000	96950.000	99540.000	99010.000	83%	2072.000
3	15:27:54	60.360	97170.000	0.000	0.000	98180.000	99300.000	97320.000	84%	2065.000
x		66.710	97840.000	0.000	0.000	97450.000	99630.000	98050.000	83%	2066.000
σ		6.202	881.200	0.000	0.000	650.100	390.100	866.900	0%	5.319
%RSD		9.297	0.901	0.000	0.000	0.667	0.392	0.884	0	0.257

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	19.680	39.800	29.910	95990.000	28.660	97610.000	96190.000	21.170	25.500
2	15:26:46	19.230	39.730	30.780	96030.000	29.710	97280.000	95800.000	20.720	26.910
3	15:27:54	20.110	39.500	30.620	95530.000	29.270	96050.000	95660.000	21.180	26.700
x		19.670	39.680	30.440	95850.000	29.220	96980.000	95880.000	21.020	26.370
σ		0.443	0.155	0.464	279.300	0.529	822.600	273.800	0.264	0.762
%RSD		2.252	0.390	1.524	0.291	1.813	0.848	0.286	1.255	2.890

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	27.800	28.850	31.680	19.780	16.240	0.192	20.340	16.230	16.430
2	15:26:46	28.190	29.030	33.620	21.030	20.100	0.114	20.060	20.090	10.370
3	15:27:54	27.980	29.240	33.260	20.120	22.380	0.138	21.150	22.340	8.798
x		27.990	29.040	32.850	20.310	19.570	0.148	20.520	19.550	11.870
σ		0.192	0.191	1.031	0.647	3.104	0.040	0.567	3.089	4.029
%RSD		0.687	0.657	3.137	3.185	15.860	27.070	2.765	15.800	33.960

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	1991.000	1992.000	2004.000	1997.000	1989.000	0.008	81%	17.870	19.430
2	15:26:46	1994.000	2018.000	2028.000	2025.000	2022.000	0.008	81%	20.470	20.480
3	15:27:54	1961.000	1969.000	1974.000	1972.000	1980.000	-0.002	83%	20.970	19.850
x		1982.000	1993.000	2002.000	1998.000	1997.000	0.005	82%	19.770	19.920
σ		18.480	24.180	27.280	26.180	22.210	0.006	1%	1.664	0.526
%RSD		0.932	1.214	1.363	1.310	1.112	119.300	1	8.418	2.639

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	19.970	17.850	19.750	21.190	0.262	21.550	21.980	21.750	87%
2	15:26:46	18.480	20.440	19.520	20.810	0.324	21.290	21.260	22.070	87%
3	15:27:54	18.860	20.950	19.300	20.350	0.210	21.490	21.140	21.480	88%
x		19.100	19.750	19.520	20.780	0.265	21.440	21.460	21.770	87%
σ		0.773	1.662	0.222	0.420	0.057	0.138	0.454	0.294	1%
%RSD		4.045	8.418	1.138	2.022	21.470	0.643	2.114	1.350	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:38	88%	20.350	20.830	26.230	23.720	24.530	84%	0.014
2	15:26:46	89%	20.640	20.610	26.550	23.550	24.530	85%	0.012
3	15:27:54	89%	20.350	20.820	26.350	23.420	24.650	85%	0.013
x		89%	20.450	20.750	26.380	23.560	24.570	85%	0.013
σ		1%	0.170	0.128	0.160	0.154	0.072	0%	0.001
%RSD		1	0.829	0.615	0.605	0.653	0.293	0	9.189

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	86%	0.087	3.155	0.000	10330.000	10150.000	9843.000	10110.000	10220.000
2	15:34:41	86%	0.069	2.754	0.000	10390.000	10170.000	9901.000	10070.000	10270.000
3	15:35:50	85%	0.052	4.065	0.000	10480.000	10280.000	10020.000	10150.000	10300.000
x		86%	0.069	3.325	0.000	10400.000	10200.000	9921.000	10110.000	10260.000
σ		1%	0.018	0.672	0.000	72.120	66.810	89.740	40.160	40.230
%RSD		1	25.400	20.210	0.000	0.693	0.655	0.905	0.397	0.392

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	16.680	10080.000	0.000	0.000	10230.000	11410.000	9973.000	89%	210.800
2	15:34:41	14.140	10010.000	0.000	0.000	10190.000	11720.000	10020.000	89%	208.300
3	15:35:50	16.440	10150.000	0.000	0.000	10230.000	11620.000	10150.000	88%	207.500
x		15.750	10080.000	0.000	0.000	10220.000	11580.000	10050.000	89%	208.900
σ		1.402	68.800	0.000	0.000	21.430	154.800	89.830	0%	1.745
%RSD		8.899	0.682	0.000	0.000	0.210	1.336	0.894	1	0.836

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	0.046	2.095	6.902	10160.000	0.603	10080.000	10020.000	0.151	0.624
2	15:34:41	0.459	1.994	5.963	10280.000	0.736	10100.000	10120.000	0.139	0.744
3	15:35:50	-0.122	2.108	6.552	10350.000	0.671	10170.000	10230.000	0.126	0.666
x		0.128	2.066	6.472	10260.000	0.670	10120.000	10120.000	0.139	0.678
σ		0.299	0.062	0.475	96.490	0.067	45.550	103.500	0.012	0.061
%RSD		234.200	3.021	7.332	0.940	9.968	0.450	1.022	8.835	8.982

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	0.982	1.237	1.616	0.372	0.782	-0.024	0.173	0.780	-4.099
2	15:34:41	0.853	1.056	1.902	0.125	-0.536	0.024	-0.234	-0.534	2.643
3	15:35:50	0.893	0.956	1.789	0.032	-0.163	0.040	0.156	-0.162	1.234
x		0.910	1.083	1.769	0.176	0.027	0.013	0.032	0.028	-0.074
σ		0.066	0.142	0.144	0.176	0.680	0.034	0.230	0.677	3.556
%RSD		7.268	13.130	8.165	99.630	2483.000	254.500	726.400	2442.000	4800.000

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	193.100	197.700	196.300	200.300	197.400	0.007	89%	0.970	0.091
2	15:34:41	193.000	196.200	197.300	197.500	197.800	0.015	89%	-1.654	0.050
3	15:35:50	197.800	198.100	199.500	198.900	200.100	0.016	89%	0.302	0.019
x		194.700	197.300	197.700	198.900	198.400	0.013	89%	-0.127	0.053
σ		2.748	1.008	1.646	1.417	1.442	0.005	0%	1.364	0.036
%RSD		1.412	0.511	0.833	0.712	0.727	40.330	0	1072.000	67.720

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	0.796	0.962	0.073	0.289	0.188	0.232	0.245	0.261	92%
2	15:34:41	2.859	-1.662	0.036	-0.012	0.089	0.196	0.166	0.204	92%
3	15:35:50	1.451	0.296	0.038	0.149	0.072	0.203	0.167	0.135	91%
x		1.702	-0.135	0.049	0.142	0.116	0.210	0.193	0.200	92%
σ		1.054	1.364	0.021	0.150	0.063	0.019	0.046	0.063	1%
%RSD		61.950	1011.000	42.110	105.900	54.100	9.092	23.630	31.650	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:33	92%	0.120	0.134	0.545	0.512	0.549	91%	0.014
2	15:34:41	92%	0.085	0.064	0.503	0.470	0.488	92%	0.009
3	15:35:50	92%	0.055	0.061	0.516	0.487	0.477	91%	0.006
x		92%	0.087	0.086	0.522	0.490	0.505	91%	0.010
σ		0%	0.032	0.041	0.022	0.021	0.039	1%	0.004
%RSD		0	37.260	47.550	4.152	4.370	7.715	1	40.950

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	85%	2.081	3.517	0.000	10360.000	10030.000	9717.000	10030.000	10080.000
2	15:42:38	86%	1.994	3.040	0.000	10230.000	9953.000	9600.000	9816.000	9955.000
3	15:43:46	86%	2.123	1.630	0.000	10190.000	10010.000	9801.000	9945.000	10050.000
x		85%	2.066	2.729	0.000	10260.000	9997.000	9706.000	9931.000	10030.000
σ		0%	0.066	0.981	0.000	91.090	39.830	101.000	108.300	66.720
%RSD		0	3.181	35.960	0.000	0.888	0.398	1.041	1.090	0.665

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	18.000	9884.000	0.000	0.000	10080.000	11920.000	9798.000	87%	210.500
2	15:42:38	15.410	9813.000	0.000	0.000	10020.000	11350.000	9868.000	89%	208.900
3	15:43:46	32.360	9681.000	0.000	0.000	10110.000	11850.000	9907.000	89%	202.900
x		21.920	9792.000	0.000	0.000	10070.000	11710.000	9858.000	88%	207.400
σ		9.127	103.100	0.000	0.000	44.070	314.300	55.420	1%	4.009
%RSD		41.630	1.053	0.000	0.000	0.438	2.684	0.562	1	1.933

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	2.397	4.060	4.180	10160.000	2.643	9966.000	10090.000	2.130	2.458
2	15:42:38	1.741	3.925	5.629	10100.000	2.635	9893.000	9888.000	2.124	2.541
3	15:43:46	1.658	4.097	5.289	10090.000	2.675	9827.000	9959.000	2.127	2.593
x		1.932	4.027	5.032	10120.000	2.651	9896.000	9980.000	2.127	2.531
σ		0.405	0.091	0.758	37.490	0.021	69.640	104.200	0.003	0.068
%RSD		20.970	2.249	15.060	0.371	0.809	0.704	1.044	0.145	2.682

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	3.104	3.329	4.195	1.853	2.557	0.052	2.246	2.548	-0.883
2	15:42:38	2.920	3.213	3.869	2.151	2.374	-0.007	1.993	2.367	-0.037
3	15:43:46	3.052	3.067	3.928	2.319	1.671	-0.039	1.273	1.665	-0.793
x		3.025	3.203	3.997	2.108	2.200	0.002	1.837	2.193	-0.571
σ		0.095	0.131	0.174	0.236	0.468	0.046	0.505	0.466	0.465
%RSD		3.145	4.095	4.345	11.200	21.250	2414.000	27.490	21.260	81.430

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	192.500	192.000	197.700	195.100	195.700	-0.002	88%	1.738	1.824
2	15:42:38	190.900	194.000	193.900	195.200	191.600	-0.007	89%	1.683	2.024
3	15:43:46	192.100	191.000	192.800	194.300	194.900	0.002	90%	1.369	2.011
x		191.800	192.300	194.800	194.800	194.100	-0.002	89%	1.597	1.953
σ		0.841	1.545	2.583	0.500	2.202	0.004	1%	0.199	0.112
%RSD		0.439	0.803	1.326	0.257	1.135	207.200	1	12.460	5.722

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	2.405	1.732	2.084	1.893	0.089	2.233	2.039	2.155	91%
2	15:42:38	1.339	1.676	2.077	2.137	0.064	2.284	2.281	2.091	93%
3	15:43:46	1.808	1.361	1.905	2.011	0.075	2.172	2.108	2.458	93%
x		1.851	1.590	2.022	2.014	0.076	2.230	2.143	2.235	92%
σ		0.534	0.200	0.101	0.122	0.013	0.056	0.125	0.196	1%
%RSD		28.860	12.610	4.991	6.061	16.590	2.500	5.827	8.770	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:29	92%	2.040	2.098	2.595	2.383	2.488	91%	0.010
2	15:42:38	94%	2.085	2.046	2.531	2.246	2.377	94%	0.008
3	15:43:46	93%	2.065	2.070	2.588	2.364	2.475	92%	0.001
x		93%	2.063	2.071	2.571	2.331	2.447	92%	0.007
σ		1%	0.022	0.026	0.035	0.074	0.060	1%	0.005
%RSD		1	1.082	1.275	1.358	3.185	2.470	1	78.820

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	86%	481.200	469.200	0.000	50110.000	49810.000	49140.000	49570.000	10100.000
2	15:50:31	85%	495.700	486.300	0.000	51500.000	51350.000	50690.000	51200.000	10240.000
3	15:51:40	85%	498.800	500.800	0.000	51170.000	50900.000	50390.000	50660.000	10200.000
x		85%	491.900	485.400	0.000	50930.000	50690.000	50080.000	50470.000	10180.000
σ		1%	9.375	15.790	0.000	730.200	790.600	824.100	833.100	75.440
%RSD		1	1.906	3.254	0.000	1.434	1.560	1.646	1.651	0.741

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	515.400	9788.000	0.000	0.000	24580.000	50690.000	48970.000	88%	494.500
2	15:50:31	522.200	9903.000	0.000	0.000	25560.000	52230.000	50370.000	87%	499.000
3	15:51:40	520.300	9993.000	0.000	0.000	24780.000	50610.000	48700.000	88%	494.100
x		519.300	9895.000	0.000	0.000	24970.000	51180.000	49340.000	88%	495.900
σ		3.513	103.100	0.000	0.000	519.300	915.900	895.100	1%	2.684
%RSD		0.676	1.042	0.000	0.000	2.079	1.790	1.814	1	0.541

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	484.900	487.400	2.010	25600.000	993.300	25000.000	24980.000	495.200	490.700
2	15:50:31	493.600	496.900	8.403	26240.000	1016.000	25840.000	25810.000	503.800	505.000
3	15:51:40	490.300	485.200	-5.216	25360.000	986.800	24800.000	24770.000	488.900	486.800
x		489.600	489.800	1.732	25730.000	998.700	25210.000	25190.000	496.000	494.200
σ		4.387	6.230	6.814	452.400	15.390	550.500	551.700	7.492	9.567
%RSD		0.896	1.272	393.400	1.758	1.541	2.183	2.191	1.511	1.936

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	981.400	990.800	1011.000	492.000	497.100	-1.283	489.900	496.700	-2.264
2	15:50:31	1014.000	1023.000	1032.000	503.100	512.400	-2.076	497.900	510.900	-1.487
3	15:51:40	987.000	989.400	998.300	494.200	499.500	-1.644	492.900	498.500	2.954
x		994.200	1001.000	1014.000	496.500	503.000	-1.667	493.600	502.000	-0.266
σ		17.540	19.190	16.820	5.896	8.251	0.397	4.065	7.775	2.815
%RSD		1.765	1.917	1.660	1.188	1.640	23.820	0.824	1.549	1059.000

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	503.000	495.700	497.600	502.200	499.500	0.021	86%	506.500	507.000
2	15:50:31	505.700	506.700	505.000	504.500	502.100	-0.002	87%	499.000	510.900
3	15:51:40	493.000	491.700	493.900	495.000	491.500	0.011	87%	494.800	498.300
x		500.600	498.000	498.800	500.600	497.700	0.010	87%	500.100	505.400
σ		6.675	7.786	5.632	4.981	5.504	0.011	1%	5.912	6.452
%RSD		1.334	1.563	1.129	0.995	1.106	113.600	1	1.182	1.277

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	8.634	506.400	505.600	511.600	501.600	504.600	2484.000	2473.000	91%
2	15:50:31	16.520	499.100	508.900	508.600	502.300	502.700	2511.000	2502.000	91%
3	15:51:40	13.430	495.000	501.600	500.800	497.300	499.300	2452.000	2453.000	91%
x		12.860	500.200	505.400	507.000	500.400	502.200	2482.000	2476.000	91%
σ		3.972	5.788	3.681	5.564	2.725	2.712	29.730	24.420	0%
%RSD		30.890	1.157	0.728	1.097	0.545	0.540	1.198	0.986	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:49:24	93%	506.800	507.700	505.100	498.900	499.500	90%	513.600
2	15:50:31	92%	501.300	508.700	511.600	513.800	510.200	89%	512.900
3	15:51:40	91%	494.800	496.800	500.500	501.500	497.400	91%	498.900
x		92%	501.000	504.400	505.700	504.700	502.400	90%	508.500
σ		1%	5.994	6.596	5.589	7.954	6.828	1%	8.294
%RSD		1	1.196	1.308	1.105	1.576	1.359	1	1.631

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	86%	0.262	6.716	0.000	59.990	28.700	27.500	27.850	11.380
2	15:58:24	91%	0.203	7.297	0.000	32.160	14.270	14.410	16.610	7.421
3	15:59:32	86%	0.107	5.900	0.000	30.780	5.525	7.562	4.762	4.196
x		88%	0.190	6.637	0.000	40.980	16.160	16.490	16.410	7.666
σ		3%	0.078	0.702	0.000	16.480	11.700	10.130	11.550	3.599
%RSD		3	41.160	10.570	0.000	40.210	72.400	61.420	70.370	46.950

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	-0.880	17.650	0.000	0.000	56.870	22.220	21.100	88%	0.486
2	15:58:24	-1.452	7.711	0.000	0.000	34.890	12.170	10.210	90%	0.263
3	15:59:32	-0.610	5.225	0.000	0.000	40.290	-6.357	-1.699	87%	0.346
x		-0.981	10.200	0.000	0.000	44.020	9.343	9.872	88%	0.365
σ		0.430	6.577	0.000	0.000	11.450	14.500	11.400	2%	0.113
%RSD		43.850	64.500	0.000	0.000	26.020	155.100	115.500	2	30.850

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	0.552	0.250	-0.187	21.330	0.495	16.120	24.480	0.245	0.208
2	15:58:24	0.244	0.108	0.149	12.790	0.283	8.811	17.050	0.174	0.163
3	15:59:32	0.046	0.094	0.146	10.440	0.117	4.879	8.233	0.089	0.097
x		0.281	0.150	0.036	14.850	0.298	9.938	16.590	0.169	0.156
σ		0.255	0.086	0.193	5.730	0.189	5.707	8.134	0.078	0.056
%RSD		90.870	57.470	539.500	38.580	63.550	57.420	49.030	46.250	35.770

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	0.653	0.617	0.510	0.362	0.547	-0.006	0.510	0.546	0.199
2	15:58:24	0.323	0.452	0.117	0.512	1.141	-0.071	-0.413	1.137	-5.124
3	15:59:32	0.241	0.147	0.251	0.314	0.735	-0.046	-0.170	0.732	-6.389
x		0.406	0.405	0.293	0.396	0.808	-0.041	-0.024	0.805	-3.771
σ		0.218	0.238	0.200	0.103	0.303	0.033	0.478	0.302	3.496
%RSD		53.810	58.760	68.260	26.000	37.540	80.070	1988.000	37.510	92.710

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	0.905	0.875	0.800	0.865	0.909	0.002	88%	0.170	0.366
2	15:58:24	0.494	0.656	0.513	0.552	0.583	0.002	92%	1.098	0.229
3	15:59:32	0.375	0.426	0.359	0.370	0.480	-0.002	90%	-2.660	0.154
x		0.591	0.652	0.557	0.596	0.657	0.001	90%	-0.464	0.250
σ		0.278	0.225	0.224	0.251	0.224	0.003	2%	1.958	0.108
%RSD		47.050	34.470	40.230	42.080	34.030	337.900	2	421.700	43.060

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	-0.049	0.170	0.372	0.291	0.497	0.674	1.259	1.326	88%
2	15:58:24	-0.322	1.098	0.209	0.198	0.350	0.458	1.028	0.995	92%
3	15:59:32	1.343	-2.664	0.112	-0.037	0.243	0.312	0.560	0.538	90%
x		0.324	-0.465	0.231	0.150	0.363	0.481	0.949	0.953	90%
σ		0.893	1.960	0.131	0.169	0.127	0.182	0.356	0.396	2%
%RSD		275.400	421.300	56.700	112.100	35.070	37.890	37.500	41.550	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:57:16	90%	0.410	0.415	0.251	0.294	0.279	89%	0.266
2	15:58:24	92%	0.218	0.218	0.176	0.194	0.180	92%	0.181
3	15:59:32	91%	0.129	0.101	0.107	0.082	0.097	91%	0.107
x		91%	0.252	0.245	0.178	0.190	0.185	91%	0.185
σ		1%	0.143	0.159	0.072	0.106	0.091	1%	0.080
%RSD		2	56.790	64.950	40.640	55.870	49.130	2	43.100

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	86%	0.252	3.578	0.000	45.800	16.440	16.190	16.390	4.877
2	16:06:17	87%	0.288	3.006	0.000	46.520	16.940	18.370	16.360	5.616
3	16:07:24	87%	0.203	2.132	0.000	46.990	18.690	18.480	19.490	5.675
x		87%	0.247	2.905	0.000	46.440	17.360	17.680	17.420	5.389
σ		1%	0.042	0.728	0.000	0.599	1.184	1.293	1.799	0.444
%RSD		1	17.160	25.060	0.000	1.290	6.821	7.312	10.330	8.247

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	-0.504	8.877	0.000	0.000	35.960	3.754	11.710	89%	0.266
2	16:06:17	0.677	4.027	0.000	0.000	38.640	8.942	12.000	90%	0.056
3	16:07:24	2.766	8.031	0.000	0.000	38.890	12.720	12.140	89%	0.302
x		0.980	6.978	0.000	0.000	37.830	8.471	11.950	89%	0.208
σ		1.656	2.591	0.000	0.000	1.623	4.501	0.219	0%	0.133
%RSD		169.000	37.130	0.000	0.000	4.290	53.130	1.835	0	63.940

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	0.342	0.259	-0.636	16.650	0.462	8.087	4.297	0.231	0.201
2	16:06:17	0.114	0.257	-0.352	16.230	0.456	8.737	8.024	0.224	0.272
3	16:07:24	0.598	0.234	-0.649	15.470	0.482	10.320	9.074	0.239	0.291
x		0.351	0.250	-0.545	16.120	0.467	9.047	7.132	0.231	0.255
σ		0.242	0.014	0.168	0.600	0.014	1.147	2.510	0.007	0.048
%RSD		68.980	5.454	30.800	3.724	2.929	12.670	35.200	3.209	18.760

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	0.438	0.456	0.308	0.412	0.682	-0.044	0.573	0.680	-0.665
2	16:06:17	0.311	0.596	0.389	0.437	0.728	-0.046	-0.165	0.725	-2.161
3	16:07:24	0.417	0.381	0.152	0.240	0.175	0.001	0.284	0.175	-3.288
x		0.388	0.478	0.283	0.363	0.528	-0.030	0.231	0.527	-2.038
σ		0.068	0.109	0.121	0.107	0.307	0.026	0.372	0.305	1.316
%RSD		17.480	22.880	42.610	29.520	58.120	88.700	161.300	57.970	64.570

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	0.335	0.347	0.436	0.429	0.371	0.002	92%	-1.697	0.274
2	16:06:17	0.346	0.346	0.341	0.314	0.327	-0.007	92%	0.351	0.250
3	16:07:24	0.301	0.291	0.311	0.398	0.350	-0.002	92%	-0.257	0.243
x		0.327	0.328	0.363	0.381	0.350	-0.002	92%	-0.534	0.256
σ		0.023	0.032	0.065	0.059	0.022	0.004	0%	1.052	0.016
%RSD		7.143	9.786	17.960	15.610	6.270	190.800	0	196.800	6.364

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	0.931	-1.703	0.243	0.119	0.279	0.317	1.068	1.179	93%
2	16:06:17	-0.079	0.348	0.255	0.225	0.343	0.297	1.291	1.335	93%
3	16:07:24	0.220	-0.262	0.268	0.189	0.345	0.313	1.257	1.316	94%
x		0.357	-0.539	0.255	0.178	0.322	0.309	1.205	1.277	94%
σ		0.518	1.053	0.013	0.054	0.037	0.010	0.120	0.085	1%
%RSD		145.100	195.300	4.971	30.460	11.610	3.292	9.945	6.648	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:09	94%	0.304	0.259	0.246	0.209	0.224	94%	0.242
2	16:06:17	94%	0.243	0.247	0.240	0.206	0.213	95%	0.246
3	16:07:24	94%	0.240	0.253	0.234	0.212	0.230	94%	0.244
x		94%	0.263	0.253	0.240	0.209	0.222	94%	0.244
σ		0%	0.036	0.006	0.006	0.003	0.009	1%	0.002
%RSD		0	13.710	2.311	2.439	1.273	3.852	1	0.874

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	87%	0.067	3.101	0.000	30.420	2.830	3.010	2.798	1.265
2	16:14:10	88%	-0.015	3.378	0.000	21.150	-3.243	-3.223	-3.068	-0.215
3	16:15:18	87%	-0.005	1.880	0.000	25.290	-4.851	-5.064	-3.720	-0.528
x		87%	0.016	2.786	0.000	25.620	-1.755	-1.759	-1.330	0.174
σ		1%	0.044	0.797	0.000	4.645	4.051	4.232	3.590	0.958
%RSD		1	279.600	28.610	0.000	18.130	230.900	240.600	269.900	549.800

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	-0.292	1.109	0.000	0.000	27.170	4.895	-2.027	91%	0.088
2	16:14:10	1.001	-3.230	0.000	0.000	23.980	-7.201	-10.190	91%	-0.015
3	16:15:18	-1.293	2.118	0.000	0.000	27.900	-10.370	-9.283	89%	0.056
x		-0.195	-0.001	0.000	0.000	26.350	-4.224	-7.165	91%	0.043
σ		1.150	2.842	0.000	0.000	2.084	8.055	4.472	1%	0.053
%RSD		591.000	300000.000	0.000	0.000	7.909	190.700	62.420	1	122.000

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	0.150	-0.030	-0.963	1.227	0.030	-1.133	0.519	0.020	0.045
2	16:14:10	0.138	-0.030	-1.164	0.058	-0.060	-3.140	2.605	0.007	-0.018
3	16:15:18	0.066	-0.072	-0.778	0.854	-0.086	-3.287	5.133	-0.018	0.011
x		0.118	-0.044	-0.968	0.713	-0.039	-2.520	2.752	0.003	0.013
σ		0.046	0.024	0.193	0.597	0.061	1.204	2.310	0.019	0.031
%RSD		38.720	54.830	19.950	83.720	157.100	47.760	83.940	683.800	245.900

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	0.114	0.034	-0.113	-0.012	-0.603	0.011	0.645	-0.600	2.153
2	16:14:10	0.040	-0.039	-0.113	-0.046	-0.512	0.007	-0.210	-0.510	2.539
3	16:15:18	-0.096	-0.031	-0.233	-0.006	-0.149	-0.008	-0.103	-0.147	-0.321
x		0.019	-0.012	-0.153	-0.022	-0.421	0.003	0.110	-0.419	1.457
σ		0.107	0.040	0.070	0.021	0.240	0.010	0.466	0.240	1.552
%RSD		552.900	335.700	45.520	99.390	57.000	330.300	422.100	57.250	106.500

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	0.046	0.203	0.185	0.105	0.150	-0.002	92%	-0.671	0.061
2	16:14:10	0.089	0.155	0.080	0.219	0.067	-0.002	92%	-0.384	0.033
3	16:15:18	0.079	0.084	0.107	0.143	0.118	-0.007	92%	0.064	0.020
x		0.071	0.147	0.124	0.155	0.112	-0.004	92%	-0.331	0.038
σ		0.022	0.060	0.055	0.058	0.042	0.002	0%	0.370	0.021
%RSD		31.210	40.710	44.040	37.550	37.330	67.410	0	112.000	54.650

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	0.299	-0.676	0.049	-0.001	0.030	0.083	0.193	0.090	93%
2	16:14:10	0.096	-0.390	0.021	0.022	0.030	0.050	0.125	0.071	94%
3	16:15:18	-0.127	0.061	0.019	0.016	0.025	0.054	0.025	0.027	93%
x		0.089	-0.335	0.030	0.013	0.028	0.062	0.114	0.063	93%
σ		0.213	0.372	0.017	0.012	0.003	0.018	0.084	0.032	0%
%RSD		238.300	111.000	56.060	94.510	11.880	28.810	73.820	51.080	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:02	94%	0.052	0.067	0.027	0.014	0.030	95%	0.031
2	16:14:10	95%	0.039	0.024	-0.013	-0.016	-0.012	95%	0.013
3	16:15:18	94%	0.007	0.020	-0.018	-0.024	-0.003	94%	0.009
x		94%	0.033	0.037	-0.001	-0.009	0.005	95%	0.018
σ		1%	0.023	0.026	0.024	0.020	0.022	0%	0.012
%RSD		1	70.370	70.570	1909.000	233.500	446.700	0	65.290

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	90%	1.976	10.750	0.000	949.300	997.900	1000.000	1018.000	42.550
2	16:36:01	90%	1.831	10.130	0.000	937.800	995.600	985.100	1007.000	41.580
3	16:37:09	90%	1.893	9.102	0.000	952.100	1007.000	1000.000	1024.000	42.060
x		90%	1.900	9.995	0.000	946.400	1000.000	995.200	1016.000	42.060
σ		0%	0.073	0.834	0.000	7.573	5.811	8.783	8.348	0.489
%RSD		0	3.848	8.341	0.000	0.800	0.581	0.883	0.821	1.162

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	12.150	2.896	0.000	0.000	1010.000	895.100	979.700	92%	8.579
2	16:36:01	9.705	-0.023	0.000	0.000	998.600	946.200	964.700	92%	9.121
3	16:37:09	11.150	-1.142	0.000	0.000	1016.000	1019.000	973.700	91%	10.480
x		11.000	0.577	0.000	0.000	1008.000	953.500	972.700	92%	9.393
σ		1.228	2.085	0.000	0.000	8.829	62.380	7.531	1%	0.978
%RSD		11.170	361.300	0.000	0.000	0.876	6.542	0.774	1	10.410

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	10.280	3.866	-2.078	403.800	1.978	399.800	396.600	1.943	1.832
2	16:36:01	10.030	4.010	-1.724	407.500	1.970	402.500	403.000	1.878	1.998
3	16:37:09	10.140	4.065	-2.101	412.600	2.025	407.200	426.300	1.997	1.912
x		10.150	3.980	-1.968	408.000	1.991	403.200	408.600	1.939	1.914
σ		0.126	0.103	0.211	4.424	0.030	3.735	15.640	0.060	0.083
%RSD		1.243	2.581	10.740	1.084	1.513	0.926	3.828	3.070	4.325

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	4.030	3.924	4.012	1.978	9.917	-0.030	9.691	9.893	-0.110
2	16:36:01	4.292	3.736	4.067	1.548	9.669	0.078	10.610	9.642	0.212
3	16:37:09	4.162	3.944	3.848	2.735	10.510	-0.143	10.190	10.470	-2.558
x		4.161	3.868	3.976	2.087	10.030	-0.031	10.160	10.000	-0.819
σ		0.131	0.115	0.114	0.601	0.432	0.111	0.459	0.426	1.515
%RSD		3.136	2.965	2.856	28.790	4.306	352.400	4.519	4.255	185.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	9.248	9.734	9.822	9.572	9.669	0.002	92%	1.284	2.020
2	16:36:01	10.350	9.841	9.791	9.432	9.611	0.002	92%	2.275	1.975
3	16:37:09	9.999	9.816	9.577	9.794	9.672	-0.007	92%	2.995	2.129
x		9.865	9.797	9.730	9.599	9.651	-0.001	92%	2.185	2.041
σ		0.562	0.056	0.134	0.183	0.034	0.005	0%	0.859	0.079
%RSD		5.700	0.572	1.374	1.903	0.357	588.600	0	39.310	3.884

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	0.785	1.282	1.965	1.923	9.812	3.960	19.880	19.460	93%
2	16:36:01	-0.149	2.275	1.853	1.816	9.761	3.864	19.510	19.550	93%
3	16:37:09	-0.433	2.997	2.057	1.942	10.080	3.787	20.270	19.850	93%
x		0.067	2.185	1.958	1.894	9.884	3.871	19.890	19.620	93%
σ		0.637	0.861	0.102	0.068	0.170	0.087	0.383	0.204	1%
%RSD		944.500	39.420	5.222	3.580	1.722	2.241	1.926	1.040	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:52	93%	2.033	1.985	1.900	2.012	1.929	92%	0.001
2	16:36:01	94%	2.004	2.001	2.003	1.887	1.902	94%	-0.001
3	16:37:09	94%	1.915	2.007	1.985	1.913	1.923	94%	-0.005
x		94%	1.984	1.998	1.963	1.938	1.918	94%	-0.001
σ		1%	0.061	0.011	0.055	0.066	0.014	1%	0.003
%RSD		1	3.093	0.559	2.815	3.413	0.746	1	226.100

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	84%	0.015	1019.000	0.000	267100.000	51330.000	51250.000	51640.000	4.756
2	16:43:54	86%	-0.023	1005.000	0.000	262000.000	50510.000	50730.000	50870.000	4.701
3	16:45:02	83%	-0.002	1030.000	0.000	272400.000	52190.000	52120.000	52520.000	4.326
x		85%	-0.003	1018.000	0.000	267200.000	51340.000	51360.000	51680.000	4.594
σ		1%	0.019	12.440	0.000	5172.000	836.500	705.100	823.200	0.234
%RSD		2	586.700	1.222	0.000	1.936	1.629	1.373	1.593	5.093

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	21260.000	-8.539	0.000	0.000	6776.000	240900.000	260700.000	93%	2.493
2	16:43:54	20990.000	-8.956	0.000	0.000	6817.000	245600.000	268900.000	90%	2.252
3	16:45:02	21520.000	-6.847	0.000	0.000	6976.000	249300.000	274000.000	89%	2.284
x		21260.000	-8.114	0.000	0.000	6856.000	245300.000	267900.000	91%	2.343
σ		261.100	1.117	0.000	0.000	105.900	4222.000	6737.000	2%	0.131
%RSD		1.228	13.770	0.000	0.000	1.544	1.721	2.515	2	5.586

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	30.760	3.029	85.080	52.890	1.103	64.090	1006.000	-0.032	3.707
2	16:43:54	29.990	3.116	100.700	55.610	1.021	65.460	1036.000	-0.031	3.228
3	16:45:02	31.680	3.270	111.800	61.430	1.124	67.820	1049.000	-0.067	3.360
x		30.810	3.139	99.170	56.640	1.083	65.790	1030.000	-0.043	3.432
σ		0.845	0.122	13.400	4.361	0.054	1.886	22.110	0.020	0.247
%RSD		2.741	3.891	13.510	7.699	5.017	2.866	2.146	46.710	7.209

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	1.486	1.630	43.050	8.274	25.710	0.390	20.540	26.020	1.326
2	16:43:54	1.408	1.667	41.290	6.287	24.380	0.858	18.660	24.610	1.428
3	16:45:02	1.417	1.875	43.790	7.159	24.180	0.948	18.620	24.430	0.942
x		1.437	1.724	42.710	7.240	24.760	0.732	19.270	25.020	1.232
σ		0.043	0.132	1.284	0.996	0.830	0.299	1.096	0.871	0.256
%RSD		2.978	7.674	3.006	13.760	3.351	40.890	5.687	3.481	20.790

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	2.832	1.555	1.887	1.874	1.621	0.004	77%	-0.789	0.102
2	16:43:54	1.999	1.548	1.634	1.816	1.631	-0.007	78%	-0.596	0.056
3	16:45:02	6.029	1.866	1.738	1.860	1.467	0.009	76%	-0.000	0.060
x		3.620	1.656	1.753	1.850	1.573	0.002	77%	-0.462	0.073
σ		2.127	0.182	0.127	0.030	0.092	0.008	1%	0.411	0.026
%RSD		58.770	10.970	7.239	1.632	5.825	402.100	1	89.060	35.130

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	0.451	-0.811	0.086	-0.056	0.146	0.114	37.550	37.060	86%
2	16:43:54	0.282	-0.619	0.079	-0.028	0.111	0.096	37.430	37.710	86%
3	16:45:02	-0.083	-0.027	0.091	-0.005	0.047	0.084	39.170	38.500	85%
x		0.217	-0.486	0.085	-0.030	0.101	0.098	38.050	37.760	86%
σ		0.273	0.408	0.006	0.026	0.050	0.015	0.975	0.719	1%
%RSD		126.000	84.080	6.809	85.470	49.600	15.090	2.561	1.903	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:46	87%	0.043	0.021	0.295	0.256	0.257	82%	10.340
2	16:43:54	88%	0.022	0.023	0.240	0.179	0.198	84%	10.060
3	16:45:02	86%	0.010	0.009	0.175	0.174	0.176	83%	10.320
x		87%	0.025	0.018	0.237	0.203	0.210	83%	10.240
σ		1%	0.016	0.007	0.060	0.046	0.042	1%	0.156
%RSD		1	65.570	42.090	25.260	22.560	19.820	1	1.518

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	84%	-0.031	1102.000	0.000	240900.000	43070.000	42730.000	42880.000	2.552
2	16:51:49	85%	-0.013	1117.000	0.000	243000.000	43380.000	43280.000	43170.000	2.789
3	16:52:57	86%	-0.050	1160.000	0.000	243900.000	43780.000	43170.000	43540.000	2.828
x		85%	-0.031	1126.000	0.000	242600.000	43410.000	43060.000	43200.000	2.723
σ		1%	0.019	30.310	0.000	1567.000	358.500	292.600	333.800	0.149
%RSD		1	59.570	2.692	0.000	0.646	0.826	0.679	0.773	5.480

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	24540.000	-3.716	0.000	0.000	5725.000	150300.000	163500.000	83%	2.139
2	16:51:49	24790.000	-7.971	0.000	0.000	5720.000	150200.000	164600.000	84%	2.613
3	16:52:57	24970.000	-5.138	0.000	0.000	5843.000	155300.000	168600.000	83%	2.859
x		24770.000	-5.608	0.000	0.000	5763.000	151900.000	165600.000	83%	2.537
σ		219.200	2.166	0.000	0.000	69.850	2891.000	2663.000	0%	0.366
%RSD		0.885	38.620	0.000	0.000	1.212	1.903	1.608	0	14.420

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	62.850	8.296	124.500	2.572	0.063	7.848	629.300	0.026	1.966
2	16:51:49	64.330	8.515	131.200	3.625	0.108	8.732	591.200	0.051	2.193
3	16:52:57	62.810	8.684	142.300	8.052	0.079	9.310	629.200	-0.028	2.000
x		63.330	8.498	132.700	4.750	0.083	8.630	616.600	0.016	2.053
σ		0.864	0.195	8.986	2.908	0.023	0.736	21.980	0.041	0.123
%RSD		1.364	2.290	6.773	61.230	27.540	8.534	3.565	251.000	5.964

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	56.200	54.880	17.180	12.960	19.310	0.838	14.760	19.370	1.468
2	16:51:49	54.850	56.570	17.620	12.100	17.550	0.838	13.950	17.580	-1.286
3	16:52:57	57.370	56.660	18.160	12.330	18.900	1.041	14.340	18.920	1.712
x		56.140	56.040	17.650	12.460	18.590	0.906	14.350	18.620	0.631
σ		1.262	1.006	0.494	0.446	0.922	0.117	0.405	0.933	1.665
%RSD		2.248	1.796	2.796	3.578	4.961	12.940	2.819	5.012	263.800

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	3.618	3.944	3.799	4.270	3.870	0.004	78%	0.847	0.045
2	16:51:49	3.927	4.115	3.936	3.988	3.797	-0.007	79%	-1.249	0.030
3	16:52:57	3.481	3.868	3.847	3.656	3.678	-0.007	79%	-1.440	0.051
x		3.675	3.976	3.861	3.972	3.782	-0.003	79%	-0.614	0.042
σ		0.229	0.127	0.070	0.307	0.097	0.006	1%	1.269	0.010
%RSD		6.220	3.182	1.803	7.736	2.555	183.700	1	206.700	24.940

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	-0.501	0.823	0.042	0.079	0.636	0.140	38.280	38.610	86%
2	16:51:49	0.528	-1.270	0.055	-0.083	0.574	0.139	38.870	38.320	87%
3	16:52:57	0.695	-1.461	0.041	-0.075	0.584	0.132	39.740	38.650	87%
x		0.241	-0.636	0.046	-0.026	0.598	0.137	38.960	38.520	87%
σ		0.648	1.267	0.008	0.092	0.033	0.004	0.731	0.180	1%
%RSD		269.200	199.200	16.370	347.400	5.541	2.868	1.877	0.466	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:40	87%	0.006	0.003	3.309	3.012	3.109	83%	6.915
2	16:51:49	89%	-0.003	-0.001	3.232	2.937	3.060	84%	6.946
3	16:52:57	88%	-0.002	-0.002	3.307	2.933	3.143	84%	7.021
x		88%	0.001	-0.000	3.283	2.961	3.104	84%	6.961
σ		1%	0.005	0.003	0.044	0.045	0.042	1%	0.054
%RSD		1	840.500	2177.000	1.342	1.509	1.341	1	0.782

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	94%	-0.018	927.700	0.000	264700.000	74350.000	74210.000	74130.000	3.974
2	16:59:44	93%	-0.026	995.100	0.000	278000.000	77780.000	78110.000	78030.000	5.145
3	17:00:53	97%	-0.028	982.300	0.000	265600.000	75020.000	74350.000	75120.000	4.596
x		95%	-0.024	968.400	0.000	269400.000	75720.000	75560.000	75760.000	4.572
σ		2%	0.005	35.810	0.000	7412.000	1821.000	2213.000	2026.000	0.586
%RSD		2	20.460	3.698	0.000	2.751	2.405	2.928	2.674	12.810

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	19520.000	-4.978	0.000	0.000	8463.000	309200.000	320300.000	98%	1.908
2	16:59:44	20400.000	-1.293	0.000	0.000	8996.000	332600.000	344100.000	94%	2.334
3	17:00:53	19800.000	-4.357	0.000	0.000	8611.000	316500.000	328500.000	97%	2.109
x		19910.000	-3.543	0.000	0.000	8690.000	319400.000	331000.000	96%	2.117
σ		447.600	1.973	0.000	0.000	275.400	11960.000	12110.000	2%	0.214
%RSD		2.249	55.690	0.000	0.000	3.170	3.745	3.659	2	10.080

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	27.800	3.212	119.300	7.487	0.980	20.920	1165.000	-0.120	3.457
2	16:59:44	29.770	3.470	132.600	10.360	1.043	24.810	1252.000	-0.078	3.631
3	17:00:53	27.800	3.472	133.600	7.843	0.976	23.780	1242.000	-0.117	3.702
x		28.460	3.384	128.500	8.563	0.999	23.170	1220.000	-0.105	3.597
σ		1.141	0.149	7.996	1.566	0.038	2.020	47.670	0.023	0.126
%RSD		4.010	4.416	6.224	18.290	3.763	8.718	3.908	22.210	3.502

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	4.729	5.616	20.650	8.628	28.550	0.858	22.060	28.960	-3.615
2	16:59:44	4.981	5.813	21.030	8.062	29.930	1.010	22.780	30.290	-3.703
3	17:00:53	4.709	5.004	20.080	8.107	28.020	0.926	21.730	28.380	0.976
x		4.807	5.478	20.590	8.266	28.830	0.931	22.190	29.210	-2.114
σ		0.152	0.421	0.478	0.315	0.988	0.076	0.536	0.981	2.677
%RSD		3.154	7.694	2.322	3.810	3.425	8.191	2.417	3.358	126.600

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	7.493	0.716	0.721	0.706	0.614	0.003	80%	-1.076	0.057
2	16:59:44	10.410	0.637	0.565	0.787	0.685	-0.007	78%	0.005	0.065
3	17:00:53	9.439	0.728	0.566	0.804	0.655	0.003	81%	-1.356	0.038
x		9.112	0.694	0.617	0.766	0.651	-0.000	80%	-0.809	0.053
σ		1.484	0.050	0.090	0.052	0.036	0.006	1%	0.719	0.013
%RSD		16.280	7.170	14.590	6.849	5.489	6464.000	2	88.840	25.180

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	0.660	-1.099	0.079	-0.071	0.127	0.063	23.770	23.060	89%
2	16:59:44	-0.087	-0.020	0.023	0.023	0.078	0.072	23.930	23.850	87%
3	17:00:53	0.652	-1.377	0.051	-0.080	0.088	0.090	22.340	23.870	89%
x		0.408	-0.832	0.051	-0.043	0.098	0.075	23.350	23.590	88%
σ		0.429	0.717	0.028	0.057	0.026	0.014	0.877	0.459	1%
%RSD		105.000	86.150	54.590	132.600	26.370	18.060	3.758	1.944	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:36	90%	-0.005	-0.006	0.498	0.524	0.497	84%	12.810
2	16:59:44	89%	-0.007	0.001	0.554	0.449	0.501	84%	13.430
3	17:00:53	91%	-0.002	-0.007	0.531	0.476	0.512	85%	13.160
x		90%	-0.005	-0.004	0.528	0.483	0.504	84%	13.130
σ		1%	0.002	0.004	0.028	0.038	0.008	1%	0.311
%RSD		1	53.990	106.200	5.330	7.846	1.532	1	2.365

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	90%	-0.025	1088.000	0.000	297600.000	58500.000	58680.000	58850.000	-1.352
2	17:07:40	87%	0.004	1063.000	0.000	297700.000	59310.000	59030.000	58710.000	-1.115
3	17:08:48	91%	-0.008	1073.000	0.000	299600.000	59250.000	58730.000	59220.000	2.003
x		89%	-0.010	1075.000	0.000	298300.000	59020.000	58820.000	58930.000	-0.155
σ		2%	0.014	12.720	0.000	1123.000	449.800	190.900	265.900	1.872
%RSD		2	146.800	1.184	0.000	0.376	0.762	0.325	0.451	1210.000

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	23290.000	-9.870	0.000	0.000	5169.000	204900.000	223100.000	95%	2.223
2	17:07:40	23300.000	-11.550	0.000	0.000	5152.000	204400.000	221300.000	94%	1.557
3	17:08:48	23260.000	-9.562	0.000	0.000	5198.000	205000.000	226100.000	95%	1.930
x		23280.000	-10.330	0.000	0.000	5173.000	204800.000	223500.000	95%	1.903
σ		17.690	1.069	0.000	0.000	23.100	310.600	2440.000	1%	0.334
%RSD		0.076	10.350	0.000	0.000	0.447	0.152	1.092	1	17.530

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	38.810	1.160	129.700	-5.223	0.076	4.210	823.800	0.083	3.035
2	17:07:40	38.950	1.191	139.700	-4.987	0.079	4.526	806.100	0.075	3.066
3	17:08:48	39.380	1.235	142.100	-6.437	0.072	4.814	827.300	0.092	3.305
x		39.040	1.195	137.200	-5.549	0.075	4.517	819.100	0.083	3.135
σ		0.300	0.038	6.606	0.778	0.003	0.302	11.410	0.008	0.147
%RSD		0.770	3.148	4.816	14.010	4.490	6.695	1.393	9.928	4.700

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	0.911	1.403	1.760	10.030	22.840	0.958	17.780	23.160	-4.533
2	17:07:40	0.946	1.536	1.592	10.840	24.720	0.770	19.250	25.040	-0.809
3	17:08:48	0.960	1.333	1.790	9.545	24.950	1.043	17.660	25.280	0.241
x		0.939	1.424	1.714	10.140	24.170	0.923	18.230	24.500	-1.700
σ		0.026	0.103	0.107	0.654	1.158	0.140	0.884	1.163	2.509
%RSD		2.738	7.243	6.232	6.450	4.792	15.160	4.850	4.749	147.600

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	8.666	1.785	1.760	1.845	1.648	-0.007	78%	1.131	0.078
2	17:07:40	10.290	1.643	1.737	1.975	1.723	-0.002	78%	-1.037	0.056
3	17:08:48	8.956	1.743	1.695	2.077	1.611	0.013	78%	-0.756	0.053
x		9.303	1.724	1.731	1.966	1.661	0.002	78%	-0.221	0.063
σ		0.865	0.073	0.033	0.116	0.057	0.010	0%	1.179	0.014
%RSD		9.292	4.234	1.916	5.903	3.419	592.700	0	534.500	22.070

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	-0.491	1.101	0.069	0.031	0.015	0.027	17.870	17.830	88%
2	17:07:40	0.574	-1.063	0.067	-0.034	0.022	0.046	18.910	18.120	88%
3	17:08:48	0.287	-0.779	0.046	-0.038	-0.012	0.088	18.700	18.550	87%
x		0.123	-0.247	0.061	-0.013	0.008	0.054	18.490	18.170	88%
σ		0.551	1.176	0.013	0.039	0.018	0.031	0.549	0.361	0%
%RSD		446.600	475.600	21.120	287.800	216.500	58.000	2.967	1.984	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:06:32	88%	-0.010	-0.005	0.112	0.089	0.095	83%	13.430
2	17:07:40	89%	-0.013	-0.002	0.085	0.073	0.074	84%	13.310
3	17:08:48	88%	-0.004	-0.008	0.043	0.055	0.063	83%	13.550
x		88%	-0.009	-0.005	0.080	0.072	0.077	83%	13.430
σ		1%	0.005	0.003	0.035	0.017	0.016	1%	0.120
%RSD		1	55.260	63.240	43.670	23.050	20.610	1	0.894

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	90%	-0.051	1424.000	0.000	401500.000	65730.000	65390.000	66180.000	2.019
2	17:15:35	88%	-0.042	1514.000	0.000	430100.000	71770.000	71500.000	71770.000	1.029
3	17:16:43	89%	-0.033	1485.000	0.000	413500.000	69150.000	69140.000	69440.000	2.552
x		89%	-0.042	1474.000	0.000	415000.000	68880.000	68670.000	69130.000	1.867
σ		1%	0.009	45.610	0.000	14370.000	3032.000	3081.000	2811.000	0.773
%RSD		1	21.270	3.093	0.000	3.461	4.402	4.486	4.066	41.380

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	22450.000	-5.832	0.000	0.000	6173.000	262400.000	290400.000	98%	2.154
2	17:15:35	24210.000	-5.195	0.000	0.000	6572.000	286300.000	314400.000	95%	3.583
3	17:16:43	23580.000	-3.734	0.000	0.000	6378.000	279600.000	302500.000	96%	2.336
x		23410.000	-4.920	0.000	0.000	6374.000	276100.000	302400.000	97%	2.691
σ		889.900	1.076	0.000	0.000	200.000	12330.000	12000.000	2%	0.777
%RSD		3.801	21.860	0.000	0.000	3.137	4.465	3.968	2	28.890

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	42.790	1.587	121.000	2.122	0.093	16.540	1123.000	-0.164	5.490
2	17:15:35	45.350	1.671	136.900	6.277	0.100	18.800	1192.000	-0.140	5.293
3	17:16:43	42.290	1.750	137.700	4.045	0.083	17.920	1146.000	-0.138	5.092
x		43.480	1.669	131.900	4.148	0.092	17.750	1154.000	-0.147	5.292
σ		1.642	0.082	9.398	2.080	0.008	1.139	35.120	0.014	0.199
%RSD		3.776	4.896	7.128	50.140	9.090	6.413	3.044	9.575	3.764

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	2.266	2.666	51.110	9.521	27.540	0.779	14.720	27.980	-3.111
2	17:15:35	2.236	2.723	56.390	9.631	29.500	0.821	15.850	29.900	1.489
3	17:16:43	2.245	2.737	55.150	11.360	31.110	0.548	14.340	31.520	-2.285
x		2.249	2.709	54.220	10.170	29.380	0.716	14.970	29.800	-1.302
σ		0.015	0.038	2.762	1.030	1.784	0.147	0.787	1.773	2.453
%RSD		0.675	1.392	5.094	10.130	6.071	20.500	5.253	5.949	188.300

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	13.800	1.563	1.464	1.728	1.458	0.008	79%	-0.556	0.053
2	17:15:35	10.300	1.647	1.694	1.656	1.546	0.003	78%	-1.169	0.042
3	17:16:43	11.970	1.754	1.522	1.862	1.542	-0.002	79%	-2.104	0.039
x		12.020	1.655	1.560	1.749	1.515	0.003	79%	-1.276	0.045
σ		1.746	0.095	0.120	0.105	0.050	0.005	1%	0.780	0.007
%RSD		14.520	5.770	7.683	5.974	3.272	147.600	1	61.110	16.180

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	0.262	-0.580	0.069	-0.035	0.051	0.107	26.080	27.390	88%
2	17:15:35	0.563	-1.190	0.037	-0.069	0.076	0.101	28.600	28.440	86%
3	17:16:43	1.022	-2.125	0.055	-0.121	0.086	0.118	29.330	27.310	88%
x		0.615	-1.298	0.054	-0.075	0.071	0.108	28.000	27.710	87%
σ		0.383	0.778	0.016	0.043	0.018	0.009	1.705	0.629	1%
%RSD		62.190	59.950	29.660	57.630	25.670	7.932	6.089	2.268	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:14:27	89%	-0.003	-0.002	2.428	2.239	2.269	83%	10.950
2	17:15:35	88%	-0.006	-0.008	2.506	2.396	2.421	82%	11.640
3	17:16:43	89%	-0.009	-0.012	2.514	2.123	2.290	83%	11.250
x		88%	-0.006	-0.007	2.483	2.252	2.326	83%	11.280
σ		0%	0.003	0.005	0.047	0.137	0.082	1%	0.347
%RSD		1	42.600	69.220	1.901	6.080	3.540	1	3.076

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	92%	-0.008	75.160	0.000	12070.000	2375.000	2261.000	2310.000	-1.535
2	17:23:30	90%	-0.033	72.260	0.000	12070.000	2350.000	2267.000	2325.000	-1.602
3	17:24:38	88%	-0.051	67.400	0.000	12040.000	2363.000	2316.000	2333.000	-1.599
x		90%	-0.031	71.610	0.000	12060.000	2363.000	2281.000	2323.000	-1.579
σ		2%	0.021	3.920	0.000	20.140	12.480	29.990	11.850	0.038
%RSD		2	69.210	5.474	0.000	0.167	0.528	1.315	0.510	2.409

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	935.000	0.761	0.000	0.000	338.200	11170.000	11650.000	91%	0.054
2	17:23:30	944.300	-4.686	0.000	0.000	343.300	11010.000	11750.000	90%	0.126
3	17:24:38	926.300	-3.636	0.000	0.000	344.100	11370.000	11840.000	88%	0.165
x		935.200	-2.520	0.000	0.000	341.900	11180.000	11750.000	90%	0.115
σ		9.026	2.890	0.000	0.000	3.201	179.500	95.220	2%	0.056
%RSD		0.965	114.700	0.000	0.000	0.936	1.605	0.810	2	49.080

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	1.053	0.211	33.890	3.109	-0.059	0.227	56.710	-0.035	-0.008
2	17:23:30	1.097	0.116	33.130	2.041	-0.067	0.319	52.960	-0.039	0.156
3	17:24:38	1.704	0.216	31.400	3.134	-0.052	-0.398	54.950	-0.048	0.171
x		1.285	0.181	32.810	2.761	-0.059	0.049	54.870	-0.041	0.107
σ		0.363	0.056	1.275	0.624	0.007	0.390	1.878	0.007	0.099
%RSD		28.290	31.180	3.885	22.610	12.330	789.900	3.422	17.050	93.410

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	-0.072	0.006	1.951	0.122	1.145	0.206	0.091	1.143	-1.326
2	17:23:30	-0.092	0.045	2.320	0.336	1.525	0.169	0.745	1.520	-3.094
3	17:24:38	-0.026	0.041	1.718	0.317	0.357	0.169	0.374	0.356	0.985
x		-0.063	0.030	1.996	0.259	1.009	0.182	0.403	1.006	-1.145
σ		0.034	0.021	0.304	0.119	0.596	0.022	0.328	0.594	2.045
%RSD		53.290	70.340	15.210	45.870	59.030	11.860	81.250	59.010	178.600

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	0.016	0.055	0.064	-0.009	0.073	0.002	90%	0.675	0.005
2	17:23:30	0.006	0.061	0.059	0.030	0.029	0.002	90%	-0.541	-0.001
3	17:24:38	0.074	0.032	0.055	0.062	0.064	-0.007	88%	0.274	-0.001
x		0.032	0.050	0.059	0.028	0.055	-0.001	89%	0.136	0.001
σ		0.037	0.015	0.005	0.036	0.023	0.005	1%	0.620	0.003
%RSD		116.000	30.910	7.872	127.600	42.110	709.900	1	454.800	547.600

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	-0.363	0.672	-0.005	0.027	-0.035	-0.003	1.180	1.260	92%
2	17:23:30	0.171	-0.544	0.062	-0.033	-0.049	0.003	1.235	1.367	91%
3	17:24:38	-0.228	0.267	0.002	0.003	-0.039	-0.007	1.376	1.386	91%
x		-0.140	0.132	0.020	-0.001	-0.041	-0.002	1.264	1.337	91%
σ		0.278	0.619	0.037	0.030	0.007	0.005	0.101	0.068	1%
%RSD		198.600	470.400	187.300	2885.000	18.220	213.400	7.977	5.084	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:22	92%	-0.018	-0.016	-0.011	-0.029	-0.018	91%	0.369
2	17:23:30	92%	-0.020	-0.018	-0.026	-0.029	-0.020	91%	0.358
3	17:24:38	91%	-0.014	-0.019	-0.032	-0.039	-0.028	90%	0.366
x		92%	-0.017	-0.018	-0.023	-0.033	-0.022	90%	0.364
σ		1%	0.003	0.002	0.011	0.006	0.005	1%	0.006
%RSD		1	17.750	10.290	45.740	17.900	23.520	1	1.515

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	88%	-0.023	61.190	0.000	10590.000	1901.000	1824.000	1840.000	-1.191
2	17:31:25	87%	-0.050	65.540	0.000	10520.000	1895.000	1807.000	1868.000	-1.129
3	17:32:34	85%	-0.059	68.190	0.000	10560.000	1896.000	1837.000	1879.000	-1.023
x		87%	-0.044	64.970	0.000	10560.000	1897.000	1823.000	1862.000	-1.114
σ		1%	0.019	3.530	0.000	32.430	3.430	14.870	19.740	0.085
%RSD		2	42.230	5.433	0.000	0.307	0.181	0.816	1.060	7.650

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	1017.000	-3.294	0.000	0.000	286.500	6248.000	6824.000	85%	0.027
2	17:31:25	1033.000	-4.669	0.000	0.000	285.800	6504.000	6832.000	84%	0.139
3	17:32:34	1029.000	-0.020	0.000	0.000	288.900	6656.000	6877.000	84%	0.141
x		1026.000	-2.661	0.000	0.000	287.100	6469.000	6844.000	84%	0.102
σ		8.637	2.388	0.000	0.000	1.648	206.300	28.180	1%	0.065
%RSD		0.842	89.760	0.000	0.000	0.574	3.188	0.412	1	64.040

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	1.685	0.438	29.720	1.448	-0.074	-3.482	26.970	-0.035	0.152
2	17:31:25	2.289	0.338	28.590	2.373	-0.068	-3.555	26.070	-0.027	0.135
3	17:32:34	2.553	0.447	27.610	3.285	-0.087	-3.604	25.470	-0.022	0.108
x		2.176	0.408	28.640	2.369	-0.077	-3.547	26.170	-0.028	0.131
σ		0.445	0.061	1.055	0.918	0.010	0.061	0.754	0.007	0.022
%RSD		20.440	14.910	3.684	38.770	12.710	1.723	2.881	23.390	16.920

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	2.282	2.219	0.594	0.582	1.189	0.131	0.885	1.185	-4.835
2	17:31:25	2.340	2.030	0.601	0.657	0.996	0.108	0.007	0.992	-3.230
3	17:32:34	2.323	2.526	0.598	0.541	-0.041	0.170	0.652	-0.040	3.563
x		2.315	2.258	0.598	0.593	0.714	0.136	0.515	0.712	-1.500
σ		0.030	0.250	0.004	0.059	0.661	0.031	0.455	0.659	4.458
%RSD		1.287	11.090	0.637	9.860	92.620	23.030	88.320	92.510	297.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	0.135	0.091	0.158	0.147	0.147	-0.007	86%	-0.558	0.015
2	17:31:25	0.181	0.097	0.223	0.208	0.147	0.003	86%	-0.567	0.013
3	17:32:34	0.114	0.143	0.147	0.097	0.141	0.012	85%	-1.828	0.003
x		0.143	0.111	0.176	0.151	0.145	0.003	86%	-0.984	0.011
σ		0.034	0.028	0.041	0.056	0.004	0.009	0%	0.731	0.007
%RSD		23.970	25.720	23.430	36.890	2.642	345.300	0	74.250	62.860

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	0.384	-0.567	0.012	-0.049	0.016	0.002	1.407	1.291	89%
2	17:31:25	0.188	-0.578	0.004	-0.019	-0.009	-0.007	1.362	1.459	90%
3	17:32:34	0.808	-1.838	0.015	-0.097	-0.039	-0.002	1.296	1.479	89%
x		0.460	-0.995	0.010	-0.055	-0.011	-0.002	1.355	1.410	89%
σ		0.317	0.731	0.006	0.040	0.028	0.004	0.056	0.103	1%
%RSD		68.850	73.470	55.000	71.730	260.800	179.600	4.113	7.321	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:17	90%	-0.012	-0.008	0.119	0.066	0.095	90%	0.240
2	17:31:25	91%	-0.007	-0.008	0.114	0.077	0.095	90%	0.256
3	17:32:34	90%	-0.014	-0.005	0.114	0.104	0.103	90%	0.256
x		90%	-0.011	-0.007	0.116	0.082	0.098	90%	0.250
σ		1%	0.004	0.002	0.003	0.020	0.005	0%	0.009
%RSD		1	32.000	24.080	2.542	24.030	4.948	0	3.748

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	82%	489.700	498.500	0.000	50930.000	50690.000	50160.000	50850.000	10100.000
2	17:39:19	82%	499.600	505.100	0.000	51650.000	51530.000	51280.000	51620.000	10340.000
3	17:40:27	83%	492.400	506.500	0.000	50430.000	49990.000	49450.000	50050.000	9860.000
x		82%	493.900	503.400	0.000	51000.000	50740.000	50300.000	50840.000	10100.000
σ		1%	5.109	4.272	0.000	615.900	767.200	922.000	781.200	241.900
%RSD		1	1.035	0.849	0.000	1.208	1.512	1.833	1.537	2.395

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	509.200	9682.000	0.000	0.000	25270.000	52280.000	49110.000	83%	491.300
2	17:39:19	533.700	9853.000	0.000	0.000	25950.000	53910.000	50110.000	82%	501.800
3	17:40:27	513.600	9603.000	0.000	0.000	24870.000	51170.000	48720.000	85%	487.700
x		518.800	9713.000	0.000	0.000	25360.000	52450.000	49310.000	83%	493.600
σ		13.070	127.400	0.000	0.000	546.900	1381.000	716.500	2%	7.359
%RSD		2.520	1.312	0.000	0.000	2.156	2.634	1.453	2	1.491

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	489.900	492.800	24.140	25600.000	990.400	25220.000	25530.000	492.600	490.500
2	17:39:19	493.800	498.600	33.320	26120.000	1014.000	25650.000	25820.000	499.000	497.300
3	17:40:27	480.400	484.500	22.480	25270.000	991.500	25090.000	24750.000	484.800	481.900
x		488.000	492.000	26.640	25660.000	998.700	25320.000	25370.000	492.100	489.900
σ		6.877	7.091	5.836	428.400	13.430	294.800	555.100	7.098	7.724
%RSD		1.409	1.441	21.900	1.670	1.344	1.164	2.188	1.442	1.577

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	975.700	974.000	1008.000	493.100	497.200	-1.847	484.000	495.700	-0.021
2	17:39:19	996.200	1003.000	1029.000	497.500	499.000	-0.876	499.500	496.900	7.257
3	17:40:27	969.500	978.600	1002.000	484.000	485.700	-1.111	485.400	484.600	1.630
x		980.500	985.100	1013.000	491.500	493.900	-1.278	489.600	492.400	2.956
σ		14.000	15.440	14.460	6.888	7.207	0.507	8.573	6.794	3.816
%RSD		1.427	1.567	1.427	1.401	1.459	39.660	1.751	1.380	129.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	495.400	499.000	500.100	491.300	495.300	-0.002	83%	506.700	501.600
2	17:39:19	501.400	504.500	505.800	507.600	510.400	-0.002	83%	526.100	513.800
3	17:40:27	491.800	494.600	500.600	497.900	498.600	0.007	84%	497.700	497.800
x		496.200	499.400	502.200	498.900	501.400	0.001	83%	510.200	504.400
σ		4.859	4.949	3.168	8.183	7.947	0.005	1%	14.510	8.363
%RSD		0.979	0.991	0.631	1.640	1.585	414.000	1	2.844	1.658

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	9.187	506.400	506.400	506.700	503.000	502.500	2499.000	2477.000	89%
2	17:39:19	11.740	526.100	506.000	505.200	513.400	515.700	2542.000	2525.000	88%
3	17:40:27	5.754	497.500	499.500	506.900	497.100	502.800	2475.000	2461.000	90%
x		8.894	510.000	504.000	506.300	504.500	507.000	2505.000	2488.000	89%
σ		3.005	14.620	3.858	0.890	8.259	7.561	33.990	33.050	1%
%RSD		33.780	2.867	0.766	0.176	1.637	1.491	1.357	1.328	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:38:11	90%	502.100	504.700	507.500	505.000	504.500	87%	522.900
2	17:39:19	91%	503.700	509.100	512.800	512.000	509.500	88%	518.700
3	17:40:27	92%	498.500	501.300	509.200	509.000	503.700	89%	508.800
x		91%	501.400	505.000	509.800	508.700	505.900	88%	516.800
σ		1%	2.696	3.921	2.696	3.522	3.144	1%	7.214
%RSD		1	0.538	0.776	0.529	0.693	0.622	1	1.396

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	85%	0.398	14.330	0.000	114.700	36.770	34.270	36.640	5.389
2	17:47:12	85%	0.211	12.000	0.000	67.140	19.890	21.730	20.230	2.739
3	17:48:20	86%	0.181	8.639	0.000	48.220	10.250	9.162	11.640	1.474
x		85%	0.263	11.650	0.000	76.680	22.300	21.720	22.840	3.201
σ		0%	0.117	2.860	0.000	34.240	13.420	12.560	12.700	1.998
%RSD		1	44.630	24.540	0.000	44.650	60.200	57.800	55.600	62.420

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	1.537	11.350	0.000	0.000	78.060	34.100	54.410	86%	0.496
2	17:47:12	2.599	6.078	0.000	0.000	55.720	20.510	29.930	88%	0.415
3	17:48:20	0.799	9.348	0.000	0.000	53.830	8.812	18.460	85%	0.173
x		1.645	8.927	0.000	0.000	62.530	21.140	34.270	86%	0.361
σ		0.904	2.663	0.000	0.000	13.480	12.650	18.360	1%	0.168
%RSD		54.980	29.830	0.000	0.000	21.550	59.860	53.590	1	46.570

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	0.129	0.349	20.790	15.750	0.624	11.530	15.820	0.343	0.345
2	17:47:12	-0.324	0.180	20.250	9.528	0.381	6.037	14.400	0.191	0.273
3	17:48:20	0.027	0.117	19.790	9.420	0.298	4.314	13.910	0.156	0.141
x		-0.056	0.215	20.280	11.570	0.434	7.293	14.710	0.230	0.253
σ		0.237	0.120	0.501	3.623	0.170	3.768	0.991	0.100	0.103
%RSD		423.800	55.920	2.473	31.320	39.020	51.660	6.737	43.350	40.900

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	0.707	0.651	0.653	0.471	0.838	0.046	0.833	0.835	-3.104
2	17:47:12	0.355	0.355	0.423	0.005	0.310	0.139	0.190	0.310	-3.267
3	17:48:20	0.227	0.226	0.347	0.366	0.405	0.050	-0.424	0.404	0.103
x		0.430	0.410	0.475	0.281	0.518	0.078	0.200	0.516	-2.089
σ		0.248	0.218	0.159	0.244	0.282	0.052	0.628	0.280	1.900
%RSD		57.800	53.080	33.590	86.970	54.400	66.970	314.600	54.320	90.960

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	0.622	0.738	0.631	0.781	0.552	-0.007	88%	1.366	0.489
2	17:47:12	0.338	0.488	0.330	0.436	0.411	0.007	89%	-0.556	0.277
3	17:48:20	0.380	0.291	0.320	0.346	0.271	-0.002	87%	0.449	0.197
x		0.447	0.506	0.427	0.521	0.411	-0.001	88%	0.419	0.321
σ		0.153	0.224	0.177	0.230	0.140	0.007	1%	0.961	0.151
%RSD		34.320	44.270	41.390	44.120	34.180	1152.000	1	229.300	46.990

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	-0.700	1.361	0.480	0.365	0.578	0.829	2.143	1.808	90%
2	17:47:12	0.376	-0.562	0.239	0.248	0.378	0.541	1.038	1.099	90%
3	17:48:20	-0.115	0.444	0.173	0.083	0.264	0.423	0.952	0.729	89%
x		-0.147	0.414	0.297	0.232	0.407	0.598	1.378	1.212	90%
σ		0.538	0.962	0.162	0.142	0.159	0.208	0.664	0.548	1%
%RSD		367.200	232.100	54.320	61.060	39.050	34.850	48.220	45.200	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:04	90%	0.536	0.537	0.356	0.394	0.368	92%	0.327
2	17:47:12	90%	0.277	0.256	0.236	0.198	0.226	92%	0.219
3	17:48:20	90%	0.149	0.153	0.134	0.154	0.136	91%	0.157
x		90%	0.321	0.316	0.242	0.249	0.244	91%	0.234
σ		0%	0.197	0.199	0.111	0.128	0.117	0%	0.086
%RSD		0	61.450	63.060	45.940	51.460	47.960	0	36.650

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	86%	0.246	1178.000	0.000	277500.000	37470.000	37390.000	37600.000	4.564
2	17:55:05	85%	0.090	1198.000	0.000	274200.000	37030.000	36730.000	36580.000	1.423
3	17:56:13	86%	0.097	1200.000	0.000	273200.000	36540.000	36680.000	36680.000	2.430
x		86%	0.144	1192.000	0.000	275000.000	37010.000	36930.000	36950.000	2.806
σ		1%	0.088	12.510	0.000	2244.000	463.700	394.100	565.000	1.603
%RSD		1	61.130	1.049	0.000	0.816	1.253	1.067	1.529	57.150

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	23310.000	5.079	0.000	0.000	6510.000	153900.000	167600.000	82%	2.764
2	17:55:05	23150.000	-3.391	0.000	0.000	6393.000	150000.000	163500.000	85%	2.300
3	17:56:13	23070.000	0.369	0.000	0.000	6379.000	149900.000	164600.000	85%	2.505
x		23180.000	0.686	0.000	0.000	6427.000	151300.000	165200.000	84%	2.523
σ		118.500	4.244	0.000	0.000	71.880	2284.000	2152.000	2%	0.232
%RSD		0.511	618.900	0.000	0.000	1.118	1.510	1.302	2	9.206

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	64.490	33.120	136.000	25.320	1.387	16.690	714.400	0.167	1.764
2	17:55:05	59.290	31.740	140.600	17.040	1.278	9.659	669.900	0.056	1.606
3	17:56:13	59.510	31.670	146.500	17.490	1.226	11.750	658.600	0.095	1.660
x		61.090	32.180	141.000	19.950	1.297	12.700	681.000	0.106	1.677
σ		2.939	0.818	5.279	4.658	0.082	3.612	29.490	0.056	0.081
%RSD		4.811	2.542	3.743	23.350	6.303	28.440	4.331	52.760	4.809

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	1.593	1.712	3.681	10.690	16.020	0.767	9.375	16.080	-0.473
2	17:55:05	1.281	1.499	3.322	10.120	13.030	0.927	10.720	13.080	-2.574
3	17:56:13	1.358	1.598	3.393	9.850	13.390	1.026	9.747	13.420	-1.827
x		1.411	1.603	3.466	10.220	14.150	0.907	9.949	14.190	-1.624
σ		0.162	0.107	0.190	0.431	1.633	0.130	0.697	1.641	1.065
%RSD		11.490	6.661	5.485	4.216	11.540	14.370	7.008	11.560	65.570

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	1.331	1.670	1.679	1.495	1.596	0.019	77%	0.504	0.103
2	17:55:05	1.608	1.313	1.394	1.868	1.379	0.003	79%	-0.021	0.107
3	17:56:13	1.446	1.388	1.423	1.575	1.367	-0.002	80%	-1.714	0.070
x		1.462	1.457	1.498	1.646	1.448	0.007	78%	-0.411	0.093
σ		0.139	0.189	0.157	0.197	0.129	0.011	2%	1.159	0.020
%RSD		9.540	12.940	10.480	11.940	8.910	155.400	2	282.300	21.760

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	-0.334	0.482	0.073	0.335	0.311	0.270	35.290	35.260	84%
2	17:55:05	0.069	-0.040	0.062	0.125	0.176	0.206	34.730	33.650	86%
3	17:56:13	0.900	-1.732	0.048	0.002	0.188	0.208	33.740	33.730	87%
x		0.212	-0.430	0.061	0.154	0.225	0.228	34.590	34.220	85%
σ		0.629	1.157	0.013	0.169	0.075	0.036	0.787	0.906	1%
%RSD		296.800	269.000	21.190	109.700	33.290	15.960	2.277	2.649	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:53:57	85%	0.253	0.267	0.338	0.321	0.334	80%	8.459
2	17:55:05	87%	0.093	0.091	0.178	0.185	0.192	83%	8.138
3	17:56:13	87%	0.097	0.102	0.206	0.185	0.197	83%	8.096
x		86%	0.148	0.153	0.241	0.230	0.241	82%	8.231
σ		1%	0.092	0.099	0.085	0.079	0.080	2%	0.199
%RSD		2	62.010	64.540	35.370	34.190	33.280	2	2.411

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	84%	-0.012	1256.000	0.000	277500.000	37380.000	37130.000	36970.000	1.669
2	18:02:58	87%	0.014	1217.000	0.000	273100.000	36730.000	36260.000	36680.000	1.165
3	18:04:06	89%	0.065	1191.000	0.000	266200.000	35790.000	35480.000	35440.000	1.165
x		87%	0.022	1221.000	0.000	272300.000	36640.000	36290.000	36360.000	1.333
σ		2%	0.039	32.660	0.000	5718.000	803.800	824.700	811.200	0.291
%RSD		3	177.600	2.674	0.000	2.100	2.194	2.273	2.231	21.850

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	23610.000	0.335	0.000	0.000	6473.000	149900.000	165500.000	84%	2.495
2	18:02:58	23110.000	-2.791	0.000	0.000	6476.000	149600.000	165900.000	83%	2.691
3	18:04:06	22870.000	-1.554	0.000	0.000	6270.000	147100.000	161100.000	86%	2.183
x		23190.000	-1.337	0.000	0.000	6406.000	148800.000	164200.000	84%	2.456
σ		380.100	1.574	0.000	0.000	117.900	1524.000	2653.000	1%	0.256
%RSD		1.639	117.800	0.000	0.000	1.841	1.024	1.616	1	10.440

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	62.770	32.820	143.900	14.410	1.200	11.070	647.200	0.067	1.792
2	18:02:58	63.120	32.830	148.100	18.950	1.278	9.149	650.000	0.015	1.694
3	18:04:06	59.600	32.690	152.700	15.110	1.200	8.192	608.800	0.076	1.657
x		61.830	32.780	148.200	16.160	1.226	9.470	635.400	0.052	1.714
σ		1.942	0.078	4.405	2.443	0.045	1.464	23.010	0.033	0.070
%RSD		3.140	0.239	2.971	15.120	3.659	15.460	3.621	62.240	4.061

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	1.382	1.651	4.924	11.740	15.440	0.808	10.830	15.510	0.292
2	18:02:58	1.329	1.539	4.618	10.340	13.930	1.033	9.633	13.960	1.691
3	18:04:06	1.171	1.435	4.410	9.674	11.690	1.181	10.690	11.730	1.466
x		1.294	1.542	4.651	10.590	13.690	1.008	10.380	13.730	1.150
σ		0.110	0.108	0.259	1.056	1.888	0.188	0.654	1.901	0.751
%RSD		8.508	7.021	5.560	9.976	13.790	18.640	6.296	13.840	65.320

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	1.251	1.469	1.557	1.357	1.328	0.004	77%	-1.840	0.052
2	18:02:58	1.147	1.084	1.160	1.223	1.286	-0.002	79%	0.519	0.051
3	18:04:06	1.257	1.400	1.264	1.474	1.204	-0.007	79%	-1.792	0.046
x		1.219	1.318	1.327	1.351	1.273	-0.001	78%	-1.037	0.050
σ		0.062	0.206	0.206	0.126	0.063	0.005	1%	1.348	0.003
%RSD		5.071	15.600	15.510	9.292	4.938	345.800	2	130.000	6.746

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	0.893	-1.859	0.080	-0.040	0.129	0.156	33.710	35.120	84%
2	18:02:58	-0.268	0.497	0.067	0.052	0.061	0.119	33.120	34.360	87%
3	18:04:06	0.867	-1.812	0.041	-0.076	0.086	0.108	32.970	33.010	87%
x		0.498	-1.058	0.063	-0.021	0.092	0.128	33.270	34.160	86%
σ		0.663	1.347	0.020	0.066	0.034	0.025	0.392	1.067	2%
%RSD		133.300	127.300	31.840	311.700	37.020	19.810	1.177	3.123	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:01:50	86%	0.097	0.087	0.199	0.193	0.205	81%	8.403
2	18:02:58	88%	0.029	0.035	0.134	0.139	0.143	83%	8.228
3	18:04:06	89%	0.036	0.020	0.161	0.120	0.139	83%	8.186
x		87%	0.054	0.047	0.165	0.151	0.162	83%	8.273
σ		2%	0.037	0.035	0.033	0.038	0.037	1%	0.115
%RSD		2	68.570	74.950	20.020	25.280	22.790	2	1.390

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	83%	40.070	1246.000	0.000	269000.000	36300.000	36050.000	35830.000	1623.000
2	18:10:51	85%	38.370	1184.000	0.000	257700.000	34820.000	34290.000	34460.000	1526.000
3	18:11:59	86%	37.890	1210.000	0.000	260900.000	35160.000	34970.000	35190.000	1593.000
x		85%	38.770	1213.000	0.000	262500.000	35420.000	35110.000	35160.000	1581.000
σ		2%	1.146	30.830	0.000	5840.000	774.000	888.700	686.300	49.400
%RSD		2	2.956	2.541	0.000	2.225	2.185	2.532	1.952	3.125

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	22900.000	2.105	0.000	0.000	6295.000	146800.000	161700.000	84%	2.621
2	18:10:51	21920.000	2.990	0.000	0.000	6088.000	141500.000	154400.000	87%	2.606
3	18:11:59	23040.000	2.160	0.000	0.000	6153.000	145500.000	158000.000	88%	2.513
x		22620.000	2.418	0.000	0.000	6178.000	144600.000	158000.000	87%	2.580
σ		613.200	0.496	0.000	0.000	105.900	2795.000	3681.000	2%	0.059
%RSD		2.711	20.500	0.000	0.000	1.714	1.933	2.329	2	2.269

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	449.500	183.100	183.000	883.300	405.800	827.000	1417.000	400.300	389.000
2	18:10:51	431.500	173.600	180.800	859.300	391.000	792.400	1312.000	384.800	374.200
3	18:11:59	445.600	178.200	188.200	877.700	396.500	803.800	1349.000	393.900	380.500
x		442.200	178.300	184.000	873.400	397.700	807.700	1359.000	393.000	381.200
σ		9.480	4.776	3.833	12.550	7.477	17.630	53.190	7.792	7.466
%RSD		2.144	2.678	2.083	1.437	1.880	2.183	3.913	1.983	1.958

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	199.300	202.600	412.000	46.980	23.300	0.997	19.750	23.340	-1.395
2	18:10:51	193.300	194.000	410.700	43.480	22.320	1.274	18.850	22.380	1.838
3	18:11:59	196.800	198.800	411.900	46.860	25.000	1.042	18.060	25.100	-0.145
x		196.400	198.500	411.500	45.770	23.540	1.104	18.890	23.610	0.099
σ		2.998	4.336	0.749	1.985	1.359	0.149	0.844	1.381	1.630
%RSD		1.526	2.185	0.182	4.337	5.771	13.450	4.470	5.849	1645.000

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	1.472	1.240	1.184	1.316	1.307	0.003	80%	43.050	44.930
2	18:10:51	1.824	1.407	1.235	1.409	1.319	0.003	82%	42.360	43.660
3	18:11:59	1.606	1.267	1.259	1.342	1.346	-0.002	81%	41.310	44.960
x		1.634	1.305	1.226	1.356	1.324	0.002	81%	42.240	44.520
σ		0.178	0.090	0.038	0.048	0.020	0.003	1%	0.877	0.739
%RSD		10.860	6.881	3.116	3.558	1.499	183.200	1	2.075	1.661

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	0.023	42.980	45.800	44.600	0.085	91.440	1749.000	1743.000	87%
2	18:10:51	-0.857	42.270	43.570	42.560	0.012	86.890	1661.000	1670.000	91%
3	18:11:59	0.990	41.230	45.450	43.700	0.087	88.790	1734.000	1723.000	90%
x		0.052	42.160	44.940	43.620	0.061	89.040	1715.000	1712.000	89%
σ		0.924	0.881	1.202	1.021	0.043	2.289	46.780	37.560	2%
%RSD		1770.000	2.090	2.674	2.341	70.050	2.571	2.728	2.193	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:09:43	89%	44.450	45.530	19.180	17.330	18.030	84%	8.040
2	18:10:51	93%	43.220	43.440	18.330	17.010	17.350	88%	7.615
3	18:11:59	90%	44.280	44.960	18.810	17.200	17.630	87%	7.860
x		90%	43.980	44.640	18.770	17.180	17.670	86%	7.838
σ		2%	0.666	1.077	0.430	0.162	0.346	2%	0.214
%RSD		2	1.514	2.413	2.290	0.946	1.959	2	2.723

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	87%	-0.032	279.100	0.000	58820.000	7954.000	7855.000	7935.000	-1.033
2	18:18:46	88%	0.039	272.400	0.000	57540.000	7822.000	7565.000	7730.000	-0.885
3	18:19:54	84%	-0.040	278.900	0.000	58340.000	8006.000	7777.000	7873.000	-0.617
x		86%	-0.011	276.800	0.000	58230.000	7927.000	7733.000	7846.000	-0.845
σ		2%	0.044	3.786	0.000	647.900	95.090	150.200	105.000	0.211
%RSD		3	393.100	1.368	0.000	1.113	1.200	1.943	1.338	24.950

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	4950.000	2.215	0.000	0.000	1403.000	31750.000	34070.000	85%	0.689
2	18:18:46	4870.000	1.317	0.000	0.000	1355.000	31340.000	33280.000	85%	0.355
3	18:19:54	4956.000	0.439	0.000	0.000	1363.000	31620.000	34000.000	85%	0.392
x		4925.000	1.323	0.000	0.000	1374.000	31570.000	33780.000	85%	0.479
σ		47.980	0.888	0.000	0.000	25.880	208.100	436.800	0%	0.183
%RSD		0.974	67.110	0.000	0.000	1.884	0.659	1.293	0	38.190

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	13.040	6.712	62.110	2.192	0.245	-3.953	143.100	0.061	0.468
2	18:18:46	11.680	6.648	61.880	3.295	0.177	-3.765	141.300	0.055	0.274
3	18:19:54	12.830	6.925	59.310	1.782	0.309	-2.607	141.000	0.062	0.295
x		12.520	6.762	61.100	2.423	0.244	-3.442	141.800	0.059	0.346
σ		0.732	0.145	1.557	0.783	0.066	0.729	1.133	0.004	0.107
%RSD		5.844	2.147	2.548	32.290	27.060	21.170	0.799	6.783	30.860

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	0.168	0.325	1.372	2.188	3.211	0.276	1.863	3.201	3.093
2	18:18:46	0.187	0.360	1.432	2.198	2.937	0.266	2.497	2.926	1.317
3	18:19:54	0.220	0.229	1.435	1.903	3.607	0.333	2.056	3.598	0.757
x		0.191	0.304	1.413	2.096	3.252	0.292	2.139	3.242	1.723
σ		0.026	0.068	0.035	0.168	0.337	0.036	0.325	0.338	1.220
%RSD		13.800	22.310	2.510	7.991	10.350	12.350	15.200	10.430	70.800

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	0.137	0.220	0.284	0.323	0.226	0.003	85%	0.891	0.038
2	18:18:46	0.280	0.242	0.239	0.327	0.238	0.007	86%	0.969	0.036
3	18:19:54	0.137	0.202	0.250	0.252	0.200	-0.002	85%	0.219	0.032
x		0.185	0.221	0.258	0.301	0.221	0.003	85%	0.693	0.035
σ		0.083	0.020	0.024	0.042	0.019	0.004	1%	0.413	0.003
%RSD		44.890	9.121	9.247	13.990	8.778	170.800	1	59.530	8.598

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	-0.529	0.880	0.023	0.046	-0.024	0.072	7.376	7.223	89%
2	18:18:46	-0.567	0.957	0.025	0.050	-0.050	0.036	6.961	7.134	91%
3	18:19:54	-0.129	0.205	0.017	0.017	-0.026	0.048	6.549	6.919	90%
x		-0.409	0.680	0.022	0.038	-0.033	0.052	6.962	7.092	90%
σ		0.243	0.414	0.004	0.018	0.015	0.018	0.414	0.157	1%
%RSD		59.400	60.810	19.390	47.180	43.520	35.230	5.940	2.207	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:37	90%	0.135	0.144	-0.009	0.001	-0.001	88%	1.610
2	18:18:46	92%	0.083	0.100	0.014	-0.002	0.007	90%	1.565
3	18:19:54	91%	0.069	0.082	0.003	-0.013	0.003	90%	1.561
x		91%	0.096	0.109	0.003	-0.005	0.003	89%	1.579
σ		1%	0.034	0.032	0.011	0.007	0.004	1%	0.027
%RSD		1	36.030	29.520	415.600	161.800	116.800	1	1.700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	88%	-0.024	65.300	0.000	11580.000	1567.000	1512.000	1549.000	-1.277
2	18:26:40	84%	-0.003	72.580	0.000	12680.000	1735.000	1653.000	1695.000	-1.209
3	18:27:48	86%	-0.013	71.940	0.000	12090.000	1630.000	1570.000	1593.000	-1.392
x		86%	-0.013	69.940	0.000	12120.000	1644.000	1578.000	1612.000	-1.292
σ		2%	0.010	4.031	0.000	549.000	84.670	71.030	74.900	0.093
%RSD		2	79.330	5.764	0.000	4.531	5.151	4.501	4.646	7.158

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	956.300	1.620	0.000	0.000	305.300	6130.000	6630.000	87%	0.275
2	18:26:40	1061.000	2.542	0.000	0.000	344.800	6853.000	7321.000	82%	-0.008
3	18:27:48	987.500	2.007	0.000	0.000	317.800	6483.000	6866.000	85%	0.064
x		1002.000	2.056	0.000	0.000	322.600	6488.000	6939.000	85%	0.111
σ		53.860	0.463	0.000	0.000	20.160	361.600	350.800	2%	0.147
%RSD		5.377	22.530	0.000	0.000	6.250	5.572	5.055	3	133.200

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	1.806	1.459	33.100	-1.606	0.065	-4.125	25.740	0.056	0.052
2	18:26:40	3.594	1.639	32.760	3.716	0.049	-2.494	23.940	0.031	0.141
3	18:27:48	2.929	1.320	31.110	1.559	-0.005	-4.033	23.490	0.041	0.056
x		2.776	1.473	32.320	1.223	0.036	-3.550	24.390	0.043	0.083
σ		0.904	0.160	1.062	2.677	0.037	0.916	1.189	0.012	0.050
%RSD		32.550	10.880	3.285	218.900	101.800	25.810	4.873	29.240	60.100

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	-0.022	0.111	0.106	0.472	0.595	0.166	-0.066	0.593	-2.502
2	18:26:40	-0.013	0.116	-0.042	0.277	1.009	0.212	0.519	1.005	-4.562
3	18:27:48	-0.039	0.022	0.110	0.206	0.356	0.207	0.139	0.355	0.184
x		-0.024	0.083	0.058	0.319	0.653	0.195	0.198	0.651	-2.293
σ		0.013	0.053	0.087	0.138	0.330	0.025	0.297	0.329	2.380
%RSD		54.200	63.800	149.900	43.260	50.560	12.790	150.100	50.490	103.800

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	0.018	0.050	0.054	0.061	0.041	-0.007	89%	-0.775	0.055
2	18:26:40	0.035	0.100	0.065	0.027	0.052	0.003	84%	-1.243	0.020
3	18:27:48	-0.002	0.071	0.033	0.054	0.027	0.003	86%	1.278	0.017
x		0.017	0.074	0.050	0.047	0.040	-0.000	86%	-0.247	0.031
σ		0.019	0.025	0.016	0.018	0.013	0.005	2%	1.341	0.021
%RSD		110.500	33.910	32.210	38.290	31.510	1413.000	3	543.900	67.910

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	0.288	-0.782	0.032	-0.047	-0.019	0.031	1.442	1.611	91%
2	18:26:40	0.657	-1.252	0.008	-0.071	-0.047	0.034	2.023	1.778	87%
3	18:27:48	-0.722	1.272	0.019	0.085	-0.000	0.015	1.544	1.651	89%
x		0.074	-0.254	0.020	-0.011	-0.022	0.027	1.670	1.680	89%
σ		0.714	1.343	0.012	0.084	0.024	0.010	0.310	0.087	2%
%RSD		961.100	528.500	60.330	751.700	107.500	38.420	18.570	5.203	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:32	93%	0.029	0.033	-0.042	-0.033	-0.029	92%	0.285
2	18:26:40	88%	0.041	0.030	-0.024	-0.016	-0.017	88%	0.325
3	18:27:48	91%	0.015	0.020	-0.033	-0.040	-0.030	91%	0.294
x		90%	0.028	0.027	-0.033	-0.030	-0.025	90%	0.301
σ		2%	0.013	0.007	0.009	0.012	0.007	2%	0.021
%RSD		3	44.490	25.530	28.060	40.540	28.880	2	6.943

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	85%	-0.022	64.440	0.000	11750.000	1606.000	1545.000	1572.000	-1.281
2	18:34:35	87%	-0.060	62.930	0.000	11540.000	1567.000	1507.000	1528.000	-1.443
3	18:35:43	86%	-0.032	60.950	0.000	11930.000	1618.000	1574.000	1601.000	-1.398
x		86%	-0.038	62.770	0.000	11740.000	1597.000	1542.000	1567.000	-1.374
σ		1%	0.019	1.750	0.000	191.700	26.760	33.350	36.520	0.084
%RSD		1	51.030	2.788	0.000	1.633	1.676	2.163	2.330	6.094

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	986.100	-0.361	0.000	0.000	304.600	6270.000	6638.000	86%	0.134
2	18:34:35	975.600	0.917	0.000	0.000	308.900	6100.000	6500.000	85%	0.174
3	18:35:43	1002.000	-1.250	0.000	0.000	320.300	6512.000	6853.000	83%	-0.046
x		988.000	-0.231	0.000	0.000	311.300	6294.000	6664.000	85%	0.087
σ		13.450	1.089	0.000	0.000	8.133	207.300	177.800	2%	0.117
%RSD		1.361	471.300	0.000	0.000	2.613	3.293	2.668	2	134.000

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	2.216	1.504	27.920	-0.807	-0.021	-4.348	29.280	0.024	0.092
2	18:34:35	2.277	1.400	27.010	0.598	0.024	-4.998	24.230	-0.006	0.065
3	18:35:43	2.774	1.412	26.710	1.457	-0.011	-3.962	29.590	0.010	0.031
x		2.423	1.439	27.210	0.416	-0.003	-4.436	27.700	0.009	0.063
σ		0.306	0.057	0.630	1.143	0.024	0.524	3.008	0.015	0.030
%RSD		12.630	3.971	2.313	274.500	950.400	11.810	10.860	159.000	48.490

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	-0.075	0.051	0.223	0.351	1.179	0.145	0.118	1.176	-3.802
2	18:34:35	-0.066	0.123	-0.026	0.620	0.212	0.114	0.001	0.212	0.359
3	18:35:43	-0.069	0.106	0.134	0.569	0.705	0.139	0.352	0.702	-3.842
x		-0.070	0.093	0.110	0.513	0.699	0.133	0.157	0.697	-2.428
σ		0.004	0.037	0.126	0.143	0.484	0.017	0.179	0.482	2.414
%RSD		6.159	39.930	114.100	27.860	69.270	12.650	113.900	69.180	99.420

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	-0.036	0.071	0.062	0.044	0.038	-0.002	87%	-0.928	0.025
2	18:34:35	0.052	0.039	0.038	0.072	0.034	-0.007	88%	0.535	0.015
3	18:35:43	0.046	0.067	0.016	0.037	0.072	-0.007	84%	0.952	0.024
x		0.021	0.059	0.038	0.051	0.048	-0.005	87%	0.186	0.021
σ		0.049	0.018	0.023	0.019	0.021	0.003	2%	0.987	0.006
%RSD		240.300	29.980	59.850	36.950	43.150	52.040	2	529.800	26.870

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	0.432	-0.938	0.023	-0.055	-0.056	0.010	1.351	1.422	90%
2	18:34:35	-0.357	0.530	0.008	0.026	-0.042	0.006	1.086	1.373	90%
3	18:35:43	-0.490	0.939	0.015	0.041	-0.070	0.013	1.621	1.387	89%
x		-0.139	0.177	0.015	0.004	-0.056	0.010	1.352	1.394	90%
σ		0.498	0.987	0.007	0.052	0.014	0.004	0.268	0.025	1%
%RSD		359.400	557.700	49.380	1229.000	24.810	39.640	19.790	1.793	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:33:27	91%	0.007	0.010	-0.028	-0.028	-0.024	91%	0.303
2	18:34:35	92%	0.013	0.008	-0.031	-0.039	-0.031	92%	0.284
3	18:35:43	90%	0.010	0.003	-0.029	-0.045	-0.030	90%	0.304
x		91%	0.010	0.007	-0.030	-0.037	-0.028	91%	0.297
σ		1%	0.003	0.004	0.001	0.008	0.004	1%	0.011
%RSD		1	32.380	51.910	5.011	22.930	13.300	1	3.729

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	86%	1.616	57.450	0.000	11800.000	1604.000	1519.000	1560.000	72.370
2	18:42:29	85%	1.859	63.020	0.000	11990.000	1637.000	1566.000	1592.000	74.030
3	18:43:37	86%	1.906	66.670	0.000	11780.000	1623.000	1557.000	1605.000	73.730
x		86%	1.794	62.380	0.000	11860.000	1621.000	1547.000	1586.000	73.380
σ		1%	0.156	4.646	0.000	119.000	16.200	24.690	23.190	0.887
%RSD		1	8.669	7.448	0.000	1.004	0.999	1.596	1.463	1.209

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	985.200	5.357	0.000	0.000	313.200	6396.000	6744.000	83%	-0.008
2	18:42:29	994.100	6.481	0.000	0.000	314.500	6767.000	6929.000	83%	-0.008
3	18:43:37	1002.000	3.363	0.000	0.000	305.100	6436.000	6848.000	84%	0.324
x		993.600	5.067	0.000	0.000	310.900	6533.000	6840.000	83%	0.103
σ		8.193	1.579	0.000	0.000	5.089	203.600	92.540	1%	0.192
%RSD		0.825	31.170	0.000	0.000	1.637	3.116	1.353	1	186.800

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	20.250	8.792	26.600	42.140	18.500	33.850	72.240	18.160	18.290
2	18:42:29	21.470	8.526	25.130	42.400	18.780	35.360	84.180	18.520	18.610
3	18:43:37	20.340	8.265	25.340	42.310	18.330	34.010	73.420	18.770	17.880
x		20.690	8.528	25.690	42.280	18.540	34.410	76.620	18.480	18.260
σ		0.683	0.264	0.798	0.134	0.230	0.830	6.579	0.309	0.363
%RSD		3.300	3.093	3.107	0.316	1.241	2.412	8.587	1.674	1.990

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	9.511	9.726	18.280	1.741	0.705	0.165	0.474	0.703	0.995
2	18:42:29	9.580	9.496	18.790	2.456	0.757	0.072	1.230	0.755	-0.538
3	18:43:37	8.956	8.829	17.660	1.720	0.155	0.196	0.629	0.155	1.367
x		9.349	9.351	18.240	1.972	0.539	0.144	0.778	0.537	0.608
σ		0.342	0.466	0.568	0.419	0.334	0.065	0.399	0.333	1.010
%RSD		3.660	4.985	3.112	21.250	61.870	44.910	51.330	61.870	166.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	0.093	-0.004	0.010	-0.015	0.060	0.012	84%	2.536	1.800
2	18:42:29	0.082	0.048	0.071	0.090	0.053	-0.007	84%	2.564	1.974
3	18:43:37	0.012	0.061	0.034	0.069	0.053	0.008	84%	0.941	1.888
x		0.062	0.035	0.038	0.048	0.055	0.004	84%	2.014	1.887
σ		0.044	0.035	0.031	0.055	0.004	0.010	0%	0.929	0.087
%RSD		70.670	98.520	79.870	115.600	8.013	221.200	0	46.130	4.600

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	-0.654	2.530	1.948	1.907	-0.021	3.734	75.050	73.080	87%
2	18:42:29	-0.115	2.564	1.887	1.802	-0.056	3.818	75.800	73.680	85%
3	18:43:37	0.411	0.935	1.904	1.761	-0.008	3.699	75.530	74.040	86%
x		-0.119	2.010	1.913	1.824	-0.028	3.750	75.460	73.600	86%
σ		0.532	0.931	0.032	0.075	0.025	0.061	0.378	0.485	1%
%RSD		446.300	46.310	1.667	4.129	86.770	1.622	0.501	0.659	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:21	86%	1.906	1.871	0.759	0.661	0.707	87%	0.302
2	18:42:29	87%	1.921	1.856	0.736	0.637	0.704	86%	0.290
3	18:43:37	88%	1.846	1.875	0.751	0.709	0.737	87%	0.289
x		87%	1.891	1.867	0.748	0.669	0.716	87%	0.294
σ		1%	0.039	0.010	0.012	0.037	0.018	0%	0.007
%RSD		1	2.087	0.542	1.562	5.511	2.520	1	2.371

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	89%	-0.033	18.100	0.000	2309.000	295.200	299.000	303.200	-1.517
2	18:50:25	90%	-0.016	18.220	0.000	2274.000	292.100	297.400	296.700	-1.403
3	18:51:33	90%	-0.024	17.010	0.000	2090.000	297.000	294.000	301.200	-1.667
x		90%	-0.024	17.770	0.000	2224.000	294.800	296.800	300.400	-1.529
σ		0%	0.009	0.667	0.000	117.500	2.483	2.555	3.306	0.133
%RSD		1	35.750	3.754	0.000	5.283	0.842	0.861	1.101	8.672

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	195.200	2.063	0.000	0.000	85.910	1237.000	1316.000	87%	0.060
2	18:50:25	182.100	2.115	0.000	0.000	85.230	1179.000	1263.000	87%	-0.012
3	18:51:33	180.100	-2.882	0.000	0.000	86.340	1264.000	1292.000	86%	-0.011
x		185.800	0.432	0.000	0.000	85.830	1227.000	1290.000	87%	0.013
σ		8.219	2.870	0.000	0.000	0.561	43.310	26.460	1%	0.041
%RSD		4.424	664.800	0.000	0.000	0.653	3.530	2.051	1	322.900

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	0.080	0.310	18.050	-0.741	-0.085	-5.241	6.646	-0.032	-0.078
2	18:50:25	0.136	0.287	17.970	-3.024	-0.108	-4.981	6.563	-0.014	-0.031
3	18:51:33	0.662	0.330	17.500	-1.511	-0.067	-4.380	6.083	-0.024	0.055
x		0.293	0.309	17.840	-1.759	-0.087	-4.868	6.431	-0.023	-0.018
σ		0.321	0.022	0.296	1.161	0.021	0.442	0.304	0.009	0.067
%RSD		109.700	6.961	1.661	66.030	23.780	9.081	4.727	39.900	370.800

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	-0.117	-0.043	-0.042	0.147	0.262	0.070	-0.020	0.261	-2.044
2	18:50:25	-0.091	-0.027	-0.009	-0.056	0.645	0.110	-0.594	0.643	-3.120
3	18:51:33	-0.119	-0.019	0.006	0.359	0.743	0.035	-0.038	0.741	-5.383
x		-0.109	-0.030	-0.015	0.150	0.550	0.072	-0.218	0.548	-3.516
σ		0.016	0.012	0.025	0.207	0.255	0.038	0.326	0.254	1.705
%RSD		14.480	41.420	160.900	138.300	46.290	52.870	150.000	46.220	48.490

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	0.018	-0.005	0.003	0.042	-0.000	0.002	88%	1.118	0.007
2	18:50:25	-0.048	-0.011	0.003	-0.027	-0.008	-0.007	87%	0.114	0.005
3	18:51:33	0.008	0.020	0.003	0.003	-0.019	-0.002	88%	-1.075	0.003
x		-0.007	0.001	0.003	0.006	-0.009	-0.002	88%	0.053	0.005
σ		0.036	0.017	0.000	0.035	0.009	0.004	0%	1.098	0.002
%RSD		498.900	1267.000	3.872	570.500	106.200	216.100	1	2087.000	41.590

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	-0.644	1.114	0.002	0.059	-0.030	-0.001	0.239	0.241	90%
2	18:50:25	-0.149	0.106	-0.005	0.003	-0.023	-0.007	0.194	0.262	90%
3	18:51:33	0.437	-1.085	0.002	-0.064	-0.020	-0.003	0.215	0.208	91%
x		-0.119	0.045	-0.000	-0.001	-0.024	-0.004	0.216	0.237	91%
σ		0.541	1.101	0.004	0.062	0.005	0.003	0.023	0.027	0%
%RSD		456.300	2440.000	751.000	7650.000	20.160	89.480	10.470	11.440	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:49:17	91%	0.001	0.005	-0.044	-0.045	-0.041	92%	0.036
2	18:50:25	90%	-0.006	-0.002	-0.046	-0.041	-0.040	91%	0.042
3	18:51:33	91%	-0.007	-0.002	-0.038	-0.032	-0.037	91%	0.048
x		91%	-0.004	0.000	-0.043	-0.039	-0.039	91%	0.042
σ		0%	0.005	0.004	0.004	0.007	0.002	0%	0.006
%RSD		0	116.200	1094.000	8.905	17.060	5.263	0	13.750

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	87%	-0.069	51.530	0.000	12700.000	3660.000	3559.000	3609.000	-1.049
2	18:58:21	89%	-0.024	49.170	0.000	12520.000	3595.000	3503.000	3521.000	-1.115
3	18:59:29	88%	-0.023	53.730	0.000	12640.000	3633.000	3527.000	3557.000	-1.004
x		88%	-0.039	51.480	0.000	12620.000	3629.000	3530.000	3562.000	-1.056
σ		1%	0.026	2.282	0.000	89.900	32.630	28.040	44.370	0.056
%RSD		1	67.350	4.434	0.000	0.712	0.899	0.794	1.245	5.286

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	910.500	5.091	0.000	0.000	433.200	13770.000	15050.000	85%	0.027
2	18:58:21	886.100	3.306	0.000	0.000	429.600	13970.000	14890.000	85%	0.175
3	18:59:29	909.300	3.394	0.000	0.000	430.700	13870.000	14930.000	85%	0.136
x		902.000	3.931	0.000	0.000	431.200	13870.000	14960.000	85%	0.113
σ		13.730	1.006	0.000	0.000	1.838	97.470	81.340	0%	0.077
%RSD		1.522	25.600	0.000	0.000	0.426	0.703	0.544	0	68.130

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	1.387	0.152	19.190	2.038	-0.065	-3.918	72.280	-0.029	0.028
2	18:58:21	1.372	0.093	19.460	0.322	-0.040	-3.984	73.200	-0.032	0.192
3	18:59:29	0.969	0.142	19.930	-0.716	-0.075	-4.000	67.210	-0.033	0.189
x		1.242	0.129	19.530	0.548	-0.060	-3.967	70.900	-0.031	0.136
σ		0.237	0.031	0.374	1.391	0.018	0.043	3.225	0.002	0.094
%RSD		19.100	24.330	1.916	253.800	29.420	1.095	4.549	7.251	68.530

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	0.133	0.269	0.742	0.746	1.637	0.015	0.669	1.632	-0.821
2	18:58:21	0.100	0.158	0.734	0.467	0.948	0.069	-0.018	0.945	-2.380
3	18:59:29	0.097	0.227	0.744	0.308	1.381	0.090	0.282	1.376	-2.933
x		0.110	0.218	0.740	0.507	1.322	0.058	0.311	1.318	-2.045
σ		0.020	0.056	0.005	0.222	0.348	0.039	0.345	0.347	1.095
%RSD		18.380	25.570	0.716	43.760	26.340	66.920	110.800	26.350	53.550

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	-0.035	-0.011	0.022	0.026	0.016	0.012	85%	-0.393	-0.001
2	18:58:21	-0.012	0.015	-0.002	0.087	0.012	-0.007	85%	0.007	-0.003
3	18:59:29	0.021	0.046	0.021	0.014	0.031	-0.002	86%	-0.291	0.005
x		-0.009	0.017	0.013	0.042	0.020	0.001	85%	-0.225	0.000
σ		0.028	0.028	0.014	0.039	0.010	0.010	1%	0.208	0.004
%RSD		309.100	170.200	102.200	92.960	49.140	835.200	1	92.190	2307.000

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	0.101	-0.401	-0.000	-0.025	-0.057	-0.000	0.863	0.967	88%
2	18:58:21	-0.096	-0.002	0.002	-0.003	-0.054	-0.000	0.825	0.836	88%
3	18:59:29	0.049	-0.296	-0.002	-0.028	-0.006	-0.002	1.105	0.938	88%
x		0.018	-0.233	-0.000	-0.019	-0.039	-0.001	0.931	0.914	88%
σ		0.102	0.207	0.002	0.014	0.029	0.001	0.152	0.069	0%
%RSD		567.100	88.960	758.400	72.020	74.290	165.200	16.320	7.523	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:57:12	88%	0.004	-0.005	-0.016	-0.032	-0.019	88%	0.479
2	18:58:21	89%	-0.015	-0.009	-0.029	-0.026	-0.020	88%	0.474
3	18:59:29	89%	-0.017	-0.004	-0.023	-0.032	-0.021	89%	0.464
x		89%	-0.009	-0.006	-0.023	-0.030	-0.020	88%	0.472
σ		1%	0.012	0.003	0.006	0.004	0.001	0%	0.008
%RSD		1	129.500	47.160	27.900	13.100	4.884	0	1.683

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	87%	-0.023	53.160	0.000	14420.000	2894.000	2764.000	2841.000	-1.743
2	19:06:17	85%	-0.032	56.020	0.000	14180.000	2879.000	2787.000	2847.000	-1.617
3	19:07:25	85%	-0.041	55.700	0.000	14440.000	2923.000	2797.000	2872.000	-1.924
x		86%	-0.032	54.960	0.000	14350.000	2899.000	2783.000	2853.000	-1.762
σ		1%	0.009	1.568	0.000	145.700	22.520	17.290	16.300	0.155
%RSD		1	27.630	2.852	0.000	1.015	0.777	0.621	0.571	8.774

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	1086.000	2.916	0.000	0.000	285.200	9774.000	10650.000	83%	0.142
2	19:06:17	1074.000	1.230	0.000	0.000	281.900	10050.000	10470.000	83%	0.141
3	19:07:25	1097.000	1.612	0.000	0.000	284.700	10140.000	10530.000	83%	0.067
x		1086.000	1.919	0.000	0.000	283.900	9987.000	10550.000	83%	0.117
σ		11.420	0.884	0.000	0.000	1.751	190.500	92.670	0%	0.043
%RSD		1.052	46.060	0.000	0.000	0.617	1.908	0.879	0	36.850

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	1.581	0.022	19.730	-0.929	-0.064	-3.347	51.350	-0.022	0.168
2	19:06:17	1.972	0.105	19.520	0.918	-0.112	-4.067	49.330	-0.007	0.080
3	19:07:25	1.269	0.027	20.510	1.831	-0.101	-3.973	54.990	-0.016	0.110
x		1.607	0.051	19.920	0.607	-0.092	-3.796	51.890	-0.015	0.119
σ		0.352	0.047	0.522	1.406	0.025	0.391	2.866	0.008	0.045
%RSD		21.920	90.640	2.622	231.800	27.320	10.310	5.524	50.070	37.580

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	-0.119	0.026	-0.078	0.662	1.007	0.036	0.555	1.004	0.655
2	19:06:17	-0.096	-0.015	-0.101	0.318	1.107	0.098	0.099	1.104	0.638
3	19:07:25	-0.057	0.010	-0.112	0.607	1.760	0.037	1.623	1.755	-3.368
x		-0.090	0.007	-0.097	0.529	1.292	0.057	0.759	1.288	-0.692
σ		0.031	0.020	0.017	0.185	0.409	0.036	0.783	0.407	2.318
%RSD		34.780	303.500	17.700	34.940	31.680	63.000	103.100	31.640	335.200

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	0.082	0.068	0.065	0.038	0.069	-0.007	83%	0.130	-0.001
2	19:06:17	-0.011	0.035	0.059	0.059	0.049	-0.007	83%	-0.489	-0.005
3	19:07:25	0.094	0.042	0.040	0.079	0.037	-0.002	84%	0.823	0.001
x		0.055	0.048	0.055	0.059	0.051	-0.005	84%	0.155	-0.002
σ		0.058	0.017	0.013	0.021	0.016	0.003	0%	0.656	0.003
%RSD		104.900	35.950	23.300	35.470	31.300	54.600	0	423.800	180.100

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	-0.019	0.123	0.009	0.006	-0.062	-0.004	0.869	0.603	86%
2	19:06:17	0.148	-0.497	0.002	-0.013	-0.059	-0.004	0.586	0.643	86%
3	19:07:25	-0.497	0.814	-0.000	0.034	-0.028	-0.006	0.570	0.570	87%
x		-0.122	0.146	0.003	0.009	-0.050	-0.005	0.675	0.605	87%
σ		0.335	0.656	0.005	0.024	0.019	0.001	0.168	0.036	1%
%RSD		273.500	447.900	131.000	271.700	38.490	27.370	24.900	6.022	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:09	86%	0.001	-0.003	-0.041	-0.033	-0.036	86%	0.499
2	19:06:17	87%	-0.005	-0.004	-0.039	-0.028	-0.034	87%	0.494
3	19:07:25	87%	-0.007	-0.008	-0.037	-0.043	-0.037	87%	0.496
x		87%	-0.004	-0.005	-0.039	-0.034	-0.036	87%	0.496
σ		1%	0.004	0.002	0.002	0.008	0.002	1%	0.003
%RSD		1	116.900	48.880	4.490	22.180	5.108	1	0.524

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	84%	496.200	491.700	0.000	50850.000	51010.000	50210.000	50330.000	9980.000
2	19:14:11	84%	484.900	510.100	0.000	50380.000	50330.000	49810.000	49410.000	9925.000
3	19:15:19	85%	492.800	493.100	0.000	50620.000	50780.000	50140.000	50660.000	10100.000
x		84%	491.300	498.300	0.000	50620.000	50700.000	50050.000	50140.000	10000.000
σ		1%	5.773	10.240	0.000	235.700	343.400	212.900	646.100	91.670
%RSD		1	1.175	2.055	0.000	0.466	0.677	0.425	1.289	0.916

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	476.900	9801.000	0.000	0.000	25000.000	50920.000	48910.000	83%	504.100
2	19:14:11	469.700	9649.000	0.000	0.000	24970.000	50800.000	48870.000	85%	490.100
3	19:15:19	503.700	9866.000	0.000	0.000	25430.000	51050.000	49100.000	84%	494.400
x		483.400	9772.000	0.000	0.000	25130.000	50920.000	48960.000	84%	496.200
σ		17.890	111.800	0.000	0.000	256.000	121.800	120.700	1%	7.186
%RSD		3.700	1.144	0.000	0.000	1.019	0.239	0.247	1	1.448

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	486.000	493.800	16.040	25550.000	999.900	25300.000	25230.000	489.700	489.900
2	19:14:11	482.700	489.200	12.660	25590.000	973.100	24680.000	24900.000	486.500	491.900
3	19:15:19	492.100	490.400	16.380	25720.000	997.900	25060.000	25230.000	488.700	494.000
x		487.000	491.200	15.030	25620.000	990.300	25010.000	25120.000	488.300	491.900
σ		4.738	2.400	2.058	92.260	14.920	313.400	189.700	1.644	2.072
%RSD		0.973	0.489	13.700	0.360	1.507	1.253	0.755	0.337	0.421

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	988.400	983.800	1015.000	499.600	504.800	-1.820	500.000	504.200	2.988
2	19:14:11	972.000	970.300	990.400	486.400	486.900	-0.881	489.000	485.900	-0.636
3	19:15:19	985.600	986.800	1003.000	492.200	487.600	-0.737	489.000	485.900	4.822
x		982.000	980.300	1003.000	492.700	493.100	-1.146	492.700	492.000	2.392
σ		8.761	8.769	12.450	6.574	10.150	0.588	6.376	10.570	2.778
%RSD		0.892	0.895	1.241	1.334	2.058	51.330	1.294	2.147	116.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	502.800	497.200	497.800	498.600	493.000	0.008	81%	497.200	505.700
2	19:14:11	492.300	491.000	491.500	491.800	491.100	-0.007	84%	500.600	496.100
3	19:15:19	496.700	492.800	491.800	490.100	491.300	0.003	85%	485.700	499.200
x		497.300	493.700	493.700	493.500	491.800	0.001	83%	494.500	500.300
σ		5.254	3.179	3.557	4.479	1.037	0.007	2%	7.810	4.901
%RSD		1.057	0.644	0.720	0.908	0.211	528.700	2	1.579	0.980

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	11.890	496.900	504.400	508.500	500.100	502.200	2500.000	2492.000	88%
2	19:14:11	11.160	500.400	497.300	497.800	491.100	493.200	2442.000	2431.000	90%
3	19:15:19	19.350	485.700	497.000	499.100	496.600	499.000	2473.000	2457.000	90%
x		14.130	494.300	499.500	501.800	495.900	498.100	2472.000	2460.000	89%
σ		4.529	7.664	4.211	5.834	4.501	4.563	28.830	30.750	1%
%RSD		32.050	1.551	0.843	1.163	0.908	0.916	1.166	1.250	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:03	88%	497.900	503.500	501.900	505.100	501.600	86%	514.000
2	19:14:11	91%	496.500	495.300	501.700	503.800	495.200	88%	509.600
3	19:15:19	91%	495.700	498.800	498.900	497.000	495.700	89%	507.200
x		90%	496.700	499.200	500.800	502.000	497.500	88%	510.300
σ		1%	1.122	4.112	1.660	4.377	3.576	1%	3.475
%RSD		2	0.226	0.824	0.331	0.872	0.719	2	0.681

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	89%	0.326	10.980	0.000	71.040	36.370	35.600	37.810	6.328
2	19:22:04	89%	0.316	6.925	0.000	45.770	20.080	22.290	20.380	3.826
3	19:23:13	87%	0.252	6.692	0.000	42.280	17.950	18.450	21.100	3.416
x		88%	0.298	8.200	0.000	53.030	24.800	25.440	26.430	4.523
σ		1%	0.040	2.413	0.000	15.690	10.080	9.002	9.860	1.576
%RSD		1	13.570	29.430	0.000	29.590	40.650	35.380	37.310	34.840

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	-0.961	14.230	0.000	0.000	63.070	50.090	36.350	87%	0.349
2	19:22:04	-0.481	7.724	0.000	0.000	46.740	25.610	17.250	88%	0.413
3	19:23:13	0.582	7.572	0.000	0.000	47.240	23.070	14.250	86%	0.134
x		-0.287	9.844	0.000	0.000	52.350	32.920	22.610	87%	0.299
σ		0.790	3.804	0.000	0.000	9.289	14.920	11.990	1%	0.146
%RSD		275.300	38.640	0.000	0.000	17.740	45.310	53.010	1	48.970

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	0.637	0.287	12.450	19.230	0.745	13.740	22.660	0.358	0.268
2	19:22:04	0.351	0.139	12.110	13.280	0.432	8.090	20.070	0.289	0.180
3	19:23:13	0.635	0.191	11.870	10.700	0.414	7.707	19.600	0.240	0.185
x		0.541	0.206	12.140	14.410	0.530	9.847	20.780	0.295	0.211
σ		0.165	0.075	0.294	4.373	0.186	3.381	1.649	0.059	0.049
%RSD		30.440	36.360	2.421	30.360	35.020	34.330	7.935	20.100	23.290

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	0.795	0.964	0.562	0.768	1.410	-0.011	0.394	1.405	-3.176
2	19:22:04	0.410	0.531	0.370	0.394	0.262	0.014	-0.102	0.262	-3.224
3	19:23:13	0.465	0.433	0.199	0.311	0.550	0.019	0.076	0.548	-4.631
x		0.557	0.643	0.377	0.491	0.741	0.007	0.123	0.738	-3.677
σ		0.208	0.283	0.181	0.243	0.597	0.016	0.251	0.595	0.826
%RSD		37.400	43.980	48.100	49.530	80.640	217.300	205.000	80.560	22.480

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	0.695	0.690	0.702	0.805	0.739	-0.002	88%	-1.113	0.510
2	19:22:04	0.429	0.541	0.483	0.509	0.443	-0.002	88%	0.457	0.348
3	19:23:13	0.444	0.439	0.440	0.313	0.344	-0.002	88%	-0.680	0.246
x		0.523	0.556	0.541	0.542	0.509	-0.002	88%	-0.445	0.368
σ		0.150	0.126	0.141	0.248	0.206	0.000	0%	0.811	0.133
%RSD		28.630	22.680	26.000	45.760	40.390	0.883	0	182.100	36.180

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	0.585	-1.119	0.528	0.374	0.644	0.786	1.948	1.853	90%
2	19:22:04	-0.055	0.450	0.302	0.273	0.474	0.629	1.408	1.195	91%
3	19:23:13	0.308	-0.688	0.252	0.192	0.334	0.501	1.254	1.203	90%
x		0.279	-0.453	0.361	0.280	0.484	0.639	1.537	1.417	90%
σ		0.321	0.810	0.147	0.091	0.155	0.143	0.365	0.377	0%
%RSD		115.000	179.100	40.720	32.580	32.100	22.330	23.730	26.630	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:20:56	91%	0.583	0.552	0.423	0.376	0.403	91%	0.369
2	19:22:04	91%	0.288	0.283	0.267	0.226	0.255	91%	0.260
3	19:23:13	91%	0.247	0.240	0.204	0.242	0.222	90%	0.237
x		91%	0.373	0.358	0.298	0.281	0.294	91%	0.289
σ		0%	0.183	0.169	0.113	0.083	0.096	1%	0.071
%RSD		0	49.170	47.110	37.900	29.320	32.880	1	24.430

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	86%	0.337	1232.000	0.000	276700.000	37540.000	37260.000	37130.000	8.312
2	19:29:58	86%	0.143	1207.000	0.000	277000.000	37540.000	37260.000	37610.000	3.512
3	19:31:05	86%	0.042	1184.000	0.000	269600.000	36710.000	36520.000	36540.000	1.750
x		86%	0.174	1207.000	0.000	274400.000	37260.000	37010.000	37090.000	4.524
σ		0%	0.150	24.070	0.000	4164.000	483.100	427.900	534.600	3.396
%RSD		0	86.250	1.994	0.000	1.517	1.296	1.156	1.441	75.070

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	22960.000	3.091	0.000	0.000	6476.000	149400.000	166900.000	84%	3.905
2	19:29:58	23270.000	3.023	0.000	0.000	6515.000	153100.000	169100.000	84%	2.641
3	19:31:05	22700.000	-3.057	0.000	0.000	6329.000	148100.000	163100.000	85%	3.544
x		22980.000	1.019	0.000	0.000	6440.000	150200.000	166400.000	84%	3.363
σ		285.600	3.530	0.000	0.000	98.180	2571.000	3024.000	0%	0.651
%RSD		1.243	346.400	0.000	0.000	1.524	1.712	1.817	0	19.360

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	62.920	165.400	130.000	86.940	1.665	22.460	725.900	0.385	2.063
2	19:29:58	65.200	169.200	128.500	79.230	1.333	12.260	724.600	0.212	1.816
3	19:31:05	62.540	162.100	132.400	70.220	1.161	8.675	697.600	0.056	1.746
x		63.550	165.600	130.300	78.800	1.387	14.460	716.000	0.218	1.875
σ		1.440	3.549	1.975	8.371	0.256	7.151	15.980	0.164	0.166
%RSD		2.266	2.144	1.516	10.620	18.450	49.440	2.232	75.560	8.875

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	1.946	1.969	3.695	11.080	12.870	0.694	10.480	12.920	7.826
2	19:29:58	1.369	1.811	3.382	10.790	15.160	0.787	9.569	15.220	3.579
3	19:31:05	1.226	1.502	3.075	10.710	14.230	0.824	10.140	14.280	-0.853
x		1.514	1.760	3.384	10.860	14.090	0.768	10.060	14.140	3.517
σ		0.381	0.238	0.310	0.193	1.152	0.067	0.461	1.154	4.340
%RSD		25.170	13.490	9.162	1.778	8.179	8.681	4.576	8.161	123.400

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	1.834	1.820	1.831	1.642	1.799	0.009	77%	0.247	0.215
2	19:29:58	1.418	1.634	1.716	1.571	1.565	-0.001	77%	1.332	0.093
3	19:31:05	1.270	1.338	1.526	1.554	1.354	-0.002	79%	0.642	0.046
x		1.507	1.597	1.691	1.589	1.573	0.002	78%	0.740	0.118
σ		0.292	0.243	0.154	0.047	0.223	0.006	1%	0.549	0.087
%RSD		19.400	15.210	9.104	2.944	14.170	311.800	1	74.200	73.720

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	0.240	0.227	0.223	0.240	0.402	0.392	36.800	36.220	84%
2	19:29:58	-0.666	1.310	0.096	0.173	0.205	0.258	35.870	36.000	84%
3	19:31:05	-0.328	0.620	0.094	0.105	0.145	0.199	33.760	33.470	86%
x		-0.252	0.719	0.138	0.173	0.251	0.283	35.480	35.230	85%
σ		0.458	0.548	0.074	0.068	0.134	0.099	1.560	1.526	1%
%RSD		182.200	76.280	53.570	39.050	53.520	34.940	4.398	4.332	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:28:49	84%	0.377	0.375	0.479	0.502	0.466	80%	8.614
2	19:29:58	86%	0.137	0.130	0.261	0.240	0.247	82%	8.396
3	19:31:05	88%	0.070	0.075	0.174	0.141	0.164	84%	8.256
x		86%	0.195	0.193	0.305	0.294	0.292	82%	8.422
σ		2%	0.161	0.160	0.157	0.187	0.156	2%	0.180
%RSD		2	82.900	82.640	51.590	63.410	53.510	2	2.143

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	81%	0.049	1003.000	0.000	261500.000	42850.000	42590.000	42790.000	1.237
2	19:37:51	85%	0.015	995.500	0.000	255600.000	41930.000	41840.000	42020.000	0.842
3	19:38:59	86%	0.061	1027.000	0.000	258900.000	42810.000	42670.000	42770.000	1.396
x		84%	0.042	1009.000	0.000	258700.000	42530.000	42370.000	42530.000	1.158
σ		3%	0.024	16.500	0.000	2931.000	518.600	458.000	435.900	0.285
%RSD		3	56.510	1.636	0.000	1.133	1.219	1.081	1.025	24.620

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	18330.000	0.026	0.000	0.000	6707.000	143300.000	158400.000	83%	1.887
2	19:37:51	18080.000	-6.567	0.000	0.000	6685.000	144000.000	157600.000	84%	1.745
3	19:38:59	18680.000	-6.187	0.000	0.000	6867.000	147500.000	160900.000	84%	2.336
x		18360.000	-4.243	0.000	0.000	6753.000	144900.000	159000.000	83%	1.990
σ		301.000	3.702	0.000	0.000	99.650	2291.000	1728.000	1%	0.309
%RSD		1.640	87.240	0.000	0.000	1.476	1.581	1.087	1	15.520

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	39.970	2.423	117.300	6.042	0.384	12.720	592.800	0.061	1.633
2	19:37:51	38.600	2.378	123.900	5.967	0.316	11.530	576.700	0.054	1.770
3	19:38:59	41.110	2.487	127.400	8.184	0.277	13.260	626.900	0.079	1.912
x		39.900	2.429	122.900	6.731	0.326	12.500	598.800	0.065	1.771
σ		1.258	0.055	5.137	1.259	0.054	0.887	25.640	0.013	0.139
%RSD		3.152	2.245	4.182	18.700	16.520	7.095	4.282	20.280	7.865

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	2.833	3.407	15.320	9.199	16.940	0.589	12.890	16.960	2.683
2	19:37:51	2.712	3.139	14.320	8.046	16.470	0.746	14.160	16.480	3.147
3	19:38:59	3.000	3.300	15.080	8.332	17.260	0.671	14.260	17.310	0.002
x		2.848	3.282	14.910	8.526	16.890	0.668	13.770	16.920	1.944
σ		0.145	0.135	0.522	0.600	0.401	0.079	0.763	0.415	1.698
%RSD		5.074	4.099	3.500	7.041	2.376	11.750	5.537	2.454	87.350

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	1.926	1.911	1.933	1.744	1.798	0.003	78%	-1.501	0.074
2	19:37:51	1.762	1.897	1.879	1.792	1.890	0.008	80%	0.626	0.057
3	19:38:59	2.118	1.834	1.725	1.951	1.931	0.003	79%	-0.777	0.055
x		1.935	1.881	1.846	1.829	1.873	0.005	79%	-0.550	0.062
σ		0.178	0.041	0.108	0.108	0.068	0.003	1%	1.081	0.010
%RSD		9.218	2.188	5.833	5.921	3.639	54.210	1	196.400	16.700

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	0.872	-1.521	0.035	0.007	0.083	0.124	36.460	35.760	86%
2	19:37:51	-0.322	0.604	0.052	0.121	0.078	0.124	37.150	36.970	88%
3	19:38:59	0.516	-0.800	0.037	0.028	0.128	0.090	36.490	37.270	87%
x		0.356	-0.573	0.041	0.052	0.096	0.113	36.700	36.670	87%
σ		0.613	1.080	0.009	0.061	0.027	0.019	0.389	0.798	1%
%RSD		172.300	188.700	22.730	117.200	28.470	17.260	1.059	2.178	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:43	88%	0.084	0.100	0.358	0.325	0.330	84%	11.750
2	19:37:51	89%	0.031	0.044	0.300	0.283	0.299	85%	11.780
3	19:38:59	89%	0.029	0.054	0.375	0.292	0.322	84%	11.900
x		88%	0.048	0.066	0.344	0.300	0.317	84%	11.810
σ		1%	0.031	0.030	0.039	0.022	0.016	1%	0.077
%RSD		1	64.760	45.070	11.420	7.418	5.125	1	0.656

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	88%	-0.042	62.670	0.000	11210.000	1862.000	1800.000	1818.000	-1.977
2	19:45:45	85%	-0.059	63.800	0.000	11360.000	1876.000	1810.000	1832.000	-1.854
3	19:46:53	86%	-0.059	59.680	0.000	11310.000	1869.000	1816.000	1835.000	-1.829
x		86%	-0.053	62.050	0.000	11290.000	1869.000	1809.000	1828.000	-1.887
σ		1%	0.010	2.130	0.000	73.310	6.996	7.936	8.944	0.079
%RSD		2	19.260	3.432	0.000	0.649	0.374	0.439	0.489	4.196

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	764.500	-3.724	0.000	0.000	326.800	6122.000	6474.000	87%	0.025
2	19:45:45	780.000	2.070	0.000	0.000	326.600	5960.000	6450.000	86%	0.134
3	19:46:53	774.300	1.589	0.000	0.000	332.700	6222.000	6592.000	85%	0.064
x		772.900	-0.021	0.000	0.000	328.700	6101.000	6506.000	86%	0.074
σ		7.875	3.215	0.000	0.000	3.481	132.000	76.150	1%	0.055
%RSD		1.019	15030.000	0.000	0.000	1.059	2.164	1.171	1	74.580

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	1.103	0.215	30.500	0.687	-0.088	-3.251	27.750	-0.021	0.063
2	19:45:45	1.262	0.123	28.540	0.525	-0.083	-3.583	21.970	-0.035	0.045
3	19:46:53	2.036	0.163	27.190	0.716	-0.074	-3.165	29.950	-0.037	0.066
x		1.467	0.167	28.740	0.643	-0.082	-3.333	26.560	-0.031	0.058
σ		0.500	0.046	1.667	0.103	0.007	0.221	4.125	0.009	0.011
%RSD		34.050	27.730	5.799	16.070	9.053	6.625	15.530	28.600	19.560

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	-0.042	0.089	0.629	0.092	0.790	0.209	0.317	0.788	-3.483
2	19:45:45	-0.026	0.122	0.343	0.121	-0.080	0.192	0.685	-0.080	5.118
3	19:46:53	-0.050	0.141	0.308	0.556	0.844	0.113	0.699	0.841	-3.725
x		-0.039	0.117	0.427	0.256	0.518	0.171	0.567	0.516	-0.697
σ		0.012	0.026	0.176	0.260	0.519	0.051	0.217	0.517	5.037
%RSD		31.180	22.220	41.210	101.400	100.200	29.950	38.210	100.100	723.100

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	0.109	0.083	0.102	0.103	0.057	0.002	87%	-0.465	-0.003
2	19:45:45	0.065	0.077	0.127	0.064	0.073	0.003	87%	-1.012	-0.001
3	19:46:53	0.065	0.077	0.091	0.145	0.084	0.012	87%	-0.825	-0.001
x		0.080	0.079	0.107	0.104	0.071	0.006	87%	-0.767	-0.002
σ		0.025	0.003	0.018	0.040	0.014	0.005	0%	0.278	0.001
%RSD		31.550	3.991	16.940	38.740	19.230	94.780	0	36.200	61.700

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	0.136	-0.472	0.008	-0.030	-0.010	0.036	1.414	1.290	90%
2	19:45:45	0.405	-1.020	-0.002	-0.043	-0.050	0.019	1.315	1.467	89%
3	19:46:53	0.312	-0.830	0.004	-0.058	0.015	0.030	1.203	1.422	89%
x		0.284	-0.774	0.003	-0.044	-0.015	0.028	1.311	1.393	89%
σ		0.137	0.279	0.005	0.014	0.033	0.009	0.106	0.092	1%
%RSD		48.180	35.970	170.500	32.460	217.400	30.390	8.069	6.599	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:44:37	90%	-0.016	-0.010	-0.021	-0.026	-0.021	90%	0.438
2	19:45:45	90%	-0.009	-0.014	-0.026	-0.028	-0.025	90%	0.437
3	19:46:53	90%	-0.010	-0.014	-0.018	-0.018	-0.017	90%	0.415
x		90%	-0.012	-0.013	-0.022	-0.024	-0.021	90%	0.430
σ		0%	0.004	0.002	0.004	0.005	0.004	0%	0.013
%RSD		0	32.350	17.570	17.820	20.870	18.430	0	2.982

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	84%	-0.022	75.750	0.000	19460.000	3299.000	3161.000	3235.000	-1.540
2	19:53:39	85%	-0.050	78.270	0.000	19260.000	3226.000	3094.000	3157.000	-1.508
3	19:54:47	85%	-0.050	73.620	0.000	19360.000	3219.000	3130.000	3181.000	-1.748
x		85%	-0.041	75.880	0.000	19360.000	3248.000	3129.000	3191.000	-1.599
σ		0%	0.016	2.326	0.000	100.100	44.030	33.720	39.660	0.130
%RSD		0	40.270	3.066	0.000	0.517	1.356	1.078	1.243	8.159

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	1075.000	0.428	0.000	0.000	345.000	13120.000	13950.000	85%	0.027
2	19:53:39	1062.000	4.371	0.000	0.000	339.000	12790.000	13830.000	85%	0.026
3	19:54:47	1060.000	-0.398	0.000	0.000	333.200	13250.000	13740.000	86%	0.208
x		1066.000	1.467	0.000	0.000	339.100	13050.000	13840.000	85%	0.087
σ		7.932	2.549	0.000	0.000	5.881	234.300	103.000	0%	0.105
%RSD		0.744	173.700	0.000	0.000	1.734	1.795	0.744	0	120.300

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	1.539	0.096	24.370	3.579	-0.072	-3.110	58.170	-0.043	0.269
2	19:53:39	2.115	0.106	22.600	1.051	-0.059	-4.023	53.270	-0.031	0.150
3	19:54:47	1.483	0.083	23.410	0.928	-0.095	-4.123	56.240	-0.031	0.150
x		1.712	0.095	23.460	1.853	-0.075	-3.752	55.890	-0.035	0.190
σ		0.350	0.012	0.890	1.496	0.018	0.559	2.467	0.007	0.068
%RSD		20.430	12.110	3.793	80.760	24.300	14.890	4.414	20.580	35.990

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	0.043	0.031	2.413	0.309	0.603	0.151	0.600	0.602	-1.897
2	19:53:39	-0.017	0.069	2.144	0.281	0.453	0.137	0.071	0.452	1.345
3	19:54:47	-0.024	0.124	2.408	0.713	1.236	0.047	0.267	1.232	-5.246
x		0.001	0.075	2.322	0.435	0.764	0.112	0.313	0.762	-1.933
σ		0.037	0.046	0.154	0.242	0.415	0.056	0.268	0.414	3.296
%RSD		4626.000	62.300	6.632	55.600	54.330	50.410	85.510	54.300	170.500

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	0.127	0.054	0.101	0.141	0.076	-0.002	84%	-0.328	0.014
2	19:53:39	0.043	0.052	0.021	0.085	0.066	0.007	86%	0.103	0.007
3	19:54:47	0.055	0.078	0.092	0.055	0.070	0.003	86%	-0.963	0.003
x		0.075	0.062	0.071	0.094	0.070	0.003	85%	-0.396	0.008
σ		0.046	0.014	0.044	0.043	0.005	0.004	1%	0.536	0.005
%RSD		60.490	23.330	61.400	46.330	7.233	170.600	1	135.400	68.890

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	0.071	-0.341	0.006	-0.031	-0.022	0.011	0.887	1.154	89%
2	19:53:39	-0.142	0.092	0.008	-0.007	-0.022	0.019	1.133	1.045	90%
3	19:54:47	0.518	-0.976	0.008	-0.073	-0.018	0.021	1.087	1.171	91%
x		0.149	-0.408	0.007	-0.037	-0.021	0.017	1.036	1.124	90%
σ		0.337	0.537	0.001	0.034	0.002	0.005	0.131	0.068	1%
%RSD		225.600	131.500	13.960	90.740	9.886	30.950	12.640	6.077	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:52:31	89%	-0.005	-0.000	0.057	0.067	0.060	89%	0.403
2	19:53:39	91%	-0.014	-0.004	0.056	0.037	0.048	91%	0.401
3	19:54:47	90%	-0.006	-0.008	0.070	0.040	0.058	91%	0.414
x		90%	-0.008	-0.004	0.061	0.048	0.055	90%	0.406
σ		1%	0.005	0.004	0.008	0.017	0.007	1%	0.007
%RSD		1	60.390	94.960	12.860	35.650	12.160	2	1.698

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	89%	-0.033	6.946	0.000	52.600	-4.475	-4.866	-3.457	-1.826
2	20:01:33	84%	-0.012	9.121	0.000	59.950	-4.537	-4.573	-3.393	-1.897
3	20:02:41	86%	-0.050	7.036	0.000	54.270	-3.909	-4.550	-2.761	-2.122
x		86%	-0.032	7.701	0.000	55.610	-4.307	-4.663	-3.204	-1.948
σ		2%	0.019	1.231	0.000	3.853	0.346	0.176	0.385	0.155
%RSD		3	60.180	15.980	0.000	6.929	8.030	3.774	12.020	7.934

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	1.048	2.848	0.000	0.000	37.330	8.336	8.844	86%	0.061
2	20:01:33	1.802	2.549	0.000	0.000	42.640	-4.162	8.622	86%	0.245
3	20:02:41	0.512	7.121	0.000	0.000	49.360	-3.893	5.438	84%	-0.083
x		1.121	4.173	0.000	0.000	43.110	0.094	7.635	85%	0.074
σ		0.648	2.558	0.000	0.000	6.032	7.139	1.906	1%	0.164
%RSD		57.820	61.300	0.000	0.000	13.990	7601.000	24.960	1	221.700

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	-0.033	-0.049	15.770	-0.406	-0.105	-4.280	2.354	-0.030	-0.021
2	20:01:33	-0.404	0.008	16.480	-0.183	-0.116	-3.967	2.816	-0.023	0.017
3	20:02:41	-0.067	-0.027	15.150	0.414	-0.091	-3.852	1.728	-0.027	-0.086
x		-0.168	-0.023	15.800	-0.058	-0.104	-4.033	2.299	-0.027	-0.030
σ		0.205	0.029	0.668	0.424	0.013	0.222	0.546	0.003	0.052
%RSD		121.900	126.300	4.228	729.300	12.270	5.496	23.750	11.820	173.200

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	-0.150	-0.019	-0.181	0.170	0.213	0.049	0.127	0.213	-2.356
2	20:01:33	-0.130	-0.058	-0.211	-0.378	0.260	0.152	-0.402	0.260	-3.825
3	20:02:41	-0.152	-0.065	-0.130	-0.072	-0.429	0.111	-0.071	-0.426	1.418
x		-0.144	-0.047	-0.174	-0.093	0.015	0.104	-0.116	0.015	-1.588
σ		0.012	0.024	0.041	0.275	0.385	0.052	0.267	0.383	2.704
%RSD		8.163	51.620	23.480	294.100	2633.000	50.050	231.300	2482.000	170.300

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	0.108	-0.011	-0.009	-0.007	-0.004	-0.007	88%	1.362	0.015
2	20:01:33	-0.048	0.020	0.038	-0.007	0.004	0.002	87%	-1.059	0.005
3	20:02:41	-0.047	-0.017	0.003	-0.036	-0.015	-0.002	86%	-0.780	0.003
x		0.004	-0.003	0.011	-0.017	-0.005	-0.002	87%	-0.159	0.008
σ		0.090	0.020	0.024	0.017	0.009	0.004	1%	1.324	0.006
%RSD		2072.000	728.700	223.900	101.300	190.200	224.000	1	831.800	85.440

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	-0.699	1.359	0.006	0.082	-0.035	-0.003	-0.086	-0.091	89%
2	20:01:33	0.428	-1.065	0.016	-0.054	-0.053	0.019	-0.086	-0.111	89%
3	20:02:41	0.290	-0.786	-0.002	-0.030	-0.040	0.002	-0.097	-0.070	88%
x		0.006	-0.164	0.006	-0.001	-0.043	0.006	-0.090	-0.090	89%
σ		0.615	1.326	0.009	0.073	0.009	0.011	0.007	0.020	1%
%RSD		10040.000	809.400	143.800	10830.000	22.090	189.400	7.293	22.380	1

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:25	90%	-0.001	0.002	-0.049	-0.028	-0.034	90%	-0.013
2	20:01:33	90%	-0.010	-0.004	-0.042	-0.038	-0.039	90%	-0.011
3	20:02:41	89%	-0.007	-0.008	-0.040	-0.034	-0.036	89%	-0.012
x		90%	-0.006	-0.003	-0.044	-0.033	-0.037	90%	-0.012
σ		1%	0.004	0.005	0.005	0.005	0.002	1%	0.001
%RSD		1	74.740	171.500	10.880	15.780	6.568	1	6.648

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	79%	508.300	526.900	0.000	53090.000	53080.000	52800.000	52650.000	10480.000
2	20:09:29	82%	488.200	492.800	0.000	51050.000	50850.000	50450.000	51410.000	10210.000
3	20:10:37	81%	496.900	510.800	0.000	51810.000	51550.000	50960.000	51910.000	10360.000
x		81%	497.800	510.100	0.000	51980.000	51830.000	51410.000	51990.000	10350.000
σ		2%	10.070	17.080	0.000	1029.000	1137.000	1238.000	620.600	138.700
%RSD		2	2.023	3.348	0.000	1.980	2.194	2.409	1.194	1.340

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	553.100	10110.000	0.000	0.000	26290.000	54790.000	51180.000	79%	518.500
2	20:09:29	520.800	9945.000	0.000	0.000	25710.000	52130.000	49670.000	82%	493.300
3	20:10:37	516.800	9874.000	0.000	0.000	25760.000	52690.000	49920.000	83%	494.600
x		530.200	9975.000	0.000	0.000	25920.000	53200.000	50260.000	81%	502.200
σ		19.920	119.500	0.000	0.000	322.100	1399.000	812.500	2%	14.180
%RSD		3.756	1.198	0.000	0.000	1.242	2.631	1.617	2	2.825

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	510.700	508.200	15.610	26820.000	1036.000	26340.000	26600.000	512.600	509.800
2	20:09:29	486.500	490.500	21.180	26010.000	1016.000	25440.000	25470.000	495.500	485.700
3	20:10:37	488.000	490.700	22.650	25970.000	1012.000	25430.000	25540.000	492.800	493.200
x		495.000	496.500	19.810	26270.000	1021.000	25740.000	25870.000	500.300	496.200
σ		13.550	10.170	3.714	478.700	13.290	524.700	632.000	10.700	12.340
%RSD		2.738	2.048	18.750	1.822	1.301	2.039	2.443	2.138	2.487

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	1021.000	1024.000	1054.000	511.800	510.200	-0.649	515.700	508.600	1.503
2	20:09:29	975.400	989.700	1025.000	496.700	495.200	-1.483	499.400	493.500	-0.741
3	20:10:37	989.800	985.700	1018.000	497.200	497.400	-0.816	493.000	495.800	-0.094
x		995.500	999.900	1032.000	501.900	500.900	-0.982	502.700	499.300	0.223
σ		23.500	21.200	18.970	8.556	8.129	0.442	11.730	8.125	1.155
%RSD		2.361	2.120	1.837	1.705	1.623	44.940	2.333	1.627	518.700

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	513.900	510.500	515.500	519.000	519.200	0.003	79%	535.400	518.800
2	20:09:29	498.400	496.300	502.700	500.900	499.000	0.008	82%	518.600	497.900
3	20:10:37	497.700	496.600	498.600	495.300	502.900	0.003	83%	502.900	495.600
x		503.300	501.100	505.600	505.100	507.000	0.005	82%	519.000	504.100
σ		9.140	8.145	8.792	12.350	10.690	0.003	2%	16.240	12.780
%RSD		1.816	1.625	1.739	2.446	2.108	57.290	3	3.129	2.536

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	6.084	535.100	518.600	529.600	522.400	523.100	2607.000	2599.000	85%
2	20:09:29	2.529	518.300	502.800	507.100	502.100	505.600	2505.000	2484.000	89%
3	20:10:37	14.660	502.800	501.000	511.600	501.600	503.500	2518.000	2504.000	89%
x		7.759	518.700	507.400	516.100	508.700	510.800	2543.000	2529.000	88%
σ		6.239	16.150	9.687	11.880	11.870	10.780	55.380	61.540	2%
%RSD		80.400	3.113	1.909	2.302	2.334	2.110	2.177	2.433	2

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:08:20	87%	516.600	517.900	522.700	522.800	518.200	85%	536.200
2	20:09:29	90%	507.400	504.500	507.900	508.800	505.400	88%	520.100
3	20:10:37	91%	500.500	504.600	508.100	506.900	504.500	88%	519.400
x		89%	508.100	509.000	512.900	512.800	509.400	87%	525.200
σ		2%	8.080	7.691	8.490	8.699	7.629	2%	9.479
%RSD		2	1.590	1.511	1.655	1.696	1.498	2	1.805

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	87%	0.160	13.080	0.000	57.680	21.220	20.590	23.560	5.922
2	20:17:25	85%	0.397	8.997	0.000	47.690	16.570	17.050	15.670	5.669
3	20:18:33	87%	0.298	8.836	0.000	41.190	11.770	11.240	11.060	4.765
x		86%	0.285	10.300	0.000	48.850	16.520	16.290	16.760	5.452
σ		1%	0.119	2.405	0.000	8.304	4.725	4.722	6.318	0.608
%RSD		1	41.720	23.340	0.000	17.000	28.600	28.980	37.690	11.160

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	-0.669	13.610	0.000	0.000	60.280	12.300	16.760	86%	0.426
2	20:17:25	0.576	13.600	0.000	0.000	49.810	6.728	10.750	86%	0.316
3	20:18:33	0.097	9.459	0.000	0.000	47.710	-7.852	8.405	86%	0.318
x		0.001	12.230	0.000	0.000	52.600	3.726	11.970	86%	0.353
σ		0.628	2.397	0.000	0.000	6.733	10.410	4.307	0%	0.063
%RSD		51950.000	19.600	0.000	0.000	12.800	279.300	35.980	0	17.870

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	0.358	0.237	13.550	15.650	0.450	10.590	21.020	0.297	0.159
2	20:17:25	-0.056	0.242	12.590	13.330	0.422	9.547	16.020	0.236	0.158
3	20:18:33	0.212	0.196	12.160	13.460	0.269	7.273	12.960	0.164	0.254
x		0.171	0.225	12.770	14.140	0.380	9.137	16.670	0.232	0.190
σ		0.210	0.026	0.714	1.301	0.098	1.697	4.068	0.067	0.055
%RSD		122.700	11.350	5.595	9.200	25.690	18.570	24.410	28.650	28.970

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	0.459	0.530	0.411	0.006	0.308	0.118	0.358	0.307	-2.228
2	20:17:25	0.382	0.544	0.126	0.017	0.695	0.069	0.203	0.693	0.065
3	20:18:33	0.231	0.351	0.052	0.120	0.162	0.060	-0.299	0.162	-2.600
x		0.357	0.475	0.196	0.048	0.388	0.083	0.088	0.388	-1.588
σ		0.116	0.108	0.189	0.063	0.276	0.031	0.344	0.274	1.443
%RSD		32.480	22.710	96.660	131.800	70.930	38.030	392.400	70.820	90.910

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	0.606	0.543	0.549	0.658	0.553	-0.007	87%	3.226	0.375
2	20:17:25	0.369	0.498	0.419	0.567	0.503	0.007	87%	-0.040	0.224
3	20:18:33	0.426	0.430	0.414	0.447	0.355	-0.007	87%	-1.312	0.183
x		0.467	0.491	0.461	0.557	0.471	-0.002	87%	0.624	0.261
σ		0.124	0.057	0.076	0.106	0.103	0.008	0%	2.341	0.101
%RSD		26.520	11.600	16.580	19.000	21.880	390.400	0	374.900	38.890

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	-1.550	3.225	0.332	0.481	0.453	0.662	1.605	1.362	89%
2	20:17:25	-0.008	-0.045	0.209	0.314	0.511	0.559	1.248	1.035	89%
3	20:18:33	0.686	-1.320	0.186	0.093	0.364	0.427	1.001	0.811	89%
x		-0.290	0.620	0.242	0.296	0.443	0.549	1.285	1.069	89%
σ		1.144	2.344	0.079	0.195	0.074	0.118	0.304	0.277	0%
%RSD		394.000	378.100	32.530	65.770	16.750	21.490	23.630	25.930	0

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:16:16	90%	0.356	0.334	0.269	0.280	0.270	90%	0.280
2	20:17:25	90%	0.243	0.238	0.228	0.163	0.195	90%	0.231
3	20:18:33	90%	0.186	0.182	0.154	0.161	0.160	90%	0.196
x		90%	0.262	0.251	0.217	0.201	0.208	90%	0.236
σ		0%	0.087	0.077	0.058	0.068	0.056	0%	0.042
%RSD		0	33.120	30.720	26.710	33.890	26.990	0	17.960

Mass Uncorrected ICPS

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:14:40	16927.210	2.604	14.063	415.631	111814.000	4883.647	648.452	793.772	1323.499
2	14:15:48	17052.359	4.688	18.750	434.382	110220.440	4186.551	571.886	623.451	1240.679
3	14:16:56	16985.091	6.250	14.063	378.130	110003.150	4191.240	526.572	615.638	1203.176
x		16988.220	4.514	15.625	409.381	110679.200	4420.479	582.304	677.620	1255.784
σ		62.633	1.829	2.706	28.642	988.757	401.122	61.604	100.666	61.567
%RSD		0.369	40.522	17.321	6.996	0.893	9.074	10.579	14.856	4.903

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:14:40	625.014	846.900	14460.440	70379.187	82082.010	29.688	595.325	57841.862	3.125
2	14:15:48	693.767	851.588	14834.260	70900.505	82952.643	26.563	606.263	56674.698	4.688
3	14:16:56	656.265	912.529	14787.337	71870.962	82811.201	21.875	626.576	57893.634	4.688
x		658.349	870.339	14694.012	71050.218	82615.285	26.042	609.388	57470.065	4.167
σ		34.424	36.613	203.636	757.072	467.212	3.932	15.858	689.294	0.902
%RSD		5.229	4.207	1.386	1.066	0.566	15.100	2.602	1.199	21.651

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:14:40	1922.004	245.315	625.014	2578.358	271.878	34839.305	1498.516	31.250	31.250
2	14:15:48	1857.933	270.315	629.701	2640.869	273.440	34629.421	1450.074	34.375	17.188
3	14:16:56	1846.994	275.003	682.829	2497.093	220.314	34800.148	1509.455	45.313	23.438
x		1875.644	263.544	645.848	2572.107	255.211	34756.291	1486.015	36.979	23.958
σ		40.520	15.960	32.112	72.091	30.231	111.604	31.603	7.384	7.046
%RSD		2.160	6.056	4.972	2.803	11.846	0.321	2.127	19.968	29.408

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:14:40	121.876	34.375	84.375	19.271	7.813	7.813	120.834	15.625	26.563
2	14:15:48	129.688	25.000	73.438	20.833	4.688	4.688	127.605	21.354	23.958
3	14:16:56	106.250	29.688	78.125	16.146	7.813	7.813	154.688	19.792	21.354
x		119.271	29.688	78.646	18.750	6.771	6.771	134.376	18.924	23.958
σ		11.934	4.688	5.487	2.387	1.804	1.804	17.914	2.962	2.604
%RSD		10.006	15.789	6.977	12.729	26.647	26.647	13.331	15.650	10.870

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:14:40	14.063	6.250	6.250	12.500	15.625	0.000	152566.600	125.001	3.125
2	14:15:48	4.688	7.813	1.563	14.063	10.938	4.688	154245.420	142.188	4.688
3	14:16:56	20.313	6.250	10.938	9.375	10.938	3.125	152891.930	101.563	6.250
x		13.021	6.771	6.250	11.979	12.500	2.604	153234.650	122.917	4.688
σ		7.864	0.902	4.688	2.387	2.706	2.387	890.340	20.393	1.563
%RSD		60.399	13.323	75.000	19.924	21.651	91.652	0.581	16.591	33.333

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:14:40	3.125	3.125	3.125	1.563	75.000	18.750	14.063	43.750	397856.240
2	14:15:48	3.125	3.125	6.250	3.125	82.813	18.750	23.438	28.125	400564.740
3	14:16:56	1.563	1.563	7.813	9.375	84.375	17.188	17.188	32.813	398132.530
x		2.604	2.604	5.729	4.688	80.729	18.229	18.229	34.896	398851.170
σ		0.902	0.902	2.387	4.134	5.023	0.902	4.774	8.018	1490.415
%RSD		34.641	34.641	41.660	88.192	6.222	4.949	26.186	22.977	0.374

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:14:40	430361.180	46.875	112.500	121.876	90.625	192.189	404188.120	175.001
2	14:15:48	431336.830	40.625	106.250	68.750	95.313	192.189	404625.240	120.313
3	14:16:56	425118.600	48.438	87.500	73.438	59.375	145.313	403509.970	146.876
x		428938.870	45.313	102.084	88.021	81.771	176.564	404107.780	147.397
σ		3344.220	4.134	13.011	29.412	19.537	27.064	561.956	27.348
%RSD		0.780	9.123	12.745	33.415	23.892	15.328	0.139	18.554

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:22:31	16889.666	73.959	98.438	473.445	324628.240	167529.720	22657.015	26825.162	9718.930
2	14:23:39	16886.537	61.979	82.813	400.006	321841.230	164878.830	22372.192	26292.924	9664.205
3	14:24:47	16775.469	70.313	89.063	412.506	332429.600	171112.430	23297.106	27861.518	10048.846
x		16850.557	68.750	90.104	428.652	326299.690	167840.330	22775.438	26993.201	9810.660
σ		65.047	6.141	7.864	39.292	5488.505	3128.387	473.692	797.684	208.081
%RSD		0.386	8.932	8.728	9.166	1.682	1.864	2.080	2.955	2.121

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:22:31	1250.055	923.467	15646.063	71381.014	283285.890	517.197	8389.963	56572.733	234.377
2	14:23:39	1156.297	909.404	14874.928	72671.873	282189.510	489.071	8374.329	57637.915	232.814
3	14:24:47	1190.675	1015.661	15183.064	72153.631	287742.390	526.572	8660.437	54897.466	287.503
x		1199.009	949.511	15234.685	72068.840	284405.930	510.947	8474.909	56369.371	251.565
σ		47.431	57.718	388.151	649.593	2941.001	19.516	160.861	1381.497	31.133
%RSD		3.956	6.079	2.548	0.901	1.034	3.820	1.898	2.451	12.376

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:22:31	5796.488	1779.798	826.586	13629.937	1409.445	219395.300	6240.425	973.471	220.314
2	14:23:39	5547.952	1759.483	850.025	13678.420	1406.319	217631.120	6090.361	957.845	198.439
3	14:24:47	5921.539	1861.059	720.331	13848.897	1446.948	224405.030	6376.423	989.097	251.565
x		5755.327	1800.114	798.981	13719.085	1420.904	220477.150	6235.736	973.471	223.439
σ		190.165	53.749	69.114	115.005	22.609	3514.152	143.089	15.626	26.700
%RSD		3.304	2.986	8.650	0.838	1.591	1.594	2.295	1.605	11.950

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:22:31	1125.044	551.573	531.260	152.084	54.688	54.688	279.690	78.125	22.396
2	14:23:39	1060.977	551.573	479.696	151.563	50.000	50.000	273.440	86.979	12.500
3	14:24:47	1245.367	562.511	489.071	177.084	51.563	51.563	287.503	84.896	18.229
x		1143.796	555.219	500.009	160.244	52.083	52.083	280.211	83.334	17.708
σ		93.614	6.315	27.467	14.587	2.387	2.387	7.046	4.629	4.968
%RSD		8.185	1.137	5.493	9.103	4.583	4.583	2.514	5.555	28.057

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:22:31	843.775	1359.440	1504.767	917.217	2304.873	3.125	150709.550	139.063	953.157
2	14:23:39	742.207	1384.442	1559.460	896.903	2201.732	3.125	153259.900	146.876	889.090
3	14:24:47	798.460	1481.327	1490.703	885.965	2323.627	7.813	146647.280	154.688	934.406
x		794.814	1408.403	1518.310	900.028	2276.744	4.688	150205.580	146.876	925.551
σ		50.882	64.379	36.324	15.859	65.635	2.706	3334.992	7.813	32.938
%RSD		6.402	4.571	2.392	1.762	2.883	57.735	2.220	5.319	3.559

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:22:31	17.188	17.188	875.027	237.502	2847.159	1509.455	1536.020	2744.014	382161.370
2	14:23:39	10.938	10.938	942.219	231.252	2925.300	1621.967	1595.402	2668.999	387662.910
3	14:24:47	9.375	9.375	903.154	240.627	3100.336	1650.095	1617.279	2629.930	375667.500
x		12.500	12.500	906.800	236.460	2957.598	1593.839	1582.900	2680.981	381830.600
σ		4.134	4.134	33.744	4.774	129.642	74.420	42.047	57.978	6004.546
%RSD		33.072	33.072	3.721	2.019	4.383	4.669	2.656	2.163	1.573

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:22:31	417318.610	1892.313	4491.331	1290.683	1395.381	3314.447	390146.350	321.879
2	14:23:39	423239.010	1892.313	4327.218	1487.577	1439.135	3312.884	395374.690	398.443
3	14:24:47	405644.160	1879.811	4506.961	1598.527	1514.143	3491.052	383828.630	423.444
x		415400.590	1888.146	4441.837	1458.929	1449.553	3372.794	389783.220	381.255
σ		8952.868	7.218	99.570	155.909	60.063	102.417	5781.589	52.919
%RSD		2.155	0.382	2.242	10.687	4.144	3.037	1.483	13.880

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:30:22	15937.010	7803.693	1571.962	356.254	5549926.800	3779855.600	516407.740	609554.720	887011.580
2	14:31:31	16029.300	7744.286	1450.074	371.880	5521078.300	3770971.800	507988.820	595995.520	864145.440
3	14:32:39	15768.072	7740.117	1445.386	451.570	5504775.500	3753183.600	510561.770	598399.190	868620.600
x		15911.461	7762.699	1489.140	393.235	5525260.200	3768003.600	511652.780	601316.480	873259.210
σ		132.475	35.563	71.764	51.120	22864.313	13581.454	4314.191	7235.046	12118.279
%RSD		0.833	0.458	4.819	13.000	0.414	0.360	0.843	1.203	1.388

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:30:22	8418.105	44365.659	13836.385	65882.820	2463351.700	11163.735	182486.270	54326.540	5905.908
2	14:31:31	8493.149	44922.081	13734.724	65440.167	2397361.400	10855.686	181109.540	53206.712	5904.345
3	14:32:39	8374.329	44392.304	13814.489	66419.672	2415711.500	11044.893	180794.650	52320.636	5938.734
x		8428.527	44560.015	13795.199	65914.220	2425474.900	11021.438	181463.490	53284.629	5916.329
σ		60.092	313.842	53.505	490.507	34061.308	155.359	899.640	1005.219	19.419
%RSD		0.713	0.704	0.388	0.744	1.404	1.410	0.496	1.887	0.328

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:30:22	92176.106	86704.510	10966.708	320981.580	241778.830	5375012.600	136970.060	105983.870	23461.437
2	14:31:31	91654.013	85937.396	10544.515	318653.770	240021.440	5285509.600	132753.540	104062.010	23192.248
3	14:32:39	90671.209	85060.295	10891.650	321281.980	238670.970	5259063.200	133027.660	103563.090	23265.805
x		91500.443	85900.733	10800.958	320305.780	240157.080	5306528.500	134250.420	104536.330	23306.497
σ		764.112	822.721	225.234	1438.541	1558.363	60765.214	2359.262	1278.193	139.131
%RSD		0.835	0.958	2.085	0.449	0.649	1.145	1.757	1.223	0.597

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:30:22	118709.930	56018.995	39861.786	16208.148	1032.850	1032.850	3565.028	1467.263	20.313
2	14:31:31	116348.430	55843.309	39307.127	16024.086	1009.411	1009.411	3497.303	1463.617	19.271
3	14:32:39	116335.830	55355.478	39695.700	16181.034	1010.973	1010.973	3464.483	1450.074	21.354
x		117131.400	55739.260	39621.538	16137.756	1017.745	1017.745	3508.938	1460.318	20.313
σ		1367.063	343.778	284.669	99.370	13.105	13.105	51.273	9.057	1.042
%RSD		1.167	0.617	0.718	0.616	1.288	1.288	1.461	0.620	5.128

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:30:22	18343.019	32439.915	34908.223	20059.386	53757.204	1.563	142901.800	2201.732	103770.840
2	14:31:31	18105.216	32059.370	34568.336	19677.605	53434.121	1.563	141188.010	2322.064	103687.430
3	14:32:39	18147.457	32267.651	35154.138	20488.119	54125.780	7.813	140793.520	2287.683	104828.520
x		18198.564	32255.646	34876.899	20075.037	53772.368	3.646	141627.780	2270.493	104095.600
σ		126.872	190.556	294.155	405.483	346.079	3.608	1120.828	61.980	636.100
%RSD		0.697	0.591	0.843	2.020	0.644	98.974	0.791	2.730	0.611

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:30:22	1618.842	1618.842	102341.840	25489.908	67251.676	93605.669	89853.567	158731.670	380102.850
2	14:31:31	1581.338	1581.338	101435.410	24981.198	67399.244	94629.569	87999.895	156192.980	379135.460
3	14:32:39	1671.973	1671.973	101820.950	25230.072	67166.903	94610.695	88484.122	157390.390	378899.630
x		1624.051	1624.051	101866.070	25233.726	67272.608	94281.978	88779.195	157438.340	379379.310
σ		45.542	45.542	454.896	254.375	117.576	585.776	961.419	1270.024	637.597
%RSD		2.804	2.804	0.447	1.008	0.175	0.621	1.083	0.807	0.168

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:30:22	411712.540	209522.170	506502.350	167626.150	156662.130	369255.090	381854.900	943253.020
2	14:31:31	412328.360	207459.590	501670.640	165272.400	157644.730	373476.790	380296.970	946871.660
3	14:32:39	406782.080	209726.700	505369.520	169471.160	158031.780	372545.120	378439.230	952788.460
x		410274.330	208902.820	504514.170	167456.570	157446.220	371759.000	380197.040	947637.720
σ		3040.005	1254.056	2526.870	2104.512	706.074	2217.924	1710.028	4813.657
%RSD		0.741	0.600	0.501	1.257	0.448	0.597	0.450	0.508

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:38:17	15569.417	15037.076	2889.355	384.380	10565682.000	7269124.700	984500.880	1183874.700	1649517.600
2	14:39:25	15172.115	14924.458	2965.933	398.443	10499497.000	7258028.900	983369.410	1170645.200	1607312.900
3	14:40:32	14985.981	14694.533	2870.601	365.630	10365124.000	7130840.400	957373.850	1138236.200	1588635.500
x		15242.504	14885.356	2908.630	382.818	10476768.000	7219331.300	975081.380	1164252.100	1615155.300
σ		298.019	174.588	50.504	16.462	102192.770	76835.910	15345.604	23481.329	31189.474
%RSD		1.955	1.173	1.736	4.300	0.975	1.064	1.574	2.017	1.931

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:38:17	15383.278	85536.563	13545.481	64200.185	4697774.700	24375.000	354611.330	52251.634	11542.161
2	14:39:25	15646.063	84976.989	13371.880	64784.062	4585286.300	23937.976	347242.980	51771.766	11254.431
3	14:40:32	15611.651	83075.227	12830.759	63076.446	4517146.800	23325.568	341132.760	51522.430	10974.526
x		15546.997	84529.593	13249.374	64020.231	4600069.300	23879.514	347662.360	51848.610	11257.040
σ		142.825	1290.220	372.777	867.915	91216.861	527.153	6749.063	370.626	283.826
%RSD		0.919	1.526	2.814	1.356	1.983	2.208	1.941	0.715	2.521

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:38:17	177032.350	168742.300	20341.034	623121.640	464707.710	10313403.000	257336.460	204256.100	44005.172
2	14:39:25	173452.900	166574.900	20350.422	616122.990	460577.120	10127232.000	255337.540	202379.680	44022.412
3	14:40:32	172330.060	163895.740	19765.226	604903.780	454654.360	10066906.000	252867.380	198518.250	43393.931
x		174271.770	166404.310	20152.227	614716.140	459979.730	10169181.000	255180.460	201718.010	43807.172
σ		2455.766	2427.780	335.186	9190.049	5053.229	128490.960	2238.677	2925.593	357.981
%RSD		1.409	1.459	1.663	1.495	1.099	1.264	0.877	1.450	0.817

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:38:17	224509.780	108107.510	77360.459	31574.960	2115.782	2115.782	6697.403	2866.433	22.396
2	14:39:25	222698.960	107229.050	75954.508	30833.760	2025.144	2025.144	6782.860	2865.912	15.625
3	14:40:32	219528.570	105018.980	75420.439	30724.149	1998.577	1998.577	6618.199	2773.707	21.875
x		222245.770	106785.180	76245.135	31044.290	2046.501	2046.501	6699.487	2835.351	19.965
σ		2521.338	1591.393	1002.132	462.830	61.452	61.452	82.350	53.386	3.768
%RSD		1.134	1.490	1.314	1.491	3.003	3.003	1.229	1.883	18.872

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:38:17	35893.473	64181.350	69143.487	40541.821	104864.720	1.563	137603.290	4255.321	201317.960
2	14:39:25	35826.117	62941.477	68487.212	40093.684	104534.190	9.375	137850.970	4202.181	200647.690
3	14:40:32	34748.460	62076.768	67476.168	40007.505	103264.060	6.250	135800.220	4286.581	197347.510
x		35489.350	63066.532	68368.956	40214.337	104220.990	5.729	137084.830	4248.027	199771.060
σ		642.513	1057.849	839.927	286.864	845.042	3.932	1119.374	42.670	2125.439
%RSD		1.810	1.677	1.229	0.713	0.811	68.635	0.817	1.004	1.064

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:38:17	3195.670	3195.670	197067.120	49093.587	131573.440	185838.450	173762.890	307981.310	371220.680
2	14:39:25	3197.233	3197.233	197360.180	49389.918	131182.370	187013.000	172287.360	306100.910	371873.270
3	14:40:32	3119.091	3119.091	195498.920	48447.637	128027.380	183048.080	169613.460	304057.970	369867.500
x		3170.664	3170.664	196642.070	48977.047	130261.060	185299.840	171887.900	306046.730	370987.150
σ		44.671	44.671	1000.789	481.829	1944.286	2036.596	2103.355	1962.230	1023.071
%RSD		1.409	1.409	0.509	0.984	1.493	1.099	1.224	0.641	0.276

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:38:17	403402.310	411365.250	992146.180	328788.970	309718.260	734372.940	374769.360	1861828.400
2	14:39:25	405255.220	409302.560	985996.200	326690.070	309627.260	730487.380	374966.630	1883114.800
3	14:40:32	401879.020	407884.740	981226.180	327311.880	307518.370	729286.090	373059.860	1859922.800
x		403512.180	409517.520	986456.190	327596.970	308954.630	731382.130	374265.280	1868288.700
σ		1690.783	1750.181	5474.514	1078.102	1244.669	2658.842	1048.578	12875.100
%RSD		0.419	0.427	0.555	0.329	0.403	0.364	0.280	0.689

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:46:09	15057.932	28345.281	5565.146	510.947	19991775.000	13878802.000	1871080.400	2222825.600	3123074.200
2	14:47:17	15112.677	28816.013	5660.496	481.258	20418729.000	14180631.000	1914391.700	2247160.700	3177436.500
3	14:48:25	15026.649	29407.320	5882.461	560.949	20720698.000	14272372.000	1919855.400	2263112.000	3216885.100
x		15065.753	28856.204	5702.701	517.718	20377067.000	14110602.000	1901775.800	2244366.100	3172465.300
σ		43.544	532.159	162.813	40.274	366243.280	205918.290	26723.004	20288.106	47102.578
%RSD		0.289	1.844	2.855	7.779	1.797	1.459	1.405	0.904	1.485

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:46:09	30769.782	160207.380	12865.165	64306.913	8820350.300	44866.238	673460.210	50498.471	21705.540
2	14:47:17	32761.252	162509.730	12808.865	64755.809	8908783.700	44794.359	678784.790	51125.696	22060.771
3	14:48:25	32345.045	164393.600	13162.311	65713.291	9048950.500	45501.648	686880.170	51727.858	22380.017
x		31958.693	162370.230	12945.447	64925.338	8926028.200	45054.082	679708.390	51117.341	22048.776
σ		1050.447	2096.593	189.908	718.352	115271.580	389.266	6757.486	614.736	337.398
%RSD		3.287	1.291	1.467	1.106	1.291	0.864	0.994	1.203	1.530

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:46:09	335668.080	321211.670	38193.174	1194029.200	892307.880	19562228.000	486670.180	388444.660	84343.564
2	14:47:17	338664.120	322491.590	39246.022	1197716.400	896510.710	19595463.000	496883.460	394701.770	85302.357
3	14:48:25	345515.920	327470.130	39090.910	1216468.400	915830.260	19969527.000	496886.540	394910.550	84807.234
x		339949.370	323724.460	38843.369	1202738.000	901549.620	19709072.000	493480.060	392685.660	84817.718
σ		5048.158	3306.366	568.401	12032.899	12544.661	226171.400	5897.529	3674.295	479.482
%RSD		1.485	1.021	1.463	1.000	1.391	1.148	1.195	0.936	0.565

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:46:09	423486.820	204607.960	147371.870	60058.272	3967.738	3967.738	12896.965	5503.664	26.042
2	14:47:17	434022.620	204582.600	148862.200	61025.901	3973.990	3973.990	12851.090	5438.014	23.438
3	14:48:25	435723.230	207099.730	149247.440	61154.575	4055.263	4055.263	13128.426	5611.519	21.354
x		431077.550	205430.100	148493.840	60746.249	3998.997	3998.997	12958.827	5517.732	23.611
σ		6628.532	1446.001	990.561	599.270	48.828	48.828	148.657	87.604	2.349
%RSD		1.538	0.704	0.667	0.987	1.221	1.221	1.147	1.588	9.947

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:46:09	69807.643	123739.840	132666.290	77580.397	203913.770	7.813	133696.140	7983.480	382369.970
2	14:47:17	70010.193	126151.420	134598.300	77186.082	204397.160	1.563	133251.390	7875.608	386487.960
3	14:48:25	70707.364	125596.570	135069.910	78994.364	205446.430	7.813	135230.790	8239.876	385332.370
x		70175.067	125162.610	134111.500	77920.281	204585.790	5.729	134059.440	8032.988	384730.100
σ		471.977	1262.999	1273.607	950.848	783.548	3.608	1038.511	187.112	2124.032
%RSD		0.673	1.009	0.950	1.220	0.383	62.984	0.775	2.329	0.552

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:46:09	6152.887	6152.887	373755.820	93981.563	256354.670	365706.150	335421.770	601624.240	368214.680
2	14:47:17	6066.913	6066.913	379262.190	96197.804	257900.870	366320.020	340767.960	602288.890	366515.570
3	14:48:25	6206.035	6206.035	378476.130	95700.732	257105.480	367506.160	340084.780	608624.090	368665.140
x		6141.945	6141.945	377164.710	95293.366	257120.340	366510.780	338758.170	604179.070	367798.460
σ		70.204	70.204	2978.233	1162.924	773.212	915.039	2909.529	3863.813	1133.621
%RSD		1.143	1.143	0.790	1.220	0.301	0.250	0.859	0.640	0.308

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:46:09	400008.860	792866.010	1935770.900	640333.230	600252.690	1420647.100	367062.150	3627003.300
2	14:47:17	402595.650	802154.220	1928315.800	642445.270	602345.910	1426638.200	366874.610	3622330.200
3	14:48:25	400792.880	802534.070	1922795.400	644738.960	610557.130	1434465.300	365589.150	3624438.000
x		401132.470	799184.760	1928960.700	642505.820	604385.240	1427250.200	366508.640	3624590.500
σ		1326.407	5475.500	6511.755	2203.490	5446.515	6929.403	801.798	2340.273
%RSD		0.331	0.685	0.338	0.343	0.901	0.486	0.219	0.065

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	14:54:02	15400.484	58113.273	10935.434	556.261	39983017.000	27533582.000	3746307.500	4426704.600	6197804.000
2	14:55:10	14914.031	57577.778	11428.007	548.448	39525366.000	27487755.000	3702043.000	4379324.100	6247023.200
3	14:56:18	14746.670	58520.137	11359.202	579.699	40153557.000	27776430.000	3791310.900	4443230.600	6239401.500
x		15020.395	58070.396	11240.881	561.469	39887313.000	27599256.000	3746553.800	4416419.800	6228076.200
σ		339.637	472.641	266.753	16.264	324846.570	155138.900	44634.443	33171.441	26492.019
%RSD		2.261	0.814	2.373	2.897	0.814	0.562	1.191	0.751	0.425

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	14:54:02	59630.283	323963.400	13331.217	64862.542	17393543.000	86849.270	1351986.400	49854.026	43585.137
2	14:55:10	58813.675	324434.850	13407.852	64711.861	17418774.000	85207.556	1356972.200	50810.512	43572.599
3	14:56:18	59993.805	322568.290	13669.036	65041.477	17401788.000	86297.240	1379245.000	50194.277	44335.879
x		59479.254	323655.510	13469.368	64871.960	17404702.000	86118.022	1362734.600	50286.271	43831.205
σ		604.387	970.622	177.112	165.010	12865.302	835.402	14514.138	484.834	437.106
%RSD		1.016	0.300	1.315	0.254	0.074	0.970	1.065	0.964	0.997

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	14:54:02	670988.510	636735.470	75797.427	2207172.600	1764913.900	38780591.000	959437.860	766204.550	166348.850
2	14:55:10	667271.920	633285.520	75371.746	2221015.200	1733172.400	38675992.000	952507.860	765234.240	165286.630
3	14:56:18	677435.450	644256.990	76177.566	2240073.400	1783461.500	38807177.000	962360.780	769822.740	167883.840
x		671898.630	638092.660	75782.246	2222753.700	1760515.900	38754587.000	958102.170	767087.180	166506.440
σ		5142.529	5610.242	403.124	16519.185	25431.355	69351.213	5060.441	2418.235	1305.757
%RSD		0.765	0.879	0.532	0.743	1.445	0.179	0.528	0.315	0.784

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	14:54:02	832792.790	396972.790	284514.640	116896.110	7708.329	7708.329	24777.197	10569.534	29.688
2	14:55:10	828196.160	395291.170	283743.270	117495.260	7480.083	7480.083	24838.762	10608.104	28.646
3	14:56:18	840834.560	402341.770	289885.060	119548.130	7811.510	7811.510	25391.295	10757.174	20.313
x		833941.170	398201.910	286047.660	117979.830	7666.641	7666.641	25002.418	10644.937	26.215
σ		6396.984	3682.498	3345.595	1390.830	169.601	169.601	338.181	99.094	5.138
%RSD		0.767	0.925	1.170	1.179	2.212	2.212	1.353	0.931	19.601

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	14:54:02	134554.140	242954.780	259992.970	150554.800	396812.170	9.375	127701.040	15603.830	739846.350
2	14:55:10	134950.030	238626.480	257331.370	151317.480	398118.070	12.500	129976.100	15334.789	737715.270
3	14:56:18	136926.520	245395.970	261808.500	151990.190	404779.520	4.688	128484.580	15478.694	743694.910
x		135476.900	242325.740	259710.950	151287.490	399903.250	8.854	128720.570	15472.437	740418.840
σ		1270.920	3428.303	2251.849	718.166	4273.151	3.932	1155.748	134.630	3030.648
%RSD		0.938	1.415	0.867	0.475	1.069	44.411	0.898	0.870	0.409

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	14:54:02	11648.497	11648.497	721205.010	179794.650	493130.890	701132.490	653247.070	1164843.900	356160.090
2	14:55:10	11254.431	11254.431	721347.890	179362.710	493687.110	699084.120	648719.470	1156735.600	357082.690
3	14:56:18	11815.822	11815.822	732038.850	182943.630	500449.210	707763.390	661792.860	1185145.800	355743.650
x		11572.917	11572.917	724863.920	180700.330	495755.740	702660.000	654586.470	1168908.400	356328.810
σ		288.226	288.226	6214.084	1954.721	4074.170	4536.783	6638.812	14634.692	685.281
%RSD		2.491	2.491	0.857	1.082	0.822	0.646	1.014	1.252	0.192

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	14:54:02	386133.250	1509784.300	3606466.000	1192648.500	1135100.900	2698845.000	345122.200	6900947.700
2	14:55:10	386675.760	1513640.200	3603015.200	1192292.500	1123612.600	2692911.200	347995.340	6869736.800
3	14:56:18	385751.260	1539946.000	3646658.600	1204613.700	1152158.900	2752070.900	346945.250	6963733.000
x		386186.760	1521123.500	3618713.200	1196518.200	1136957.500	2714609.000	346687.590	6911472.500
σ		464.565	16414.400	24262.838	7013.112	14363.459	32578.340	1453.796	47873.779
%RSD		0.120	1.079	0.670	0.586	1.263	1.200	0.419	0.693

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:01:55	15251.887	5644.344	5696.448	342.192	860593.470	339799.990	46232.502	53830.919	167207.220
2	15:03:03	15203.398	5605.787	5572.962	337.504	860953.270	336114.320	44928.351	53583.115	164793.480
3	15:04:11	14892.133	5553.684	5365.070	384.380	851513.510	338795.300	46436.287	54828.452	165942.600
x		15115.806	5601.271	5544.827	354.692	857686.750	338236.540	45865.713	54080.828	165981.100
σ		195.218	45.499	167.471	25.817	5349.214	1905.308	818.149	659.209	1207.332
%RSD		1.291	0.812	3.020	7.279	0.624	0.563	1.784	1.219	0.727

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:01:55	27780.109	957.845	13187.334	64385.391	769374.540	1703.227	28069.737	52033.653	20148.574
2	15:03:03	27607.901	889.090	13182.642	63880.004	762607.010	1621.967	27440.391	51094.334	19627.537
3	15:04:11	27748.799	946.906	12840.143	64219.019	761521.660	1626.655	27875.608	51086.494	20317.563
x		27712.270	931.280	13070.040	64161.471	764501.070	1650.616	27795.245	51404.827	20031.224
σ		91.732	36.945	199.110	257.561	4255.295	45.622	322.277	544.593	359.670
%RSD		0.331	3.967	1.523	0.401	0.557	2.764	1.159	1.059	1.796

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:01:55	67198.301	64041.663	8013.184	51676.108	89252.945	841005.110	21225.131	78793.258	17226.004
2	15:03:03	67215.569	63275.762	7910.002	51117.855	88385.074	826771.790	21599.128	77713.933	17318.303
3	15:04:11	66312.928	62385.923	7995.987	50250.725	88297.032	824891.040	21416.041	78103.549	17147.785
x		66908.932	63234.449	7973.058	51014.896	88645.017	830889.320	21413.433	78203.580	17230.698
σ		516.227	828.643	55.281	718.248	528.318	8810.863	187.012	546.572	85.356
%RSD		0.772	1.310	0.693	1.408	0.596	1.060	0.873	0.699	0.495

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:01:55	44428.353	21107.770	29906.271	23735.326	1546.959	1546.959	5113.936	2210.067	18.229
2	15:03:03	43408.036	20794.811	29672.973	23682.113	1482.890	1482.890	5132.172	2172.040	17.188
3	15:04:11	44462.836	20746.303	29621.303	23759.325	1596.964	1596.964	5062.876	2137.139	16.146
x		44099.742	20882.962	29733.515	23725.588	1542.271	1542.271	5102.995	2173.082	17.188
σ		599.282	196.195	151.825	39.516	57.182	57.182	35.920	36.475	1.042
%RSD		1.359	0.939	0.511	0.167	3.708	3.708	0.704	1.678	6.061

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:01:55	64959.857	116157.830	124014.080	72731.551	189957.720	4.688	135710.310	1676.661	78266.939
2	15:03:03	64419.921	116249.190	124942.430	72475.567	190424.820	3.125	135377.480	1771.985	77533.267
3	15:04:11	64432.477	116310.630	124480.610	72354.644	190353.560	3.125	136300.260	1700.101	77173.515
x		64604.085	116239.220	124479.040	72520.587	190245.370	3.646	135796.020	1716.249	77657.907
σ		308.172	76.886	464.177	192.444	251.643	0.902	467.320	49.671	557.266
%RSD		0.477	0.066	0.373	0.265	0.132	24.744	0.344	2.894	0.718

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:01:55	1295.371	1295.371	76185.420	18817.072	240776.170	139240.920	13561.121	24217.384	363117.930
2	15:03:03	1276.620	1276.620	75627.781	18768.571	240736.440	139611.700	13568.941	23995.135	361228.750
3	15:04:11	1342.251	1342.251	76064.465	18884.348	242749.770	139829.430	13487.614	24311.294	364010.540
x		1304.747	1304.747	75959.222	18823.331	241420.790	139560.680	13539.225	24174.604	362785.740
σ		33.805	33.805	293.338	58.142	1151.101	297.557	44.867	162.363	1420.336
%RSD		2.591	2.591	0.386	0.309	0.477	0.213	0.331	0.672	0.392

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:01:55	393018.810	316811.920	772166.150	261977.170	232371.510	560241.390	365768.660	2845.596
2	15:03:03	391578.500	316398.210	760940.310	259452.020	229356.170	561139.690	368280.410	2764.330
3	15:04:11	391894.810	318974.880	765298.490	261051.070	232517.610	564220.030	368956.900	3500.429
x		392164.040	317395.000	766134.980	260826.760	231415.100	561867.040	367668.660	3036.785
σ		756.962	1383.763	5659.474	1277.432	1784.574	2086.665	1679.852	403.578
%RSD		0.193	0.436	0.739	0.490	0.771	0.371	0.457	13.290

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:09:49	15109.549	22.396	146.876	348.442	112888.020	6287.321	857.838	1018.786	1890.750
2	15:10:57	15248.759	22.396	157.813	323.441	111908.490	6548.376	848.463	1042.226	2003.265
3	15:12:05	15588.188	14.063	123.438	348.442	111911.640	6232.609	934.406	1081.291	1961.072
x		15315.498	19.618	142.709	340.108	112236.050	6356.102	880.236	1047.434	1951.696
σ		246.200	4.811	17.562	14.434	564.629	168.746	47.146	31.576	56.841
%RSD		1.608	24.525	12.306	4.244	0.503	2.655	5.356	3.015	2.912

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:09:49	800.022	910.967	13331.217	64809.175	84288.553	25.000	609.388	51879.970	40.625
2	15:10:57	662.515	903.154	13534.533	64586.294	83164.808	25.000	685.954	51894.084	42.188
3	15:12:05	750.020	768.771	13371.880	65816.892	83398.980	21.875	682.829	52974.602	29.688
x		737.519	860.964	13412.544	65070.787	83617.447	23.958	659.390	52249.552	37.500
σ		69.601	79.937	107.585	655.685	592.871	1.804	43.331	627.951	6.811
%RSD		9.437	9.285	0.802	1.008	0.709	7.531	6.571	1.202	18.162

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:09:49	1642.282	357.817	559.386	2764.330	493.759	33108.634	1540.708	201.564	62.500
2	15:10:57	1696.976	371.880	559.386	2681.502	551.573	33904.247	1536.020	220.314	64.063
3	15:12:05	1731.355	407.818	476.570	2911.234	537.510	33710.038	1514.143	218.752	71.875
x		1690.204	379.172	531.781	2785.689	527.614	33574.307	1530.290	213.543	66.146
σ		44.921	25.786	47.814	116.346	30.151	414.810	14.179	10.404	5.023
%RSD		2.658	6.801	8.991	4.177	5.715	1.235	0.927	4.872	7.593

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:09:49	278.128	107.813	160.938	51.042	7.813	7.813	126.042	20.313	13.542
2	15:10:57	309.378	132.813	134.376	58.854	7.813	7.813	120.834	19.271	17.188
3	15:12:05	262.502	129.688	104.688	38.542	6.250	6.250	137.501	18.750	16.146
x		283.336	123.438	133.334	49.479	7.292	7.292	128.126	19.444	15.625
σ		23.868	13.622	28.140	10.246	0.902	0.902	8.526	0.796	1.878
%RSD		8.424	11.035	21.105	20.708	12.372	12.372	6.655	4.092	12.019

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:09:49	167.188	246.877	292.190	167.188	429.694	3.125	138516.740	120.313	193.751
2	15:10:57	129.688	242.190	234.377	160.938	371.880	1.563	138202.780	109.375	203.126
3	15:12:05	140.626	220.314	231.252	132.813	362.505	1.563	140129.230	123.438	151.563
x		145.834	236.460	252.606	153.647	388.026	2.083	138949.580	117.709	182.814
σ		19.285	14.178	34.316	18.311	36.389	0.902	1033.591	7.384	27.467
%RSD		13.224	5.996	13.585	11.918	9.378	43.301	0.744	6.273	15.024

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:09:49	6.250	6.250	193.751	54.688	550.011	565.636	126.563	262.502	362659.640
2	15:10:57	3.125	3.125	167.188	51.563	535.948	584.387	143.751	245.315	367849.190
3	15:12:05	1.563	1.563	207.814	50.000	493.759	425.006	145.313	223.439	372201.970
x		3.646	3.646	189.585	52.083	526.572	525.010	138.542	243.752	367570.270
σ		2.387	2.387	20.631	2.387	29.274	87.112	10.404	19.578	4777.280
%RSD		65.465	65.465	10.882	4.583	5.559	16.592	7.509	8.032	1.300

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:09:49	392313.890	651.577	1720.416	501.571	464.070	1026.599	371871.660	1145.358
2	15:10:57	399326.090	585.950	1511.017	496.884	454.695	1087.541	376705.230	1218.802
3	15:12:05	401625.150	523.447	1467.263	481.258	462.507	1064.102	376982.720	1232.866
x		397755.040	586.991	1566.232	493.238	460.424	1059.414	375186.540	1199.009
σ		4850.363	64.071	135.308	10.636	5.023	30.740	2874.118	46.992
%RSD		1.219	10.915	8.639	2.156	1.091	2.902	0.766	3.919

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:17:43	13243.636	18.229	81.250	2343.942	35720553.000	24085971.000	3251061.500	3861737.200	27501446.000
2	15:18:52	13046.580	19.271	85.938	2376.760	36111583.000	24105702.000	3257468.100	3898401.200	27721036.000
3	15:20:00	13271.787	21.875	71.875	2448.647	36556074.000	24580745.000	3329415.000	3941829.000	27983343.000
x		13187.334	19.792	79.688	2389.783	36129403.000	24257473.000	3279314.900	3900655.800	27735275.000
σ		122.707	1.878	7.160	53.554	418045.600	280135.710	43506.094	40093.491	241264.090
%RSD		0.930	9.488	8.985	2.241	1.157	1.155	1.327	1.028	0.870

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:17:43	3769.040	1413095.700	161651.640	195712.750	31322743.000	78097.294	1221549.100	46422.178	83193.097
2	15:18:52	3020.922	1414500.000	162528.690	200288.010	31382496.000	79281.859	1229859.300	47588.507	84076.371
3	15:20:00	4032.462	1443431.000	165825.630	206167.650	31905642.000	81783.245	1256013.300	47260.859	84950.268
x		3607.475	1423675.500	163335.320	200722.800	31536960.000	79720.799	1235807.200	47090.515	84073.245
σ		524.767	17123.135	2200.806	5240.991	320682.420	1881.770	17985.512	601.534	878.589
%RSD		14.547	1.203	1.347	2.611	1.017	2.360	1.455	1.277	1.045

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:17:43	9554.757	11645.370	4442.878	4020698.900	7472.513	69827388.000	1704071.000	895.341	910.967
2	15:18:52	10447.569	11618.785	4685.143	4031181.900	8603.682	70011093.000	1719951.500	879.715	965.658
3	15:20:00	10267.751	12128.584	5039.951	4118304.900	8544.960	71018993.000	1735234.400	929.718	976.596
x		10090.026	11797.580	4722.658	4056728.600	8207.052	70285825.000	1719752.300	901.591	951.073
σ		472.195	286.966	300.299	53583.639	636.806	641551.690	15582.675	25.581	35.161
%RSD		4.680	2.432	6.359	1.321	7.759	0.913	0.906	2.837	3.697

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:17:43	3156.599	1621.967	1729.792	130.730	29.688	29.688	124.480	18.750	30.729
2	15:18:52	3262.873	1679.786	1764.171	140.105	34.375	34.375	118.230	17.188	36.979
3	15:20:00	3272.250	1628.218	1704.789	145.834	39.063	39.063	129.688	12.500	27.083
x		3230.574	1643.324	1732.918	138.890	34.375	34.375	124.132	16.146	31.597
σ		64.236	31.732	29.814	7.625	4.688	4.688	5.737	3.253	5.005
%RSD		1.988	1.931	1.720	5.490	13.636	13.636	4.622	20.145	15.839

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:17:43	254528.700	454264.110	491528.630	286954.910	752119.220	4.688	123342.680	62.500	106.250
2	15:18:52	256198.780	457713.830	495330.040	285141.010	756440.200	7.813	124672.900	100.000	114.063
3	15:20:00	258774.270	461766.160	499541.700	292313.490	773250.640	3.125	123244.970	100.000	131.251
x		256500.580	457914.700	495466.790	288136.470	760603.350	5.208	123753.520	87.500	117.188
σ		2138.816	3755.056	4008.286	3729.367	11163.919	2.387	797.709	21.651	12.790
%RSD		0.834	0.820	0.809	1.294	1.468	45.826	0.645	24.744	10.914

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:17:43	410.943	410.943	89.063	446.882	264.065	837.525	192.189	365.630	350241.420
2	15:18:52	378.130	378.130	96.875	451.570	223.439	945.344	200.001	359.380	353749.730
3	15:20:00	368.755	368.755	90.625	489.071	240.627	915.654	210.939	314.066	352322.930
x		385.943	385.943	92.188	462.508	242.710	899.508	201.043	346.358	352104.700
σ		22.153	22.153	4.134	23.124	20.393	55.694	9.418	28.140	1764.307
%RSD		5.740	5.740	4.484	5.000	8.402	6.192	4.685	8.125	0.501

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:17:43	382536.850	104.688	292.190	6024.708	4744.538	11820.513	342886.500	200.001
2	15:18:52	387667.730	140.626	242.190	5769.915	4805.496	11637.551	346457.050	250.002
3	15:20:00	384842.870	106.250	262.502	5705.827	4813.311	11617.222	348312.300	214.064
x		385015.820	117.188	265.627	5833.483	4787.781	11691.762	345885.290	221.356
σ		2569.808	20.313	25.147	168.677	37.653	111.964	2757.715	25.786
%RSD		0.667	17.333	9.467	2.892	0.786	0.958	0.797	11.649

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:25:38	13282.735	1071.915	68.750	2673.688	37289596.000	25087959.000	3391935.600	4022872.600	28591405.000
2	15:26:46	13681.548	1099.522	48.438	2537.725	36887220.000	24963755.000	3410571.400	4009729.900	28664033.000
3	15:27:54	13722.212	1121.919	37.500	2514.284	36982353.000	24985197.000	3416923.700	4062483.000	28558308.000
x		13562.165	1097.785	51.563	2575.232	37053056.000	25012304.000	3406476.900	4031695.200	28604582.000
σ		242.846	25.047	15.858	86.067	210299.100	66390.772	12987.484	27460.887	54080.283
%RSD		1.791	2.282	30.754	3.342	0.568	0.265	0.381	0.681	0.189

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:25:38	4211.589	1479598.200	169230.840	206801.710	31903161.000	82588.288	1263705.600	47963.194	86031.711
2	15:26:46	4585.648	1475355.300	169777.900	207299.470	31961547.000	82263.396	1279811.500	47945.949	86430.985
3	15:27:54	3906.020	1473822.600	168688.550	209858.300	32434478.000	82223.143	1260528.400	48038.446	86379.110
x		4234.419	1476258.700	169232.430	207986.500	32099729.000	82358.276	1268015.100	47982.530	86280.602
σ		340.389	2991.910	544.679	1640.027	291367.910	200.211	10338.731	49.187	217.101
%RSD		8.039	0.203	0.322	0.789	0.908	0.243	0.815	0.103	0.252

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:25:38	23027.920	24461.550	6331.090	4139076.400	25626.844	72318741.000	1767180.200	15711.760	4084.959
2	15:26:46	22977.839	24402.073	6406.124	4137147.500	26495.310	72006170.000	1758279.000	15366.072	4305.336
3	15:27:54	23594.468	24366.074	6401.434	4135628.600	26269.694	71488212.000	1766015.900	15805.614	4300.647
x		23200.076	24409.899	6379.549	4137284.200	26130.616	71937708.000	1763825.000	15627.815	4230.314
σ		342.471	48.216	42.032	1727.930	450.628	419475.580	4838.171	231.483	125.903
%RSD		1.476	0.198	0.659	0.042	1.725	0.583	0.274	1.481	2.976

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:25:38	11241.922	5547.952	4424.122	2396.034	168.751	168.751	597.408	202.606	40.625
2	15:26:46	11381.094	5574.525	4683.580	2490.842	184.376	184.376	589.596	233.856	32.813
3	15:27:54	11387.349	5660.496	4675.765	2428.331	209.377	209.377	623.451	258.336	31.250
x		11336.788	5594.324	4594.489	2438.403	187.501	187.501	603.485	231.599	34.896
σ		82.217	58.827	147.594	48.200	20.492	20.492	17.727	27.934	5.023
%RSD		0.725	1.052	3.212	1.977	10.929	10.929	2.937	12.061	14.394

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:25:38	260104.350	465041.760	501830.800	291249.910	765344.610	4.688	124505.830	365.630	13933.354
2	15:26:46	259725.680	469677.270	506376.110	294389.850	775777.570	4.688	124092.890	403.131	14643.439
3	15:27:54	259932.510	466734.710	501874.490	292163.590	774124.220	1.563	126660.590	418.756	14477.645
x		259920.850	467151.240	503360.470	292601.120	771748.800	3.646	125086.430	395.839	14351.479
σ		189.605	2345.659	2611.715	1615.050	5607.461	1.804	1378.803	27.304	371.475
%RSD		0.073	0.502	0.519	0.552	0.727	49.487	1.102	6.898	2.588

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:25:38	635.952	635.952	13872.357	4111.529	192.189	14679.413	2801.837	4953.984	345623.150
2	15:26:46	629.701	629.701	13678.420	4008.375	221.877	14499.542	2717.446	5038.388	348035.360
3	15:27:54	656.265	656.265	13792.593	4009.938	170.314	14889.005	2739.325	4971.177	350993.930
x		640.639	640.639	13781.123	4043.281	194.793	14689.320	2752.869	4987.850	348217.480
σ		13.888	13.888	97.476	59.110	25.880	194.920	43.796	44.604	2690.018
%RSD		2.168	2.168	0.707	1.462	13.286	1.327	1.591	0.894	0.773

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:25:38	379319.940	30454.302	74421.471	31066.555	26637.311	64421.490	340929.560	218.752
2	15:26:46	379940.810	31113.532	74157.604	31677.269	26646.703	64784.062	343656.230	204.689
3	15:27:54	383647.290	30712.666	74997.911	31462.734	26510.513	65787.067	343694.640	210.939
x		380969.350	30760.167	74525.662	31402.186	26598.176	64997.540	342760.140	211.460
σ		2339.850	332.172	429.734	309.826	76.063	707.375	1585.451	7.046
%RSD		0.614	1.080	0.577	0.987	0.286	1.088	0.463	3.332

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:33:33	14690.362	8.854	48.438	539.073	4204558.000	2806369.400	369210.200	447594.400	3191070.200
2	15:34:41	14604.336	7.813	43.750	576.574	4205710.100	2798881.600	369518.010	443687.830	3189738.000
3	15:35:50	14516.747	6.771	57.813	585.950	4213471.500	2809212.700	371594.270	444422.650	3180286.800
x		14603.815	7.813	50.000	567.199	4207913.200	2804821.200	370107.490	445234.960	3187031.600
σ		86.809	1.042	7.160	24.805	4847.988	5336.721	1296.753	2076.105	5879.108
%RSD		0.594	13.333	14.321	4.373	0.115	0.190	0.350	0.466	0.184

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:33:33	1572.102	163977.920	29300.330	78882.813	3672126.200	10099.849	138237.490	51226.054	9409.348
2	15:34:41	1414.049	162113.070	29461.598	79740.681	3642256.500	10324.111	138354.240	51019.066	9262.377
3	15:35:50	1540.491	163290.430	29383.312	78728.842	3630469.500	10174.603	139158.870	50686.635	9165.439
x		1508.881	163127.140	29381.747	79117.445	3648284.000	10199.521	138583.530	50977.252	9279.055
σ		83.634	943.089	80.646	545.201	21472.545	114.189	501.665	272.130	122.807
%RSD		5.543	0.578	0.274	0.689	0.589	1.120	0.362	0.534	1.323

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:33:33	3889.592	1601.652	1456.324	471658.140	915.654	8039003.000	198730.220	165.626	128.126
2	15:34:41	3864.585	1531.332	1346.939	475678.830	1032.850	8036882.400	200174.740	156.251	148.438
3	15:35:50	3630.149	1595.402	1407.882	476205.320	968.783	8038498.500	201089.500	145.313	134.376
x		3794.775	1576.129	1403.715	474514.100	972.429	8038128.000	199998.160	155.730	136.980
σ		143.118	38.921	54.812	2487.302	58.683	1107.785	1189.512	10.166	10.404
%RSD		3.771	2.469	3.905	0.524	6.035	0.014	0.595	6.528	7.595

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:33:33	529.697	281.253	309.378	47.917	7.813	7.813	123.959	19.792	15.625
2	15:34:41	473.445	243.752	351.567	46.875	6.250	6.250	113.542	14.583	25.000
3	15:35:50	487.508	221.877	332.816	44.792	12.500	12.500	122.917	16.667	22.917
x		496.884	248.961	331.254	46.528	8.854	8.854	120.139	17.014	21.181
σ		29.274	30.029	21.138	1.591	3.253	3.253	5.737	2.621	4.923
%RSD		5.892	12.062	6.381	3.420	36.735	36.735	4.775	15.408	23.242

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:33:33	27471.701	50274.245	53558.021	31854.225	82841.061	4.688	136011.590	125.001	75.000
2	15:34:41	27554.673	50071.974	54042.653	31525.371	83320.399	7.813	136663.080	82.813	43.750
3	15:35:50	28086.959	50289.925	54348.498	31584.878	83845.331	7.813	135954.800	114.063	18.750
x		27704.445	50212.048	53983.057	31654.825	83335.597	6.771	136209.820	107.292	45.833
σ		333.855	121.561	398.594	175.230	502.308	1.804	393.554	21.894	28.183
%RSD		1.205	0.242	0.738	0.554	0.603	26.647	0.289	20.406	61.490

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:33:33	32.813	32.813	60.938	76.563	170.314	187.501	50.000	95.313	368020.720
2	15:34:41	51.563	51.563	32.813	64.063	118.750	160.938	39.063	81.250	365289.440
3	15:35:50	40.625	40.625	34.375	64.063	109.375	165.626	39.063	64.063	363704.450
x		41.667	41.667	42.708	68.229	132.813	171.355	42.708	80.209	365671.540
σ		9.418	9.418	15.806	7.217	32.813	14.178	6.315	15.651	2183.354
%RSD		22.604	22.604	37.010	10.577	24.706	8.274	14.786	19.513	0.597

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:33:33	396755.950	232.814	603.138	770.333	689.079	1782.924	365944.960	234.377
2	15:34:41	395981.780	178.126	340.629	725.018	645.327	1579.775	370435.050	200.001
3	15:35:50	393404.210	129.688	326.566	732.831	659.390	1465.700	366108.450	178.126
x		395380.650	180.210	423.444	742.728	664.599	1609.466	367496.160	204.168
σ		1754.871	51.595	155.778	24.224	22.336	160.683	2546.472	28.356
%RSD		0.444	28.630	36.788	3.262	3.361	9.984	0.693	13.889

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:41:29	14451.055	120.313	51.563	592.200	4138118.200	2722409.400	357760.270	436032.450	3090025.000
2	15:42:38	14590.259	116.667	46.875	606.263	4147714.800	2742927.900	358987.360	433521.810	3100337.400
3	15:43:46	14529.260	123.438	31.250	578.137	4114176.300	2746741.100	364986.530	437406.320	3116790.000
x		14523.525	120.139	43.229	592.200	4133336.500	2737359.500	360578.060	435653.530	3102384.100
σ		69.779	3.389	10.636	14.063	17273.006	13086.765	3866.839	1969.780	13499.358
%RSD		0.480	2.821	24.603	2.375	0.418	0.478	1.072	0.452	0.435

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:41:29	1619.518	157693.700	28783.656	76058.182	3546556.800	10332.737	133010.090	50159.781	9199.836
2	15:42:38	1493.075	159328.880	28846.282	77060.407	3597311.200	10048.096	136906.010	51277.802	9332.735
3	15:43:46	2488.810	156546.820	28526.892	77431.153	3612684.900	10453.493	136880.770	51069.245	9029.415
x		1867.134	157856.470	28718.943	76849.914	3585517.600	10278.109	135598.960	50835.609	9187.329
σ		542.086	1398.157	169.243	710.277	34605.612	208.146	2242.060	594.501	152.046
%RSD		29.033	0.886	0.589	0.924	0.965	2.025	1.653	1.169	1.655

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:41:29	4550.725	2826.842	1300.059	462553.520	2703.381	7798064.500	196417.140	1695.413	434.382
2	15:42:38	4658.572	2800.274	1468.826	469590.100	2753.390	7907337.700	196568.060	1726.667	457.820
3	15:43:46	4478.827	2903.420	1442.260	468109.870	2783.084	7833139.500	197455.100	1725.104	465.633
x		4562.708	2843.512	1403.715	466751.160	2746.618	7846180.600	196813.440	1715.728	452.611
σ		90.470	53.555	90.746	3709.838	40.281	55791.661	560.800	17.611	16.264
%RSD		1.983	1.883	6.465	0.795	1.467	0.711	0.285	1.026	3.593

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:41:29	1418.821	700.017	679.704	273.961	37.500	37.500	175.001	43.229	19.792
2	15:42:38	1368.816	690.642	645.327	280.732	25.000	25.000	171.876	43.229	21.354
3	15:43:46	1423.508	659.390	653.140	281.774	12.500	12.500	153.126	34.375	20.313
x		1403.715	683.350	659.390	278.822	25.000	25.000	166.668	40.278	20.486
σ		30.314	21.272	18.020	4.242	12.500	12.500	11.831	5.112	0.796
%RSD		2.160	3.113	2.733	1.521	50.000	50.000	7.099	12.692	3.884

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:41:29	27050.586	48242.256	53299.243	30654.730	81189.432	1.563	134558.870	135.938	1414.133
2	15:42:38	27321.414	49648.625	53228.668	31237.239	80916.012	0.000	136977.000	137.501	1596.964
3	15:43:46	27540.584	48968.157	53049.880	31160.510	82506.319	3.125	137385.580	132.813	1592.276
x		27304.195	48953.013	53192.597	31017.493	81537.254	1.563	136307.150	135.417	1534.458
σ		245.452	703.307	128.535	316.496	850.297	1.563	1527.777	2.387	104.231
%RSD		0.899	1.437	0.242	1.020	1.043	100.000	1.121	1.763	6.793

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:41:29	79.688	79.688	1581.338	412.506	117.188	1642.282	290.628	548.448	361637.330
2	15:42:38	54.688	54.688	1604.778	443.757	106.250	1711.040	329.691	543.760	369370.510
3	15:43:46	62.500	62.500	1478.202	431.257	112.500	1636.031	307.816	637.514	372471.360
x		65.625	65.625	1554.772	429.173	111.980	1663.118	309.378	576.574	367826.400
σ		12.790	12.790	67.340	15.729	5.487	41.619	19.578	52.828	5579.630
%RSD		19.489	19.489	4.331	3.665	4.900	2.502	6.328	9.162	1.517

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:41:29	394105.970	3314.447	8141.382	3378.525	2948.742	7309.682	367743.400	210.939
2	15:42:38	402679.210	3478.549	8158.579	3389.465	2861.224	7159.606	378128.030	201.564
3	15:43:46	397783.950	3386.339	8108.551	3401.968	2953.430	7337.822	371227.090	140.626
x		398189.710	3393.111	8136.170	3389.986	2921.132	7269.037	372366.170	184.376
σ		4300.998	82.260	25.418	11.730	51.935	95.808	5285.192	38.178
%RSD		1.080	2.424	0.312	0.346	1.778	1.318	1.419	20.707

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:49:24	14635.618	27267.665	5177.501	425.006	19864651.000	13653150.000	1826818.500	2175361.800	3126694.000
2	15:50:31	14355.647	27558.326	5265.033	443.757	20053066.000	13825735.000	1851406.200	2207789.600	3116321.500
3	15:51:40	14385.364	27816.117	5440.098	464.070	20094078.000	13825361.000	1857376.100	2205233.400	3136142.600
x		14458.876	27547.370	5294.210	444.278	20003931.000	13768082.000	1845200.300	2196128.300	3126386.100
σ		153.782	274.390	133.708	19.537	122351.280	99534.137	16196.517	18029.657	9914.160
%RSD		1.064	0.996	2.526	4.397	0.612	0.723	0.878	0.821	0.317

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:49:24	30996.325	157771.110	12431.970	63519.025	8624236.100	44250.955	668592.500	50601.961	21779.089
2	15:50:31	30854.077	156886.450	12488.269	65104.263	8818564.000	44866.238	676595.450	49794.444	21642.945
3	15:51:40	31059.546	160144.170	12469.502	64344.582	8676518.100	44181.951	665113.750	50645.866	21793.173
x		30969.983	158267.250	12463.247	64322.623	8706439.400	44433.048	670100.570	50347.424	21738.402
σ		105.237	1684.578	28.666	792.847	100559.900	376.737	5887.536	479.398	82.968
%RSD		0.340	1.064	0.230	1.233	1.155	0.848	0.879	0.952	0.382

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:49:24	330422.900	313569.670	38122.674	1166714.200	883681.610	19575468.000	485456.660	384242.660	82617.899
2	15:50:31	333739.290	315490.970	38989.070	1181068.600	893238.410	19996867.000	495977.940	386916.520	84189.534
3	15:51:40	332573.510	312935.680	37306.461	1159494.900	880779.080	19485330.000	483078.900	380953.180	82336.594
x		332245.240	313998.780	38139.402	1169092.600	885899.700	19685888.000	488171.170	384037.450	83048.009
σ		1682.391	1330.592	841.429	10981.757	6519.101	273060.380	6864.599	2986.963	998.545
%RSD		0.506	0.424	2.206	0.939	0.736	1.387	1.406	0.778	1.202

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:49:24	415423.940	200305.440	146909.330	58970.421	3892.718	3892.718	12510.163	5384.869	17.708
2	15:50:31	425622.340	205272.070	148863.780	59628.351	3855.208	3855.208	12683.232	5535.968	18.750
3	15:51:40	419990.530	201167.430	146000.080	59499.692	3875.526	3875.526	12699.913	5464.587	25.000
x		420345.610	202248.310	147257.730	59366.155	3874.484	3874.484	12631.103	5461.808	20.486
σ		5108.460	2653.884	1463.296	348.701	18.777	18.777	105.069	75.588	3.944
%RSD		1.215	1.312	0.994	0.587	0.485	0.485	0.832	1.384	19.251

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:49:24	69473.206	122373.460	131754.790	77459.431	203260.810	9.375	131693.290	8063.212	384322.900
2	15:50:31	70138.947	125664.350	134372.750	78238.660	205514.590	1.563	132726.220	8005.367	390186.490
3	15:51:40	68966.070	122958.140	132510.160	77374.598	202771.110	6.250	133656.710	7991.297	383008.620
x		69526.075	123665.310	132879.230	77690.896	203848.840	5.729	132692.070	8019.959	385839.340
σ		588.223	1755.721	1347.441	476.270	1463.214	3.932	982.156	38.114	3821.668
%RSD		0.846	1.420	1.014	0.613	0.718	68.635	0.740	0.475	0.990

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:49:24	6012.202	6012.202	375475.040	94926.844	254259.910	362970.510	332575.110	591212.170	364481.700
2	15:50:31	6156.014	6156.014	380649.940	95194.240	256174.920	363690.030	337649.910	600335.770	364885.560
3	15:51:40	6074.729	6074.729	377468.740	94228.494	254853.160	362810.260	330474.060	589952.280	364478.490
x		6080.982	6080.982	377864.570	94783.193	255096.000	363156.930	333566.360	593833.400	364615.250
σ		72.109	72.109	2610.061	498.641	980.328	468.574	3689.188	5666.337	234.103
%RSD		1.186	1.186	0.691	0.526	0.384	0.129	1.106	0.954	0.064

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:49:24	398840.940	803024.570	1920738.000	633043.900	592744.040	1407605.300	361811.980	3699737.500
2	15:50:31	393306.250	792235.560	1920674.000	640078.430	609559.610	1436643.700	361502.740	3691169.500
3	15:51:40	392312.290	789704.140	1895408.100	632919.830	601591.660	1414623.900	365754.230	3632817.900
x		394819.830	794988.090	1912273.400	635347.390	601298.440	1419624.300	363022.980	3674575.000
σ		3517.673	7073.954	14605.790	4097.674	8411.621	15151.244	2370.381	36415.560
%RSD		0.891	0.890	0.764	0.645	1.399	1.067	0.653	0.991

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	15:57:16	14659.080	18.750	87.500	290.628	119890.040	11704.793	1528.207	1811.052	4614.808
2	15:58:24	15403.613	16.146	98.438	335.941	113300.650	8060.086	1082.853	1368.816	3517.621
3	15:59:32	14591.823	9.896	78.125	301.566	107726.520	5325.993	782.834	793.772	2376.760
x		14884.839	14.931	88.021	309.378	113639.070	8363.624	1131.298	1324.547	3503.063
σ		450.528	4.550	10.166	23.645	6088.814	3200.215	375.040	510.083	1119.095
%RSD		3.027	30.478	11.550	7.643	5.358	38.263	33.151	38.510	31.946

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	15:57:16	521.885	1042.226	13578.325	66554.673	92094.332	42.188	821.899	50459.270	25.000
2	15:58:24	506.259	914.092	13295.246	66947.125	87029.917	34.375	692.204	51806.266	15.625
3	15:59:32	534.385	837.525	13212.357	67248.536	85714.186	17.188	507.822	50070.406	18.750
x		520.843	931.281	13361.976	66916.778	88279.478	31.250	673.975	50778.647	19.792
σ		14.092	103.427	191.893	347.926	3368.622	12.790	157.830	910.936	4.774
%RSD		2.706	11.106	1.436	0.520	3.816	40.927	23.418	1.794	24.119

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	15:57:16	1962.635	392.193	567.199	3231.616	665.641	43171.383	1781.361	223.439	56.250
2	15:58:24	1912.628	309.378	607.825	2925.300	490.633	38551.949	1686.037	173.439	50.000
3	15:59:32	1718.853	290.628	587.512	2728.386	328.129	34306.769	1464.138	101.563	37.500
x		1864.705	330.733	587.512	2961.767	494.801	38676.700	1643.845	166.147	47.917
σ		128.762	54.045	20.313	253.589	168.794	4433.624	162.766	61.265	9.547
%RSD		6.905	16.341	3.458	8.562	34.114	11.463	9.902	36.874	19.924

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	15:57:16	382.818	151.563	143.751	57.292	9.375	9.375	131.251	22.917	21.354
2	15:58:24	250.002	121.876	89.063	37.500	1.563	1.563	111.459	22.917	14.583
3	15:59:32	207.814	56.250	106.250	27.604	3.125	3.125	115.105	16.146	12.500
x		280.211	109.896	113.021	40.799	4.688	4.688	119.271	20.660	16.146
σ		91.329	48.773	27.966	15.116	4.134	4.134	10.533	3.909	4.629
%RSD		32.593	44.381	24.744	37.051	88.192	88.192	8.831	18.922	28.672

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	15:57:16	139.063	226.564	221.877	146.876	389.068	3.125	134964.230	110.938	287.503
2	15:58:24	84.375	178.126	150.001	101.563	264.065	3.125	140727.250	131.251	189.064
3	15:59:32	65.625	115.625	104.688	70.313	215.627	1.563	138453.630	67.188	126.563
x		96.355	173.439	158.855	106.250	289.586	2.604	138048.370	103.125	201.043
σ		38.156	55.618	59.094	38.496	89.493	0.902	2902.806	32.738	81.136
%RSD		39.600	32.068	37.200	36.232	30.904	34.641	2.103	31.746	40.357

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	15:57:16	3.125	3.125	285.940	57.813	325.004	503.134	182.814	343.754	351104.410
2	15:58:24	7.813	7.813	170.314	35.938	260.940	362.505	159.376	278.128	368509.640
3	15:59:32	3.125	3.125	92.188	26.563	200.001	246.877	92.188	160.938	357422.280
x		4.688	4.688	182.814	40.104	261.982	370.839	144.792	260.940	359012.110
σ		2.706	2.706	97.479	16.036	62.508	128.331	47.040	92.612	8810.856
%RSD		57.735	57.735	53.322	39.987	23.860	34.606	32.488	35.492	2.454

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	15:57:16	384160.820	685.954	1656.346	392.193	421.881	962.532	361549.200	2047.022
2	15:58:24	395750.510	396.881	942.219	307.816	312.503	678.141	373148.050	1478.202
3	15:59:32	392048.950	248.440	479.696	215.627	173.439	445.319	368028.730	918.780
x		390653.430	443.758	1026.087	305.212	302.608	695.331	367575.330	1481.334
σ		5919.531	222.492	592.792	88.312	124.517	259.035	5812.704	564.128
%RSD		1.515	50.138	57.772	28.935	41.148	37.253	1.581	38.082

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:05:09	14691.926	18.229	53.125	356.254	115316.680	8424.358	1118.794	1321.936	2629.930
2	16:06:17	14712.259	20.313	46.875	339.067	115849.090	8582.265	1203.176	1323.499	2867.475
3	16:07:24	14859.286	15.625	37.500	323.441	116321.660	9085.701	1209.426	1464.138	2887.792
x		14754.491	18.056	45.833	339.587	115829.140	8697.441	1177.132	1369.858	2795.066
σ		91.324	2.349	7.864	16.413	502.784	345.388	50.619	81.653	143.372
%RSD		0.619	13.007	17.159	4.833	0.434	3.971	4.300	5.961	5.129

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:05:09	550.011	912.529	12810.429	65750.964	86140.174	26.563	706.267	51360.912	15.625
2	16:06:17	621.889	835.962	13085.678	67527.975	87333.323	31.250	712.518	51522.430	6.250
3	16:07:24	746.895	900.028	12847.962	67914.174	87006.337	34.375	709.393	51136.673	17.188
x		639.598	882.840	12914.690	67064.371	86826.611	30.729	709.393	51340.005	13.021
σ		99.629	41.076	149.265	1153.718	616.544	3.932	3.125	193.727	5.916
%RSD		15.577	4.653	1.156	1.720	0.710	12.796	0.441	0.377	45.431

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:05:09	1715.728	406.256	532.822	3083.145	650.015	37690.279	1420.383	217.189	56.250
2	16:06:17	1653.221	406.256	564.074	3072.205	646.890	38316.943	1498.516	212.502	68.750
3	16:07:24	1882.937	389.068	528.135	3020.632	667.203	39396.435	1512.580	223.439	71.875
x		1750.628	400.526	541.677	3058.661	654.703	38467.886	1477.160	217.710	65.625
σ		118.768	9.923	19.537	33.385	10.938	863.036	49.670	5.487	8.268
%RSD		6.784	2.478	3.607	1.091	1.671	2.244	3.363	2.521	12.599

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:05:09	298.441	121.876	117.188	41.667	3.125	3.125	136.980	23.958	20.833
2	16:06:17	243.752	151.563	129.688	43.750	3.125	3.125	117.709	22.396	18.750
3	16:07:24	289.065	106.250	93.750	47.917	7.813	7.813	129.688	14.583	17.188
x		277.086	126.563	113.542	44.445	4.688	4.688	128.126	20.313	18.924
σ		29.246	23.017	18.244	3.182	2.706	2.706	9.730	5.023	1.829
%RSD		10.555	18.186	16.068	7.160	57.735	57.735	7.594	24.727	9.666

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:05:09	60.938	96.875	128.126	81.250	171.876	3.125	140496.870	84.375	225.002
2	16:06:17	62.500	96.875	101.563	62.500	153.126	0.000	140648.350	118.750	206.251
3	16:07:24	56.250	82.813	93.750	76.563	164.063	1.563	141678.770	109.375	201.564
x		59.896	92.188	107.813	73.438	163.022	1.563	140941.330	104.167	210.939
σ		3.253	8.119	18.020	9.758	9.418	1.563	643.117	17.770	12.402
%RSD		5.430	8.807	16.714	13.287	5.777	100.000	0.456	17.059	5.879

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:05:09	4.688	4.688	196.876	48.438	223.439	256.252	165.626	325.004	371637.560
2	16:06:17	4.688	4.688	206.251	46.875	257.815	242.190	196.876	364.067	372176.320
3	16:07:24	4.688	4.688	218.752	46.875	260.940	256.252	193.751	362.505	375715.610
x		4.688	4.688	207.293	47.396	247.398	251.565	185.418	350.525	373176.500
σ		0.000	0.000	10.975	0.902	20.808	8.119	17.211	22.116	2215.377
%RSD		0.000	0.000	5.294	1.903	8.411	3.227	9.282	6.309	0.594

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:05:09	404069.200	546.885	1123.482	406.256	337.504	821.899	380459.020	1972.011
2	16:06:17	403802.440	448.445	1082.853	400.006	335.941	776.584	382708.550	2015.767
3	16:07:24	404192.940	439.069	1093.792	389.068	339.067	860.963	378546.710	1973.574
x		404021.530	478.133	1100.042	398.443	337.504	819.815	380571.420	1987.117
σ		199.568	59.726	21.023	8.700	1.563	42.228	2083.194	24.824
%RSD		0.049	12.491	1.911	2.183	0.463	5.151	0.547	1.249

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:13:02	14857.722	7.813	48.438	317.191	110856.580	4735.160	634.389	731.269	1525.081
2	16:14:10	14867.107	3.125	51.563	300.003	107101.540	3030.009	396.881	467.195	1054.726
3	16:15:18	14706.003	3.646	34.375	284.378	107205.440	2540.851	321.879	431.257	940.656
x		14810.277	4.861	44.792	300.524	108387.850	3435.340	451.049	543.240	1173.488
σ		90.426	2.569	9.155	16.413	2138.614	1151.941	163.145	163.826	309.785
%RSD		0.611	52.852	20.440	5.461	1.973	33.532	36.170	30.157	26.399

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:13:02	571.886	800.022	13315.578	68463.662	84621.764	28.125	526.572	52414.730	7.813
2	16:14:10	650.015	728.144	13251.456	69669.471	83413.125	17.188	410.943	52359.841	3.125
3	16:15:18	503.134	803.148	13248.328	69289.505	83304.682	14.063	415.631	51354.640	6.250
x		575.012	777.105	13271.787	69140.879	83779.857	19.792	451.049	52043.070	5.729
σ		73.490	42.430	37.956	616.491	731.126	7.384	65.447	596.830	2.387
%RSD		12.781	5.460	0.286	0.892	0.873	37.309	14.510	1.147	41.660

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:13:02	1504.767	220.314	484.383	2406.453	260.940	30811.316	1367.253	50.000	29.688
2	16:14:10	1429.759	220.314	462.507	2348.631	178.126	29145.325	1407.882	39.063	18.750
3	16:15:18	1479.764	189.064	492.196	2348.631	151.563	28591.082	1437.572	18.750	23.438
x		1471.430	209.897	479.696	2367.905	196.876	29515.908	1404.236	35.938	23.958
σ		38.192	18.042	15.389	33.384	57.048	1155.577	35.301	15.858	5.487
%RSD		2.596	8.596	3.208	1.410	28.977	3.915	2.514	44.126	22.904

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:13:02	159.376	34.375	54.688	22.396	3.125	3.125	140.105	13.542	25.000
2	16:14:10	126.563	18.750	54.688	15.625	3.125	3.125	117.188	15.104	25.521
3	16:15:18	65.625	20.313	35.938	10.938	3.125	3.125	119.271	15.104	21.354
x		117.188	24.479	48.438	16.319	3.125	3.125	125.521	14.583	23.958
σ		47.573	8.606	10.825	5.761	0.000	0.000	12.673	0.902	2.270
%RSD		40.596	35.155	22.349	35.299	0.000	0.000	10.096	6.186	9.476

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:13:02	18.750	59.375	57.813	28.125	76.563	1.563	140518.960	101.563	53.125
2	16:14:10	25.000	46.875	28.125	46.875	40.625	1.563	140353.280	106.250	31.250
3	16:15:18	23.438	28.125	35.938	34.375	62.500	0.000	140848.750	114.063	20.313
x		22.396	44.792	40.625	36.458	59.896	1.042	140573.670	107.292	34.896
σ		3.253	15.729	15.389	9.547	18.110	0.902	252.222	6.315	16.707
%RSD		14.523	35.116	37.880	26.186	30.235	86.603	0.179	5.886	47.878

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:13:02	1.563	1.563	43.750	10.938	90.625	79.688	43.750	54.688	372881.860
2	16:14:10	0.000	0.000	21.875	10.938	90.625	54.688	34.375	50.000	373813.560
3	16:15:18	0.000	0.000	20.313	4.688	87.500	57.813	20.313	39.063	370311.600
x		0.521	0.521	28.646	8.854	89.584	64.063	32.813	47.917	372335.670
σ		0.902	0.902	13.104	3.608	1.804	13.622	11.797	8.018	1813.743
%RSD		173.205	173.205	45.745	40.754	2.014	21.263	35.952	16.734	0.487

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:13:02	401220.260	129.688	365.630	118.750	95.313	279.690	383313.510	375.005
2	16:14:10	405726.120	109.375	195.314	67.188	57.813	139.063	385394.960	242.190
3	16:15:18	403386.240	54.688	175.001	59.375	46.875	203.126	381578.920	207.814
x		403444.210	97.917	245.315	81.771	66.667	207.293	383429.130	275.003
σ		2253.491	38.791	104.690	32.262	25.404	70.406	1910.644	88.293
%RSD		0.559	39.616	42.676	39.455	38.106	33.964	0.498	32.106

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:34:52	15256.580	120.834	137.501	351.567	491884.310	289743.170	39388.601	47307.889	14915.595
2	16:36:01	15373.893	113.021	131.251	340.629	489220.130	290243.800	38940.500	46981.816	14649.695
3	16:37:09	15314.454	116.146	118.750	334.379	490492.340	290572.250	39130.080	47243.615	14648.131
x		15314.976	116.667	129.167	342.192	490532.260	290186.410	39153.061	47177.773	14737.807
σ		58.658	3.932	9.547	8.700	1332.539	417.513	224.933	172.720	153.971
%RSD		0.383	3.370	7.391	2.542	0.272	0.144	0.574	0.366	1.045

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:34:52	1350.064	843.775	14197.677	67352.148	443944.040	842.212	14565.234	53026.355	400.006
2	16:36:01	1203.176	796.897	13583.017	68074.308	440125.450	889.090	14350.955	53013.809	425.006
3	16:37:09	1278.182	768.771	13390.648	67122.948	439928.900	940.656	14244.598	52137.154	479.696
x		1277.141	803.148	13723.780	67516.468	441332.800	890.653	14386.929	52725.773	434.902
σ		73.450	37.891	421.527	496.511	2263.538	49.240	163.317	509.797	40.756
%RSD		5.751	4.718	3.072	0.735	0.513	5.529	1.135	0.967	9.371

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:34:52	8350.878	2853.410	682.829	21675.807	2098.592	360743.270	9456.254	1621.967	346.879
2	16:36:01	8289.905	2951.867	732.831	21865.158	2092.341	363204.470	9592.282	1570.399	376.567
3	16:37:09	8122.621	2942.491	685.954	21774.394	2112.656	361632.520	9922.195	1643.845	356.254
x		8254.468	2915.923	700.538	21771.786	2101.196	361860.090	9656.910	1612.070	359.900
σ		118.182	54.340	28.010	94.702	10.405	1246.279	239.599	37.710	15.176
%RSD		1.432	1.864	3.998	0.435	0.495	0.344	2.481	2.339	4.217

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:34:52	1907.940	864.089	687.517	252.606	87.500	87.500	383.338	130.730	21.875
2	16:36:01	2026.706	825.024	696.892	266.148	107.813	107.813	408.860	128.646	22.396
3	16:37:09	1942.320	857.838	654.703	275.523	68.750	68.750	393.235	132.813	18.229
x		1958.989	848.984	679.704	264.759	88.021	88.021	395.144	130.730	20.833
σ		61.113	20.984	22.153	11.522	19.537	19.537	12.868	2.083	2.270
%RSD		3.120	2.472	3.259	4.352	22.195	22.195	3.256	1.594	10.897

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:34:52	1371.941	2565.855	2776.832	1584.463	4206.869	3.125	140643.620	134.376	1634.469
2	16:36:01	1539.145	2603.362	2778.395	1567.274	4197.492	3.125	141235.350	151.563	1604.778
3	16:37:09	1475.076	2575.232	2695.567	1614.154	4191.240	0.000	140257.030	162.501	1717.291
x		1462.054	2581.483	2750.265	1588.630	4198.534	2.083	140712.000	149.480	1652.179
σ		84.359	19.519	47.376	23.716	7.867	1.804	492.731	14.178	58.310
%RSD		5.770	0.756	1.723	1.493	0.187	86.603	0.350	9.485	3.529

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:34:52	37.500	37.500	1556.335	400.006	5324.430	3017.506	2790.898	4872.706	372598.040
2	16:36:01	26.563	26.563	1473.514	359.380	5313.488	2953.430	2744.014	4902.404	372660.570
3	16:37:09	28.125	28.125	1623.530	375.005	5441.661	2872.164	2826.842	4935.227	369049.890
x		30.729	30.729	1551.126	378.130	5359.860	2947.700	2787.251	4903.446	371436.170
σ		5.916	5.916	75.144	20.493	71.053	72.840	41.535	31.274	2066.816
%RSD		19.251	19.251	4.844	5.419	1.326	2.471	1.490	0.638	0.556

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:34:52	400249.850	3353.519	7825.580	2533.037	2539.288	5732.400	373329.260	146.876
2	16:36:01	402677.600	3355.081	8008.494	2708.069	2423.643	5696.448	379430.640	132.813
3	16:37:09	404583.450	3226.927	8077.283	2700.255	2470.526	5837.130	381635.080	100.000
x		402503.630	3311.842	7970.452	2647.121	2477.819	5755.326	378131.660	126.563
σ		2172.034	73.543	130.092	98.876	58.166	73.089	4302.578	24.055
%RSD		0.540	2.221	1.632	3.735	2.347	1.270	1.138	19.006

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:42:46	14350.955	4.688	11085.549	1861.059	106573640.000	14241771.000	1931934.800	2302262.100	2612.739
2	16:43:54	14612.157	2.604	11080.858	1865.747	104367220.000	13973483.000	1904366.000	2256150.600	2578.358
3	16:45:02	14105.398	3.646	10983.908	1986.076	105700960.000	14073736.000	1908700.800	2273186.200	2403.327
x		14356.170	3.646	11050.105	1904.294	105547270.000	14096330.000	1915000.500	2277199.600	2531.475
σ		253.420	1.042	57.376	70.864	1111207.500	135563.450	14824.798	23316.268	112.302
%RSD		1.765	28.571	0.519	3.721	1.053	0.962	0.774	1.024	4.436

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:42:46	1280086.100	639.077	329195.040	598651.630	2528967.900	220445.660	3737130.100	53274.094	118.750
2	16:43:54	1254339.500	625.014	327177.600	605379.560	2489842.900	218892.360	3748971.700	51742.912	104.688
3	16:45:02	1256093.300	645.327	327837.790	616108.310	2503914.200	218987.550	3768169.200	51063.032	104.688
x		1263506.300	636.473	328070.140	606713.170	2507575.000	219441.860	3751423.700	52026.679	109.375
σ		14385.298	10.404	1028.592	8804.421	19817.705	870.620	15664.129	1132.516	8.119
%RSD		1.139	1.635	0.314	1.451	0.790	0.397	0.418	2.177	7.423

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:42:46	50534.536	2247.052	9787.727	4780.487	1329.749	82126.012	21137.501	381.255	650.015
2	16:43:54	53674.080	2248.615	11166.863	4794.554	1228.178	81414.143	21273.641	382.818	557.823
3	16:45:02	57448.091	2314.250	12137.967	4983.682	1301.622	81965.721	21186.011	357.817	570.324
x		53885.569	2269.972	11030.852	4852.908	1286.516	81835.292	21199.051	373.963	592.721
σ		3461.626	38.354	1181.009	113.472	52.444	373.428	69.000	14.005	50.010
%RSD		6.424	1.690	10.706	2.338	4.076	0.456	0.325	3.745	8.437

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:42:46	732.831	353.129	6266.999	1210.468	284.378	284.378	610.430	284.378	21.354
2	16:43:54	687.517	354.692	5919.976	1232.866	357.817	357.817	559.907	268.232	21.354
3	16:45:02	679.704	389.068	6165.393	1358.398	365.630	365.630	547.927	260.419	20.313
x		700.017	365.630	6117.456	1267.244	335.942	335.942	572.755	271.010	21.007
σ		28.685	20.313	178.409	79.732	44.826	44.826	33.173	12.219	0.601
%RSD		4.098	5.556	2.916	6.292	13.343	13.343	5.792	4.509	2.863

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:42:46	370.435	357.817	462.507	273.440	610.951	3.125	118552.380	84.375	73.438
2	16:43:54	264.395	356.254	401.568	265.627	615.638	0.000	119056.550	87.500	42.188
3	16:45:02	759.251	418.756	417.194	265.627	542.198	4.688	116225.570	93.750	43.750
x		464.694	377.609	427.090	268.232	589.596	2.604	117944.830	88.542	53.125
σ		260.546	35.643	31.652	4.511	41.115	2.387	1510.117	4.774	17.609
%RSD		56.068	9.439	7.411	1.682	6.973	91.652	1.280	5.391	33.145

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:42:46	3.125	3.125	62.500	3.125	131.251	89.063	4641.379	8192.974	341486.370
2	16:43:54	1.563	1.563	57.813	4.688	115.625	78.125	4658.572	8394.653	344560.440
3	16:45:02	0.000	0.000	64.063	1.563	84.375	68.750	4791.428	8425.922	340598.360
x		1.563	1.563	61.458	3.125	110.417	78.646	4697.126	8337.850	342215.060
σ		1.563	1.563	3.253	1.563	23.868	10.166	82.119	126.436	2079.124
%RSD		100.000	100.000	5.292	50.000	21.616	12.927	1.748	1.516	0.608

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:42:46	374060.520	100.000	157.813	412.506	346.879	768.771	332359.240	68534.312
2	16:43:54	376891.290	70.313	167.188	354.692	267.190	640.639	337582.720	67749.331
3	16:45:02	368243.540	53.125	117.188	276.565	259.377	610.951	335036.320	68977.061
x		373065.120	74.479	147.397	347.921	291.149	673.454	334992.760	68420.235
σ		4408.974	23.714	26.578	68.223	48.422	83.871	2612.015	621.764
%RSD		1.182	31.839	18.032	19.609	16.631	12.454	0.780	0.909

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:50:40	14257.111	2.083	11784.546	1150.046	91389830.000	11331872.000	1523605.800	1803468.800	1804.802
2	16:51:49	14508.927	3.125	12141.095	1139.108	93319834.000	11549369.000	1560996.300	1836156.700	1895.438
3	16:52:57	14598.080	1.042	12671.242	1201.613	93693626.000	11655100.000	1556478.100	1850516.400	1904.815
x		14454.706	2.083	12198.961	1163.589	92801097.000	11512114.000	1547026.700	1830047.300	1868.351
σ		176.833	1.042	446.171	33.381	1236400.000	164802.960	20408.502	24111.498	55.235
%RSD		1.223	50.000	3.657	2.869	1.332	1.432	1.319	1.318	2.956

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:50:40	1386222.400	668.766	220596.400	578196.940	1957546.200	123969.950	2107285.800	47745.278	92.188
2	16:51:49	1415494.800	609.388	225008.160	589940.880	1969336.000	124603.550	2132174.300	47989.846	112.500
3	16:52:57	1423644.900	651.577	224538.350	605288.320	2000181.900	127967.470	2169285.900	47649.647	121.876
x		1408454.000	643.244	223380.970	591142.050	1975688.100	125513.660	2136248.700	47794.924	108.855
σ		19679.677	30.553	2422.923	13585.571	22016.187	2148.547	31200.213	175.449	15.176
%RSD		1.397	4.750	1.085	2.298	1.114	1.712	1.461	0.367	13.941

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:50:40	77926.021	5221.267	13091.934	2223.611	337.504	34230.023	12614.942	259.377	328.129
2	16:51:49	81398.428	5391.642	13852.025	2286.120	378.130	35168.235	12026.936	281.253	367.192
3	16:52:57	83134.948	5457.292	14838.953	2459.587	353.129	35357.764	12636.837	226.564	334.379
x		80819.799	5356.734	13927.637	2323.106	356.254	34918.674	12426.238	255.731	343.233
σ		2652.233	121.824	875.961	122.258	20.493	603.872	345.979	27.526	20.983
%RSD		3.282	2.274	6.289	5.263	5.752	1.729	2.784	10.764	6.113

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:50:40	22220.393	10325.605	2379.886	1924.088	303.128	303.128	450.528	208.856	20.833
2	16:51:49	21913.669	10760.301	2467.401	1853.245	293.753	293.753	438.028	190.626	17.708
3	16:52:57	22771.259	10710.263	2525.223	1980.346	339.067	339.067	444.799	206.772	21.354
x		22301.774	10598.723	2457.503	1919.226	311.983	311.983	444.451	202.085	19.965
σ		434.548	237.847	73.172	63.690	23.919	23.919	6.257	9.978	1.972
%RSD		1.948	2.244	2.978	3.318	7.667	7.667	1.408	4.937	9.876

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:50:40	464.070	889.090	917.217	606.263	1436.010	3.125	118839.120	107.813	34.375
2	16:51:49	512.509	945.344	968.783	578.137	1437.572	0.000	121390.130	79.688	25.000
3	16:52:57	453.132	884.402	942.219	528.135	1386.005	0.000	120808.660	76.563	39.063
x		476.570	906.279	942.739	570.845	1419.862	1.042	120345.970	88.021	32.813
σ		31.601	33.912	25.787	39.571	29.332	1.804	1336.962	17.211	7.160
%RSD		6.631	3.742	2.735	6.932	2.066	173.205	1.111	19.554	21.822

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:50:40	0.000	0.000	32.813	7.813	357.817	106.250	4742.975	8552.559	342252.830
2	16:51:49	0.000	0.000	42.188	0.000	335.941	107.813	4902.404	8640.112	347483.090
3	16:52:57	1.563	1.563	32.813	4.688	339.067	103.125	4994.623	8685.452	346724.360
x		0.521	0.521	35.938	4.167	344.275	105.730	4880.000	8626.041	345486.760
σ		0.902	0.902	5.413	3.932	11.831	2.387	127.311	67.554	2826.244
%RSD		173.205	173.205	15.061	94.373	3.437	2.257	2.609	0.783	0.818

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:50:40	375181.540	46.875	96.875	3928.665	3394.153	8191.410	336098.330	46392.394
2	16:51:49	380240.820	34.375	81.250	3878.652	3345.704	8210.171	339528.020	47071.172
3	16:52:57	378636.540	35.938	78.125	3980.242	3351.956	8569.757	340814.360	47760.956
x		378019.630	39.063	85.417	3929.186	3363.938	8323.780	338813.570	47074.841
σ		2585.445	6.811	10.046	50.797	26.353	213.229	2437.838	684.288
%RSD		0.684	17.436	11.761	1.293	0.783	2.562	0.720	1.454

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	16:58:36	16052.764	3.125	11229.412	4252.195	115355780.000	22495014.000	3046708.500	3594000.700	2569.708
2	16:59:44	15722.710	2.604	11767.344	4435.063	117364910.000	22789463.000	3103261.700	3658476.700	2870.703
3	17:00:53	16461.041	2.604	12155.169	4491.331	117155810.000	22959951.000	3085173.500	3678445.700	2807.886
x		16078.838	2.778	11717.308	4392.863	116625500.000	22748143.000	3078381.200	3643641.100	2749.432
σ		369.855	0.301	464.902	125.028	1104569.500	235206.880	28881.958	44134.038	158.783
%RSD		2.300	10.825	3.968	2.846	0.947	1.034	0.938	1.211	5.775

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	16:58:36	1274390.400	753.145	337489.940	676559.430	3349244.200	300013.350	4860623.500	56304.498	96.875
2	16:59:44	1286183.300	789.084	342940.910	697473.830	3409461.900	308658.950	4991650.000	53782.551	112.500
3	17:00:53	1303895.400	768.771	345927.260	706842.890	3405692.300	306100.060	4964408.800	56028.478	106.250
x		1288156.400	770.333	342119.370	693625.380	3388132.800	304924.120	4938894.100	55371.842	105.209
σ		14851.171	18.021	4278.232	15504.189	33731.249	4441.137	69139.271	1383.269	7.864
%RSD		1.153	2.339	1.251	2.235	0.996	1.456	1.400	2.498	7.475

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	16:58:36	62578.952	2493.968	14110.090	2801.837	1307.872	50162.917	25508.691	421.881	637.514
2	16:59:44	65738.407	2564.293	14976.596	2825.279	1321.936	51349.935	26264.747	470.320	643.765
3	17:00:53	67265.805	2668.999	15688.297	2814.340	1304.747	52505.688	27081.896	434.382	681.266
x		65194.388	2575.753	14924.994	2813.819	1311.519	51339.513	26285.111	442.194	654.182
σ		2390.317	88.077	790.368	11.730	9.156	1171.420	786.800	25.147	23.663
%RSD		3.666	3.419	5.296	0.417	0.698	2.282	2.993	5.687	3.617

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	16:58:36	2204.858	1207.864	3183.167	1583.942	410.943	410.943	673.974	320.316	15.625
2	16:59:44	2234.550	1206.301	3130.030	1558.418	439.069	439.069	672.412	325.525	15.104
3	17:00:53	2198.607	1081.291	3103.462	1568.315	421.881	421.881	669.287	322.399	21.875
x		2212.671	1165.152	3138.887	1570.225	423.965	423.965	671.891	322.747	17.535
σ		19.203	72.630	40.584	12.869	14.178	14.178	2.387	2.622	3.768
%RSD		0.868	6.234	1.293	0.820	3.344	3.344	0.355	0.812	21.488

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	16:58:36	996.075	173.439	185.939	112.500	245.315	3.125	122244.240	82.813	43.750
2	16:59:44	1349.544	151.563	143.751	121.876	267.190	0.000	120061.780	96.875	48.438
3	17:00:53	1264.711	178.126	148.438	128.126	264.065	3.125	123763.480	79.688	31.250
x		1203.443	167.709	159.376	120.834	258.857	2.083	122023.170	86.459	41.146
σ		184.527	14.178	23.123	7.864	11.831	1.804	1860.726	9.155	8.885
%RSD		15.333	8.454	14.509	6.509	4.571	86.603	1.525	10.589	21.593

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	16:58:36	4.688	4.688	59.375	4.688	126.563	57.813	3040.949	5279.100	353357.390
2	16:59:44	0.000	0.000	20.313	6.250	101.563	62.500	3014.381	5372.885	348510.800
3	17:00:53	1.563	1.563	40.625	3.125	109.375	76.563	2886.229	5513.564	355871.780
x		2.083	2.083	40.104	4.688	112.500	65.625	2980.519	5388.516	352579.990
σ		2.387	2.387	19.537	1.563	12.790	9.758	82.731	118.011	3741.562
%RSD		114.564	114.564	48.714	33.333	11.369	14.869	2.776	2.190	1.061

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	16:58:36	386105.970	31.250	64.063	664.078	656.265	1443.823	340918.360	87039.349
2	16:59:44	381655.940	28.125	89.063	723.456	567.199	1467.263	337755.480	90396.036
3	17:00:53	390538.090	35.938	60.938	707.830	606.263	1543.833	343256.160	90031.243
x		386100.000	31.771	71.354	698.455	609.909	1484.973	340643.330	89155.543
σ		4441.079	3.932	15.415	30.779	44.645	52.305	2760.633	1841.731
%RSD		1.150	12.377	21.604	4.407	7.320	3.522	0.810	2.066

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:06:32	15284.735	2.604	12566.462	2636.181	124697850.000	17031143.000	2319527.700	2748848.400	720.331
2	17:07:40	14817.055	4.167	11915.905	2720.572	121650660.000	16846043.000	2277433.100	2677254.900	779.709
3	17:08:48	15499.028	3.646	12546.132	2828.405	126432050.000	17365723.000	2336073.600	2782625.900	1836.852
x		15200.273	3.472	12342.833	2728.386	124260190.000	17080970.000	2311011.500	2736243.000	1112.297
σ		348.744	0.796	369.870	96.350	2420551.900	263398.740	30233.608	53804.577	628.185
%RSD		2.294	22.913	2.997	3.531	1.948	1.542	1.308	1.966	56.476

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:06:32	1466690.000	643.765	327810.620	638860.050	2016835.600	193517.520	3297025.100	54872.102	109.375
2	17:07:40	1433326.200	601.575	322472.410	639137.690	1972545.800	189710.720	3216281.400	53968.501	76.563
3	17:08:48	1472417.900	651.577	331543.740	658889.740	2028577.600	193349.650	3337336.300	54761.694	95.313
x		1457478.000	632.306	327275.590	645629.160	2005986.400	192192.630	3283547.600	54534.099	93.750
σ		21111.276	26.899	4559.267	11484.839	29549.477	2151.035	61642.587	492.923	16.462
%RSD		1.448	4.254	1.393	1.779	1.473	1.119	1.877	0.904	17.559

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:06:32	72351.503	1034.412	14715.388	2123.595	382.818	35266.915	17981.622	429.694	548.448
2	17:07:40	74658.641	1040.663	15577.238	2104.843	379.693	35042.928	17388.701	414.069	546.885
3	17:08:48	76799.633	1084.416	16055.893	2064.212	379.693	35747.796	18048.894	440.632	595.325
x		74603.259	1053.164	15449.506	2097.550	380.734	35352.546	17806.406	428.131	563.553
σ		2224.582	27.245	679.320	30.356	1.804	360.152	363.303	13.350	27.527
%RSD		2.982	2.587	4.397	1.447	0.474	1.019	2.040	3.118	4.884

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:06:32	500.009	314.066	328.129	1770.943	373.442	373.442	552.094	251.044	14.063
2	17:07:40	509.384	337.504	300.003	1742.294	350.004	350.004	583.345	273.440	18.750
3	17:08:48	521.885	300.003	332.816	1766.776	407.818	407.818	550.531	280.211	20.313
x		510.426	317.191	320.316	1760.004	377.088	377.088	561.990	268.232	17.708
σ		10.975	18.945	17.747	15.479	29.079	29.079	18.510	15.265	3.253
%RSD		2.150	5.973	5.540	0.879	7.711	7.711	3.294	5.691	18.368

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:06:32	1123.324	414.069	435.944	271.878	626.576	0.000	119401.600	112.500	57.813
2	17:07:40	1324.801	379.693	428.131	289.065	651.577	1.563	119009.280	81.250	42.188
3	17:08:48	1165.740	406.256	421.881	306.253	615.638	6.250	120052.330	85.938	40.625
x		1204.622	400.006	428.652	289.065	631.264	2.604	119487.740	93.229	46.875
σ		106.217	18.020	7.046	17.188	18.422	3.253	526.832	16.853	9.504
%RSD		8.817	4.505	1.644	5.946	2.918	124.900	0.441	18.077	20.276

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:06:32	3.125	3.125	51.563	0.000	71.875	32.813	2259.554	4034.945	351536.720
2	17:07:40	3.125	3.125	50.000	9.375	75.000	45.313	2383.011	4089.648	350700.930
3	17:08:48	0.000	0.000	35.938	3.125	59.375	73.438	2356.444	4180.299	347883.280
x		2.083	2.083	45.833	4.167	68.750	50.521	2333.003	4101.631	350040.310
σ		1.804	1.804	8.606	4.774	8.268	20.807	64.981	73.414	1914.217
%RSD		86.603	86.603	18.776	114.564	12.026	41.186	2.785	1.790	0.547

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:06:32	376788.640	23.438	67.188	203.126	165.626	381.255	335047.510	89724.636
2	17:07:40	381164.970	18.750	79.688	175.001	150.001	334.379	340140.770	90276.534
3	17:08:48	377459.120	32.813	56.250	123.438	129.688	346.879	336934.880	91037.591
x		378470.910	25.000	67.708	167.189	148.438	354.171	337374.390	90346.253
σ		2357.084	7.160	11.727	40.415	18.020	24.274	2574.918	659.248
%RSD		0.623	28.641	17.321	24.173	12.140	6.854	0.763	0.730

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:14:27	15347.302	1.042	16556.464	2536.163	170793060.000	19444506.000	2628113.600	3145336.600	1865.643
2	17:15:35	14971.904	1.563	17147.785	2723.697	177819730.000	20631860.000	2791637.900	3313165.700	1488.745
3	17:16:43	15153.345	2.083	17028.893	2590.860	172893260.000	20099001.000	2729504.800	3240802.500	2006.979
x		15157.517	1.563	16911.047	2616.907	173835350.000	20058455.000	2716418.700	3233101.600	1787.122
σ		187.734	0.521	312.780	96.442	3606824.900	594714.810	82543.815	84179.125	267.891
%RSD		1.239	33.333	1.850	3.685	2.075	2.965	3.039	2.604	14.990

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:14:27	1440617.100	728.144	331311.890	664591.850	2457784.600	255263.510	4424261.500	56606.667	109.375
2	17:15:35	1507919.100	717.206	343638.630	702111.680	2528934.100	269419.940	4632155.900	54729.734	173.439
3	17:16:43	1484744.900	750.020	339107.260	695250.540	2481659.500	265712.400	4501340.300	55273.056	115.625
x		1477760.400	731.790	338019.260	687318.020	2489459.400	263465.280	4519252.500	55536.486	132.813
σ		34190.288	16.708	6234.979	19978.193	36210.402	7340.863	105098.320	965.798	35.321
%RSD		2.314	2.283	1.845	2.907	1.455	2.786	2.326	1.739	26.595

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:14:27	74397.911	1362.565	14196.113	2542.414	425.006	46531.909	24650.938	342.192	998.472
2	17:15:35	79277.174	1379.754	15506.849	2668.999	425.006	47107.228	25380.338	384.380	939.093
3	17:16:43	78145.967	1448.511	15761.815	2589.297	410.943	46883.055	24705.720	371.880	914.092
x		77273.684	1396.943	15154.926	2600.237	420.319	46840.731	24912.332	366.151	950.553
σ		2553.911	45.478	840.086	63.998	8.119	289.985	406.230	21.670	43.342
%RSD		3.305	3.256	5.543	2.461	1.932	0.619	1.631	5.918	4.560

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:14:27	1110.981	585.950	7747.413	1634.989	384.380	384.380	484.904	307.816	16.146
2	17:15:35	1071.915	584.387	8350.878	1643.324	401.568	401.568	504.696	329.170	21.875
3	17:16:43	1087.541	593.762	8260.200	1710.519	367.192	367.192	472.924	345.317	17.188
x		1090.146	588.033	8119.497	1662.944	384.380	384.380	487.508	327.434	18.403
σ		19.663	5.023	325.408	41.411	17.188	17.188	16.045	18.811	3.052
%RSD		1.804	0.854	4.008	2.490	4.472	4.472	3.291	5.745	16.583

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:14:27	1801.984	367.192	367.192	257.815	560.949	4.688	120384.800	89.063	40.625
2	17:15:35	1335.405	382.818	420.319	245.315	589.075	3.125	119614.300	79.688	32.813
3	17:16:43	1568.694	412.506	382.818	278.128	595.325	1.563	121171.090	67.188	31.250
x		1568.694	387.505	390.110	260.419	581.783	3.125	120390.060	78.646	34.896
σ		233.289	23.018	27.304	16.561	18.312	1.563	778.407	10.975	5.023
%RSD		14.872	5.940	6.999	6.359	3.147	50.000	0.647	13.955	14.394

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:14:27	1.563	1.563	51.563	3.125	89.063	85.938	3291.004	6182.588	349308.050
2	17:15:35	1.563	1.563	29.688	3.125	100.000	81.250	3567.633	6343.596	344038.710
3	17:16:43	1.563	1.563	42.188	3.125	106.250	93.750	3712.983	6185.714	349813.950
x		1.563	1.563	41.146	3.125	98.438	86.979	3523.873	6237.299	347720.240
σ		0.000	0.000	10.975	0.000	8.700	6.315	214.366	92.069	3198.311
%RSD		0.000	0.000	26.673	0.000	8.838	7.260	6.083	1.476	0.920

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:14:27	380457.410	32.813	78.125	2898.732	2536.163	5941.860	335301.810	73221.544
2	17:15:35	376549.650	28.125	56.250	2947.179	2670.562	6329.527	330506.040	76727.371
3	17:16:43	379932.790	25.000	42.188	2994.064	2404.890	6065.350	334868.380	75120.427
x		378979.950	28.646	58.854	2946.658	2537.205	6112.246	333558.750	75023.114
σ		2120.986	3.932	18.110	47.668	132.839	198.042	2652.588	1754.938
%RSD		0.560	13.727	30.771	1.618	5.236	3.240	0.795	2.339

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:22:22	15641.371	3.646	895.341	557.823	5117469.200	688787.810	88866.170	107071.630	650.015
2	17:23:30	15215.912	2.083	839.087	487.508	5005974.900	667281.370	87276.729	105560.440	615.638
3	17:24:38	15031.341	1.042	773.458	457.820	4914293.300	660206.650	87685.470	104216.250	606.263
x		15296.208	2.257	835.962	501.051	5012579.100	672091.940	87942.789	105616.110	623.972
σ		312.841	1.311	61.001	51.359	101748.810	14885.455	825.373	1428.501	23.036
%RSD		2.045	58.076	7.297	10.250	2.030	2.215	0.939	1.353	3.692

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:22:22	58466.271	807.835	28883.858	105431.370	197499.590	10108.262	164923.090	52273.589	6.250
2	17:23:30	57885.790	703.142	28749.212	102016.080	196189.540	9818.998	163988.990	51555.361	9.375
3	17:24:38	55833.897	707.830	28248.214	98828.167	192703.510	9934.703	161899.730	50500.039	10.938
x		57395.319	739.603	28627.094	102091.870	195464.210	9953.988	163603.940	51442.996	8.854
σ		1383.029	59.138	334.956	3302.255	2478.948	145.593	1548.019	892.098	2.387
%RSD		2.410	7.996	1.170	3.235	1.268	1.463	0.946	1.734	26.956

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:22:22	13393.776	379.693	4199.055	2483.028	182.814	31741.474	2487.717	21.875	20.313
2	17:23:30	13015.301	312.503	4059.952	2403.327	173.439	31443.942	2384.574	18.750	48.438
3	17:24:38	12618.070	370.317	3806.757	2403.327	182.814	30228.824	2373.635	10.938	50.000
x		13009.049	354.171	4021.921	2429.894	179.689	31138.080	2415.308	17.188	39.583
σ		387.891	36.388	198.895	46.015	5.413	801.369	62.945	5.634	16.707
%RSD		2.982	10.274	4.945	1.894	3.012	2.574	2.606	32.778	42.208

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:22:22	76.563	28.125	365.630	160.418	57.813	57.813	123.959	28.125	19.792
2	17:23:30	67.188	35.938	417.194	163.022	53.125	53.125	140.105	29.688	17.188
3	17:24:38	93.750	34.375	320.316	157.293	42.188	42.188	127.605	21.875	22.396
x		79.167	32.813	367.713	160.244	51.042	51.042	130.556	26.563	19.792
σ		13.471	4.134	48.472	2.869	8.018	8.018	8.468	4.134	2.604
%RSD		17.017	12.599	13.182	1.790	15.709	15.709	6.486	15.563	13.158

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:22:22	14.063	20.313	23.438	9.375	42.188	3.125	138045.020	121.876	7.813
2	17:23:30	12.500	21.875	21.875	15.625	23.438	3.125	137637.990	101.563	3.125
3	17:24:38	21.875	14.063	20.313	20.313	37.500	0.000	134590.410	112.500	3.125
x		16.146	18.750	21.875	15.104	34.375	2.083	136757.810	111.980	4.688
σ		5.023	4.134	1.563	5.487	9.758	1.804	1888.020	10.166	2.706
%RSD		31.109	22.048	7.143	36.330	28.386	86.603	1.381	9.079	57.735

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:22:22	1.563	1.563	1.563	1.563	54.688	14.063	178.126	339.067	365367.970
2	17:23:30	0.000	0.000	53.125	1.563	46.875	18.750	184.376	362.505	361715.840
3	17:24:38	0.000	0.000	6.250	0.000	51.563	10.938	201.564	364.067	361930.550
x		0.521	0.521	20.313	1.042	51.042	14.583	188.022	355.213	363004.790
σ		0.902	0.902	28.513	0.902	3.932	3.932	12.137	14.005	2049.392
%RSD		173.205	173.205	140.371	86.603	7.704	26.964	6.455	3.943	0.565

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:22:22	395940.030	12.500	32.813	65.625	39.063	112.500	367240.070	2831.531
2	17:23:30	394223.200	9.375	25.000	46.875	39.063	123.438	366707.910	2748.702
3	17:24:38	388309.820	18.750	18.750	39.063	26.563	98.438	362667.650	2772.144
x		392824.350	13.542	25.521	50.521	34.896	111.459	365538.540	2784.126
σ		4002.824	4.774	7.046	13.651	7.217	12.533	2500.465	42.694
%RSD		1.019	35.251	27.608	27.021	20.681	11.244	0.684	1.533

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:30:17	14890.569	2.604	695.329	415.631	4253670.300	521611.930	67794.859	80641.026	718.768
2	17:31:25	14806.106	1.042	739.082	354.692	4193220.500	515463.570	66601.767	81115.576	731.269
3	17:32:34	14424.466	0.521	750.020	364.067	4131210.700	506972.360	66557.813	80268.625	751.582
x		14707.047	1.389	728.144	378.130	4192700.500	514682.620	66984.813	80675.076	733.873
σ		248.340	1.084	28.939	32.813	61231.482	7350.961	701.865	424.501	16.561
%RSD		1.689	78.062	3.974	8.678	1.460	1.428	1.048	0.526	2.257

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:30:17	59906.595	696.892	23020.095	91359.951	167880.670	5310.362	90704.230	48955.614	4.688
2	17:31:25	60327.109	668.766	22974.709	90218.356	165833.530	5465.108	89771.806	48391.196	9.375
3	17:32:34	59166.018	731.269	22361.237	90098.855	165213.920	5546.389	89655.453	48040.014	9.375
x		59799.908	698.975	22785.347	90559.054	166309.380	5440.620	90043.830	48462.275	7.813
σ		587.852	31.304	367.990	696.166	1395.607	119.904	574.875	461.920	2.706
%RSD		0.983	4.478	1.615	0.769	0.839	2.204	0.638	0.953	34.641

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:30:17	11720.431	498.446	3542.627	2257.991	157.813	26998.926	1776.673	14.063	45.313
2	17:31:25	11659.444	431.257	3389.465	2276.744	160.938	26695.231	1743.856	20.313	42.188
3	17:32:34	11453.027	495.321	3276.938	2300.185	143.751	26469.813	1720.416	23.438	37.500
x		11610.967	475.008	3403.010	2278.307	154.168	26721.323	1746.982	19.271	41.667
σ		140.138	37.922	133.361	21.140	9.156	265.520	28.258	4.774	3.932
%RSD		1.207	7.983	3.919	0.928	5.939	0.994	1.618	24.771	9.437

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:30:17	1045.351	464.070	151.563	162.501	40.625	40.625	136.980	22.396	14.063
2	17:31:25	1060.977	423.444	151.563	156.772	34.375	34.375	114.584	22.396	16.146
3	17:32:34	1046.913	517.197	150.001	178.126	37.500	37.500	129.688	20.313	25.000
x		1051.080	468.237	151.042	165.800	37.500	37.500	127.084	21.701	18.403
σ		8.606	47.015	0.902	11.053	3.125	3.125	11.423	1.203	5.808
%RSD		0.819	10.041	0.597	6.666	8.333	8.333	8.988	5.543	31.558

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:30:17	29.688	28.125	46.875	32.813	70.313	0.000	131458.330	96.875	15.625
2	17:31:25	35.938	29.688	64.063	42.188	70.313	3.125	131575.020	96.875	14.063
3	17:32:34	26.563	40.625	43.750	25.000	67.188	6.250	130744.000	76.563	6.250
x		30.729	32.813	51.563	33.333	69.271	3.125	131259.110	90.104	11.979
σ		4.774	6.811	10.938	8.606	1.804	3.125	449.900	11.727	5.023
%RSD		15.534	20.757	21.212	25.817	2.605	100.000	0.343	13.015	41.929

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:30:17	4.688	4.688	14.063	3.125	78.125	17.188	201.564	334.379	355266.370
2	17:31:25	0.000	0.000	7.813	4.688	65.625	10.938	196.876	376.567	359344.610
3	17:32:34	0.000	0.000	15.625	3.125	50.000	14.063	185.939	376.567	353394.220
x		1.563	1.563	12.500	3.646	64.583	14.063	194.793	362.505	356001.730
σ		2.706	2.706	4.134	0.902	14.091	3.125	8.018	24.358	3042.592
%RSD		173.205	173.205	33.072	24.744	21.819	22.222	4.116	6.719	0.855

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:30:17	385306.690	21.875	62.500	228.127	151.563	429.694	362180.520	1859.496
2	17:31:25	391109.660	29.688	62.500	223.439	165.626	429.694	365026.600	1990.764
3	17:32:34	386435.000	18.750	73.438	223.439	198.439	439.069	364782.990	1992.326
x		387617.120	23.438	66.146	225.002	171.876	432.819	363996.710	1947.529
σ		3076.797	5.634	6.315	2.706	24.055	5.413	1577.571	76.243
%RSD		0.794	24.037	9.547	1.203	13.995	1.251	0.433	3.915

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:38:11	13873.921	26282.488	5208.762	384.380	19061799.000	13114927.000	1759927.000	2105804.500	2949895.100
2	17:39:19	13856.717	26765.676	5266.596	425.006	19247441.000	13270579.000	1790482.100	2126886.500	3006249.100
3	17:40:27	14097.578	26878.387	5383.827	387.505	19271767.000	13210171.000	1772251.800	2118047.500	2944231.100
x		13942.739	26642.184	5286.395	398.964	19193669.000	13198559.000	1774220.300	2116912.800	2966791.800
σ		134.370	316.562	89.196	22.607	114848.870	78472.751	15372.342	10586.704	34288.200
%RSD		0.964	1.188	1.687	5.667	0.598	0.595	0.866	0.500	1.156

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:38:11	28883.682	147076.660	12796.354	66052.350	8337941.600	42885.256	629849.440	47525.798	20339.469
2	17:39:19	30090.154	148789.580	12990.278	66309.788	8498247.500	43871.434	637432.740	47127.607	20611.734
3	17:40:27	29784.585	149299.540	12905.827	67904.754	8417612.100	43103.767	641917.640	48833.322	20740.044
x		29586.140	148388.600	12897.486	66755.631	8417933.700	43286.819	636399.940	47828.909	20563.749
σ		627.239	1164.427	97.231	1003.460	80153.448	517.946	6100.030	892.341	204.553
%RSD		2.120	0.785	0.754	1.503	0.952	1.197	0.959	1.866	0.995

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:38:11	320809.020	298642.390	38437.579	1099858.800	831053.580	18634057.000	468334.940	361114.990	78064.272
2	17:39:19	323710.890	300100.600	39473.209	1115000.500	845776.360	18837298.000	470956.020	363861.500	78741.411
3	17:40:27	322656.180	301391.410	38675.720	1114145.300	853669.450	19012785.000	465704.620	364440.030	78628.290
x		322392.030	300044.800	38862.169	1109668.200	843499.790	18828047.000	468331.860	363138.840	78477.991
σ		1468.858	1375.361	542.407	8505.955	11478.522	189533.840	2625.701	1776.417	362.728
%RSD		0.456	0.458	1.396	0.767	1.361	1.007	0.561	0.489	0.462

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:38:11	390897.730	186515.940	138838.590	55895.073	3602.017	3602.017	11773.078	5130.088	19.792
2	17:39:19	397347.040	191254.540	141277.960	56852.486	3791.128	3791.128	12133.275	5151.450	29.167
3	17:40:27	398026.510	191984.550	141389.990	56531.947	3730.174	3730.174	12072.808	5128.003	22.396
x		395423.760	189918.340	140502.180	56426.502	3707.773	3707.773	11993.054	5136.514	23.785
σ		3934.352	2969.088	1441.800	487.338	96.525	96.525	192.889	12.977	4.839
%RSD		0.995	1.563	1.026	0.864	2.603	2.603	1.608	0.253	20.347

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:38:11	65612.831	118178.990	127086.220	72755.108	193591.960	1.563	126752.020	7767.736	366271.940
2	17:39:19	66573.511	119803.380	128913.420	75403.161	200181.850	1.563	127325.840	8092.917	376528.800
3	17:40:27	66447.928	119485.100	129730.130	75191.110	198711.540	4.688	129140.450	7775.553	370276.330
x		66211.423	119155.820	128576.590	74449.793	197495.120	2.604	127739.430	7878.735	371025.690
σ		522.185	860.798	1353.760	1471.465	3459.253	1.804	1246.778	185.528	5169.327
%RSD		0.789	0.722	1.053	1.976	1.752	69.282	0.976	2.355	1.393

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:38:11	5804.304	5804.304	362369.600	90646.050	246109.660	349088.720	324116.820	573798.250	354840.350
2	17:39:19	6099.740	6099.740	363218.890	90683.789	251489.640	358433.080	328713.830	582831.240	351714.460
3	17:40:27	5733.963	5733.963	364111.500	92289.334	247699.280	355666.770	326669.290	580187.770	360847.410
x		5879.336	5879.336	363233.330	91206.391	248432.860	354396.190	326499.980	578939.080	355800.740
σ		194.089	194.089	871.039	938.046	2763.996	4800.004	2303.179	4644.150	4641.604
%RSD		3.301	3.301	0.240	1.028	1.113	1.354	0.705	0.802	1.305

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:38:11	386719.090	775101.700	1860553.900	619790.700	584765.740	1387938.600	352729.660	3671570.800
2	17:39:19	388207.080	784980.750	1895610.600	632544.360	598928.510	1413656.700	356427.570	3680549.200
3	17:40:27	392514.610	783438.520	1882227.200	633438.970	600422.100	1402576.200	359335.000	3639863.900
x		389146.930	781173.660	1879463.900	628591.350	594705.450	1401390.500	356164.080	3663994.600
σ		3009.895	5314.705	17690.983	7634.696	8640.370	12899.973	3310.546	21374.587
%RSD		0.773	0.680	0.941	1.215	1.453	0.921	0.930	0.583

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:46:04	14438.543	26.042	168.751	292.190	139119.430	13684.676	1750.107	2159.538	2714.320
2	17:47:12	14446.363	15.625	143.751	339.067	121632.800	9213.908	1303.184	1465.700	1926.692
3	17:48:20	14574.618	14.063	107.813	310.941	113443.960	6543.686	832.837	1081.291	1521.956
x		14486.508	18.576	140.105	314.066	124732.060	9814.090	1295.376	1568.843	2054.323
σ		76.406	6.512	30.632	23.594	13115.313	3608.130	458.685	546.473	606.342
%RSD		0.527	35.056	21.864	7.512	10.515	36.765	35.409	34.833	29.515

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:46:04	653.140	925.030	13761.312	69314.626	97660.805	51.563	1251.617	49524.759	25.000
2	17:47:12	721.893	851.588	14230.522	69798.222	91396.119	40.625	940.656	50402.821	21.875
3	17:48:20	609.388	890.653	14036.580	69484.197	88765.547	29.688	764.083	49024.600	10.938
x		661.474	889.090	14009.471	69532.348	92607.490	40.625	985.452	49650.727	19.271
σ		56.714	36.746	235.776	245.367	4569.679	10.938	246.835	697.692	7.384
%RSD		8.574	4.133	1.683	0.353	4.934	26.923	25.048	1.405	38.317

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:46:04	8094.480	448.445	2681.502	2928.425	768.771	38938.934	1587.588	295.316	78.125
2	17:47:12	7755.230	346.879	2658.060	2694.004	564.074	35276.313	1586.026	181.251	67.188
3	17:48:20	7642.669	298.441	2537.725	2618.990	478.133	33050.688	1536.020	150.001	43.750
x		7830.793	364.588	2625.762	2747.140	603.659	35755.312	1569.878	208.856	63.021
σ		235.193	76.554	77.138	161.416	149.308	2973.204	29.332	76.489	17.562
%RSD		3.003	20.997	2.938	5.876	24.734	8.315	1.868	36.623	27.867

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:46:04	400.006	156.251	162.501	101.042	21.875	21.875	138.022	21.354	16.667
2	17:47:12	256.252	98.438	131.251	101.042	35.938	35.938	123.438	15.625	16.667
3	17:48:20	196.876	70.313	117.188	89.584	18.750	18.750	105.209	20.833	20.833
x		284.378	108.334	136.980	97.223	25.521	25.521	122.223	19.271	18.056
σ		104.445	43.815	23.193	6.616	9.155	9.155	16.440	3.168	2.406
%RSD		36.727	40.445	16.932	6.805	35.874	35.874	13.451	16.440	13.323

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:46:04	98.438	190.626	175.001	132.813	239.065	0.000	134317.550	129.688	381.255
2	17:47:12	59.375	129.688	95.313	79.688	182.814	4.688	135801.800	100.000	220.314
3	17:48:20	64.063	78.125	90.625	64.063	121.876	1.563	133221.420	114.063	154.688
x		73.959	132.813	120.313	92.188	181.251	2.083	134446.920	114.584	252.086
σ		21.329	56.316	47.419	36.040	58.610	2.387	1295.044	14.851	116.577
%RSD		28.839	42.402	39.413	39.094	32.336	114.564	0.963	12.961	46.245

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:46:04	1.563	1.563	367.192	57.813	367.192	617.201	303.128	462.507	358811.140
2	17:47:12	4.688	4.688	187.501	59.375	267.190	412.506	156.251	295.316	360030.310
3	17:48:20	4.688	4.688	134.376	17.188	204.689	320.316	142.188	203.126	354765.080
x		3.646	3.646	229.690	44.792	279.690	450.008	200.522	320.316	357868.840
σ		1.804	1.804	122.007	23.919	81.970	151.954	89.137	131.485	2756.195
%RSD		49.487	49.487	53.118	53.400	29.307	33.767	44.452	41.049	0.770

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:46:04	388149.290	904.716	2165.789	535.948	553.136	1210.989	370409.400	2545.539
2	17:47:12	386489.570	487.508	1079.728	382.818	315.628	840.650	370930.470	1753.233
3	17:48:20	384306.850	279.690	679.704	250.002	259.377	534.385	367679.280	1284.433
x		386315.240	557.305	1308.407	389.589	376.047	862.008	369673.050	1861.068
σ		1927.143	318.305	768.982	143.093	155.921	338.807	1746.203	637.431
%RSD		0.499	57.115	58.772	36.729	41.463	39.304	0.472	34.251

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	17:53:57	14602.772	17.708	12862.038	2312.687	106335840.000	9950202.500	1344442.400	1593842.400	2417.392
2	17:55:05	14458.876	8.854	13018.429	2318.938	106109880.000	9941328.900	1337020.600	1571044.100	1501.641
3	17:56:13	14645.003	9.375	13177.950	2289.246	106056770.000	9836013.900	1337715.500	1577727.300	1807.927
x		14568.884	11.979	13019.472	2306.957	106167500.000	9909181.800	1339726.200	1580871.200	1908.987
σ		97.581	4.968	157.959	15.654	148190.190	63520.388	4099.110	11719.818	466.165
%RSD		0.670	41.476	1.213	0.679	0.140	0.641	0.306	0.741	24.419

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	17:53:57	1324656.300	806.273	217180.590	589022.890	2210041.100	126168.760	2145342.500	47383.138	117.188
2	17:55:05	1336567.800	689.079	219039.910	608485.560	2233519.400	127049.960	2164086.200	49063.797	101.563
3	17:56:13	1332315.500	746.895	215567.370	609248.310	2215380.400	125913.400	2159161.100	48607.554	109.375
x		1331179.900	747.415	217262.620	602252.250	2219647.000	126377.370	2156196.600	48351.496	109.375
σ		6036.418	58.599	1737.722	11463.306	12306.944	596.306	9717.126	869.096	7.813
%RSD		0.453	7.840	0.800	1.903	0.554	0.472	0.451	1.797	7.143

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	17:53:57	81648.286	20028.092	15847.848	3165.976	1437.572	40344.388	14031.888	364.067	293.753
2	17:55:05	82448.172	19868.494	16741.053	2912.797	1392.255	36449.566	13683.112	289.065	278.128
3	17:56:13	83848.475	19694.817	17219.747	2915.923	1340.688	37831.276	13414.107	317.191	285.940
x		82648.311	19863.801	16602.883	2998.232	1390.172	38208.410	13709.703	323.441	285.940
σ		1113.665	166.687	696.308	145.279	48.476	1974.610	309.747	37.889	7.813
%RSD		1.347	0.839	4.194	4.845	3.487	5.168	2.259	11.714	2.732

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	17:53:57	717.206	342.192	554.698	1614.675	262.502	262.502	321.879	171.876	18.229
2	17:55:05	615.638	312.503	523.447	1689.683	276.565	276.565	364.067	144.272	16.146
3	17:56:13	645.327	331.254	532.822	1719.374	298.441	298.441	342.192	149.480	17.188
x		659.390	328.650	536.989	1674.577	279.169	279.169	342.712	155.209	17.188
σ		52.224	15.014	16.037	53.960	18.110	18.110	21.099	14.667	1.042
%RSD		7.920	4.569	2.986	3.222	6.487	6.487	6.156	9.450	6.061

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	17:53:57	175.001	375.005	403.131	215.627	590.637	7.813	117307.790	101.563	73.438
2	17:55:05	215.627	304.691	345.317	275.003	526.572	3.125	120682.610	96.875	78.125
3	17:56:13	196.876	325.004	356.254	235.939	528.135	1.563	122297.820	73.438	53.125
x		195.835	334.900	368.234	242.190	548.448	4.167	120096.070	90.625	68.229
σ		20.333	36.187	30.712	30.177	36.545	3.253	2546.193	15.068	13.289
%RSD		10.383	10.805	8.340	12.460	6.663	78.062	2.120	16.627	19.477

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	17:53:57	0.000	0.000	53.125	53.125	204.689	189.064	4295.958	7672.372	334794.820
2	17:55:05	3.125	3.125	46.875	26.563	146.876	151.563	4327.218	7494.153	341263.960
3	17:56:13	3.125	3.125	37.500	21.875	154.688	154.688	4256.884	7605.149	345320.660
x		2.083	2.083	45.833	33.854	168.751	165.105	4293.353	7590.558	340459.810
σ		1.804	1.804	7.864	16.853	31.367	20.808	35.239	90.001	5308.797
%RSD		86.603	86.603	17.159	49.781	18.588	12.603	0.821	1.186	1.559

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	17:53:57	362765.400	395.318	985.972	448.445	406.256	990.659	322734.480	54462.995
2	17:55:05	372267.720	173.439	401.568	279.690	270.315	671.891	334270.240	54276.349
3	17:56:13	374583.330	181.251	445.319	314.066	273.440	670.328	336960.470	54428.489
x		369872.150	250.003	610.953	347.400	316.670	777.626	331321.730	54389.278
σ		6262.584	125.907	325.511	89.179	77.599	184.494	7557.446	99.309
%RSD		1.693	50.362	53.279	25.670	24.505	23.725	2.281	0.183

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:01:50	14311.853	3.125	13489.178	1090.667	105905280.000	9897879.800	1332316.500	1564974.600	1553.209
2	18:02:58	14788.901	4.688	13462.590	1171.923	105950830.000	9876514.500	1319960.600	1574076.200	1420.383
3	18:04:06	15143.960	7.813	13486.050	1142.233	105846760.000	9863874.000	1324272.100	1559265.500	1456.324
x		14748.238	5.208	13479.273	1134.941	105900960.000	9879422.800	1325516.400	1566105.400	1476.639
σ		417.541	2.387	14.532	41.116	52171.535	17188.463	6271.191	7469.819	68.704
%RSD		2.831	45.826	0.108	3.623	0.049	0.174	0.473	0.477	4.653

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:01:50	1342941.600	735.956	222678.330	584827.570	2221963.100	124690.240	2151409.300	48168.571	107.813
2	18:02:58	1329436.900	693.767	222481.550	594463.310	2225544.200	124105.490	2148672.200	47953.787	115.625
3	18:04:06	1349211.900	731.269	223879.700	597882.920	2213366.200	125275.010	2142038.900	49223.721	96.875
x		1340530.100	720.331	223013.190	592391.270	2220291.200	124690.250	2147373.500	48448.693	106.771
σ		10105.670	23.124	756.841	6769.825	6258.798	584.758	4818.305	679.731	9.418
%RSD		0.754	3.210	0.339	1.143	0.282	0.469	0.224	1.403	8.821

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:01:50	84052.795	20137.621	16813.013	2742.451	1300.059	36748.768	12991.842	293.753	301.566
2	18:02:58	85495.695	20132.927	17226.004	2939.365	1367.253	35411.021	13076.294	256.252	287.503
3	18:04:06	86614.906	20530.367	18075.491	2839.345	1329.749	35489.340	12599.304	301.566	287.503
x		85387.799	20266.971	17371.503	2840.387	1332.354	35883.043	12889.147	283.857	292.190
σ		1284.459	228.119	643.692	98.461	33.673	750.762	254.539	24.223	8.119
%RSD		1.504	1.126	3.705	3.466	2.527	2.092	1.975	8.534	2.779

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:01:50	642.202	334.379	728.144	1766.255	267.190	267.190	357.817	168.230	19.271
2	18:02:58	625.014	315.628	692.204	1755.837	300.003	300.003	334.900	157.293	21.354
3	18:04:06	573.449	301.566	676.579	1790.216	314.066	314.066	365.109	136.459	21.354
x		613.555	317.191	698.975	1770.770	293.753	293.753	352.609	153.994	20.660
σ		35.780	16.462	26.441	17.629	24.055	24.055	15.764	16.140	1.203
%RSD		5.832	5.190	3.783	0.996	8.189	8.189	4.471	10.481	5.822

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:01:50	165.626	331.254	375.005	196.876	493.759	3.125	117337.730	68.750	39.063
2	18:02:58	156.251	251.565	287.503	182.814	490.633	1.563	120641.640	104.688	39.063
3	18:04:06	171.876	326.566	315.628	220.314	464.070	0.000	121484.670	71.875	35.938
x		164.584	303.128	326.045	200.001	482.821	1.563	119821.350	81.771	38.021
σ		7.865	44.717	44.671	18.945	16.314	1.563	2191.792	19.908	1.804
%RSD		4.778	14.752	13.701	9.472	3.379	100.000	1.829	24.346	4.745

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:01:50	1.563	1.563	57.813	14.063	121.876	115.625	4113.092	7658.302	336002.360
2	18:02:58	1.563	1.563	50.000	7.813	93.750	93.750	4152.166	7698.949	345054.980
3	18:04:06	1.563	1.563	32.813	7.813	106.250	87.500	4167.795	7459.760	348249.860
x		1.563	1.563	46.875	9.896	107.292	98.959	4144.351	7605.670	343102.400
σ		0.000	0.000	12.790	3.608	14.092	14.768	28.177	127.986	6352.932
%RSD		0.000	0.000	27.285	36.464	13.134	14.924	0.680	1.683	1.852

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:01:50	366749.580	176.564	382.818	298.441	275.003	685.954	328096.760	55005.693
2	18:02:58	377050.090	81.250	209.377	229.689	221.877	539.073	336813.310	55295.873
3	18:04:06	381678.400	92.188	154.688	262.502	201.564	506.259	337307.590	55093.531
x		375159.360	116.667	248.961	263.544	232.814	577.095	334072.550	55131.699
σ		7641.896	52.159	119.105	34.387	37.921	95.691	5181.084	148.807
%RSD		2.037	44.708	47.841	13.048	16.288	16.582	1.551	0.270

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:09:43	14088.193	2188.188	13202.973	2281.432	102096920.000	9560597.600	1287938.300	1511163.000	483618.540
2	18:10:51	14379.108	2140.785	12827.632	2323.627	100359810.000	9414130.100	1257778.500	1492718.000	467422.270
3	18:11:59	14662.208	2153.808	13353.113	2304.873	103113270.000	9645453.200	1301412.700	1545915.700	494637.920
x		14376.503	2160.927	13127.906	2303.311	101856660.000	9540060.300	1282376.500	1516598.900	481892.910
σ		287.016	24.490	270.664	21.141	1392364.200	117021.060	22342.475	27012.271	13689.636
%RSD		1.996	1.133	2.062	0.918	1.367	1.227	1.742	1.781	2.841

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:09:43	1299164.000	762.520	218560.780	706688.660	2171000.500	122888.790	2116716.900	48526.027	114.063
2	18:10:51	1277749.600	798.460	214157.340	709258.300	2167838.600	122288.360	2087206.800	50147.237	117.188
3	18:11:59	1361561.400	795.335	224260.600	738905.740	2213346.500	126994.780	2155450.000	50589.417	114.063
x		1312825.000	785.438	218992.910	718284.230	2184061.900	124057.310	2119791.200	49754.227	115.105
σ		43543.941	19.909	5065.475	17904.907	25410.465	2561.577	34225.300	1086.387	1.804
%RSD		3.317	2.535	2.313	2.493	1.163	2.065	1.615	2.184	1.567

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:09:43	346767.580	112659.670	31838.565	40474.443	344189.150	644913.780	27387.164	295582.860	62261.947
2	18:10:51	345288.650	110240.910	31923.128	40692.248	342172.820	638696.730	26253.790	292972.090	61736.235
3	18:11:59	359504.820	113966.850	33248.020	41778.188	349149.550	651257.700	27097.550	301365.880	63067.029
x		350520.350	112289.140	32336.571	40981.626	345170.510	644956.070	26912.835	296640.280	62355.070
σ		7815.840	1890.404	790.470	698.386	3590.404	6280.590	588.833	4295.642	670.267
%RSD		2.230	1.684	2.445	1.704	1.040	0.974	2.188	1.448	1.075

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:09:43	80102.069	38833.961	56764.115	5946.550	370.317	370.317	579.699	250.523	17.708
2	18:10:51	80073.786	38298.142	58279.573	5864.745	425.006	425.006	573.970	251.565	22.396
3	18:11:59	81829.003	39390.168	58640.420	6132.566	403.131	403.131	554.698	277.086	19.792
x		80668.286	38840.757	57894.703	5981.287	399.485	399.485	569.456	259.725	19.965
σ		1005.310	546.045	995.603	137.248	27.526	27.526	13.098	15.044	2.349
%RSD		1.246	1.406	1.720	2.295	6.890	6.890	2.300	5.792	11.763

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:09:43	200.001	290.628	296.878	198.439	504.696	3.125	122129.200	726.581	31653.780
2	18:10:51	251.565	337.504	317.191	217.189	521.885	3.125	125104.780	734.394	31539.465
3	18:11:59	221.877	303.128	321.879	206.251	529.697	1.563	124326.150	714.080	32261.387
x		224.481	310.420	311.983	207.293	518.759	2.604	123853.380	725.018	31818.211
σ		25.880	24.274	13.289	9.418	12.790	0.902	1543.101	10.247	388.035
%RSD		11.529	7.820	4.260	4.544	2.466	34.641	1.246	1.413	1.220

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:09:43	460.945	460.945	31644.384	7695.822	106.250	61577.741	220869.320	393405.810	348453.170
2	18:10:51	445.319	445.319	30873.951	7519.166	73.438	60179.614	216528.620	389240.900	361826.400
3	18:11:59	471.883	471.883	31988.900	7703.639	109.375	61022.240	223908.260	397759.860	357699.400
x		459.382	459.382	31502.412	7639.542	96.355	60926.532	220435.400	393468.860	355992.990
σ		13.350	13.350	570.872	104.322	19.908	703.960	3708.909	4259.828	6847.972
%RSD		2.906	2.906	1.812	1.366	20.661	1.155	1.683	1.083	1.924

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:09:43	380446.180	66477.754	162486.020	22733.699	19471.073	47638.673	340756.760	54665.328
2	18:10:51	397094.860	67232.837	161248.680	22586.591	19870.059	47400.383	354249.390	53830.919
3	18:11:59	386855.530	68440.112	165977.380	23068.611	20009.316	47865.994	353061.130	55374.301
x		388132.190	67383.568	163237.360	22796.300	19783.483	47635.017	349355.760	54623.516
σ		8397.442	989.825	2452.249	247.032	279.371	232.827	7470.617	772.540
%RSD		2.164	1.469	1.502	1.084	1.412	0.489	2.138	1.414

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:17:37	14759.183	2.083	3097.211	748.457	23041610.000	2156439.500	288525.130	343672.240	762.520
2	18:18:46	15032.905	6.250	3075.331	812.523	22831840.000	2147324.700	281279.640	338804.900	817.211
3	18:19:54	14268.059	1.563	3003.441	760.958	22476563.000	2136878.100	281507.500	336359.050	878.152
x		14686.716	3.299	3058.661	773.979	22783338.000	2146880.800	283770.760	339612.060	819.294
σ		387.538	2.569	49.057	33.960	285628.740	9788.220	4118.984	3722.811	57.844
%RSD		2.639	77.888	1.604	4.388	1.254	0.456	1.452	1.096	7.060

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:17:37	287830.070	779.709	56640.187	187516.410	544324.690	26792.288	449087.040	48783.151	32.813
2	18:18:46	286366.720	773.458	55873.112	184904.570	532178.090	26620.091	441399.810	49066.933	18.750
3	18:19:54	284820.650	745.332	55645.665	185651.670	530270.010	26778.199	450189.690	49049.686	20.313
x		286339.150	766.166	56052.988	186024.220	535590.930	26730.193	446892.180	48966.590	23.958
σ		1504.901	18.312	521.090	1345.185	7623.592	95.610	4788.376	159.097	7.708
%RSD		0.526	2.390	0.930	0.723	1.423	0.358	1.071	0.325	32.171

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:17:37	28891.686	4397.552	7206.505	2281.432	446.882	26527.732	3950.546	121.876	96.875
2	18:18:46	28129.229	4388.174	7229.954	2347.068	390.630	26873.691	3947.420	117.188	65.625
3	18:19:54	28021.205	4549.162	6972.013	2272.056	503.134	27642.343	3923.976	123.438	68.750
x		28347.373	4444.962	7136.157	2300.185	446.882	27014.589	3940.648	120.834	77.084
σ		474.473	90.361	142.636	40.871	56.252	570.507	14.522	3.253	17.211
%RSD		1.674	2.033	1.999	1.777	12.588	2.112	0.369	2.692	22.328

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:17:37	170.314	89.063	260.940	436.465	84.375	84.375	160.418	54.167	24.479
2	18:18:46	179.689	96.875	271.878	436.986	81.250	81.250	178.126	49.479	22.396
3	18:19:54	192.189	70.313	270.315	435.944	98.438	98.438	165.105	55.208	21.354
x		180.730	85.417	267.711	436.465	88.021	88.021	167.883	52.951	22.743
σ		10.975	13.651	5.916	0.521	9.155	9.155	9.175	3.052	1.591
%RSD		6.072	15.982	2.210	0.119	10.401	10.401	5.465	5.763	6.996

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:17:37	29.688	59.375	79.688	59.375	101.563	3.125	130488.560	118.750	32.813
2	18:18:46	50.000	65.625	68.750	60.938	107.813	4.688	132521.200	121.876	31.250
3	18:19:54	29.688	54.688	70.313	48.438	90.625	1.563	129829.470	107.813	28.125
x		36.458	59.896	72.917	56.250	100.000	3.125	130946.410	116.146	30.729
σ		11.727	5.487	5.916	6.811	8.700	1.563	1403.061	7.384	2.387
%RSD		32.167	9.161	8.113	12.108	8.700	50.000	1.071	6.358	7.767

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:17:37	0.000	0.000	21.875	1.563	57.813	67.188	987.534	1728.230	356534.890
2	18:18:46	0.000	0.000	23.438	1.563	45.313	42.188	950.032	1739.168	363941.630
3	18:19:54	1.563	1.563	17.188	4.688	56.250	50.000	879.715	1659.471	358788.710
x		0.521	0.521	20.833	2.604	53.125	53.125	939.093	1708.956	359755.080
σ		0.902	0.902	3.253	1.804	6.811	12.790	54.736	43.203	3796.753
%RSD		173.205	173.205	15.613	69.282	12.820	24.075	5.829	2.528	1.055

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:17:37	385035.460	250.002	628.139	67.188	73.438	162.501	357330.980	11581.255
2	18:18:46	394178.230	173.439	471.883	96.875	71.875	179.689	364940.060	11504.631
3	18:19:54	388833.140	150.001	401.568	82.813	57.813	187.501	362379.220	11396.732
x		389348.950	191.147	500.530	82.292	67.708	176.564	361550.080	11494.206
σ		4593.160	52.300	115.970	14.851	8.606	12.790	3871.708	92.702
%RSD		1.180	27.361	23.169	18.046	12.710	7.244	1.071	0.807

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:25:32	14951.570	2.604	745.332	457.820	4696407.700	435676.020	56966.480	68809.066	701.580
2	18:26:40	14313.417	3.646	790.647	417.194	4888419.300	458870.940	59253.881	71608.712	687.517
3	18:27:48	14590.259	3.125	800.022	467.195	4781579.400	442322.200	57724.200	69080.685	650.015
x		14618.415	3.125	778.667	447.403	4788802.100	445623.050	57981.521	69832.821	679.704
σ		320.007	0.521	29.247	26.579	96209.382	11944.573	1165.209	1543.952	26.656
%RSD		2.189	16.667	3.756	5.941	2.009	2.680	2.010	2.211	3.922

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:25:32	57148.455	785.959	22378.452	96282.748	177426.250	5313.488	89925.895	49966.919	15.625
2	18:26:40	60258.069	760.958	22669.535	93762.946	181133.280	5622.981	93946.961	47292.213	3.125
3	18:27:48	57597.126	773.458	22525.558	94049.193	177461.060	5486.991	90935.380	48801.965	6.250
x		58334.550	773.458	22524.515	94698.296	178673.530	5474.487	91602.746	48687.032	8.333
σ		1680.854	12.501	145.545	1379.620	2130.276	155.125	2091.955	1341.052	6.505
%RSD		2.881	1.616	0.646	1.457	1.192	2.834	2.284	2.754	78.062

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:25:32	13118.521	1160.985	4045.885	2172.040	284.378	27138.253	1795.425	84.375	29.688
2	18:26:40	13448.515	1207.864	3808.320	2282.995	256.252	26878.387	1665.722	62.500	42.188
3	18:27:48	12938.669	1046.913	3741.115	2259.554	217.189	26551.213	1709.477	71.875	29.688
x		13168.568	1138.587	3865.107	2238.196	252.606	26855.951	1723.542	72.917	33.854
σ		258.581	82.780	160.124	58.479	33.742	294.162	65.985	10.975	7.217
%RSD		1.964	7.270	4.143	2.613	13.358	1.095	3.828	15.051	21.318

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:25:32	95.313	48.438	84.375	175.001	43.750	43.750	116.667	19.792	17.708
2	18:26:40	93.750	46.875	59.375	168.751	53.125	53.125	124.480	20.313	14.063
3	18:27:48	85.938	29.688	82.813	162.501	48.438	48.438	118.750	20.313	20.833
x		91.667	41.667	75.521	168.751	48.438	48.438	119.966	20.139	17.535
σ		5.023	10.404	14.005	6.250	4.688	4.688	4.046	0.301	3.389
%RSD		5.479	24.969	18.544	3.704	9.677	9.677	3.372	1.493	19.326

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:25:32	14.063	18.750	20.313	20.313	28.125	0.000	136319.190	96.875	46.875
2	18:26:40	15.625	29.688	21.875	14.063	31.250	3.125	128771.520	84.375	18.750
3	18:27:48	10.938	23.438	14.063	18.750	21.875	3.125	132481.780	126.563	17.188
x		13.542	23.958	18.750	17.708	27.083	2.083	132524.160	102.605	27.604
σ		2.387	5.487	4.134	3.253	4.774	1.804	3774.013	21.670	16.707
%RSD		17.625	22.904	22.048	18.368	17.625	86.603	2.848	21.120	60.525

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:25:32	0.000	0.000	29.688	1.563	62.500	39.063	212.502	421.881	364399.970
2	18:26:40	3.125	3.125	10.938	4.688	45.313	39.063	276.565	439.069	347143.740
3	18:27:48	0.000	0.000	18.750	4.688	70.313	26.563	220.314	420.319	355333.640
x		1.042	1.042	19.792	3.646	59.375	34.896	236.460	427.090	355625.780
σ		1.804	1.804	9.418	1.804	12.790	7.217	34.951	10.404	8631.822
%RSD		173.205	173.205	47.587	49.487	21.540	20.681	14.781	2.436	2.427

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:25:32	397668.300	89.063	221.877	26.563	34.375	100.000	371449.960	2242.363
2	18:26:40	376918.560	103.125	200.001	48.438	53.125	117.188	356916.110	2439.271
3	18:27:48	389661.510	65.625	167.188	37.500	26.563	92.188	366166.150	2279.869
x		388082.790	85.938	196.356	37.500	38.021	103.125	364844.070	2320.501
σ		10464.567	18.944	27.526	10.938	13.651	12.790	7356.572	104.553
%RSD		2.696	22.044	14.018	29.167	35.905	12.402	2.016	4.506

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:33:27	14512.055	2.604	715.643	360.942	4665999.200	437654.470	57093.549	68523.322	687.517
2	18:34:35	14737.285	0.521	707.830	390.630	4596406.400	427782.710	55746.055	66650.430	637.514
3	18:35:43	14660.644	2.083	681.266	357.817	4687583.400	436060.930	57421.421	68846.747	642.202
x		14636.661	1.736	701.580	369.796	4649996.400	433832.710	56753.675	68006.833	655.744
σ		114.514	1.084	18.021	18.110	47648.475	5299.685	887.890	1185.758	27.615
%RSD		0.782	62.450	2.569	4.897	1.025	1.222	1.564	1.744	4.211

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:33:27	57879.514	742.207	22750.914	90925.946	175116.770	5383.827	89230.933	49552.981	9.375
2	18:34:35	57176.693	759.395	22117.108	90086.276	174830.480	5169.685	86181.044	48831.754	10.938
3	18:35:43	57885.790	714.080	22885.504	90658.630	175339.790	5405.710	88951.071	47801.717	1.563
x		57647.332	738.561	22584.509	90556.950	175095.680	5319.741	88121.016	48728.817	7.292
σ		407.598	22.876	410.337	428.970	255.309	130.412	1685.882	880.158	5.023
%RSD		0.707	3.097	1.817	0.474	0.146	2.451	1.913	1.806	68.883

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:33:27	11664.135	1178.174	3484.800	2184.542	206.251	26660.792	1842.306	59.375	35.938
2	18:34:35	11306.035	1100.042	3350.393	2225.173	243.752	25928.196	1731.355	35.938	31.250
3	18:35:43	11263.814	1081.291	3240.993	2207.983	207.814	26047.162	1786.049	46.875	25.000
x		11411.328	1119.836	3358.729	2205.900	219.273	26212.050	1786.570	47.396	30.729
σ		219.953	51.385	122.117	20.396	21.214	393.148	55.478	11.727	5.487
%RSD		1.927	4.589	3.636	0.925	9.675	1.500	3.105	24.744	17.857

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:33:27	71.875	35.938	100.000	144.792	43.750	43.750	119.271	23.958	15.625
2	18:34:35	75.000	50.000	64.063	158.855	29.688	29.688	116.667	19.271	21.354
3	18:35:43	71.875	45.313	84.375	162.501	37.500	37.500	121.355	18.229	15.104
x		72.917	43.750	82.813	155.383	36.979	36.979	119.098	20.486	17.361
σ		1.804	7.160	18.020	9.351	7.046	7.046	2.349	3.052	3.468
%RSD		2.474	16.366	21.760	6.018	19.053	19.053	1.972	14.897	19.975

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:33:27	6.250	23.438	21.875	17.188	26.563	1.563	133033.750	92.188	23.438
2	18:34:35	18.750	15.625	15.625	21.875	25.000	0.000	135224.480	117.188	15.625
3	18:35:43	17.188	21.875	9.375	15.625	39.063	0.000	129430.560	118.750	21.875
x		14.063	20.313	15.625	18.229	30.208	0.521	132562.930	109.375	20.313
σ		6.811	4.134	6.250	3.253	7.708	0.902	2925.515	14.905	4.134
%RSD		48.432	20.352	40.000	17.843	25.515	173.205	2.207	13.628	20.352

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:33:27	1.563	1.563	21.875	3.125	42.188	23.438	196.876	370.317	360913.110
2	18:34:35	0.000	0.000	10.938	1.563	50.000	20.313	162.501	360.942	360693.600
3	18:35:43	1.563	1.563	15.625	1.563	34.375	25.000	228.127	354.692	355123.830
x		1.042	1.042	16.146	2.083	42.188	22.917	195.835	361.984	358910.180
σ		0.902	0.902	5.487	0.902	7.813	2.387	32.825	7.865	3280.913
%RSD		86.603	86.603	33.986	43.301	18.519	10.415	16.762	2.173	0.914

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:33:27	391962.250	51.563	131.251	43.750	40.625	101.563	366020.300	2340.817
2	18:34:35	395933.600	62.500	123.438	40.625	28.125	84.375	371275.190	2237.675
3	18:35:43	384862.130	56.250	103.125	42.188	20.313	87.500	362819.880	2329.878
x		390919.330	56.771	119.271	42.188	29.688	91.146	366705.120	2302.790
σ		5608.932	5.487	14.518	1.563	10.246	9.155	4269.056	56.656
%RSD		1.435	9.666	12.172	3.704	34.513	10.045	1.164	2.460

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:41:21	14680.977	95.313	643.765	415.631	4642801.600	432840.480	55524.884	67174.753	22830.729
2	18:42:29	14508.927	107.813	696.892	442.194	4670179.400	436959.060	56629.206	67849.807	23098.346
3	18:43:37	14630.926	111.459	743.769	382.818	4654898.700	439789.460	57167.280	69468.496	23375.359
x		14606.943	104.862	694.809	413.548	4655959.900	436529.670	56440.456	68164.352	23101.478
σ		88.497	8.468	50.035	29.743	13719.716	3494.334	837.309	1178.778	272.328
%RSD		0.606	8.075	7.201	7.192	0.295	0.800	1.484	1.729	1.179

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:41:21	56969.618	817.211	22894.894	93772.382	173150.830	5315.051	87636.735	47847.181	3.125
2	18:42:29	56910.006	826.586	22660.145	94505.313	172026.430	5572.962	89248.228	47439.575	3.125
3	18:43:37	58265.453	792.209	22937.149	93706.326	172328.480	5415.089	90130.302	48491.536	17.188
x		57381.692	812.002	22830.729	93994.674	172501.920	5434.367	89005.088	47926.097	7.813
σ		765.940	17.771	149.233	443.458	581.918	130.032	1264.440	530.402	8.119
%RSD		1.335	2.188	0.654	0.472	0.337	2.393	1.421	1.107	103.923

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:41:21	22453.569	5585.467	3767.684	3966.176	15858.798	54157.148	2572.107	13464.154	2954.993
2	18:42:29	22624.151	5380.701	3577.010	3947.420	15977.680	54877.075	2772.144	13634.629	2986.250
3	18:43:37	22384.711	5322.867	3645.778	4016.190	15874.440	54825.315	2618.990	14045.964	2915.923
x		22487.477	5429.678	3663.491	3976.595	15903.639	54619.846	2654.414	13714.916	2952.388
σ		123.268	137.981	96.563	35.549	64.596	401.543	104.618	299.099	35.236
%RSD		0.548	2.541	2.636	0.894	0.406	0.735	3.941	2.181	1.193

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:41:21	3944.294	1904.815	2606.488	313.545	42.188	42.188	123.959	24.479	21.354
2	18:42:29	3945.857	1848.557	2661.185	341.671	25.000	25.000	141.667	22.917	19.271
3	18:43:37	3748.929	1743.856	2537.725	330.212	43.750	43.750	128.126	19.271	21.875
x		3879.694	1832.409	2601.800	328.476	36.979	36.979	131.251	22.222	20.833
σ		113.248	81.685	61.863	14.143	10.404	10.404	9.259	2.673	1.378
%RSD		2.919	4.458	2.378	4.306	28.134	28.134	7.054	12.027	6.614

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:41:21	23.438	4.688	7.813	7.813	34.375	6.250	128640.660	142.188	1334.437
2	18:42:29	21.875	17.188	23.438	23.438	31.250	0.000	128355.300	142.188	1457.887
3	18:43:37	12.500	20.313	14.063	20.313	31.250	4.688	128051.020	117.188	1392.255
x		19.271	14.063	15.104	17.188	32.292	3.646	128348.990	133.855	1394.860
σ		5.916	8.268	7.864	8.268	1.804	3.253	294.869	14.434	61.766
%RSD		30.697	58.794	52.068	48.105	5.587	89.214	0.230	10.783	4.428

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:41:21	15.625	15.625	1414.133	334.379	57.813	2615.865	9678.277	16808.320	346144.940
2	18:42:29	28.125	28.125	1364.128	325.004	40.625	2654.934	9665.769	16748.875	339945.580
3	18:43:37	21.875	21.875	1375.066	328.129	64.063	2576.795	9673.587	16911.567	343232.160
x		21.875	21.875	1384.442	329.170	54.167	2615.865	9672.544	16822.921	343107.560
σ		6.250	6.250	26.288	4.774	12.137	39.070	6.319	82.323	3101.554
%RSD		28.571	28.571	1.899	1.450	22.406	1.494	0.065	0.489	0.904

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:41:21	370289.150	2962.807	6956.381	1000.035	834.399	2092.341	352574.330	2245.489
2	18:42:29	373342.090	2961.244	6836.010	962.532	798.460	2112.656	348674.090	2140.785
3	18:43:37	377078.960	2859.661	6932.932	984.409	884.402	2182.979	349844.370	2140.785
x		373570.070	2927.904	6908.441	982.325	839.087	2129.325	350364.260	2175.687
σ		3400.640	59.105	63.813	18.838	43.163	47.563	2001.422	60.451
%RSD		0.910	2.019	0.924	1.918	5.144	2.234	0.571	2.778

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:49:17	15125.190	2.083	218.752	292.190	1019401.400	85678.032	11734.505	14011.555	629.701
2	18:50:25	15261.272	3.125	221.877	318.754	1011976.400	85329.078	11742.324	13803.541	668.766
3	18:51:33	15265.965	2.604	207.814	307.816	931945.910	86113.451	11531.215	13897.382	581.262
x		15217.476	2.604	216.147	306.253	987774.590	85706.854	11669.348	13904.159	626.576
σ		79.956	0.521	7.384	13.350	48491.376	392.980	119.691	104.173	43.836
%RSD		0.525	20.000	3.416	4.359	4.909	0.459	1.026	0.749	6.996

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:49:17	12170.807	795.335	15596.009	71293.077	101654.140	1089.104	18244.455	49871.273	6.250
2	18:50:25	11451.463	800.022	16163.827	72370.348	101776.890	1042.226	17581.124	49999.847	3.125
3	18:51:33	11238.794	712.518	15714.889	72153.631	100897.240	1100.042	17717.230	49270.757	3.125
x		11620.355	769.292	15824.908	71939.019	101442.760	1077.124	17847.603	49713.959	4.167
σ		488.421	49.223	299.470	569.800	476.399	30.714	350.357	389.170	1.804
%RSD		4.203	6.399	1.892	0.792	0.470	2.851	1.963	0.783	43.301

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:49:17	7270.600	426.569	2418.955	2204.858	148.438	26188.044	1421.946	9.375	7.813
2	18:50:25	7289.359	412.506	2411.141	2103.280	128.126	26396.239	1420.383	23.438	15.625
3	18:51:33	7405.044	434.382	2337.691	2145.474	162.501	26555.910	1395.381	15.625	29.688
x		7321.668	424.485	2389.262	2151.204	146.355	26380.064	1412.570	16.146	17.708
σ		72.813	11.086	44.832	51.031	17.282	184.465	14.907	7.046	11.085
%RSD		0.994	2.612	1.876	2.372	11.808	0.699	1.055	43.638	62.599

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:49:17	54.688	17.188	62.500	76.563	21.875	21.875	117.188	16.667	18.229
2	18:50:25	65.625	20.313	67.188	75.521	32.813	32.813	102.084	19.271	16.667
3	18:51:33	53.125	21.875	68.750	80.209	18.750	18.750	115.625	17.188	13.542
x		57.813	19.792	66.146	77.431	24.479	24.479	111.632	17.708	16.146
σ		6.811	2.387	3.253	2.461	7.384	7.384	8.306	1.378	2.387
%RSD		11.781	12.059	4.917	3.179	30.165	30.165	7.441	7.782	14.783

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:49:17	14.063	4.688	6.250	17.188	10.938	3.125	135216.600	126.563	9.375
2	18:50:25	4.688	3.125	6.250	6.250	7.813	0.000	133890.130	109.375	7.813
3	18:51:33	12.500	10.938	6.250	10.938	3.125	1.563	134188.220	90.625	6.250
x		10.417	6.250	6.250	11.458	7.292	1.563	134431.650	108.855	7.813
σ		5.023	4.134	0.000	5.487	3.932	1.563	695.933	17.975	1.563
%RSD		48.218	66.144	0.000	47.889	53.927	100.000	0.518	16.512	20.000

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:49:17	0.000	0.000	6.250	1.563	56.250	15.625	48.438	89.063	360592.660
2	18:50:25	0.000	0.000	1.563	1.563	59.375	10.938	42.188	93.750	360815.370
3	18:51:33	0.000	0.000	6.250	1.563	60.938	14.063	45.313	81.250	362919.230
x		0.000	0.000	4.688	1.563	58.854	13.542	45.313	88.021	361442.420
σ		0.000	0.000	2.706	0.000	2.387	2.387	3.125	6.315	1283.792
%RSD		0.000	0.000	57.735	0.000	4.055	17.625	6.897	7.174	0.355

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:49:17	390040.390	43.750	114.063	25.000	20.313	53.125	371055.530	404.693
2	18:50:25	387982.350	31.250	85.938	21.875	25.000	56.250	369397.770	440.632
3	18:51:33	388479.980	29.688	84.375	31.250	35.938	51.563	368102.470	485.946
x		388834.240	34.896	94.792	26.042	27.083	53.646	369518.590	443.757
σ		1073.784	7.708	16.707	4.774	8.018	2.387	1480.236	40.716
%RSD		0.276	22.088	17.625	18.330	29.605	4.449	0.401	9.175

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	18:57:12	14801.414	0.000	584.387	418.756	5061966.700	996465.010	131284.870	156967.020	759.395
2	18:58:21	15075.137	2.604	567.199	484.383	5034769.900	986598.380	130174.780	154174.350	743.769
3	18:59:29	14898.390	2.604	612.513	445.319	5061194.400	994111.900	130736.120	155426.880	776.584
x		14924.980	1.736	588.033	449.486	5052643.700	992391.770	130731.920	155522.750	759.916
σ		138.786	1.504	22.876	33.011	15483.964	5153.325	555.057	1398.799	16.413
%RSD		0.930	86.603	3.890	7.344	0.306	0.519	0.425	0.899	2.160

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	18:57:12	53512.538	826.586	26806.377	87743.638	217075.890	11653.188	199009.390	48859.975	4.688
2	18:58:21	52389.638	801.585	27114.770	88501.416	215730.750	11784.546	196279.830	48668.699	10.938
3	18:59:29	53681.922	803.148	27589.115	89617.718	216964.850	11770.472	198047.730	48996.379	9.375
x		53194.699	810.440	27170.087	88620.924	216590.500	11736.069	197778.980	48841.684	8.333
σ		702.329	14.005	394.290	942.738	746.633	72.121	1384.484	164.604	3.253
%RSD		1.320	1.728	1.451	1.064	0.345	0.615	0.700	0.337	39.031

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	18:57:12	8307.102	318.754	2465.838	2276.744	167.188	26574.695	2622.116	29.688	25.000
2	18:58:21	8350.878	281.253	2479.903	2193.919	187.501	26441.635	2631.492	26.563	51.563
3	18:59:29	8294.595	314.066	2550.228	2165.789	159.376	26652.965	2540.851	26.563	51.563
x		8317.525	304.691	2498.656	2212.151	171.355	26556.432	2598.153	27.604	42.708
σ		29.554	20.433	45.213	57.681	14.518	106.842	49.846	1.804	15.336
%RSD		0.355	6.706	1.809	2.607	8.473	0.402	1.919	6.536	35.908

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	18:57:12	156.251	78.125	171.876	113.021	21.875	21.875	130.730	32.292	19.271
2	18:58:21	142.188	56.250	170.314	111.459	26.563	26.563	113.542	22.917	17.188
3	18:59:29	142.188	70.313	173.439	105.730	34.375	34.375	122.396	27.083	16.667
x		146.876	68.229	171.876	110.070	27.604	27.604	122.223	27.431	17.708
σ		8.119	11.085	1.563	3.839	6.315	6.315	8.595	4.697	1.378
%RSD		5.528	16.247	0.909	3.488	22.876	22.876	7.032	17.124	7.782

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	18:57:12	6.250	3.125	10.938	14.063	17.188	6.250	130141.660	98.438	3.125
2	18:58:21	9.375	9.375	4.688	23.438	15.625	0.000	130173.200	104.688	1.563
3	18:59:29	14.063	17.188	10.938	12.500	23.438	1.563	132242.070	101.563	7.813
x		9.896	9.896	8.854	16.667	18.750	2.604	130852.310	101.563	4.167
σ		3.932	7.046	3.608	5.916	4.134	3.253	1203.670	3.125	3.253
%RSD		39.736	71.199	40.754	35.493	22.048	124.900	0.920	3.077	78.062

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	18:57:12	0.000	0.000	4.688	1.563	40.625	15.625	128.126	254.690	349769.120
2	18:58:21	0.000	0.000	6.250	1.563	42.188	15.625	123.438	225.002	351463.070
3	18:59:29	0.000	0.000	3.125	0.000	67.188	14.063	160.938	250.002	350667.310
x		0.000	0.000	4.688	1.042	50.000	15.104	137.501	243.231	350633.170
σ		0.000	0.000	1.563	0.902	14.905	0.902	20.433	15.960	847.489
%RSD		0.000	0.000	33.333	86.603	29.811	5.973	14.860	6.562	0.242

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	18:57:12	376726.080	46.875	73.438	57.813	34.375	115.625	357270.110	3537.938
2	18:58:21	383148.220	17.188	57.813	42.188	42.188	115.625	355742.050	3487.926
3	18:59:29	381684.820	14.063	76.563	50.000	34.375	114.063	358045.410	3434.788
x		380519.710	26.042	69.271	50.000	36.979	115.105	357019.190	3486.884
σ		3365.871	18.110	10.046	7.813	4.511	0.902	1172.000	51.583
%RSD		0.885	69.541	14.502	15.625	12.198	0.784	0.328	1.479

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:05:09	14856.158	2.604	603.138	407.818	5695053.900	782686.310	101211.960	122568.880	542.198
2	19:06:17	14512.055	2.083	621.889	364.067	5534607.900	770032.900	100979.070	121646.980	575.012
3	19:07:25	14490.158	1.563	617.201	375.005	5618028.500	779388.880	101042.010	122275.760	481.258
x		14619.457	2.083	614.076	382.297	5615896.700	777369.360	101077.680	122163.870	532.822
σ		205.282	0.521	9.758	22.769	80244.240	6563.994	120.472	471.020	47.575
%RSD		1.404	25.000	1.589	5.956	1.429	0.844	0.119	0.386	8.929

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:05:09	63082.723	782.834	27703.398	86360.247	164205.520	8117.931	138155.450	47865.994	9.375
2	19:06:17	61842.945	751.582	27365.247	87077.078	162881.110	8354.004	136036.830	47982.007	9.375
3	19:07:25	62928.922	754.707	26958.225	87205.986	163066.010	8391.526	136207.190	47748.414	6.250
x		62618.197	763.041	27342.290	86881.104	163384.210	8287.821	136799.820	47865.471	8.333
σ		675.777	17.212	373.117	455.657	717.253	148.320	1177.095	116.797	1.804
%RSD		1.079	2.256	1.365	0.524	0.439	1.790	0.860	0.244	21.651

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:05:09	8425.922	232.814	2459.587	2103.280	162.501	26472.943	2184.542	28.125	46.875
2	19:06:17	8632.295	284.378	2450.210	2187.668	121.876	25990.809	2151.725	39.063	32.813
3	19:07:25	8441.556	235.939	2531.474	2218.922	131.251	25970.460	2248.615	32.813	37.500
x		8499.924	251.044	2480.424	2169.957	138.542	26144.737	2194.960	33.333	39.063
σ		114.903	28.910	44.459	59.821	21.272	284.417	49.278	5.487	7.160
%RSD		1.352	11.516	1.792	2.757	15.354	1.088	2.245	16.462	18.330

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:05:09	51.563	29.688	54.688	113.021	20.313	20.313	125.521	27.083	20.833
2	19:06:17	60.938	21.875	51.563	108.855	32.813	32.813	114.584	28.125	20.833
3	19:07:25	76.563	26.563	50.000	107.292	26.563	26.563	151.563	29.688	15.625
x		63.021	26.042	52.083	109.723	26.563	26.563	130.556	28.299	19.097
σ		12.630	3.932	2.387	2.962	6.250	6.250	18.997	1.311	3.007
%RSD		20.040	15.100	4.583	2.699	23.529	23.529	14.551	4.632	15.746

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:05:09	21.875	21.875	21.875	15.625	37.500	0.000	127876.030	104.688	3.125
2	19:06:17	9.375	14.063	20.313	18.750	29.688	0.000	127926.480	95.313	0.000
3	19:07:25	23.438	15.625	15.625	21.875	25.000	1.563	128248.090	115.625	4.688
x		18.229	17.188	19.271	18.750	30.729	0.521	128016.870	105.209	2.604
σ		7.708	4.134	3.253	3.125	6.315	0.902	201.830	10.166	2.387
%RSD		42.282	24.052	16.878	16.667	20.550	173.205	0.158	9.663	91.652

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:05:09	3.125	3.125	10.938	4.688	37.500	12.500	126.563	167.188	343491.400
2	19:06:17	0.000	0.000	6.250	4.688	39.063	12.500	90.625	176.564	344642.060
3	19:07:25	0.000	0.000	4.688	0.000	54.688	10.938	89.063	160.938	347692.790
x		1.042	1.042	7.292	3.125	43.750	11.979	102.084	168.230	345275.420
σ		1.804	1.804	3.253	2.706	9.504	0.902	21.214	7.865	2171.121
%RSD		173.205	173.205	44.607	86.603	21.724	7.531	20.781	4.675	0.629

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:05:09	370221.820	40.625	76.563	26.563	32.813	54.688	345706.380	3561.381
2	19:06:17	374270.600	31.250	73.438	29.688	39.063	60.938	351027.560	3580.136
3	19:07:25	374026.840	28.125	60.938	31.250	21.875	59.375	352385.380	3608.268
x		372839.750	33.333	70.313	29.167	31.250	58.333	349706.440	3583.262
σ		2270.474	6.505	8.268	2.387	8.700	3.253	3530.052	23.599
%RSD		0.609	19.516	11.759	8.183	27.839	5.576	1.009	0.659

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:13:03	14210.189	27234.790	5250.965	368.755	19319185.000	13387808.000	1785971.600	2111972.800	2953208.600
2	19:14:11	14322.801	26849.687	5496.370	440.632	19381699.000	13380333.000	1795070.000	2101487.700	2976882.500
3	19:15:19	14444.799	27484.225	5351.002	390.630	19509397.000	13518423.000	1808885.300	2156037.700	3031454.100
x		14325.930	27189.568	5366.112	400.006	19403427.000	13428855.000	1796642.300	2123166.100	2987181.800
σ		117.336	319.677	123.398	36.844	96949.647	77657.974	11537.491	28946.394	40126.613
%RSD		0.819	1.176	2.300	9.211	0.500	0.578	0.642	1.363	1.343

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:13:03	27423.171	150488.480	13227.996	62819.065	8303146.000	41956.580	629705.810	47681.002	20924.688
2	19:14:11	27394.992	150341.640	13298.374	63365.219	8432791.700	42612.116	640717.070	48568.358	20727.526
3	19:15:19	29331.499	153523.650	13073.167	63566.109	8549103.200	42563.238	639630.920	48243.824	20782.293
x		28049.887	151451.260	13199.846	63250.131	8428347.000	42377.311	636684.600	48164.395	20811.503
σ		1109.998	1796.245	115.213	386.591	123038.800	365.183	6068.158	448.979	101.775
%RSD		3.957	1.186	0.873	0.611	1.460	0.862	0.953	0.932	0.489

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:13:03	316367.860	299542.190	37763.911	1097937.900	838885.790	18682493.000	462375.140	358433.080	77819.191
2	19:14:11	319379.080	302573.830	37832.843	1121612.600	832835.820	18592984.000	465676.900	363454.460	79761.107
3	19:15:19	325050.170	301985.000	38121.107	1123406.700	851198.680	18821504.000	470543.300	364393.560	79979.510
x		320265.700	301367.010	37905.954	1114319.100	840973.430	18698994.000	466198.450	362093.700	79186.603
σ		4408.536	1607.531	189.490	14214.864	9357.740	115150.240	4108.980	3204.775	1189.238
%RSD		1.377	0.533	0.500	1.276	1.113	0.616	0.881	0.885	1.502

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:13:03	394827.040	187712.710	139307.180	56263.703	3639.526	3639.526	12062.903	5172.811	23.438
2	19:14:11	396550.360	189134.410	138846.480	56564.366	3756.744	3756.744	12076.978	5101.432	19.271
3	19:15:19	401824.390	192344.020	140642.040	57510.842	3805.194	3805.194	12128.584	5137.382	26.563
x		397733.930	189730.380	139598.570	56779.637	3733.821	3733.821	12089.488	5137.208	23.090
σ		3645.731	2372.477	932.571	650.842	85.180	85.180	34.581	35.690	3.658
%RSD		0.917	1.250	0.668	1.146	2.281	2.281	0.286	0.695	15.843

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:13:03	65702.304	116131.050	124723.340	72766.101	189851.640	4.688	124674.480	7500.406	363254.140
2	19:14:11	65998.979	117673.280	126365.810	73672.290	194127.280	0.000	128062.060	7753.666	365900.090
3	19:15:19	67235.977	119286.580	127764.100	74203.152	196370.120	3.125	129709.640	7617.656	372598.040
x		66312.420	117696.970	126284.410	73547.181	193449.680	2.604	127482.060	7623.909	367250.760
σ		813.463	1577.897	1522.011	726.649	3311.646	2.387	2567.198	126.746	4816.151
%RSD		1.227	1.341	1.205	0.988	1.712	91.652	2.014	1.662	1.311

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:13:03	5666.749	5666.749	355112.620	89564.259	240820.660	343446.600	319420.610	568638.590	349982.060
2	19:14:11	5840.256	5840.256	359405.490	89985.645	242609.930	345866.440	319554.820	567868.210	357505.580
3	19:15:19	5930.918	5930.918	363302.220	91386.684	247622.970	352952.240	325209.990	576757.670	357254.090
x		5812.641	5812.641	359273.440	90312.196	243684.520	347421.760	321395.140	571088.150	354913.910
σ		134.232	134.232	4096.399	954.088	3526.178	4940.000	3304.441	4925.027	4272.958
%RSD		2.309	2.309	1.140	1.056	1.447	1.422	1.028	0.862	1.204

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:13:03	378338.170	757791.900	1830981.600	604809.280	577201.630	1362153.100	348213.050	3563439.900
2	19:14:11	388378.850	768898.340	1831993.600	614679.970	585343.380	1352759.400	353850.620	3590041.800
3	19:15:19	389075.550	778324.730	1871615.500	620395.830	586096.780	1388361.200	359424.720	3629123.900
x		385264.190	768338.320	1844863.600	613295.020	582880.600	1367757.900	353829.460	3594201.900
σ		6008.216	10277.865	23173.394	7885.029	4932.536	18450.831	5605.865	33039.026
%RSD		1.560	1.338	1.256	1.286	0.846	1.349	1.584	0.919

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:20:56	15046.983	22.917	137.501	290.628	125298.650	13909.894	1840.744	2259.554	3064.391
2	19:22:04	15089.215	22.396	92.188	321.879	116293.300	9501.596	1356.314	1506.329	2311.124
3	19:23:13	14738.849	18.229	87.500	260.940	112336.830	8710.467	1184.424	1504.767	2134.535
x		14958.349	21.181	105.730	291.149	117976.260	10707.319	1460.494	1756.883	2503.350
σ		191.262	2.569	27.614	30.473	6642.778	2801.577	340.336	435.326	493.833
%RSD		1.279	12.130	26.118	10.466	5.631	26.165	23.303	24.778	19.727

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:20:56	518.759	987.534	13825.437	65141.934	93476.704	65.625	1015.661	49736.429	18.750
2	19:22:04	553.136	893.778	13730.032	66215.603	89158.609	45.313	771.896	50584.713	21.875
3	19:23:13	603.138	871.902	13839.513	67502.856	87430.791	42.188	715.643	49523.191	9.375
x		558.344	917.738	13798.327	66286.798	90022.035	51.042	834.400	49948.111	16.667
σ		42.430	61.427	59.562	1182.070	3114.064	12.726	159.477	561.528	6.505
%RSD		7.599	6.693	0.432	1.783	3.459	24.932	19.113	1.124	39.031

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:20:56	5896.529	410.943	1843.869	3098.774	878.152	40839.542	1726.667	307.816	65.625
2	19:22:04	5679.254	321.879	1823.554	2870.601	610.951	36943.018	1698.539	257.815	51.563
3	19:23:13	5687.069	348.442	1768.860	2701.818	584.387	35982.760	1659.471	215.627	51.563
x		5754.284	360.421	1812.094	2890.398	691.163	37921.773	1694.892	260.419	56.250
σ		123.250	45.725	38.796	199.217	162.481	2572.072	33.746	46.150	8.119
%RSD		2.142	12.687	2.141	6.892	23.508	6.783	1.991	17.721	14.434

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:20:56	439.069	220.314	150.001	103.646	15.625	15.625	127.605	27.604	16.667
2	19:22:04	279.690	134.376	123.438	73.438	10.938	10.938	115.625	15.104	16.667
3	19:23:13	298.441	112.500	96.875	65.104	14.063	14.063	118.750	16.146	14.583
x		339.067	155.730	123.438	80.729	13.542	13.542	120.660	19.618	15.972
σ		87.111	56.991	26.563	20.279	2.387	2.387	6.214	6.936	1.203
%RSD		25.691	36.596	21.519	25.120	17.625	17.625	5.150	35.354	7.531

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:20:56	109.375	179.689	195.314	137.501	318.754	1.563	135210.290	90.625	400.006
2	19:22:04	71.875	142.188	135.938	90.625	195.314	1.563	134827.000	115.625	273.440
3	19:23:13	73.438	115.625	123.438	59.375	153.126	1.563	134145.630	96.875	193.751
x		84.896	145.834	151.563	95.834	222.398	1.563	134727.640	101.042	289.066
σ		21.214	32.187	38.401	39.322	86.071	0.000	539.237	13.011	104.011
%RSD		24.988	22.071	25.337	41.032	38.702	0.000	0.400	12.876	35.982

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:20:56	3.125	3.125	406.256	87.500	403.131	589.075	278.128	475.008	359421.510
2	19:22:04	6.250	6.250	234.377	54.688	315.628	475.008	206.251	318.754	362416.070
3	19:23:13	1.563	1.563	195.314	46.875	242.190	379.693	184.376	318.754	360169.690
x		3.646	3.646	278.649	63.021	320.316	481.258	222.918	370.838	360669.090
σ		2.387	2.387	112.224	21.557	80.573	104.831	49.048	90.213	1558.491
%RSD		65.465	65.465	40.274	34.205	25.154	21.783	22.003	24.327	0.432

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:20:56	388287.350	971.908	2201.732	615.638	526.572	1325.061	366853.770	2829.968
2	19:22:04	391120.900	504.696	1182.862	420.319	348.442	920.342	369215.010	2043.896
3	19:23:13	388345.140	432.819	1004.723	335.941	362.505	790.647	364420.800	1854.808
x		389251.130	636.475	1463.106	457.299	412.506	1012.017	366829.860	2242.891
σ		1619.530	292.709	645.841	143.469	99.034	278.752	2397.194	517.140
%RSD		0.416	45.989	44.142	31.373	24.008	27.544	0.653	23.057

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:28:49	14643.439	22.917	13509.510	1829.805	107072840.000	10073011.000	1354297.600	1591231.500	3577.010
2	19:29:58	14651.259	11.979	13240.508	1975.137	107148060.000	10068974.000	1353680.200	1611000.300	2126.721
3	19:31:05	14677.849	6.250	13018.429	2104.843	104779090.000	9890871.800	1333205.100	1573077.600	1603.215
x		14657.516	13.715	13256.149	1969.928	106333330.000	10010952.000	1347061.000	1591769.800	2435.649
σ		18.038	8.468	245.914	137.593	1346536.500	104012.220	12003.497	18967.048	1022.519
%RSD		0.123	61.741	1.855	6.985	1.266	1.039	0.891	1.192	41.981

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:28:49	1320865.800	785.959	218072.150	586926.710	2235224.200	124691.820	2175497.200	48278.315	167.188
2	19:29:58	1337691.000	784.397	220594.810	602971.490	2245891.500	127617.480	2201192.100	48215.604	114.063
3	19:31:05	1311786.800	693.767	214384.140	600749.500	2198977.100	124433.330	2139874.100	48596.579	153.126
x		1323447.800	754.708	217683.700	596882.570	2226697.600	125580.880	2172187.800	48363.499	144.792
σ		13143.719	52.782	3123.504	8693.307	24592.055	1768.483	30792.658	204.274	27.526
%RSD		0.993	6.994	1.435	1.456	1.104	1.408	1.418	0.422	19.010

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:28:49	80267.054	100873.640	25129.896	5865.266	1693.850	45240.271	14463.568	528.135	345.317
2	19:29:58	81211.431	103062.620	25231.638	5530.758	1415.695	37710.645	14433.851	404.693	306.253
3	19:31:05	81409.428	99662.055	25331.815	5193.131	1281.308	35423.552	14083.501	285.940	298.441
x		80962.638	101199.440	25231.116	5529.718	1463.618	39458.156	14326.973	406.256	316.670
σ		610.474	1723.533	100.960	336.069	210.405	5136.374	211.376	121.105	25.114
%RSD		0.754	1.703	0.400	6.078	14.376	13.017	1.475	29.810	7.931

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:28:49	867.214	395.318	564.074	1636.031	228.127	228.127	351.046	152.605	28.646
2	19:29:58	639.077	365.630	521.885	1655.825	262.502	262.502	330.212	170.314	23.438
3	19:31:05	589.075	310.941	485.946	1690.204	265.627	265.627	348.442	157.813	18.229
x		698.455	357.296	523.968	1660.687	252.086	252.086	343.233	160.244	23.438
σ		148.272	42.801	39.106	27.412	20.808	20.808	11.352	9.101	5.208
%RSD		21.229	11.979	7.463	1.651	8.254	8.254	3.307	5.679	22.222

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:28:49	239.065	410.943	442.194	237.502	668.766	4.688	117917.470	98.438	150.001
2	19:29:58	187.501	370.317	415.631	228.127	584.387	1.563	118235.710	114.063	67.188
3	19:31:05	171.876	309.378	376.567	229.689	515.634	1.563	120406.860	106.250	35.938
x		199.481	363.546	411.464	231.773	589.596	2.604	118853.350	106.250	84.375
σ		35.160	51.120	33.011	5.023	76.698	1.804	1354.757	7.813	58.942
%RSD		17.626	14.061	8.023	2.167	13.009	69.282	1.140	7.353	69.857

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:28:49	9.375	9.375	153.126	48.438	246.877	268.753	4485.079	7888.115	334204.670
2	19:29:58	1.563	1.563	68.750	20.313	157.813	182.814	4397.552	7888.115	336979.670
3	19:31:05	1.563	1.563	68.750	15.625	132.813	146.876	4222.499	7484.773	344273.970
x		4.167	4.167	96.875	28.125	179.168	199.481	4368.377	7753.667	338486.100
σ		4.511	4.511	48.714	17.747	59.955	62.625	133.699	232.870	5200.932
%RSD		108.253	108.253	50.286	63.099	33.463	31.394	3.061	3.003	1.537

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:28:49	360831.390	573.449	1356.314	610.951	601.575	1275.057	325038.980	55855.858
2	19:29:58	369673.510	235.939	532.822	371.880	328.129	775.021	330905.760	55430.769
3	19:31:05	375975.440	142.188	351.567	278.128	225.002	593.762	338489.750	55753.898
x		368826.780	317.192	746.901	420.319	384.902	881.280	331478.160	55680.175
σ		7607.449	226.821	535.492	171.617	194.600	352.858	6743.627	221.926
%RSD		2.063	71.509	71.695	40.830	50.558	40.039	2.034	0.399

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:36:43	13775.388	6.250	10399.096	1392.255	97010446.000	11032786.000	1487331.400	1763962.400	1387.567
2	19:37:51	14427.594	4.688	10774.374	1486.015	98002593.000	11147609.000	1507351.800	1785816.800	1310.998
3	19:38:59	14573.054	7.292	11220.029	1482.890	99943371.000	11458119.000	1547338.500	1829008.000	1486.015
x		14258.679	6.076	10797.833	1453.720	98318803.000	11212838.000	1514007.200	1792929.100	1394.860
σ		424.814	1.311	410.969	53.253	1491812.100	220041.130	30552.118	33100.884	87.736
%RSD		2.979	21.571	3.806	3.663	1.517	1.962	2.018	1.846	6.290

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:36:43	1016396.300	714.080	221707.150	506889.150	2256426.700	117218.000	2025596.900	47428.601	81.250
2	19:37:51	1031786.800	631.264	226033.530	520756.010	2295020.000	119822.280	2048629.800	48159.164	76.563
3	19:38:59	1072432.000	640.639	233707.090	536510.710	2365294.600	123188.230	2098129.300	48303.400	101.563
x		1040205.000	661.995	227149.260	521385.290	2305580.400	120076.170	2057452.000	47963.722	86.459
σ		28950.788	45.351	6077.279	14820.808	55196.917	2993.203	37062.250	469.006	13.289
%RSD		2.783	6.851	2.675	2.843	2.394	2.493	1.801	0.978	15.370

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:36:43	60978.303	1670.410	11920.596	2361.133	614.076	37646.414	11909.650	276.565	275.003
2	19:37:51	63037.210	1670.410	12751.001	2397.076	567.199	37397.323	11817.386	275.003	301.566
3	19:38:59	65741.546	1737.606	13109.137	2492.405	537.510	38650.652	12724.414	298.441	323.441
x		63252.353	1692.809	12593.578	2416.871	572.928	37898.130	12150.483	283.336	300.003
σ		2388.899	38.795	609.708	67.838	38.603	663.498	499.175	13.104	24.257
%RSD		3.777	2.292	4.841	2.807	6.738	1.751	4.108	4.625	8.086

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:36:43	1209.426	662.515	2126.721	1367.774	240.627	240.627	407.818	186.980	22.396
2	19:37:51	1182.862	623.451	2028.269	1350.585	270.315	270.315	445.840	186.460	23.438
3	19:38:59	1293.809	651.577	2123.595	1331.833	260.940	260.940	444.799	189.064	19.271
x		1228.699	645.848	2092.862	1350.064	257.294	257.294	432.819	187.501	21.701
σ		57.930	20.153	55.961	17.976	15.176	15.176	21.658	1.378	2.168
%RSD		4.715	3.120	2.674	1.332	5.898	5.898	5.004	0.735	9.992

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:36:43	253.127	435.944	471.883	254.690	676.579	3.125	119716.720	75.000	54.688
2	19:37:51	237.502	442.194	468.758	267.190	726.581	4.688	122439.650	107.813	43.750
3	19:38:59	279.690	421.881	425.006	285.940	731.269	3.125	120485.640	85.938	42.188
x		256.773	433.340	455.216	269.273	711.476	3.646	120880.670	89.584	46.875
σ		21.329	10.404	26.209	15.729	30.313	0.902	1403.790	16.707	6.811
%RSD		8.307	2.401	5.757	5.841	4.261	24.744	1.161	18.650	14.530

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:36:43	4.688	4.688	28.125	21.875	103.125	96.875	4541.347	7964.720	343420.990
2	19:37:51	1.563	1.563	40.625	18.750	103.125	98.438	4725.782	8407.161	350361.500
3	19:38:59	4.688	4.688	29.688	18.750	125.001	75.000	4596.052	8394.653	348581.240
x		3.646	3.646	32.813	19.792	110.417	90.104	4621.060	8255.511	347454.580
σ		1.804	1.804	6.811	1.804	12.630	13.104	94.727	251.910	3604.816
%RSD		49.487	49.487	20.757	9.116	11.438	14.543	2.050	3.051	1.037

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:36:43	375471.830	162.501	439.069	493.759	429.694	996.910	338555.340	79310.169
2	19:37:51	381161.760	85.938	245.315	431.257	387.505	968.783	342744.080	80488.608
3	19:38:59	381060.680	81.250	278.128	517.197	395.318	978.158	340515.160	80760.448
x		379231.420	109.896	320.837	480.737	404.172	981.284	340604.860	80186.408
σ		3256.294	45.617	103.698	44.425	22.445	14.322	2095.815	770.922
%RSD		0.859	41.509	32.321	9.241	5.553	1.459	0.615	0.961

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:44:37	14912.467	1.563	714.080	457.820	4538592.200	515586.740	67559.373	80468.180	482.821
2	19:45:45	14422.902	0.521	704.705	378.130	4496012.700	508506.890	66529.556	79493.999	510.947
3	19:46:53	14551.157	0.521	664.078	409.381	4464164.100	504983.640	66471.475	79197.044	515.634
x		14628.842	0.868	694.288	415.110	4499589.600	509692.420	66853.468	79719.741	503.134
σ		253.859	0.601	26.579	40.153	37342.739	5400.051	612.021	664.956	17.747
%RSD		1.735	69.282	3.828	9.673	0.830	1.059	0.915	0.834	3.527

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:44:37	45679.164	698.455	23146.862	94407.797	184363.270	5293.168	87584.856	49836.778	4.688
2	19:45:45	45741.864	778.146	23262.675	92441.878	182229.900	5110.289	86597.615	49485.561	9.375
3	19:46:53	45118.010	764.083	23124.952	91111.497	181761.490	5244.713	86957.604	48593.443	6.250
x		45513.013	746.895	23178.163	92653.724	182784.890	5216.057	87046.691	49305.261	6.771
σ		343.516	42.535	74.005	1658.330	1386.835	94.747	499.614	640.977	2.387
%RSD		0.755	5.695	0.319	1.790	0.759	1.816	0.574	1.300	35.251

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:44:37	11784.546	365.630	3669.221	2264.242	148.438	27662.694	1823.554	25.000	31.250
2	19:45:45	11202.828	304.691	3437.914	2240.801	151.563	27208.699	1700.101	14.063	28.125
3	19:46:53	11130.897	325.004	3255.058	2215.797	157.813	27138.253	1826.679	12.500	31.250
x		11372.757	331.775	3454.064	2240.280	152.605	27336.549	1783.445	17.188	30.208
σ		358.429	31.029	207.553	24.227	4.774	284.638	72.195	6.811	1.804
%RSD		3.152	9.352	6.009	1.081	3.128	1.041	4.048	39.626	5.973

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:44:37	85.938	43.750	159.376	152.084	53.125	53.125	125.001	20.313	16.146
2	19:45:45	92.188	50.000	117.188	144.272	42.188	42.188	133.334	22.396	27.604
3	19:46:53	81.250	53.125	110.938	148.959	34.375	34.375	132.813	20.313	15.625
x		86.459	48.958	129.167	148.438	43.229	43.229	130.383	21.007	19.792
σ		5.487	4.774	26.347	3.932	9.418	9.418	4.668	1.203	6.771
%RSD		6.347	9.750	20.398	2.649	21.787	21.787	3.580	5.726	34.211

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:44:37	26.563	26.563	32.813	26.563	34.375	3.125	133778.150	100.000	1.563
2	19:45:45	20.313	25.000	39.063	20.313	40.625	3.125	132748.300	90.625	3.125
3	19:46:53	20.313	25.000	29.688	32.813	45.313	6.250	133073.170	93.750	3.125
x		22.396	25.521	33.854	26.563	40.104	4.167	133199.870	94.792	2.604
σ		3.608	0.902	4.774	6.250	5.487	1.804	526.487	4.774	0.902
%RSD		16.112	3.535	14.100	23.529	13.683	43.301	0.395	5.036	34.641

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:44:37	0.000	0.000	10.938	1.563	65.625	42.188	204.689	337.504	357222.050
2	19:45:45	0.000	0.000	3.125	4.688	45.313	29.688	190.626	378.130	356864.850
3	19:46:53	0.000	0.000	7.813	0.000	78.125	37.500	175.001	365.630	353280.520
x		0.000	0.000	7.292	2.083	63.021	36.458	190.105	360.421	355789.140
σ		0.000	0.000	3.932	2.387	16.561	6.315	14.851	20.808	2179.858
%RSD		0.000	0.000	53.927	114.564	26.278	17.321	7.812	5.773	0.613

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:44:37	386800.950	15.625	53.125	53.125	42.188	106.250	363989.700	3306.633
2	19:45:45	384818.800	26.563	39.063	46.875	40.625	90.625	363683.620	3297.256
3	19:46:53	385183.110	25.000	37.500	56.250	51.563	110.938	362734.950	3131.593
x		385600.950	22.396	43.229	52.083	44.792	102.605	363469.420	3245.160
σ		1055.073	5.916	8.606	4.774	5.916	10.636	654.226	98.464
%RSD		0.274	26.414	19.907	9.165	13.207	10.366	0.180	3.034

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	19:52:31	14329.058	2.604	828.149	309.378	7560307.800	882440.640	114675.610	138445.740	600.013
2	19:53:39	14366.595	1.042	857.838	340.629	7516889.700	867192.910	112768.330	135790.750	612.513
3	19:54:47	14458.876	1.042	812.523	307.816	7590356.800	868945.550	114582.690	137398.200	542.198
x		14384.843	1.563	832.837	319.274	7555851.400	872859.700	114008.880	137211.570	584.908
σ		66.805	0.902	23.018	18.510	36935.739	8343.484	1075.347	1337.298	37.512
%RSD		0.464	57.735	2.764	5.798	0.489	0.956	0.943	0.975	6.413

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	19:52:31	62125.417	743.769	27352.723	91765.664	186069.550	11068.349	184057.800	48787.854	4.688
2	19:53:39	61720.542	809.398	26472.943	90447.925	185206.890	10865.068	183706.450	49123.376	4.688
3	19:54:47	61833.530	737.519	26502.686	91193.266	183755.510	11276.324	182994.270	49226.857	12.500
x		61893.163	763.562	26776.118	91135.619	185010.650	11069.913	183586.170	49046.029	7.292
σ		208.921	39.818	499.577	660.758	1169.434	205.632	541.872	229.494	4.511
%RSD		0.338	5.215	1.866	0.725	0.632	1.858	0.295	0.468	61.859

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	19:52:31	9945.648	282.815	2967.496	2337.691	159.376	27097.550	2348.631	17.188	64.063
2	19:53:39	9878.414	292.190	2819.028	2248.615	171.876	26685.839	2281.432	26.563	45.313
3	19:54:47	9720.494	278.128	2901.857	2245.489	140.626	26631.049	2339.254	26.563	45.313
x		9848.185	284.378	2896.127	2277.265	157.293	26804.813	2323.106	23.438	51.563
σ		115.581	7.160	74.399	52.354	15.729	254.994	36.393	5.413	10.825
%RSD		1.174	2.518	2.569	2.299	10.000	0.951	1.567	23.094	20.995

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	19:52:31	118.750	31.250	406.256	139.584	39.063	39.063	128.126	19.792	17.708
2	19:53:39	95.313	39.063	373.442	130.730	35.938	35.938	117.188	22.917	22.396
3	19:54:47	92.188	50.000	410.943	129.167	25.000	25.000	121.876	22.396	13.542
x		102.084	40.104	396.881	133.160	33.333	33.333	122.396	21.701	17.882
σ		14.518	9.418	20.433	5.618	7.384	7.384	5.487	1.674	4.430
%RSD		14.222	23.485	5.148	4.219	22.152	22.152	4.483	7.715	24.772

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	19:52:31	28.125	18.750	31.250	31.250	40.625	1.563	128699.000	98.438	14.063
2	19:53:39	17.188	18.750	10.938	23.438	37.500	4.688	132101.720	107.813	9.375
3	19:54:47	18.750	25.000	29.688	18.750	39.063	3.125	131474.090	90.625	6.250
x		21.354	20.833	23.958	24.479	39.063	3.125	130758.270	98.959	9.896
σ		5.916	3.608	11.303	6.315	1.563	1.563	1810.783	8.606	3.932
%RSD		27.702	17.321	47.179	25.797	4.000	50.000	1.385	8.696	39.736

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	19:52:31	0.000	0.000	9.375	0.000	57.813	23.438	131.251	298.441	353163.620
2	19:53:39	0.000	0.000	10.938	0.000	59.375	29.688	167.188	279.690	360858.630
3	19:54:47	3.125	3.125	10.938	1.563	60.938	31.250	160.938	309.378	361435.440
x		1.042	1.042	10.417	0.521	59.375	28.125	153.126	295.836	358485.900
σ		1.804	1.804	0.902	0.902	1.563	4.134	19.201	15.014	4618.240
%RSD		173.205	173.205	8.660	173.205	2.632	14.699	12.539	5.075	1.288

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	19:52:31	382946.030	32.813	89.063	148.438	151.563	320.316	357718.620	3003.441
2	19:53:39	388436.640	18.750	78.125	151.563	118.750	301.566	368865.530	3076.894
3	19:54:47	388183.000	31.250	60.938	168.751	121.876	334.379	367156.720	3158.162
x		386521.890	27.604	76.042	156.251	130.730	318.754	364580.290	3079.499
σ		3099.379	7.708	14.178	10.938	18.110	16.462	6003.487	77.393
%RSD		0.802	27.922	18.645	7.000	13.853	5.165	1.647	2.513

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	20:00:25	15078.266	2.083	92.188	298.441	118007.270	2639.306	328.129	440.632	531.260
2	20:01:33	14261.803	3.125	110.938	304.691	116748.550	2534.600	328.129	429.694	493.759
3	20:02:41	14652.823	1.042	90.625	268.753	115608.090	2723.697	331.254	459.382	428.131
x		14664.297	2.083	97.917	290.628	116787.970	2632.534	329.170	443.236	484.383
σ		408.352	1.042	11.303	19.201	1200.078	94.730	1.804	15.015	52.200
%RSD		2.785	50.000	11.544	6.607	1.028	3.598	0.548	3.387	10.776

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	20:00:25	637.514	804.710	14405.697	69974.079	84507.026	29.688	645.327	49645.489	6.250
2	20:01:33	662.515	779.709	14446.363	68237.585	84964.414	18.750	635.952	49209.610	14.063
3	20:02:41	590.637	851.588	14316.545	69481.057	86555.171	18.750	585.950	48515.053	0.000
x		630.222	812.002	14389.535	69230.907	85342.204	22.396	622.409	49123.384	6.771
σ		36.490	36.490	66.401	894.866	1075.067	6.315	31.921	570.130	7.046
%RSD		5.790	4.494	0.461	1.293	1.260	28.196	5.129	1.161	104.060

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	20:00:25	6459.272	196.876	2150.162	2209.546	129.688	26806.377	1332.875	9.375	17.188
2	20:01:33	6377.986	231.252	2207.983	2201.732	118.750	26836.120	1331.312	14.063	23.438
3	20:02:41	6105.992	206.251	2042.334	2197.044	139.063	26546.517	1292.246	10.938	6.250
x		6314.417	211.460	2133.493	2202.774	129.167	26729.671	1318.811	11.458	15.625
σ		185.020	17.770	84.073	6.316	10.166	159.312	23.019	2.387	8.700
%RSD		2.930	8.403	3.941	0.287	7.871	0.596	1.745	20.830	55.678

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	20:00:25	40.625	21.875	42.188	66.146	17.188	17.188	120.313	15.625	17.708
2	20:01:33	48.438	14.063	37.500	60.938	37.500	37.500	106.250	14.063	15.625
3	20:02:41	39.063	12.500	48.438	72.396	23.438	23.438	113.021	13.542	22.396
x		42.708	16.146	42.708	66.493	26.042	26.042	113.195	14.410	18.576
σ		5.023	5.023	5.487	5.737	10.404	10.404	7.033	1.084	3.468
%RSD		11.761	31.109	12.848	8.628	39.950	39.950	6.213	7.524	18.668

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	20:00:25	26.563	3.125	3.125	9.375	9.375	0.000	134443.730	129.688	15.625
2	20:01:33	4.688	10.938	15.625	9.375	12.500	3.125	133931.140	90.625	7.813
3	20:02:41	4.688	1.563	6.250	4.688	4.688	1.563	132104.870	93.750	6.250
x		11.979	5.208	8.333	7.813	8.854	1.563	133493.250	104.688	9.896
σ		12.630	5.023	6.505	2.706	3.932	1.563	1229.379	21.707	5.023
%RSD		105.429	96.437	78.062	34.641	44.411	100.000	0.921	20.735	50.756

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	20:00:25	1.563	1.563	9.375	4.688	53.125	14.063	4.688	9.375	356158.490
2	20:01:33	0.000	0.000	17.188	3.125	43.750	29.688	4.688	4.688	356124.850
3	20:02:41	0.000	0.000	3.125	4.688	50.000	17.188	3.125	14.063	349741.910
x		0.521	0.521	9.896	4.167	48.958	20.313	4.167	9.375	354008.410
σ		0.902	0.902	7.046	0.902	4.774	8.268	0.902	4.688	3694.942
%RSD		173.205	173.205	71.199	21.651	9.750	40.704	21.651	50.000	1.044

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	20:00:25	385207.180	39.063	101.563	17.188	40.625	71.875	364967.300	40.625
2	20:01:33	387194.210	25.000	78.125	26.563	28.125	50.000	364831.070	51.563
3	20:02:41	380609.830	29.688	60.938	28.125	32.813	59.375	361039.680	48.438
x		384337.070	31.250	80.209	23.958	33.854	60.417	363612.690	46.875
σ		3377.325	7.160	20.393	5.916	6.315	10.975	2229.327	5.634
%RSD		0.879	22.913	25.424	24.691	18.653	18.165	0.613	12.019

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Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	20:08:20	13345.293	26230.309	5291.605	390.630	19055689.000	13169008.000	1776299.800	2089946.800	2935580.800
2	20:09:29	13884.869	26206.307	5147.802	439.069	19040890.000	13107193.000	1762820.300	2119813.200	2968300.200
3	20:10:37	13798.849	26541.299	5311.925	418.756	19353427.000	13314428.000	1785240.600	2146764.400	3024209.300
x		13676.337	26325.972	5250.444	416.152	19150002.000	13196876.000	1774786.900	2118841.500	2976030.100
σ		289.901	186.865	89.469	24.324	176326.380	106391.250	11286.460	28421.282	44817.027
%RSD		2.120	0.710	1.704	5.845	0.921	0.806	0.636	1.341	1.506

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	20:08:20	30026.933	147041.930	13048.144	63098.417	8296234.200	42962.885	627435.690	45417.394	20517.849
2	20:09:29	29389.452	150215.320	12821.376	63578.665	8418211.300	42399.354	631367.420	47093.119	20242.456
3	20:10:37	29284.083	149943.740	12968.384	64661.634	8510819.400	43319.404	641870.270	47654.350	20536.626
x		29566.822	149067.000	12945.968	63779.572	8408421.600	42893.881	633557.790	46721.621	20432.310
σ		401.935	1759.005	115.034	800.740	107627.030	463.890	7462.410	1163.831	164.686
%RSD		1.359	1.180	0.889	1.255	1.280	1.081	1.178	2.491	0.806

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	20:08:20	316947.690	294429.720	37022.912	1101756.300	831584.750	18607567.000	466477.700	359363.840	77594.536
2	20:09:29	315038.970	294712.020	37662.080	1108426.700	845363.930	18638257.000	463376.140	360371.560	76680.244
3	20:10:37	320131.580	298294.610	38260.542	1119405.400	851626.180	18847907.000	470019.700	362552.270	78771.262
x		317372.750	295812.120	37648.511	1109862.800	842858.290	18697910.000	466624.520	360762.560	77682.014
σ		2572.772	2154.530	618.926	8911.783	10252.971	130804.330	3324.212	1629.782	1048.250
%RSD		0.811	0.728	1.644	0.803	1.216	0.700	0.712	0.452	1.349

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	20:08:20	391408.300	187644.640	138895.390	56222.918	3759.870	3759.870	12004.000	5042.036	20.833
2	20:09:29	387773.670	188097.410	140148.160	56143.440	3630.149	3630.149	12067.595	5075.902	18.750
3	20:10:37	397997.590	189479.560	140796.680	57208.591	3811.446	3811.446	12044.138	5155.097	19.792
x		392393.190	188407.200	139946.740	56524.983	3733.821	3733.821	12038.577	5091.011	19.792
σ		5182.628	955.882	966.515	593.354	93.413	93.413	32.160	58.025	1.042
%RSD		1.321	0.507	0.691	1.050	2.502	2.502	0.267	1.140	5.263

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	20:08:20	65220.416	115866.420	125535.090	73651.873	194501.060	3.125	121520.920	7864.664	363220.490
2	20:09:29	65670.910	116932.860	127111.440	73813.642	194117.770	4.688	126193.980	7914.692	362002.660
3	20:10:37	66281.533	118253.040	127407.810	73758.672	197680.190	3.125	127502.400	7753.666	363818.230
x		65724.286	117017.440	126684.780	73741.395	195433.010	3.646	125072.430	7844.341	363013.790
σ		532.568	1195.558	1006.627	82.257	1955.530	0.902	3144.509	82.414	925.266
%RSD		0.810	1.022	0.795	0.112	1.001	24.744	2.514	1.051	0.255

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	20:08:20	5802.741	5802.741	355818.930	90784.425	245157.560	348626.060	324433.260	577764.330	340795.160
2	20:09:29	5762.099	5762.099	358271.280	90221.500	244739.540	349985.260	323893.080	573624.280	354199.740
3	20:10:37	5918.413	5918.413	360297.860	92080.178	246360.800	351003.540	327036.940	580709.920	354042.800
x		5827.751	5827.751	358129.360	91028.701	245419.300	349871.620	325121.090	577366.170	349679.230
σ		81.103	81.103	2242.838	953.113	841.728	1192.806	1681.011	3559.559	7694.235
%RSD		1.392	1.392	0.626	1.047	0.343	0.341	0.517	0.617	2.200

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	20:08:20	371908.540	775424.800	1857755.200	621363.100	589441.190	1382186.200	343606.630	3667611.700
2	20:09:29	386425.370	785633.980	1866140.400	622482.140	591277.280	1392988.600	354049.200	3665803.200
3	20:10:37	388285.740	779533.340	1877750.900	626428.850	592628.450	1398538.900	356204.940	3683349.700
x		382206.550	780197.380	1867215.500	623424.700	591115.640	1391237.900	351286.920	3672254.800
σ		8966.715	5136.883	10041.153	2661.161	1599.765	8315.779	6738.101	9650.871
%RSD		2.346	0.658	0.538	0.427	0.271	0.598	1.918	0.263

CCB 05/05/2011 08:15:08 PM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	20:16:16	14720.080	13.021	157.813	317.191	118024.600	9571.956	1259.431	1606.340	2894.043
2	20:17:25	14447.927	26.042	110.938	325.004	113077.010	8239.876	1120.356	1254.743	2797.149
3	20:18:33	14713.823	20.833	110.938	293.753	111431.340	6997.026	914.092	1062.540	2536.163
x		14627.277	19.965	126.563	311.983	114177.650	8269.619	1097.960	1307.874	2742.452
σ		155.353	6.554	27.064	16.263	3431.664	1287.723	173.755	275.766	185.104
%RSD		1.062	32.825	21.383	5.213	3.006	15.572	15.825	21.085	6.750

Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	20:16:16	528.135	964.095	13570.505	66005.258	91470.027	32.813	745.332	49267.622	21.875
2	20:17:25	596.887	959.407	13715.956	67232.837	87883.557	28.125	667.203	49421.276	17.188
3	20:18:33	571.886	896.903	13878.613	65747.825	87009.481	15.625	632.827	49150.030	17.188
x		565.636	940.135	13721.692	66328.640	88787.688	25.521	681.787	49279.643	18.750
σ		34.800	37.513	154.134	793.566	2363.728	8.885	57.653	136.022	2.706
%RSD		6.152	3.990	1.123	1.196	2.662	34.814	8.456	0.276	14.434

Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	20:16:16	5987.192	375.005	1931.381	2906.546	612.513	37984.808	1676.661	257.815	46.875
2	20:17:25	5435.409	379.693	1840.744	2811.214	589.075	37286.095	1586.026	212.502	46.875
3	20:18:33	5452.603	348.442	1784.486	2803.400	453.132	35368.729	1520.393	156.251	62.500
x		5625.068	367.713	1852.204	2840.387	551.573	36879.877	1594.360	208.856	52.083
σ		313.726	16.853	74.115	57.428	86.054	1354.521	78.466	50.880	9.021
%RSD		5.577	4.583	4.001	2.022	15.602	3.673	4.921	24.361	17.321

Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	20:16:16	293.753	131.251	126.563	86.979	31.250	31.250	125.001	16.667	17.708
2	20:17:25	262.502	134.376	85.938	59.375	25.000	25.000	121.355	23.958	20.833
3	20:18:33	198.439	95.313	75.000	66.146	18.750	18.750	108.334	14.583	17.188
x		251.565	120.313	95.834	70.834	25.000	25.000	118.230	18.403	18.576
σ		48.589	21.707	27.169	14.387	6.250	6.250	8.762	4.923	1.972
%RSD		19.315	18.042	28.350	20.311	25.000	25.000	7.411	26.750	10.615

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	20:16:16	95.313	140.626	151.563	112.500	237.502	0.000	132984.860	157.813	290.628
2	20:17:25	62.500	129.688	117.188	98.438	217.189	4.688	133150.450	106.250	175.001
3	20:18:33	70.313	112.500	115.625	79.688	156.251	0.000	132918.620	85.938	143.751
x		76.042	127.605	128.126	96.875	203.647	1.563	133017.980	116.667	203.127
σ		17.140	14.178	20.313	16.462	42.284	2.706	119.411	37.053	77.373
%RSD		22.540	11.111	15.854	16.993	20.764	173.205	0.090	31.759	38.091

Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	20:16:16	3.125	3.125	253.127	60.938	300.003	490.633	228.127	351.567	353456.670
2	20:17:25	1.563	1.563	160.938	62.500	329.691	417.194	181.251	275.003	354284.620
3	20:18:33	3.125	3.125	143.751	35.938	254.690	321.879	148.438	221.877	354114.860
x		2.604	2.604	185.939	53.125	294.795	409.902	185.939	282.815	353952.050
σ		0.902	0.902	58.818	14.905	37.771	84.613	40.051	65.197	437.327
%RSD		34.641	34.641	31.633	28.057	12.813	20.642	21.540	23.053	0.124

Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U
1	20:16:16	385685.460	606.263	1359.440	417.194	407.818	917.217	364209.260	2164.226
2	20:17:25	385298.670	426.569	995.347	367.192	268.753	710.955	365020.190	1814.178
3	20:18:33	384075.760	334.379	776.584	271.878	264.065	617.201	362159.690	1543.833
x		385019.960	455.737	1043.790	352.088	313.545	748.458	363796.380	1840.746
σ		840.259	138.269	294.432	73.826	81.676	153.484	1474.268	311.049
%RSD		0.218	30.340	28.208	20.968	26.049	20.507	0.405	16.898

Performance Report

Sample details

Sample name : TUNE
Acquired at : 05/05/2011 01:18:42 PM
Report name : ISM01.2 [03/09/2010 11:16:01 AM]

Mass Calibration verification

Acquisition parameters

Sweeps : 20
Dwell : 3.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

ICP-MS (P6) ANALYSIS RUN LOG

METHOD: ISM01.2/6020/~~200.8~~ 05/05/11 PROJECT No: C1938

RUN ID: LB54898 DATE: 05 / 05 / 2011 ANALYST: SJASWAL SUPERVISOR REVIEW: [illegible]

QC/SAMPLE ID	STANDARD SOURCE	STD. REF. No. from Prep. Log	PREP DATE	EXPIRATION DATE	COMMENTS
TUNE	INORGANIC VENTURES	MP6679	04/28/2011	05/12/2011	
S0	———	MP6663	04/28/2011	05/12/2011	
S1	INORGANIC VENTURES	MP6703	05/01/2011	05/12/2011	
S2	INORGANIC VENTURES	MP6699	05/01/2011	05/12/2011	
S3	INORGANIC VENTURES	MP6698	05/01/2011	05/12/2011	
S4	INORGANIC VENTURES	MP6697	05/01/2011	05/12/2011	
S5	INORGANIC VENTURES	MP6696	05/01/2011	05/12/2011	
ICV	EPA ICV-1(0307)	MP6687	04/28/2011	05/12/2011	
ICB	———	MP6663	04/28/2011	05/12/2011	
ICSA	EPA ICSA(0803	MP6682	04/28/2011	05/12/2011	
ICSAB	EPA ICSA(0803)+ ICSB(0803)	MP6683	04/28/2011	05/12/2011	
ICSAX10	———	MP6684	04/28/2011	05/12/2011	
ICSABX10	———	MP6685	04/28/2011	05/12/2011	
CCV	INORGANIC VENTURES	MP6700	05/01/2011	05/12/2011	
CCB	———	MP6663	04/28/2011	05/12/2011	

COMMENTS	SOURCE	INTERNAL STANDARD REF. NO. FROM PREP LOG, PREPARATION DATE AND EXPIRATION DATE
INTERNAL STANDARD SOURCE	INORGANIC VENTURES	INTERNAL STANDARD USED FOR THIS RUN:MP6669
		INTERNAL STANDARD PREPARATION DATE: 05/01/2011
		INTERNAL STANDARD EXPIRATION DATE: 05/15/2011
LCSW SOURCE	INORGANIC VENTURES	
~~LCSS SOURCE~~	~~INORGANIC VENTURES~~	

ANALYSIS START TIME: 01:18Pm DATE: 05/05/11 ANALYSIS END TIME: 08:15Pm DATE: 05/05/11 05/06/11

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height	
1	TUNE	Instrument Setup	1.000	2	1	1	144	
2	S0 (S0)	Blank	1.000	1	1	1	144	
3	S1 (S)	Fully Quant Standard	1.000	1	1	2	144	
4	S2 (S)	Fully Quant Standard	1.000	1	1	3	144	
5	S3 (S)	Fully Quant Standard	1.000	1	1	4	144	
6	S4 (S)	Fully Quant Standard	1.000	1	1	5	144	
7	S5 (S)	Fully Quant Standard	1.000	1	1	6	144	
8	ICV	Unknown	1.000	1	1	7	144	
9	ICB	Unknown	1.000	1	1	8	144	
10	ICSA	Unknown	1.000	1	1	9	144	
11	ICSAB	Unknown	1.000	1	1	10	144	
12	ICSAX10	Unknown	1.000	1	1	11	144	
13	ICSABX10	Unknown	1.000	1	1	12	144	
14	CCV	Unknown	1.000	1	2	1	144	
15	CCB	Unknown	1.000	1	2	2	144	
16	ZZZZZZ	Unknown	1.000	1	2	3	144	
17	PB54902BL PBW	Unknown	1.000	1	2	4	144	
18	PB54902BS LCSW	Unknown	1.000	1	2	5	144	
19	C1938-01 MF3T98	Unknown	1.000	1	2	6	144	
20	C1938-02 MF3TB2	Unknown	1.000	1	2	7	144	
21	C1938-06 MF3TE1	Unknown	1.000	1	2	8	144	
22	C1938-07 MF3TE5	Unknown	1.000	1	2	9	144	
23	C1938-08 MF3TE7	Unknown	1.000	1	2	10	144	
24	C1938-01X25 MF3T98	Unknown	1.000	1	2	11	144	
25	C1938-02X25 MF3TB2	Unknown	1.000	1	2	12	144	
26	CCV	Unknown	1.000	1	3	1	144	
27	CCB	Unknown	1.000	1	3	2	144	
28	C1938-03 MF3TB8	Unknown	1.000	1	3	3	144	
29	C1938-04 MF3TB8D	Unknown	1.000	1	3	4	144	
30	C1938-05 MF3TB8S	Unknown	1.000	1	3	5	144	
31	C1938-03LX5 MF3TB8L	Unknown	1.000	1	3	6	144	
32	C1938-03X25 MF3TB8	Unknown	1.000	1	3	7	144	
33	C1938-04X25 MF3TB8D	Unknown	1.000	1	3	8	144	
34	C1938-05X25 MF3TB8S	Unknown	1.000	1	3	9	144	
35	C1938-03LX125 MF3TB8L	Unknown	1.000	1	3	10	144	
36	C1938-06X25 MF3TE1	Unknown	1.000	1	3	11	144	
37	C1938-07X25 MF3TE5	Unknown	1.000	1	3	12	144	
38	CCV	Unknown	1.000	1	4	1	144	
39	CCB	Unknown	1.000	1	4	2	144	
40	C1938-03A MF3TB8A	Unknown	1.000	1	4	3	144	CR = 70 PPB
41	C1938-09 MF3TE8	Unknown	1.000	1	4	4	144	
42	C1938-09X25 MF3TE8	Unknown	1.000	1	4	5	144	
43	C1938-08X25 MF3TE7	Unknown	1.000	1	4	6	144	
44	ZZZZZZ	Unknown	1.000	1	4	7	144	
45	CCV	Unknown	1.000	1	4	8	144	
46	CCB	Unknown	1.000	1	4	9	144	
47	ZZZZZZ	Unknown	1.000	1	4	10	144	
48	ZZZZZZ	Unknown	1.000	1	4	11	144	
49	ZZZZZZ	Unknown	1.000	1	4	12	144	
50	ZZZZZZ	Unknown	1.000	1	5	1	144	
51	ZZZZZZ	Unknown	1.000	1	5	2	144	
52	ZZZZZZ	Unknown	1.000	1	5	3	144	
53	ZZZZZZ	Unknown	1.000	1	5	4	144	
54	ZZZZZZ	Unknown	1.000	1	5	5	144	
55	ZZZZZZ	Unknown	1.000	1	5	6	144	
56	ZZZZZZ	Unknown	1.000	1	5	7	144	
57	CCV	Unknown	1.000	1	5	8	144	
58	CCB	Unknown	1.000	1	5	9	144	
59	IDL-1	Unknown	1.000	1	5	10	144	
60	IDL-2	Unknown	1.000	1	5	11	144	
61	IDL-3	Unknown	1.000	1	5	12	144	
62	IDL-4	Unknown	1.000	2	1	1	144	
63	IDL-5	Unknown	1.000	2	1	2	144	
64	IDL-6	Unknown	1.000	2	1	3	144	
65	IDL-7	Unknown	1.000	2	1	4	144	
66	ZZZZZZ	Unknown	1.000	2	1	5	144	
67	ZZZZZZ	Unknown	1.000	2	1	6	144	
68	ZZZZZZ	Unknown	1.000	2	1	7	144	
69	CCV	Unknown	1.000	2	1	8	144	
70	CCB	Unknown	1.000	2	1	9	144	

5/6/11

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

ICPMS-1 LOGBOOK

DATE	RUN ID	PROJECT #:	ANALYST	COMMENT
04/04/11	LB54438	C1680 (soil, water)	[illegible]	—
04/05/11	LB54438A	C1680, C1696, C1673	[illegible]	—
04/06/11	LB54438B	C1673, C1696	[illegible]	—
04/13/11	LB54561	C1795, C1777, C1775, LOD-LOQ STY	[illegible]	—
—	—	MDL STUDY (Sr, Zr, Te)	[illegible]	—
04/15/2011	LB54598	C1750, C1754, C1809	[illegible]	—
04/18/2011	LB54598R	C1750, C1809	[illegible]	—
04/18/2011	LB54649	C1774, C1906	[illegible]	—
04/19/2011	LB54715	C1806	[illegible]	—
04/21/2011	LB54671	C1772	[illegible]	—
04/22/2011	LB54717	C1798, C1822	[illegible]	—
04/25/11	LB54737A	C1980, C1921	[illegible]	—
04/28/11	LB54776	C1807	[illegible]	—
04/29/11	LB54819	C1851, C1852, C1942, C1863	[illegible]	—
04/30/11	LB54835	C1867, C1868, C1881	[illegible]	—
05/04/11	LB54881	C1863 C1855, C2013, C2024, C2048	[illegible]	—
05/05/11	LB54898	C1938, IDL STUDY	[illegible]	—

05/06/11

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP6663	04/28/2011	05/12/2011	jaswal

FROM 10.00000ml of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(~~W1097~~ M1793 4/28/11) + 1970.00000ml of DI Water(W1152) + 20.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M1828) = Final Quantity: 2000.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
870	ICPMS SPIKE SOL B	MP6666	04/28/2011	05/01/2011	jaswal

FROM 5.00000ml of SOIL/WATER SPIKE SOLN 1, 125mL(M1369) + 5.00000ml of SOIL/WATER SPIKE SOLN 4, 125mL(M1210) + 40.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP6645	04/22/2011	05/06/2011	jaswal

M1788 4/27/11

FROM 10.00000ml of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(~~AA1097~~) + 1970.00000ml of DI Water(W1152) + 20.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M1821) = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
857	ICPMS INT. STANDARD	MP6704	05/01/2011	05/15/2011	jaswal

FROM 2450.00000ml of DI Water(W1152) + 25.00000ml of 6020CLPM9 INT STD SOLN, 125mL(M1526) + 25.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2 5L)(M1828) = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1426	S5 ICPMS ISM01.2	MP6696	05/01/2011	05/12/2011	jaswal

FROM 0.10000ml of BORON 125mL 1000ug/mL(M1432) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.10000ml of MOLYBDENUM 125mL 1000ug/mL(M1661) + 0.10000ml of SILICON 125mL 1000ug/mL(M1666) + 0.10000ml of Thorium 1000 ug/ml(M1670) + 0.10000ml of TIN/HCL 125mL 1000ug/mL(M1667) + 0.10000ml of TITANIUM 125mL 1000ug/mL(M1663) + 0.10000ml of Uranium 1000 ug/ml(M1677) + 0.10000ml of ZINC 125mL 1000ug/mL(M1668) + 0.19000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1356) + 0.20000ml of Phosphorus, 125 ml, 10000 ug/ml(M1551) + 0.40000ml of BARIUM 125mL 1000ug/mL(M1659) + 0.49000ml of Iron, Fe, 125 ml, 10,000 ug/ml(M1357) + 0.99000ml of CALCIUM 125mL 10,000ug/mL(M1433) + 0.99000ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 0.99000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 0.99000ml of SODIUM 125mL 10,000ug/mL(M1669) + 5.00000ml of Calibration Standard Method 6020(M1436) + 88.76000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1427	S4 ICPMS ISM01.2	MP6697	05/01/2011	05/12/2011	jaswal

FROM 25.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) + 25.00000ml of S5 ICPMS ISM01.2(MP6696) = Final Quantity: 50.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1428	S3 ICPMS ISM01.2	MP6698	05/01/2011	05/12/2011	jaswal

FROM 12.50000ml of S5 ICPMS ISM01.2(MP6696) + 37.50000ml of ICPMS CALIB BLANK(S0/ICB/CCB) (MP6663) = Final Quantity: 50.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1429	S2 ICPMS ISM01.2	MP6699	05/01/2011	05/12/2011	jaswal

FROM 43.75000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) + 6.25000ml of S5 ICPMS ISM01.2(MP6696) = Final Quantity: 50.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1430	CCV ICPMS ISM01 2	MP6700	05/01/2011	05/12/2011	jaswal

FROM 0 25000ml of BORON 125mL 1000ug/mL(M1432) + 0.25000ml of COPPER 125mL 1000ug/mL(M1657) + 0.25000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.25000ml of MOLYBDENUM 125mL 1000ug/mL(M1661) + 0.25000ml of SILICON 125mL 1000ug/mL(M1666) + 0 25000ml of Thorium 1000 ug/ml(M1670) + 0.25000ml of TIN/HCL 125mL 1000ug/mL(M1667) + 0.25000ml of TITANIUM 125mL 1000ug/mL(M1663) + 0 25000ml of Uranium 1000 ug/ml(M1677) + 0.25000ml of ZINC 125mL 1000ug/mL(M1668) + 0.47500ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1356) + 0.50000ml of Phosphorus, 125 ml, 10000 ug/ml(M1551) + 1 00000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.22500ml of Iron, Fe, 125 ml, 10,000 ug/ml(M1357) + 1.22500ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 12.50000ml of Calibration Standard Method 6020(M1436) + 2.47500ml of CALCIUM 125mL 10,000ug/mL(M1433) + 2.47500ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 2.47500ml of SODIUM 125mL 10,000ug/mL(M1669) + 472.40000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1737	NEW 100PPM FOR-S1 ICPMS	MP6701	05/01/2011	05/12/2011	jaswal

FROM 1.00000ml of BORON 125mL 1000ug/mL(M1432) + 1.00000ml of MOLYBDENUM 125mL 1000ug/mL(M1661) + 1.00000ml of SILICON 125mL 1000ug/mL(M1666) + 1.00000ml of TIN/HCL 125mL 1000ug/mL(M1667) + 1.00000ml of TITANIUM 125mL 1000ug/mL(M1663) + 5.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 10.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1120	ICPMS ISM01.2 S1(CONC.)	MP6702	05/01/2011	05/12/2011	jaswal

FROM 0.05000ml of ARSENIC 125mL 1000ug/mL(M1673) + 0.05000ml of BERYLLIUM 125mL 1000ug/mL(M1671) + 0.05000ml of CADMIUM, 125mL 1000ug/mL(M1672) + 0.05000ml of COBALT 125mL 1000ug/mL(M1665) + 0.05000ml of LEAD 125mL 1000ug/mL(M1598) + 0.05000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.05000ml of NICKEL 125mL 1000ug/mL(M1655) + 0.05000ml of SILVER 125mL 1000ug/mL(M1675) + 0.05000ml of THALLIUM 125mL 1000ug/mL(M1676) + 0.10000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1356) + 0.10000ml of ANTIMONY HF, 125mL 1,000ug/mL(M1466) + 0.10000ml of CHROMIUM(+3) 125mL 1000ug/mL(M1662) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of ZINC 125mL 1000ug/mL(M1668) + 0.25000ml of SELENIUM 125mL 1000ug/mL(M1660) + 0.25000ml of VANADIUM 125mL 1000ug/mL(M1674) + 0.50000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.00000ml of Iron, Fe, 125 ml, 10,000 ug/ml(M1357) + 2.50000ml of CALCIUM 125mL 10,000ug/mL(M1433) + 2.50000ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 2.50000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 2.50000ml of SODIUM 125mL 10,000ug/mL(M1669) + 2.50000ml of NEW 100PPM FOR-S1 ICPMS(MP6701) + 234.55000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 250.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1130	ICPMS ISM01.2 S1	MP6703	05/01/2011	05/12/2011	jaswal

FROM 0.25000ml of ICPMS ISM01.2 S1(CONC.)(MP6702) + 49.75000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1135	MG 10PPM ILM05.4 FOR TUNE	MP6678	04/28/2011	05/12/2011	jaswal

FROM 0.10000ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 99.90000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1172	TUNE SOL 100PPB ICPMS	MP6679	04/28/2011	05/12/2011	jaswal

FROM 1.00000ml of TUNE-A,(M1518) + 1.00000ml of MG 10PPM ILM05.4 FOR TUNE(MP6678) + 98.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1174	TUNE SOL 10PPB ICPMS	MP6680	04/28/2011	05/12/2011	jaswal

FROM 0.10000ml of TUNE-A,(M1518) + 0.10000ml of MG 10PPM ILM05.4 FOR TUNE(MP6678) + 99.80000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 100.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1140	TUNE SOL 200PPB XCAL.	MP6681	04/28/2011	05/12/2011	jaswal

FROM 2.00000ml of Tune D25 Cross Cal Solution, 10 PPM(M1710) + 98.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1142	ICSA ICPMS	MP6682	04/28/2011	05/12/2011	jaswal

FROM 5.00000ml of ICSA (ICPMS) STOCK SOLN(M1441) + 45.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 50.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1143	ICSAB ICPMS	MP6683	04/28/2011	05/12/2011	jaswal

FROM 5.00000ml of ICSA (ICPMS) STOCK SOLN(M1441) + 5.00000ml of ICSB (ICPMS) STOCK SOLUTION(M1461) + 40.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1165	ICSAX10	MP6684	04/28/2011	05/12/2011	jaswal

FROM 2.50000ml of ICSA ICPMS(MP6682) + 22.50000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) =
Final Quantity: 25.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1166	ICSABX10	MP6685	04/28/2011	05/12/2011	jaswal

FROM 2.50000ml of ICSAB ICPMS(MP6683) + 22.50000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663)
= Final Quantity: 25.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1430	CCV ICPMS ISM01.2	MP6686	04/28/2011	05/01/2011	jaswal

FROM 0.25000ml of COPPER 125mL 1000ug/mL(M1657) + 0.25000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.25000ml of Thorium 1000 ug/ml(M1670) + 0.25000ml of Uranium 1000 ug/ml(M1677) + 0.25000ml of ZINC 125mL 1000ug/mL(M1668) + 0.47500ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1356) + 0 50000ml of Phosphorus, 125 ml, 10000 ug/ml(M1551) + 1.00000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.22500ml of Iron, Fe, 125 ml, 10,000 ug/ml(M1357) + 1.22500ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 12.50000ml of Calibration Standard Method 6020(M1436) + 2.47500ml of CALCIUM 125mL 10,000ug/mL(M1433) + 2.47500ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 2.47500ml of SODIUM 125mL 10,000ug/mL(M1669) + 2.50000ml of SOL.C(100PPM) ISM01.2(MP6672) + 471.90000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1575	ICV ISM01.2 MS	MP6687	04/28/2011	05/12/2011	jaswal

FROM 0.02500ml of CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti(M1360) + 1.00000ml of ICV (ICP/ICPMS) STOCK SOLN (M1580) + 48.97500ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6663) = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
864	ICPMS RINSE SOL.	MP6688	04/28/2011	05/12/2011	jaswal

FROM 1950.00000ml of DI Water(W1152) + 50.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M1828) =
Final Quantity: 2000.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
864	ICPMS RINSE SOL.	MP6689	04/28/2011	05/12/2011	jaswal

FROM 1950.00000ml of DI Water(W1152) + 50.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M1828) =
Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1120	ICPMS ISM01.2 S1(CONC.)	MP6473	04/13/2011	04/28/2011	jaswal

FROM 0.05000ml of ARSENIC 125mL 1000ug/mL(M1673) + 0.05000ml of BERYLLIUM 125mL 1000ug/mL(M1671) + 0.05000ml of CADMIUM, 125mL 1000ug/mL(M1672) + 0.05000ml of COBALT 125mL 1000ug/mL(M1665) + 0.05000ml of LEAD 125mL 1000ug/mL(M1598) + 0.05000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.05000ml of NICKEL 125mL 1000ug/mL(M1655) + 0.05000ml of SILVER 125mL 1000ug/mL(M1675) + 0.05000ml of THALLIUM 125mL 1000ug/mL(M1676) + 0.10000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1356) + 0.10000ml of ANTIMONY HF, 125mL 1,000ug/mL(M1466) + 0.10000ml of CHROMIUM(+3) 125mL 1000ug/mL(M1662) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of ZINC 125mL 1000ug/mL(M1668) + 0.25000ml of CHEM-CLP-4/.25L(M1321) + 0.25000ml of SELENIUM 125mL 1000ug/mL(M1660) + 0.25000ml of VANADIUM 125mL 1000ug/mL(M1674) + 0.50000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.00000ml of Iron, Fe, 125 ml, 10,000 ug/ml(M1357) + 2.50000ml of CALCIUM 125mL 10,000ug/mL(M1433) + 2.50000ml of MAGNESIUM 125mL 10,000ug/mL(M1363) + 2.50000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 2.50000ml of SODIUM 125mL 10,000ug/mL(M1669) + 236.80000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6465) = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
870	ICPMS SPIKE SOL.B	MP6466	04/13/2011	04/28/2011	jaswal

FROM 5.00000ml of SOIL/WATER SPIKE SOLN 1, 125mL(M1369) + 5.00000ml of SOIL/WATER SPIKE SOLN 4, 125mL(M1210) + 40.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP6465) = Final Quantity: 50.000 ml

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Testing Laboratory Certificate 683.01 · Reference Material Producer Certificate 533.02

M1321
rec. date: 02/24/10

2.0 DESCRIPTION OF CRM: Custom Solution

Catalog No.: CHEM-CLP-4

Lot Number: D2-MEB328101

Matrix: 0.7% HF(v/v), 3% HNO3(v/v)

1,000.00 µg/mL ea:
B, Mo, Si, Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	999 ± 4 µg/mL	Molybdenum, Mo	999 ± 4 µg/mL	Silicon, Si	1,001 ± 4 µg/mL
Tin, Sn	1,000 ± 3 µg/mL	Titanium, Ti	1,003 ± 3 µg/mL		

Certified Density: 1.028 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.

$$\text{Certified Value } (\bar{X}) = \frac{\Sigma x_i}{n}$$

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

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

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ACCREDITED Testing Laboratory Certificate 853.01 — ACCREDITED Reference Material Producer Certificate 853.02

M1657

2.0 DESCRIPTION OF CRM

Catalog Number:	1000 µg/mL Copper in 3% (v/v) HNO3
Lot Number:	CGCU1-1, CGCU1-2, and CGCU1-5
Starting Material:	D2-CU02121
Starting Material Purity (%):	Cu shot
Starting Material Lot No:	99.999158
Matrix:	1544
	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 3 µg/mL (avg. of 2 methods)

Certified Density: 1.015 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.

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

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

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

Σs_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 Method #1 1,000 ± 4 µg/mL
ICP Assay NIST SRM 3114 Lot Number: 011017

Assay Method #2 1,001 ± 2 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 DESCRIPTION OF CRM 1000 µg/mL Manganese in 3% (v/v) HNO3

Catalog Number:	CGMN1-1, CGMN1-2, and CGMN1-5
Lot Number:	D2-MN02079
Starting Material:	Mn pieces
Starting Material Purity (%):	99.990792
Starting Material Lot No:	R806MNA1
Matrix:	3% (v/v) HNO3

M1656

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,004 ± 3 µg/mL

Certified Density: 1.015 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.

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

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

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
$\sum s_i$ = 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 Method #1 1,005 ± 4 µg/mL
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 1,004 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1668

2.0 DESCRIPTION OF CRM 1000 µg/mL Zinc in 2% (v/v) HNO3

Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	D2-ZN02065
Starting Material:	Zn shot
Starting Material Purity (%):	99.999897
Starting Material Lot No:	1560
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration:	998 ± 4 µg/mL (avg. of 2 methods)
Certified Density:	1.012 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.

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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 Method #1 997 ± 4 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 999 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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Testing Laboratory Certificate 863.01

Reference Material Produc Certificate 863.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Aluminum in 7% v/v HNO3

Catalog Number: CGAL10-1, CGAL10-2, and CGAL10-5

Lot Number: D2-AL04081

Starting Material: Al ingot

M1356

Starting Material Purity (%): 99.998843

Starting Material Lot No: C14S012

Matrix: 7% v/v HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,015 ± 26 µg/mL

Certified Density: 1.085 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.

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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 Method #1 9996 ± 4 µg/mL
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 10,015 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

R: 10/07/10

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	10000 µg/mL Phosphorus in H2O
	Catalog Number:	CGP10-1, CGP10-2, and CGP10-5
	Lot Number:	D2-P02026
	Starting Material:	H3PO4
	Starting Material Purity (%):	99.999983
	Starting Material Lot No:	C23813
	Matrix:	H2O

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,997 ± 43 µg/mL (avg. of 2 methods)

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.

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

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

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

$\sum s_i$ = 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 Method #1	9,986 ± 66 µg/mL ICP Assay NIST SRM 3139a Lot Number: 060717
	Assay Method #2	10,007 ± 20 µg/mL Acidimetric NIST SRM 84k Lot Number: 84k

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 1000 µg/mL Barium in 0.1% (v/v) HNO3

Catalog Number: CGBA1-1, CGBA1-2, and CGBA1-5

Lot Number: D2-BA02055

M 1659

Starting Material: Ba(NO3)2

Starting Material Purity (%): 99.999842

Starting Material Lot No: 1514

Matrix: 0.1% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,007 ± 3 µg/mL

Certified Density: 1.000 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.

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

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

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

$\sum s_i$ = 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

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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 Method #1 1,002 ± 4 µg/mL
ICP Assay NIST SRM 3104a Lot Number: 070222

Assay Method #2 1,007 ± 3 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM 10000 µg/mL Iron in 5% (v/v) HNO3

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	D2-FE03115
Starting Material:	Fe powder
Starting Material Purity (%):	99.995342
Starting Material Lot No:	1539
Matrix:	5% (v/v) HNO3

M1357

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,125 ± 26 µg/mL

Certified Density: 1.066 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.

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

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

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

Σs_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 Method #1 10,130 ± 47 µg/mL (avg. of 3 runs)
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 10,125 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1679

2.0 DESCRIPTION OF CRM 10000 µg/mL Potassium in 2% (v/v) HNO_3

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	D2-K03011
Starting Material:	KNO_3
Starting Material Purity (%):	99.998079
Starting Material Lot No:	B19P01
Matrix:	2% (v/v) HNO_3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,029 ± 24 µg/mL

Certified Density: 1.024 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.

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

Uncertainty (±) $= \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

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

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4.1 Assay Method #1 9,984 ± 49 µg/mL
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2 10,029 ± 24 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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Testing Laboratory Certificate 883.01 — Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Calcium in 2% (v/v) HNO3

Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	D2-CA03136
Starting Material:	CaO
Starting Material Purity (%):	99.997416
Starting Material Lot No:	G47339
Matrix:	2% (v/v) HNO3

wrong entry ~~M1364~~ OK 7/11/10

M1433

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,973 ± 26 µg/mL

Certified Density: 1.038 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.

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

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

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

Σs_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

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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 Method #1 9,964 ± 44 µg/mL
ICP Assay NIST SRM 3109a Lot Number: 050825

Assay Method #2 9,973 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 DESCRIPTION OF CRM

DESCRIPTION OF CRM	10000 µg/mL Magnesium in 2% (v/v) HNO3
Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	D2-MG03086
Starting Material:	Mg metal
Starting Material Purity (%):	99.999533
Starting Material Lot No:	00265067003
Matrix:	2% (v/v) HNO3

M1363

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,049 ± 26 µg/mL

Certified Density: 1.054 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.

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

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

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

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4.1 Assay Method #1 10,060 ± 57 µg/mL
ICP Assay NIST SRM 3131a Lot Number: 050302

Assay Method #2 10,049 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1669

2.0 DESCRIPTION OF CRM 10000 µg/mL Sodium in 2% (v/v) HNO3

Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
Lot Number:	D2-NA03080
Starting Material:	Na2CO3
Starting Material Purity (%):	99.997120
Starting Material Lot No:	C18157
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,039 ± 19 µg/mL

Certified Density: 1.034 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.

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

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

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

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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 Method #1 10,072 ± 41 µg/mL
ICP Assay NIST SRM 3152a Lot Number: 010728

Assay Method #2 10,039 ± 19 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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M1436

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Testing Laboratory Certificate 883.01

Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: 6020CAL-1

Lot Number: B2-MEB236100

Matrix: 5% HNO3(v/v)

20.00 µg/mL ea:

Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	20.00 ± 0.12 µg/mL	Antimony, Sb	19.95 ± 0.06 µg/mL	Arsenic, As	20.04 ± 0.06 µg/mL
Barium, Ba	19.95 ± 0.06 µg/mL	Beryllium, Be	19.91 ± 0.06 µg/mL	Cadmium, Cd	20.00 ± 0.06 µg/mL
Calcium, Ca	20.04 ± 0.16 µg/mL	Chromium+3, Cr3	20.04 ± 0.07 µg/mL	Cobalt, Co	20.04 ± 0.04 µg/mL
Copper, Cu	20.04 ± 0.05 µg/mL	Iron, Fe	19.98 ± 0.04 µg/mL	Lead, Pb	20.04 ± 0.07 µg/mL
Magnesium, Mg	20.04 ± 0.08 µg/mL	Manganese, Mn	20.04 ± 0.08 µg/mL	Nickel, Ni	20.04 ± 0.07 µg/mL
Potassium, K	20.04 ± 0.08 µg/mL	Selenium, Se	20.04 ± 0.04 µg/mL	Silver, Ag	20.06 ± 0.04 µg/mL
Sodium, Na	20.04 ± 0.10 µg/mL	Thallium, Tl	19.95 ± 0.04 µg/mL	Vanadium, V	20.04 ± 0.07 µg/mL
Zinc, Zn	20.04 ± 0.10 µg/mL				

Certified Density: 1.027 g/mL (measured at 22° 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.

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

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

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

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M16T3

2.0 DESCRIPTION OF CRM — 1000 µg/mL Arsenic in 2% (v/v) HNO3

Catalog Number:	CGAS1-1, CGAS1-2, and CGAS1-5
Lot Number:	D2-AS02066
Starting Material:	As pieces
Starting Material Purity (%):	99.999032
Starting Material Lot No:	R1107ASB1
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 999 ± 5 µg/mL

Certified Density: 1.011 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.

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

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

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

Σs_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)

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4.1 Assay Method #1 — 999 ± 5 µg/mL
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 — 1,000 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM 1000 µg/mL Beryllium in 3% (v/v) HNO3

M671

Catalog Number:	CGBE1-1, CGBE1-2, and CGBE1-5
Lot Number:	D2-BE02003
Starting Material:	Be(OOCCH3)2
Starting Material Purity (%):	99.999948
Starting Material Lot No:	0801-1
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,004 ± 6 µg/mL

Certified Density: 1.023 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.

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

$$\text{Uncertainty } (\pm) = \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{3/4}}$$

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

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4.1 Assay Method #1 1,004 ± 6 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3105a Lot Number: 892707

Assay Method #2 1,001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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ACCREDITED Reference Material Producer Certificate 883.02

M1672

2.0 DESCRIPTION OF CRM	1000 µg/mL Cadmium in 3% (v/v) HNO3
Catalog Number:	CGCD1-1, CGCD1-2, and CGCD1-5
Lot Number:	D2-CD02027
Starting Material:	Cd shot
Starting Material Purity (%):	99.999656
Starting Material Lot No:	R1205CDA1
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,002 ± 4 µg/mL (avg. of 2 methods)

Certified Density: 1.015 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.

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

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

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

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4.1 Assay Method #1 1,002 ± 4 µg/mL
ICP Assay NIST SRM 3108 Lot Number: 060531

Assay Method #2 1,002 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1665

2.0 DESCRIPTION OF CRM 1000 µg/mL Cobalt in 3% (v/v) HNO3

Catalog Number:	CGCO1-1, CGCO1-2, and CGCO1-5
Lot Number:	D2-CO02027
Starting Material:	Co powder
Starting Material Purity (%):	99.997516
Starting Material Lot No:	KW809COA1
Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,003 ± 3 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.

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

Uncertainty (±) $= \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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)
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4.1 Assay Method #1 1,003 ± 5 µg/mL
ICP Assay NIST SRM 3181 Lot Number: 000630

Assay Method #2 1,003 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 DESCRIPTION OF CRM 1000 µg/mL Lead in 0.5% (v/v) HNO3

Catalog Number: CGPB1-1, CGPB1-2, and CGPB1-5

Lot Number: D2-PB03019

M 1598

Starting Material: Pb(NO3)2

Starting Material Purity (%): 99.999554

Starting Material Lot No: E1007PBA1

Matrix: 0.5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 3 µg/mL

Certified Density: 1.000 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.

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

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

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

$\sum s_i$ = 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)

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4.1 Assay Method #1 999 ± 4 µg/mL
ICP Assay NIST SRM 3128 Lot Number: 030721

Assay Method #2 1,001 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 DESCRIPTION OF CRM 1000 µg/mL Manganese in 3% (v/v) HNO3

Catalog Number: CGMN1-1, CGMN1-2, and CGMN1-5

M1656

Lot Number: D2-MN02079

Starting Material: Mn pieces

Starting Material Purity (%): 99.990792

Starting Material Lot No: R806MNA1

Matrix: 3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,004 ± 3 µg/mL

Certified Density: 1.015 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

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

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4.1 Assay Method #1 1,005 ± 4 µg/mL
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 1,004 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 1000 µg/mL Nickel in 2% (v/v) HNO3

Catalog Number: CGNI1-1, CGNI1-2, and CGNI1-5

M 1655

Lot Number: C2-NI02062

Starting Material: Ni pieces

Starting Material Purity (%): 99.999033

Starting Material Lot No: E25T014

Matrix: 2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1003 ± 3 µg/mL

Certified Density: 1.012 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.

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

$(\bar{x})$ = mean
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n = number of measurements

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

Σs_i = The summation of all significant estimated errors (Most common are the errors from instumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

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4.1 Assay Method #1 998 ± 3 µg/mL
ICP Assay NIST SRM 3136 Lot Number: 000612

Assay Method #2 1003 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1675

2.0 DESCRIPTION OF CRM — 1000 µg/mL Silver in 5% (v/v) HNO3

Catalog Number:	CGAG1-1, CGAG1-2, and CGAG1-5
Lot Number:	D2-AG03004
Starting Material:	Ag shot
Starting Material Purity (%):	99.991024
Starting Material Lot No:	E308AGA1
Matrix:	5% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,000 ± 2 µg/mL

Certified Density: 1.025 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.

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

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

Σs_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)

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4.1 Assay Method #1 — 1,002 ± 3 µg/mL
ICP Assay NIST SRM 3151 Lot Number: 992212

Assay Method #2 — 1,000 ± 2 µg/mL
Volhard NIST SRM 999b Lot Number: 999b

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M1676

2.0 DESCRIPTION OF CRM — 1000 µg/mL Thallium in 0.7% (v/v) HNO3

Catalog Number:	CGTL1-1, CGTL1-2, and CGTL1-5
Lot Number:	D2-TL01111
Starting Material:	TlNO3
Starting Material Purity (%):	99.999671
Starting Material Lot No:	1479
Matrix:	0.7% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,000 ± 4 µg/mL

Certified Density: 1.003 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.

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

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

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

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4.1 Assay Method #1 — 1,000 ± 4 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3158 Lot Number: 993012

Assay Method #2 — 1,001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM 10000 µg/mL Aluminum in 7% v/v HNO3

Catalog Number:	CGAL10-1, CGAL10-2, and CGAL10-5
Lot Number:	D2-AL04081
Starting Material:	Al ingot
Starting Material Purity (%):	99.998843
Starting Material Lot No:	C14S012
Matrix:	7% v/v HNO3

M1356

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,015 ± 26 µg/mL

Certified Density: 1.085 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.

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

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

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

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4.1 Assay Method #1 9996 ± 4 µg/mL
ICP Assay NIST SRM 3101a Lot Number: 060502

Assay Method #2 10,015 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 DESCRIPTION OF CRM 1000 µg/mL Antimony in HF in 2% v/v HNO3 / tr. HF

Catalog Number:	CGSBF1-1, CGSBF1-2, and CGSBF1-5
Lot Number:	C2-SB02120
Starting Material:	Sb shot
Starting Material Purity (%):	99.999512
Starting Material Lot No:	D29N32
Matrix:	2% v/v HNO3 / tr. HF

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.010 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.

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

$(\bar{x})$ = mean
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4.1 Assay Method #1 993 ± 3 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3102A Lot Number: 061229

Assay Method #2 1000 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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M1662

2.0 DESCRIPTION OF CRM 1000 µg/mL Chromium (+3) in 2% (v/v) HNO3

Catalog Number:	CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5
Lot Number:	D2-CR03042
Starting Material:	Cr pieces
Starting Material Purity (%):	99.993508
Starting Material Lot No:	R800A
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,000 ± 3 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.

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

$(\bar{x})$ = mean
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4.1 Assay Method #1 1,000 ± 3 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3112a Lot Number: 030730

Assay Method #2 1,001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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M1657

2.0	DESCRIPTION OF CRM	1000 µg/mL Copper in 3% (v/v) HNO3
	Catalog Number:	CGCU1-1, CGCU1-2, and CGCU1-5
	Lot Number:	D2-CU02121
	Starting Material:	Cu shot
	Starting Material Purity (%):	99.999158
	Starting Material Lot No:	1544
	Matrix:	3% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,001 ± 3 µg/mL (avg. of 2 methods)

Certified Density: 1.015 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.

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

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4.1 Assay Method #1 1,000 ± 4 µg/mL
ICP Assay NIST SRM 3114 Lot Number: 011017

Assay Method #2 1,001 ± 2 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1668

2.0 DESCRIPTION OF CRM — 1000 µg/mL Zinc in 2% (v/v) HNO3

Catalog Number:	CGZN1-1, CGZN1-2, and CGZN1-5
Lot Number:	D2-ZN02065
Starting Material:	Zn shot
Starting Material Purity (%):	99.999897
Starting Material Lot No:	1560
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 4 µg/mL (avg. of 2 methods)

Certified Density: 1.012 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.

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n = number of measurements

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4.1 Assay Method #1 — 997 ± 4 µg/mL (avg. of 2 runs)
ICP Assay NIST SRM 3168a Lot Number: 080123

Assay Method #2 — 999 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

M1321
rec. date: 04/24/10
[illegible]

2.0 DESCRIPTION OF CRM Custom Solution

Catalog No.: CHEM-CLP-4

Lot Number: D2-MEB328101

Matrix: 0.7% HF(v/v), 3% HNO3(v/v)

1,000.00 µg/mL ea:
B, Mo, Si, Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	999 ± 4 µg/mL	Molybdenum, Mo	999 ± 4 µg/mL	Silicon, Si	1,001 ± 4 µg/mL
Tin, Sn	1,000 ± 3 µg/mL	Titanium, Ti	1,003 ± 3 µg/mL		

Certified Density: 1.028 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.

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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 TRACEBILITY 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)
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CERTIFICATE OF ANALYSIS

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M1660

2.0 DESCRIPTION OF CRM	1000 µg/mL Selenium(+4) in 2% (v/v) HNO3
Catalog Number:	CGSE(4)1-1, CGSE(4)1-2, and CGSE(4)1-5
Lot Number:	D2-SE02020
Starting Material:	Se shot
Starting Material Purity (%):	99.999203
Starting Material Lot No:	1505
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,004 ± 3 µg/mL

Certified Density: 1.011 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)

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4.1	Assay Method #1	1,004 ± 3 µg/mL ICP Assay NIST SRM 3149 Lot Number: 992106
	Assay Method #2	1,007 ± 5 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM: 1000 µg/mL Vanadium in 2% (v/v) HNO3

M16 7U

Catalog Number:	CGV1-1, CGV1-2, and CGV1-5
Lot Number:	D2-V02065
Starting Material:	V2O5
Starting Material Purity (%):	99.990563
Starting Material Lot No:	46
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,007 ± 3 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.

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

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

Uncertainty (±) $= \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

Σs_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)

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4.1 Assay Method #1 1,007 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 1,003 ± 4 µg/mL
ICP Assay NIST SRM 3165 Lot Number: 992706

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2.0 DESCRIPTION OF CRM 1000 µg/mL Barium in 0.1% (v/v) HNO3

Catalog Number:	CGBA1-1, CGBA1-2, and CGBA1-5
Lot Number:	D2-BA02055
Starting Material:	Ba(NO3)2
Starting Material Purity (%):	99.999842
Starting Material Lot No:	1514
Matrix:	0.1% (v/v) HNO3

M1659

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,007 ± 3 µg/mL

Certified Density: 1.000 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 $k = 2$.

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$(\bar{x})$ = 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

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4.1 Assay Method #1 1,002 ± 4 µg/mL
ICP Assay NIST SRM 3104a Lot Number: 070222

Assay Method #2 1,007 ± 3 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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Testing Laboratory Certificate 833.01 · Reference Material Producer Certificate 833.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Iron in 5% (v/v) HNO3

Catalog Number:	CGFE10-1, CGFE10-2, and CGFE10-5
Lot Number:	D2-FE03115
Starting Material:	Fe powder
Starting Material Purity (%):	99.995342
Starting Material Lot No:	1539
Matrix:	5% (v/v) HNO3

H1357

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,125 ± 26 µg/mL

Certified Density: 1.066 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.

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

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

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

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4.1 Assay Method #1 10,130 ± 47 µg/mL (avg. of 3 runs)
ICP Assay NIST SRM 3126a Lot Number: 051031

Assay Method #2 10,125 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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Testing Laboratory Certificate 883.01

Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Calcium in 2% (v/v) HNO3

Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	D2-CA03136
Starting Material:	CaO
Starting Material Purity (%):	99.997416
Starting Material Lot No:	G47339
Matrix:	2% (v/v) HNO3

wrong entry
~~M 1364~~ OK 7/19/10
M 1433

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 9,973 ± 26 µg/mL

Certified Density: 1.038 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.

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

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

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

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4.1 Assay Method #1 9,964 ± 44 µg/mL
ICP Assay NIST SRM 3109a Lot Number: 050825

Assay Method #2 9,973 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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Testing Laboratory Certificate 863.01

Reference Material Producer Certificate 863.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Magnesium in 2% (v/v) HNO3

Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	D2-MG03086
Starting Material:	Mg metal
Starting Material Purity (%):	99.999533
Starting Material Lot No:	00265067003
Matrix:	2% (v/v) HNO3

M1363

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,049 ± 26 µg/mL

Certified Density: 1.054 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.

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

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

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

Σs = 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

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4.1 Assay Method #1 10,060 ± 57 µg/mL
ICP Assay NIST SRM 3131a Lot Number: 050302

Assay Method #2 10,049 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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M1679

2.0 DESCRIPTION OF CRM: 10000 µg/mL Potassium in 2% (v/v) HNO3

Catalog Number:	CGK10-1, CGK10-2, and CGK10-5
Lot Number:	D2-K03011
Starting Material:	KNO3
Starting Material Purity (%):	99.998079
Starting Material Lot No.:	B19P01
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,029 ± 24 µg/mL

Certified Density: 1.024 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
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n = number of measurements

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

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4.1 Assay Method #1: 9,984 ± 49 µg/mL
ICP Assay NIST SRM 3141a Lot Number: 051220

Assay Method #2: 10,029 ± 24 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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ACCREDITE Reference Material Prod Certificate 883.02

M1669

2.0 DESCRIPTION OF CRM 10000 µg/mL Sodium in 2% (v/v) HNO3

Catalog Number:	CGNA10-1, CGNA10-2, and CGNA10-5
Lot Number:	D2-NA03080
Starting Material:	Na2CO3
Starting Material Purity (%):	99.997120
Starting Material Lot No:	C18157
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,039 ± 19 µg/mL

Certified Density: 1.034 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
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n = number of measurements

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4.1 Assay Method #1 10,072 ± 41 µg/mL
ICP Assay NIST SRM 3152a Lot Number: 010728

Assay Method #2 10,039 ± 19 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM 10000 µg/mL Magnesium in 2% (v/v) HNO3

Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	D2-MG03086
Starting Material:	Mg metal
Starting Material Purity (%):	99.999533
Starting Material Lot No:	00265067003
Matrix:	2% (v/v) HNO3

M1363

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,049 ± 26 µg/mL

Certified Density: 1.054 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.

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

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

($\bar{x}$) = mean
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n = number of measurements
$\sum s_i$ = 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)

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4.1 Assay Method #1 10,060 ± 57 µg/mL
ICP Assay NIST SRM 3131a Lot Number: 050302

Assay Method #2 10,049 ± 26 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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R: 08/30/10

M1518

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2.0 DESCRIPTION OF CRM Custom Solution

Catalog No.: IV-STOCK-12

Lot Number: C2-MEB313146MCA

Matrix: 5% HNO3(v/v)

10.00 µg/mL ea:

Ba, Be, Bi, Ce, Co, In, Li, Ni, Pb, U

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	10.02 ± 0.02 µg/mL	Beryllium, Be	10.04 ± 0.03 µg/mL	Bismuth, Bi	10.02 ± 0.03 µg/mL
Cerium, Ce	10.02 ± 0.03 µg/mL	Cobalt, Co	10.03 ± 0.02 µg/mL	Indium, In	10.02 ± 0.05 µg/mL
Lead, Pb	10.01 ± 0.04 µg/mL	Lithium, Li	10.02 ± 0.06 µg/mL	Nickel, Ni	10.03 ± 0.02 µg/mL
Uranium, U	10.02 ± 0.03 µg/mL				

Certified Density: 1.026 g/mL (measured at 22° 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.

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

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

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

Σs_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.)

Certified Abundance: The 235U in this standard is depleted. The Certified abundances in Atom % are as follows:

IV's Certified Abundance

Isotope	Atom%
Uranium 238U	99.8 ± 0.1
235U	0.25 ± 0.05

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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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.

R: 09/07/10

INORGANIC VENTURES — CERTIFICATE OF ANALYSIS

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M1526

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."

Testing Laboratory Certificate 883.01 — Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM

	Stock Solution
Catalog No.:	6020ISS
Lot Number:	D2-MEB324021
Matrix:	7% HNO3(v/v)

10.00 µg/mL ea:
Bi, Ho, In, Li6, Rh, Sc, Tb, Y

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
6 Lithium, Li6	10.01 ± 0.02 µg/mL	Bismuth, Bi	10.01 ± 0.02 µg/mL	Holmium, Ho	10.01 ± 0.04 µg/mL
Indium, In	10.01 ± 0.02 µg/mL	Rhodium, Rh	10.00 ± 0.04 µg/mL	Scandium, Sc	10.01 ± 0.02 µg/mL
Terbium, Tb	10.00 ± 0.02 µg/mL	Yttrium, Y	9.99 ± 0.02 µg/mL		

Certified Density: 1.033 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.

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

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

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

Σs_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)

Certified Abundance: The 6Li in this standard is enhanced. The Certified abundances in Atom % are as follows:

IV's Certified Abundance

Isotope	Atom%
Lithium Li6	95.9 ± 0.3
Li7	4.1 ± 0.1

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-SPK-1

Lot Number: B2-MEB263022

Matrix: 7% HNO3(v/v)

2,000.00 µg/mL ea:
Al, Ba,

1,000.00 µg/mL ea:
Fe,

500.00 µg/mL ea:
Co, Mn, Ni, V, Zn,

250.00 µg/mL ea:
Cu,

200.00 µg/mL ea:
Cr3,

50.00 µg/mL ea:
Ag, Be

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	2,000 ± 7 µg/mL	Barium, Ba	2,000 ± 8 µg/mL	Beryllium, Be	49.91 ± 0.08 µg/mL
Chromium+3, Cr3	200.2 ± 0.7 µg/mL	Cobalt, Co	499.8 ± 1.0 µg/mL	Copper, Cu	249.5 ± 0.6 µg/mL
Iron, Fe	1,000 ± 4 µg/mL	Manganese, Mn	500.0 ± 1.1 µg/mL	Nickel, Ni	500.4 ± 1.3 µg/mL
Silver, Ag	49.94 ± 0.20 µg/mL	Vanadium, V	500.1 ± 1.8 µg/mL	Zinc, Zn	500.0 ± 2.5 µg/mL

Certified Density: 1.070 g/mL (measured at 22° 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.

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

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

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

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R: 4/2/10

CERTIFICATE OF ANALYSIS

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ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-SPK-4

Lot Number: A2-MEB194140

Matrix: 2% HNO3(abs)

100.00 µg/mL ea:
Sb,

50.00 µg/mL ea:
Cd, Tl,

40.00 µg/mL ea:
As,

20.00 µg/mL ea:
Pb,

10.00 µg/mL ea:
Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	100.3 ± 0.4 µg/mL	Arsenic, As	40.08 ± 0.13 µg/mL	Cadmium, Cd	50.10 ± 0.12 µg/mL
Lead, Pb	20.03 ± 0.06 µg/mL	Selenium, Se	10.04 ± 0.04 µg/mL	Thallium, Tl	50.08 ± 0.17 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty.

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

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

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

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM

DESCRIPTION OF CRM	1000 µg/mL Boron in H2O
Catalog Number:	CGB1-1, CGB1-2, and CGB1-5
Lot Number:	C2-B02083
Starting Material:	H3BO3
Starting Material Purity (%):	99.999998
Starting Material Lot No:	OV0133
Matrix:	H2O

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M1432
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3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 3 µg/mL

Certified Density: 1.000 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.

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

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

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

Σs_i = The summation of all significant estimated errors (Most common are the errors from instumental 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

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4.1 Assay Method #1 998 ± 3 µg/mL
ICP Assay NIST SRM 3107 Lot Number: 070514

Assay Method #2 1,001 ± 5 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

R: 11/29/10

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2.0 DESCRIPTION OF CRM	1000 µg/mL Thorium in 4% (v/v) HNO3
Catalog Number:	CGTH1-1, CGTH1-2, and CGTH1-5
Lot Number:	C2-TH01079
Starting Material:	Th(NO3)4x4H2O
Starting Material Purity (%):	99.999912
Starting Material Lot No:	X0033369-8
Matrix:	4% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.022 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.

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

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

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

Σs_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

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4.1 Assay Method #1 993 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 993 ± 3 µg/mL
ICP Assay NIST SRM 3159 Lot Number: 992912

R: 11/29/10

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0	DESCRIPTION OF CRM	1000 µg/mL Uranium in 2% (v/v) HNO3
	Catalog Number:	CGU1-1, CGU1-2, and CGU1-5
	Lot Number:	D2-U01084
	Starting Material:	UO2(NO3)2.6H2O
	Starting Material Purity (%):	99.999942
	Starting Material Lot No:	N55947
	Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,015 ± 4 µg/mL

Certified Density: 1.009 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.

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

Uncertainty (±) $= \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

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

Certified Abundance: The 235U in this standard is depleted. The Certified abundances in Atom % are as follows:

IV's Certified Abundance

Isotope	Atom%
Uranium 238U	99.7 ± 0.1
235U	0.29 ± 0.05

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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Testing Laboratory Certificate 883.01 · Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 10000 µg/mL Uranium in 2% (v/v) HNO3

Catalog Number:	CGU10-1, CGU10-2, and CGU10-5
Lot Number:	C2-U01081
Starting Material:	UO2(NO3)2.6H2O
Starting Material Purity (%):	99.999940
Starting Material Lot No:	N55947
Matrix:	2% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,297 ± 42 µg/mL

Certified Density: 1.022 g/mL (measured at 22° 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.

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

$(\bar{x})$ = mean
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n = number of measurements

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

Σs_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

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4.1 Assay Method #1 10,297 ± 42 µg/mL
ICP Assay NIST SRM 3164 Lot Number: 891509

Assay Method #2 10,000 ± 50 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

R: 11/03/09

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M1382

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM 1000 µg/mL Thorium in 4% (v/v) HNO3

Catalog Number:	CGTH1-1, CGTH1-2, and CGTH1-5
Lot Number:	C2-TH01079
Starting Material:	Th(NO3)4x4H2O
Starting Material Purity (%):	99.999912
Starting Material Lot No:	X0033369-8
Matrix:	4% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.022 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.

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

$(\bar{x})$ = mean
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n = number of measurements

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

Σs_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)

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4.1 Assay Method #1 993 ± 3 µg/mL
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 993 ± 3 µg/mL
ICP Assay NIST SRM 3159 Lot Number: 992912

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CERTIFICATE OF ANALYSIS

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2.0 **DESCRIPTION OF CRM** Custom Second Source Solution

Catalog No.: CHEM-QC-4

Lot Number: **A2-MEB243011**

Matrix: 0.17% HF(abs), 2% HNO3(abs)

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

1,000.00 µg/mL ea:
B, Mo, Si, Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	1,000 ± 6 µg/mL	Molybdenum, Mo	1,001 ± 4 µg/mL	Silicon, Si	1,000 ± 2 µg/mL
Tin, Sn	1,000 ± 3 µg/mL	Titanium, Ti	1,002 ± 4 µg/mL		

Certified Density: 1.031 g/mL (measured at 20 ± 1° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty.

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

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

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

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ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Uranium in 2% (v/v) HNO3**

Catalog Number:	CGU1-1, CGU1-2, and CGU1-5
Lot Number:	**D2-U01084**
Starting Material:	UO2(NO3)2.6H2O
Starting Material Purity (%):	99.999942
Starting Material Lot No:	N55947
Matrix:	2% (v/v) HNO3

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1,015 ± 4 µg/mL

Certified Density: 1.009 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.

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

Uncertainty (±) $= \frac{2\,[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

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

Certified Abundance: The 235U in this standard is depleted. The Certified abundances in Atom % are as follows:

IV's Certified Abundance

Isotope	Atom%
Uranium 238U	99.7 ± 0.1
235U	0.29 ± 0.05

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.

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ACCREDITED Testing Laboratory Certificate 663.01 · ACCREDITED Reference Material Producer Certificate 663.02

2.0 DESCRIPTION OF CRM	1000 µg/mL Thorium in 4% (v/v) HNO3
Catalog Number:	CGTH1-1, CGTH1-2, and CGTH1-5
Lot Number:	C2-TH01079
Starting Material:	Th(NO3)4x4H2O
Starting Material Purity (%):	99.999912
Starting Material Lot No:	X0033369-8
Matrix:	4% (v/v) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 993 ± 3 µg/mL

Certified Density: 1.022 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.

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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 Method #1 **993 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **993 ± 3 µg/mL**
ICP Assay NIST SRM 3159 Lot Number: 992912

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE FOR ICP-MS
PART A (0803) WITH PART B (0803)

PART A → M1440 - M1449

Preparation and analysis must be performed according to the following instructions:

Part A (0803), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution, Soln. A, by ICP-MS.

Part B (0803), Analytes, mixed with Part A (0803), Interferents: Pipet 10 mL of the Part A solution and 10 mL of the Part B solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution, Soln. AB, by ICP-MS.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS PART A (0803) AND PART A (0803) MIXED WITH PART B (0803)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	[100000]	[100000]
Sb	(1.5)	22
As	(0.1)	19
Ba	(1.2)	22
Be	(0)	19
Cd	(0.7)	20
Ca	[100000]	[100000]
C	[200000]	[200000]
Cl	[1000000]	[1000000]
Cr	21	40
Co	1	20
Cu	8	25
Fe	[100000]	[100000]
Pb	4	25
Mg	[100000]	[100000]
Mn	7	27
Mo	[2000]	[2000]
Ni	6	24
P	[100000]	[100000]
K	[100000]	[100000]
Se	(0.3)	19
Ag	(0)	18
Na	[100000]	[100000]
S	[100000]	[100000]
Tl	(0)	21
Ti	[2000]	[2000]
V	(0.5)	19
Zn	11	29

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.

( ) Indicates analyte values that are less than the CRQL and the value is to be used as a set point for the ± 3 times CRQL acceptance criteria calculations.

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE FOR ICP-MS
PART A (0803) WITH PART B (0803)

PART B → M1460 - M1464

Preparation and analysis must be performed according to the following instructions:

Part A (0803), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution, Soln. A, by ICP-MS.

Part B (0803), Analytes, mixed with Part A (0803), Interferents: Pipet 10 mL of the Part A solution and 10 mL of the Part B solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution, Soln. AB, by ICP-MS.

Table 1. CERTIFIED VALUES FOR INTERFERENCE CHECK SAMPLE ICP-MS PART A (0803) AND PART A (0803) MIXED WITH PART B (0803)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	[100000]	[100000]
Sb	(1.5)	22
As	(0.1)	19
Ba	(1.2)	22
Be	(0)	19
Cd	(0.7)	20
Ca	[100000]	[100000]
C	[200000]	[200000]
Cl	[1000000]	[1000000]
Cr	21	40
Co	1	20
Cu	8	25
Fe	[100000]	[100000]
Pb	4	25
Mg	[100000]	[100000]
Mn	7	27
Mo	[2000]	[2000]
Ni	6	24
P	[100000]	[100000]
K	[100000]	[100000]
Se	(0.3)	19
Ag	(0)	18
Na	[100000]	[100000]
S	[100000]	[100000]
Tl	(0)	21
Ti	[2000]	[2000]
V	(0.5)	19
Zn	11	29

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.

( ) Indicates analyte values that are less than the CRQL and the value is to be used as a set point for the ±3 times CRQL acceptance criteria calculations.

Thermo
SCIENTIFIC
www.thermo.com

R: 12/30/10

M 1710

Tune D25 Cross Cal Solution

Catalog Number: 1600636
Lot Number: L01008
Job Number: J00011929
Lot Issue Date: 08/30/2010
Expiration Date: 09/30/2012

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 5.0%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Analyte	True Value	Analytical Method	NIST SRM
aluminum	10.00 ± 0.05 mg/L	ICP / ICP-MS	3101a
arsenic	10.00 ± 0.05 mg/L	ICP / ICP-MS	3103a
barium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3104a
beryllium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3105a
calcium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3109a
cadmium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3108
cobalt	10.00 ± 0.05 mg/L	ICP / ICP-MS	3113
chromium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3112a
copper	10.00 ± 0.05 mg/L	ICP / ICP-MS	3114
iron	10.00 ± 0.05 mg/L	ICP / ICP-MS	3126a
lead	10.00 ± 0.05 mg/L	ICP / ICP-MS	3128
magnesium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3131a
manganese	10.00 ± 0.05 mg/L	ICP / ICP-MS	3132
molybdenum	10.00 ± 0.05 mg/L	ICP / ICP-MS	3134
nickel	10.00 ± 0.05 mg/L	ICP / ICP-MS	3136
potassium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3141a
selenium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3149
sodium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3152a
thallium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3158
* vanadium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3165
zinc	10.00 ± 0.05 mg/L	ICP / ICP-MS	3168a
indium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3124a
lithium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3129a
uranium	10.00 ± 0.05 mg/L	ICP / ICP-MS	3164

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

* light sensitive

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

R: 9/8/10

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

M1573→M1582

ICV1-0307		
Element	Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV2-0501	
Element	Concentration (µg/L) (after 20 fold dilution)
As	52.6
Se	50.8

ICV3-0500	
Element	Concentration (µg/L) (after 10 fold dilution)
Sb	999

9/8/10

ISM01.2
200.8

ICP - MS

CHEMTECH

Water Sample Preparation Sheet

C 1938

PrepBatch ID :	**PB54902**	**Batch#**	**PB54902**
SDG No :		**ICP Digest Date:**	04 / 26 / 11
Matrix :	Water	**Sample Received By :**	D. [illegible]
Method :	MISM01.2- metal ICP-MS-01	**Dig Technician Signature:**	Bhupendra Patel.
Initial Volume :	50 ML	**Supervisor Signature:**	D. [illegible]
Final Volume :	50 ML	**Prep Code:**	~~CWI~~ BP 4/26/11
Hot Plate Temp :	(1.) 95°C 2. 3.		

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50 ml	MP 6473
Spike Sol. B	0.50 ml	MP 6466
		BP 4/26/11

Chemical Used	Lot Number
1:1 HNO3	MP 6436
1:1 HCL	MP 5402
	BP 4/26/11

Date / Time	Received By	Relinquished By	Location
4/26/11 4:00pm	D. [illegible]	Bhupendra Patel	ICP-Lab
	Analysis Group	**Digestion Group**	
	(DR) JS, PM	NP, PM, RD	

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID :** **PB54902**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
C1938-01	MF3T98	C	C	CL	CL	<2	
C1938-02	MF3TB2	C	C	CL	CL	<2	
C1938-03	MF3TB8	C	C	CL	CL	<2	
C1938-04	MF3TB8D	C	C	CL	CL	<2	
C1938-05	MF3TB8S	C	C	CL	CL	<2	SPIKE SOL-B
C1938-06	MF3TE1	C	C	CL	CL	<2	
C1938-07	MF3TE5	C	C	CL	CL	<2	
C1938-08	MF3TE7	C	C	CL	CL	<2	
C1938-09	MF3TE8	C	C	CL	CL	<2	
PB54902BL	~~PB54902~~BL PBW	C	C	CL	CL	<2	
PB54902BS	~~PB54902BS~~ LCS	C	C	CL	CL	<2	MP6473.

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

CHEMTECH **Water Sample Preparation Sheet** **PrepBatch ID : PB54902**

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	PH	Comments
C1938-01	MF3T98	Colorless	Colorless	Clear	Clear	<2	
C1938-02	MF3TB2	Colorless	Colorless	Clear	Clear	<2	
C1938-03	MF3TB8	Colorless	Colorless	Clear	Clear	<2	
C1938-04	MF3TB8D	Colorless	Colorless	Clear	Clear	<2	
C1938-05	MF3TB8S	Colorless	Colorless	Clear	Clear	<2	SPIKE SOL'N B.
C1938-06	MF3TE1	Colorless	Colorless	Clear	Clear	<2	
C1938-07	MF3TE5	Colorless	Colorless	Clear	Clear	<2	
C1938-08	MF3TE7	Colorless	Colorless	Clear	Clear	<2	
C1938-09	MF3TE8	Colorless	Colorless	Clear	Clear	<2	
PB54902BL	~~PB54902BL~~ PBW	Colorless	Colorless	Clear	Clear	<2	
PB54902BS	PB~~54902BS~~ LCS	Colorless	Colorless	Clear	Clear	<2	MP 6473.

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

FedEx Express US Airbill 850427178964 0200 Form ID No. FedEx Retrieval Copy

220

1 From
Date 4/19/11 Sender's FedEx Account Number
Sender's Name Sabur Manzano Phone 806 392-1157
Company Sprague Road Superfund Site
Address 2725 W. 81st St. Dept./Floor/Suite/Room
City Odessa State TX ZIP 79764

2 Your Internal Billing Reference 1434265 B 3

3 To
Recipient's Name Snehal Mohta Phone 908 789-8900
Company Chemtech Consulting Group
Recipient's Address 284 Sheffield St. Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City Mountainside State NJ ZIP 07092

4a Express Package Service — Packages up to 150 lbs.* (* To most locations)
1 [X] FedEx Priority Overnight — Next business morning*
5 [ ] FedEx Standard Overnight — Next business afternoon*
6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations*
3 [ ] FedEx 2Day — Second business day*
20 [ ] FedEx Express Saver — Third business day*
FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service — Packages over 150 lbs. (** To most locations)
7 [ ] FedEx 1Day Freight* — Next business day**
8 [ ] FedEx 2Day Freight — Second business day**
23 [ ] FedEx 3Day Freight — Third business day**
* Call for Confirmation.

5 Packaging — *Declared value limit $500
6 [ ] FedEx Envelope*
2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
3 [ ] FedEx Box
4 [ ] FedEx Tube
1 [X] Other

6 Special Handling — Include FedEx address in Section 3.
3 [ ] SATURDAY Delivery — Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight to select ZIP codes
1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.
[X] No
4 [ ] Yes — As per attached Shipper's Declaration.
[ ] Yes — Shipper's Declaration not required
6 [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
Dangerous goods including Dry Ice cannot be shipped in FedEx packaging.
[ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]
1 [ ] Sender — Acct. No. in Section 1 will be billed
2 [ ] Recipient
3 [X] Third Party
4 [ ] Credit Card
5 [ ] Cash/Check
FedEx Acct. No. Credit Card No. 167653847 Exp. Date

Total Packages	Total Weight	Total Charges
1	62	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Sign to Authorize Delivery Without a Signature
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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8504 2717 8964

KL 4/20/11 11:40

LOGIN REPORT

Order ID:	C1938 USEP01	Order Date:	4/20/2011	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	41214	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	4/20/2011 11:40:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact:	Account Payable	Login Tech:	MAYUR	Date Signoff:	4/20/2011 1:08:01 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
C1938-01	MF3T98	Water	4/13/2011	16:22	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-02	MF3TB2	Water	4/13/2011	15:21	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-03	MF3TB8	Water	4/13/2011	17:01	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-04	MF3TB8D	Water	4/13/2011	17:01	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-05	MF3TB8S	Water	4/13/2011	17:01	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM

LOGIN REPORT

Order ID:	C1938 USEP01	Order Date:	4/20/2011	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	41214	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	4/20/2011 11:40:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact:	Account Payable	Login Tech:	MAYUR	Date Signoff:	4/20/2011 1:08:01 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
C1938-06	MF3TE1	Water	4/13/2011	15:41	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-07	MF3TE5	Water	4/13/2011	14:50	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-08	MF3TE7	Water	4/13/2011	15:31	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM
C1938-09	MF3TE8	Water	4/13/2011	10:12	1	Metals CLP MS		ISM01.2	15 Bu	May 11 2011 11:40AM	May 11 2011 11:40AM

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LOGIN REPORT

Order ID:	C1938 USEP01	Order Date:	4/20/2011	Project Mgr:	snehal
Client Name:	USEPA CLP SMO	Project Name:	41214	Report Type:	USEPA CLP
Client Contact:	Anita Kapadia	Rec DateTime	4/20/2011 11:40:00 AM	EDD:	EPA CLP
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact:	Account Payable	Login Tech:	MAYUR	Date Signoff:	4/20/2011 1:08:01 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	NA

ORDER COMMENT

Case-41214, SDG-MF3T98, See ASR in PM Folder

From: Blackmon, Jacqueline [jblackmon3@fedcsc.com]
Sent: Wednesday, April 20, 2011 9:14 AM
To: Divya Mehta; Snehal Mehta
Cc: Marvelyn Humphrey; Mahmoud Elfeky; Myra Perez; Nick Gannon
Subject: Region 06 | Case 41214 | Lab CHEM | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL
Attachments: Case-41214-LRD-4-20.pdf

Snehal,

Summary Start
Issue: The FedEx airbill number listed on the attached TR/COC is 796971363175; however, the actual FedEx airbill number that samples were received under is 850427178964.
Resolution: In accordance with previous direction from Region 6, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your PO.
Thanks,
Jackie (Blackmon) Washington
Environmental Coordinator- Regions 6, 9 and ASB (QB/PE)
CSC

15000 Conference Center Drive, Chantilly VA 20151
Civil Division | office phone 703-818-4184 | fax 703-818-4601 | jblackmon3@fedcsc.com | www.csc.com
----
This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Wednesday, April 20, 2011 12:57 PM
To: Blackmon, Jacqueline
Subject: RE: Region 06 | Case 41214 | Lab CHEM | Shipping information

Jackie,

Lab received this shipment today, attached is TR.

Issue: Fed Ex Air Bill#796971363175 on TR does not match with actual Fed Ex-Air Bill# 850427178964

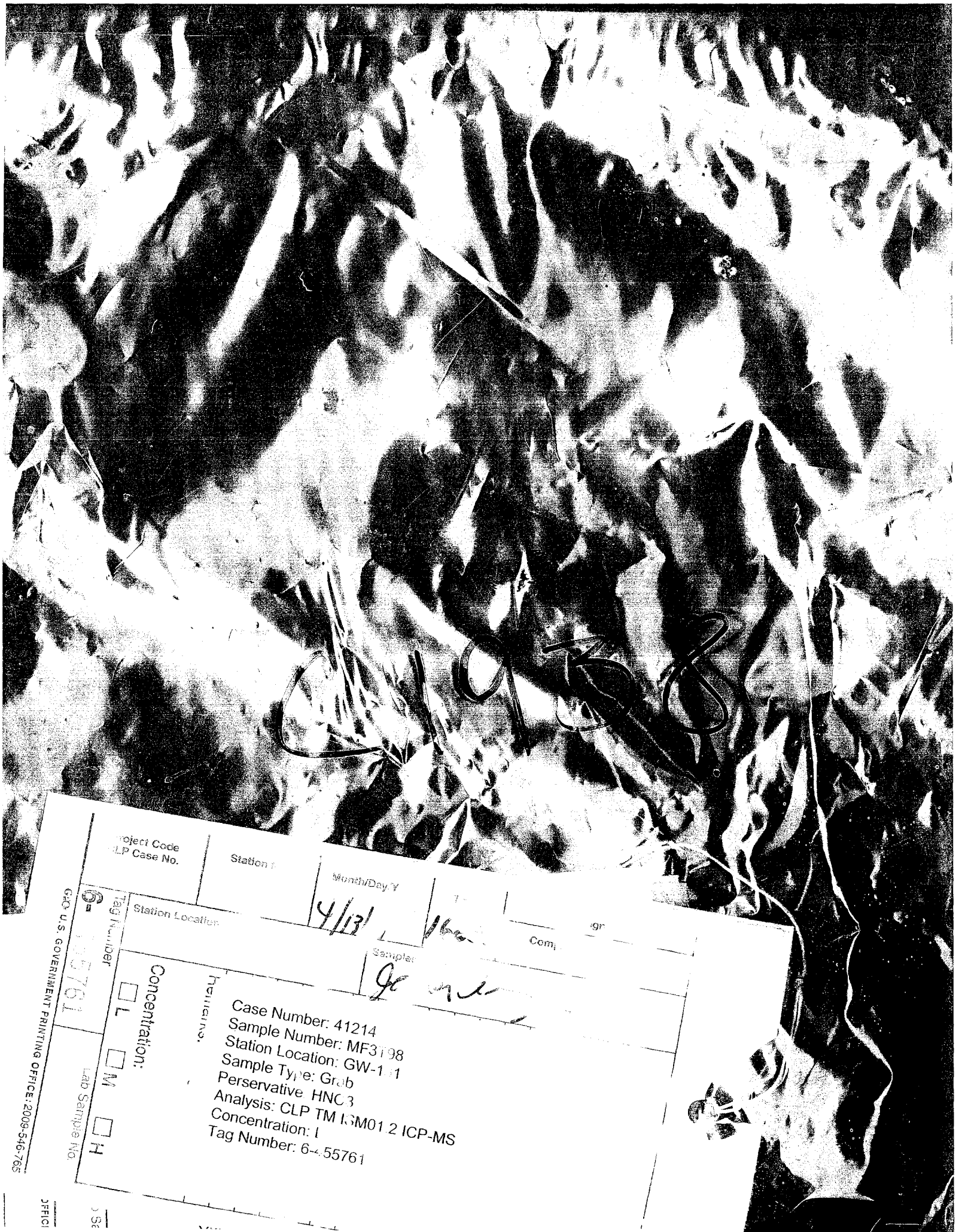
WORKLIST(Hardcopy Internal Chain)

WorkList Name : C1938 WorkList ID : 36703 Date : 4/26/2011 11:51:31 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
05/04/2011	Water	C1938-01	Metals CLP MS	1:1	USEP01	A51	MF3T98	04/13/2011	ISM01.2
05/04/2011	Water	C1938-02	Metals CLP MS	1:1	USEP01	A51	MF3TB2	04/13/2011	ISM01.2
05/04/2011	Water	C1938-03	Metals CLP MS	1:1	USEP01	A51	MF3TB8	04/13/2011	ISM01.2
05/04/2011	Water	C1938-04	Metals CLP MS	1:1	USEP01	A51	MF3TB8D	04/13/2011	ISM01.2
05/04/2011	Water	C1938-05	Metals CLP MS	1:1	USEP01	A51	MF3TB8S	04/13/2011	ISM01.2
05/04/2011	Water	C1938-06	Metals CLP MS	1:1	USEP01	A51	MF3TE1	04/13/2011	ISM01.2
05/04/2011	Water	C1938-07	Metals CLP MS	1:1	USEP01	A51	MF3TE5	04/13/2011	ISM01.2
05/04/2011	Water	C1938-08	Metals CLP MS	1:1	USEP01	A51	MF3TE7	04/13/2011	ISM01.2
05/04/2011	Water	C1938-09	Metals CLP MS	1:1	USEP01	A51	MF3TE8	04/13/2011	ISM01.2

Date/Time 4/26/11 NOON
Received by: Bhupendra Patel.
Relinquished by:

Date/Time 4/26/11 1:00 PM
Received by:
Relinquished by: Bhupendra Patel.


Project Code
CLP Case No.
Station
Month/Day/Y
4/13
Station Location
Tag Number
Concentration:
L
M
H
Lab Sample No.
Case Number: 41214
Sample Number: MF3198
Station Location: GW-1
Sample Type: Grab
Perservative HNO3
Analysis: CLP TM IGM01 2 ICP-MS
Concentration: L
Tag Number: 6-55761
GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440382	Arsenic	7.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440393	Barium	37.8		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	17:21:14	7440702	Calcium	294000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440473	Chromium	3.1	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439896	Iron	1030		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439954	Magnesium	51300		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7439965	Manganese	1.1	UC	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440020	Nickel	3.4		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440097	Potassium	6860		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7782492	Selenium	25.0		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	17:21:14	7440235	Sodium	302000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440622	Vanadium	30.8		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3T98	C1938-01	W	Field_Sample	05/05/2011	16:41:38	7440666	Zinc	42.7		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-191
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440382	Arsenic	12.5		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440393	Barium	38.5		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	17:29:09	7440702	Calcium	171000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440473	Chromium	8.5	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440508	Copper	56.1		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439896	Iron	617		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439921	Lead	3.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439954	Magnesium	43400		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440020	Nickel	2.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440097	Potassium	5760		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7782492	Selenium	18.6		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	17:29:09	7440235	Sodium	264000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440622	Vanadium	63.3		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB2	C1938-02	W	Field_Sample	05/05/2011	16:49:32	7440666	Zinc	17.7		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-040
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440382	Arsenic	10.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440393	Barium	34.2		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	18:24:24	7440702	Calcium	173000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440473	Chromium	32.2	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439896	Iron	681		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439954	Magnesium	37000		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7439965	Manganese	1.3	UC	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440020	Nickel	1.7		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440097	Potassium	6430		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7782492	Selenium	14.2		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	18:24:24	7440235	Sodium	303000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440622	Vanadium	61.1		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TB8	C1938-03	W	Field_Sample	05/05/2011	17:52:48	7440666	Zinc	3.5		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-107-MS/MD
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440382	Arsenic	8.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440393	Barium	23.6		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715

41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	18:56:04	7440702	Calcium	374000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440473	Chromium	3.4	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440508	Copper	4.8		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439896	Iron	1220		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439954	Magnesium	75700		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440020	Nickel	3.6		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440097	Potassium	8690		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7782492	Selenium	29.2		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	18:56:04	7440235	Sodium	316000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440622	Vanadium	28.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE1	C1938-06	W	Field_Sample	05/05/2011	16:57:28	7440666	Zinc	20.6		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-715
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440382	Arsenic	10.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440393	Barium	18.2		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	19:04:01	7440702	Calcium	264000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440473	Chromium	2.0	UJ	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440508	Copper	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439896	Iron	819		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439954	Magnesium	59000		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440020	Nickel	3.1		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440097	Potassium	5170		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7782492	Selenium	24.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	19:04:01	7440235	Sodium	359000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440622	Vanadium	39.0		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE5	C1938-07	W	Field_Sample	05/05/2011	17:05:24	7440666	Zinc	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-335
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440382	Arsenic	10.2		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440393	Barium	27.7		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	19:51:23	7440702	Calcium	346000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440473	Chromium	2.0	UJ	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440508	Copper	2.2	J+	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439896	Iron	1150		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439921	Lead	2.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439954	Magnesium	68900		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440020	Nickel	5.3		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440097	Potassium	6370		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7782492	Selenium	29.8		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	19:51:23	7440235	Sodium	484000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440622	Vanadium	43.5		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE7	C1938-08	W	Field_Sample	05/05/2011	17:13:19	7440666	Zinc	54.2		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-713
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7429905	Aluminum	20.0	U	ug/L	20.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440360	Antimony	2.0	U	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440382	Arsenic	8.5		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440393	Barium	36.7		ug/L	10.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440417	Beryllium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440439	Cadmium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:43:29	7440702	Calcium	163000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440473	Chromium	2.4	J	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440484	Cobalt	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440508	Copper	2.8	J+	ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439896	Iron	599		ug/L	200	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717

41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439921	Lead	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439954	Magnesium	42500		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7439965	Manganese	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440020	Nickel	1.8		ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440097	Potassium	6750		ug/L	500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7782492	Selenium	16.9		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440224	Silver	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:43:29	7440235	Sodium	282000		ug/L	12500	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440280	Thallium	1.0	U	ug/L	1.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440622	Vanadium	39.9		ug/L	5.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717
41214	MF3T98	MF3TE8	C1938-09	W	Field_Sample	05/05/2011	19:35:35	7440666	Zinc	14.9		ug/L	2.0	04/13/2011	04/26/2011	04/20/2011	Low	0.0	50	50	MS	GW-717

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8, MF3TB8A
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Arsenic LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Calcium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Chromium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TB8A , MF3TE8
	Nickel LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Copper LCS , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8S , MF3TE8
	Lead LCS , MF3TB2 , MF3TE7 , MF3TB8S
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Selenium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Barium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Cobalt LCS , MF3TB8S
	Zinc LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Aluminum LCS
	Beryllium LCS , MF3TB8S
	Antimony LCS , MF3TB8S
	Thallium LCS , MF3TB8S
	Cadmium LCS , MF3TB8S
	Magnesium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Silver LCS , MF3TB8S
	Manganese LCS , MF3T98 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L
	Iron LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
	MF3TE5, MF3TE7, MF3TB8, MF3TB8L, MF3TE8, MF3T98, MF3TB2, MF3TE1, MF3TB8D
	Chromium MF3TE5 , MF3TE7
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Beryllium MF3TB8
	Zinc MF3TE5
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Manganese MF3TE8
	Silver MF3T98 , MF3TB8
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
Blanks	**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8, MF3TB8A
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Arsenic LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Calcium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Chromium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TB8A , MF3TE8
	Nickel LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Copper LCS , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8S , MF3TE8
	Lead LCS , MF3TB2 , MF3TE7 , MF3TB8S
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Selenium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Barium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
	Cobalt LCS , MF3TB8S
	Zinc LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Aluminum LCS
	Beryllium LCS , MF3TB8S
	Antimony LCS , MF3TB8S
	Thallium LCS , MF3TB8S
	Cadmium LCS , MF3TB8S
	Magnesium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Silver LCS , MF3TB8S
	Manganese LCS , MF3T98 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L
	Iron LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
Blanks	**ICP_MS**
NCB01	The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs.
	MF3TE1
	Manganese MF3TE1
Blanks	**ICP_MS**
NCB02	The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs.
	MF3TE1
	Manganese MF3TE1
Blanks	**ICP_MS**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TB8D, MF3TB8S, MF3TB8L, MF3TE8
	Vanadium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8S , MF3TB8L , MF3TE8
	Sodium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8
	Potassium LCS , MF3T98 , MF3TB2 , MF3TE1 , MF3TE5 , MF3TE7 , MF3TB8 , MF3TB8D , MF3TB8L , MF3TE8

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Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Blanks

Blanks	ICP_MS
Blanks	**ICP_MS**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBW, MF3TE5, MF3TE7, MF3T98, MF3TB8, MF3TB8D, MF3TB8L, MF3TE1, MF3TE8, MF3TB2
	Vanadium PBW
	Chromium MF3TE5 , MF3TE7
	Potassium PBW
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
	Sodium PBW
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Zinc MF3TE5
	Beryllium MF3TB8
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Manganese MF3TE8
	Silver MF3T98 , MF3TB8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBW, MF3TE5, MF3TE7, MF3TB8L, MF3T98, MF3TB8, MF3TB8D, MF3TE1, MF3TE8, MF3TB2
	Vanadium PBW
	Chromium MF3TE5 , MF3TE7
	Nickel MF3TB8L
	Potassium PBW
	Copper MF3T98 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TB8L
	Lead MF3T98 , MF3TE1 , MF3TE5 , MF3TB8 , MF3TB8D , MF3TE8
	Sodium PBW
	Selenium MF3TB8L
	Barium MF3TB8L
	Cobalt MF3TE5 , MF3TB8 , MF3TB8L , MF3TE8
	Aluminum MF3T98 , MF3TB2 , MF3TE1 , MF3TE7 , MF3TB8 , MF3TB8D
	Zinc MF3TE5 , MF3TB8L
	Beryllium MF3TB8
	Antimony MF3TB8
	Thallium MF3TB8 , MF3TB8L
	Cadmium MF3TB8
	Manganese MF3TB8L , MF3TE8
	Iron MF3TB8L
	Silver MF3T98 , MF3TB8

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF3T98 **Case** 41214 **Contract** EPW09038 **Region** 6 **DDTID** 120324 **SOW** ISM01.2

Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF3T98, MF3TB2, MF3TE1, MF3TE5, MF3TE7, MF3TB8, MF3TE8
	Chromium MF3TB8S

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1622	Comp.	Grab

Station Location	Samplers (Signatures)
	Javier

Tag Number 6- 455761

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case Number: 41214
Sample Number: MF3T98
Station Location: GW-191
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455761

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1521	Comp.	Grab

Station Location

Samplers (Signatures) Jack Shu

Tag Number 6- 455776

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks

Case Number: 41214
Sample Number: MF3TB2
Station Location: GW-040
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455776

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1701	Comp.	Grab

Station Location

Samplers (Signatures)

Tag Number 6- 455782

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Preservative:

Case Number: 41214
Sample Number: MF3TB8
Station Location: GW-107-MS/MD
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455782

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1701	Comp.	Grab

Station Location	Samplers (Signatures)

Tag Number 6- 455783

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case Number: 41214
Sample Number: MF3TB8
Station Location: GW-107-MS/MD
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455783

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1450	Comp.	Grab

Station Location

Samplers (Signatures)

Tag Number 6- 455810

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case Number: 41214
Sample Number: MF3TE5
Station Location: GW-335
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455810

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	1531	Comp.	Grab

Station Location

Samplers (Signatures)

Tag Number 6- 455812

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case Number: 41214
Sample Number: MF3TE7
Station Location: GW-713
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455812

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/2011	1012	Comp.	Grab

Station Location

Samplers (Signatures)

Tag Number 6- 455813

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case Number: 41214
Sample Number: MF3TE8
Station Location: GW-717
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455813

GPO: U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
		4/13/11	~~1515~~ 1541	Comp.	Grab

Station Location	Samplers (Signatures)

Tag Number 6- 455806

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case Number: 41214
Sample Number: MF3TE1
Station Location: GW-715
Sample Type: Grab
Perservative: HNO3
Analysis: CLP TM ISM01.2 ICP-MS
Concentration: L
Tag Number: 6-455806

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